

## Record 1 of 1000

**Title:** Synthesis and antimicrobial activity of aryldiazenyl/arylhydrazono pyrazoles

**Author(s):** Alsayari, A (Alsayari, Abdulrhman); Asiri, YI (Asiri, Yahya, I); Bin Muhsinah, A (Bin Muhsinah, Abdullatif); Hassan, MZ (Hassan, Mohd. Zaheen)

**Source:** JOURNAL OF CHEMICAL RESEARCH **Volume:** 45 **Issue:** 11-12 **Pages:** 1093-1099 **Article Number:** 17475198211057461 **DOI:** 10.1177/17475198211057461 **Early Access Date:** DEC 2021  
**Published:** NOV 2021

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## Record 2 of 1000

**Title:** Spectral, modeling and anticancer activity studies on the newly synthesized N-allyl-2-(2,4-dinitrophenyl)hydrazine-1-carbothioamide and some bivalent metal complexes

**Author(s):** Abou-Melha, K (Abou-Melha, Khlood)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1223 **Article Number:** 128949 **DOI:** 10.1016/j.molstruc.2020.128949 **Published:** JAN 5 2021

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## Record 3 of 1000

**Title:** Efficient Reusable Gold-Mesoporous Silica Nanocatalysts for Aromatic Nitro Reduction: Role of Phenolic Chelating Ligands on Immobilizing Gold Nanoparticles and Catalytic Activity

**Author(s):** Pannipara, M (Pannipara, Mehboobali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.)

**Source:** NANO **Volume:** 16 **Issue:** 14 **Article Number:** 2150165 **DOI:** 10.1142/S1793292021501654 **Published:** DEC 30 2021

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## Record 4 of 1000

**Title:** Synthesis, molecular docking and modeling of new acenaphthenequinones clubbed of anticancer

**Author(s):** Abou-Melha, K (Abou-Melha, Khlood)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1224 **Article Number:** 129215 **DOI:** 10.1016/j.molstruc.2020.129215 **Published:** JAN 15 2021

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## Record 5 of 1000

**Title:** Carbon dots: Discovery, structure, fluorescent properties, and applications

**Author(s):** El-Shafey, AM (El-Shafey, Asmaa M.)

**Source:** GREEN PROCESSING AND SYNTHESIS **Volume:** 10 **Issue:** 1 **Pages:** 134-156 **DOI:** 10.1515/gps-2021-0006 **Published:** JAN 2021

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## Record 6 of 1000

**Title:** Optimal Design Parameters of Exhaust Valve Spring in IC Engines Using Metaheuristic Algorithms

**Author(s):** Arabi, A (Arabi, A.); Osman, H (Osman, H.)

**Book Group Author(s):** IEEE

**Source:** 2021 21ST INTERNATIONAL CONFERENCE ON CONTROL, AUTOMATION AND SYSTEMS (ICCAS 2021) **Book Series:** International Conference on Control Automation and Systems **Pages:** 2221-2225 **Published:** 2021

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## Record 7 of 1000

**Title:** Spectral, modeling, dna binding/cleavage and biological activity studies on the newly synthesized 4-[[<i>Furan</i>-2-ylmethylene</i>]amino]-3-[(2-hydroxybenzylidene)amino]-

phenyll-phenyl-methanone and some bivalent metal(II) chelates

**Author(s):** Aldulmani, SAA (Aldulmani, Sharah A. . A. .)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1226 **Article Number:** 129356 **DOI:** 10.1016/j.molstruc.2020.129356 **Part:** B **Published:** FEB 15 2021

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#### **Record 8 of 1000**

**Title:** Efficient Training of Multi-Layer Neural Networks to Achieve Faster Validation

**Author(s):** Assiri, AS (Assiri, Adel Saad)

**Source:** COMPUTER SYSTEMS SCIENCE AND ENGINEERING **Volume:** 36 **Issue:** 3 **Pages:** 435-450 **DOI:** 10.32604/csse.2021.014894 **Published:** MAY 2021

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#### **Record 9 of 1000**

**Title:** 1,2,4-Triazole-3-Thiones: Greener, One-Pot, Ionic Liquid Mediated Synthesis and Antifungal Activity

**Author(s):** Hassan, MZ (Hassan, Mohd Zaheen); Alsayari, A (Alsayari, Abdulrhman); Asiri, YI (Asiri, Yahya, I); Bin Muhsinah, A (Bin Muhsinah, Abdullatif)

**Source:** POLYCYCLIC AROMATIC COMPOUNDS **Volume:** 43 **Issue:** 1 **Pages:** 167-175 **DOI:** 10.1080/10406638.2021.2009887 **Early Access Date:** NOV 2021 **Published:** JAN 2 2023

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#### **Record 10 of 1000**

**Title:** Synthesis and Characterization of Pyrano[3,2-C]Chromene Derivatives: Exploring Their Optoelectronic and Charge Transport Properties by First-Principles Approach

**Author(s):** Mahmoud, FA (Mahmoud, Fouda Ahmed); Ahmad, I (Ahmad, Irfan); Ali, AM (Ali, Assiri Mohammed); Ghodran, ASA (Ghodran, Al-Sehemi Abdullah)

**Source:** IRANIAN JOURNAL OF CHEMISTRY & CHEMICAL ENGINEERING-INTERNATIONAL ENGLISH EDITION **Volume:** 40 **Issue:** 2 **Pages:** 451-462 **DOI:** 10.30492/IJCCE.2020.37709 **Published:** MAR-APR 2021

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#### **Record 11 of 1000**

**Title:** Concomitant Polymorphs of Aryl-Ether Amine via Catemer and Dimer Carboxylic Acid Supramolecular Interactions and Their Effect on Optical Band Gap

**Author(s):** Pannipara, M (Pannipara, Mehboobali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.)

**Source:** POLYCYCLIC AROMATIC COMPOUNDS **Volume:** 42 **Issue:** 9 **Pages:** 5938-5947 **DOI:** 10.1080/10406638.2021.1962924 **Early Access Date:** JUL 2021 **Published:** OCT 21 2022

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#### **Record 12 of 1000**

**Title:** Synthesis and Biological Screening of Thiophene Derivatives

**Author(s):** Alsayari, A (Alsayari, Abdulrhman); Bin Muhsinah, A (Bin Muhsinah, Abdullatif); Asiri, YI (Asiri, Yahya, I); Venkatesan, K (Venkatesan, Kumar); Mabkhot, YN (Mabkhot, Yahia N.)

**Source:** POLYCYCLIC AROMATIC COMPOUNDS **Volume:** 42 **Issue:** 9 **Pages:** 6720-6731 **DOI:** 10.1080/10406638.2021.1988998 **Early Access Date:** OCT 2021 **Published:** OCT 21 2022

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#### **Record 13 of 1000**

**Title:** Divalent cobalt, copper and zinc complexes of (2Z,2'Z)-2,2'-(oxalylbis (hydrazin-2-yl-1-ylidene))dipropionic acid (H4OPA): Synthesis, characterization, computational, conductometric titration and biological potency

**Author(s):** Abou-Melha, KS (Abou-Melha, Khlood S.)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 133 **Article Number:** 108937 **DOI:** 10.1016/j.inoche.2021.108937 **Early Access Date:** SEP 2021 **Published:** NOV 2021

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#### **Record 14 of 1000**

**Title:** Synthesis, Molecular Modeling, and Anticancer Screening of Some New Imidazothiadiazole Analogs

**Author(s):** Abu-Melha, S (Abu-Melha, Sraa)

**Source:** POLYCYCLIC AROMATIC COMPOUNDS **Volume:** 42 **Issue:** 9 **Pages:** 5833-5854 **DOI:** 10.1080/10406638.2021.1957951 **Early Access Date:** JUL 2021 **Published:** OCT 21 2022

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#### Record 15 of 1000

**Title:** Corrosion Inhibition of Low Carbon Steel in 1 M HCl Solution by Cephalexin Isoniazide Drug and Synergistic Iodide Additives

**Author(s):** Al-Nami, SY (Al-Nami, Samar Y.)

**Source:** BIOINTERFACE RESEARCH IN APPLIED CHEMISTRY **Volume:** 11 **Issue:** 1 **Pages:** 8550-8563 **DOI:** 10.33263/BRIAC111.85508563 **Published:** FEB 15 2021

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#### Record 16 of 1000

**Title:** An Efficient, Ecofriendly, and Sustainable Microwave-assisted Synthesis of Xanthene Derivatives Catalyzed by an Inexpensive and Green Catalyst Boric Acid ( $H_3BO_3$ ) in Aqueous Media

**Author(s):** Tasqeeruddin, S (Tasqeeruddin, S.); Asiri, YI (Asiri, Yahya, I); Sultana, SS (Sultana, Syeda Shaheen)

**Source:** INDIAN JOURNAL OF HETEROCYCLIC CHEMISTRY **Volume:** 31 **Issue:** 4 **Pages:** 511-516 **Published:** OCT-DEC 2021

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#### Record 17 of 1000

**Title:** Optimizing the Sodium Hydroxide Conversion Using Regression Analysis in CSTR

**Author(s):** Al Mesfer, MK (Al Mesfer, Mohammed K.)

**Source:** APPLIED SCIENCES-BASEL **Volume:** 11 **Issue:** 15 **Article Number:** 6789 **DOI:** 10.3390/app11156789 **Published:** AUG 2021

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#### Record 18 of 1000

**Title:** Honey bee (*Apis mellifera*) preference towards micronutrients and their impact on bee colonies

**Author(s):** Khan, KA (Khan, Khalid Ali); Ghramh, HA (Ghramh, Hamed A.); Ahmad, Z (Ahmad, Zubair); El-Niweiri, MAA (El-Niweiri, Mogbel A. A.); Mohammed, MEA (Mohammed, Mohamed Elimam Ahamed)

**Source:** SAUDI JOURNAL OF BIOLOGICAL SCIENCES **Volume:** 28 **Issue:** 6 **Pages:** 3362-3366 **DOI:** 10.1016/j.sjbs.2021.02.084 **Early Access Date:** MAY 2021 **Published:** JUN 2021

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#### Record 19 of 1000

**Title:** Rapid and Efficient One-Pot Multicomponent Synthesis of Pyrano[3,2-*c*]chromene Derivatives, Catalyzed by a Deep Eutectic Solvent

**Author(s):** Tasqeeruddin, S (Tasqeeruddin, S.); Asiri, YI (Asiri, Y., I); Shaheen, S (Shaheen, S.)

**Source:** RUSSIAN JOURNAL OF ORGANIC CHEMISTRY **Volume:** 57 **Issue:** 8 **Pages:** 1321-1329 **DOI:** 10.1134/S1070428021080121 **Published:** AUG 2021

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#### Record 20 of 1000

**Title:** Anticancer, anti-proliferative activity of *Avicennia marina* plant extracts

**Author(s):** Albinhassan, TH (Albinhassan, Tahani H.); Saleh, KA (Saleh, Kamel A.); Barhoumi, Z (Barhoumi, Zouhaier); Alshehri, MA (Alshehri, Mohammed Ali); Al-Ghazzawi, AM (Al-Ghazzawi, Adel M.)

**Source:** JOURNAL OF CANCER RESEARCH AND THERAPEUTICS **Volume:** 17 **Issue:** 4 **Pages:** 879-886 **DOI:** 10.4103/jcrt.JCRT\_659\_19 **Published:** JUL-SEP 2021

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#### Record 21 of 1000

**Title:** Exploring the electron-hole transport nature and optoelectronic properties of 4-nitro-4'-amino-azobenzene-based dyes

**Author(s):** Irfan, A (Irfan, Ahmad)

**Source:** STRUCTURAL CHEMISTRY **Volume:** 32 **Issue:** 3 **Pages:** 1113-1121 **DOI:** 10.1007/s11224-020-01712-8 **Early Access Date:** JAN 2021 **Published:** JUN 2021

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### Record 22 of 1000

**Title:** An environmentally benign, simple and proficient synthesis of quinoline derivatives catalyzed by FeCl<sub>3</sub>.6H<sub>2</sub>O as a green and readily available catalyst

**Author(s):** Tasqeeruddin, S (Tasqeeruddin, S.); Asiri, YI (Asiri, Yahya I.); Shaheen, S (Shaheen, S.)

**Source:** GREEN CHEMISTRY LETTERS AND REVIEWS **Volume:** 14 **Issue:** 1 **Pages:** 118-126 **DOI:** 10.1080/17518253.2020.1869840 **Published:** JAN 2 2021

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### Record 23 of 1000

**Title:** Effect of tea waste on optical and surface area of magnetic cobalt ferrite (CoFe<sub>2</sub>O<sub>4</sub>) nanoparticles

**Author(s):** Kalam, A (Kalam, Abul)

**Source:** DESALINATION AND WATER TREATMENT **Volume:** 225 **Pages:** 244-251 **DOI:** 10.5004/dwt.2021.27214 **Published:** JUN 2021

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### Record 24 of 1000

**Title:** RETRACTED: Queen cells acceptance rate and royal jelly production in worker honey bees of two *Apis mellifera* races (Retracted Article)

**Author(s):** Khan, KA (Khan, Khalid Ali); Ghramh, HA (Ghramh, Hamed A.); Ahmad, Z (Ahmad, Zubair); El-Niweiri, MAA (El-Niweiri, Mogbel A. A.); Mohammed, MEA (Mohammed, Mohamed Elimam Ahamed)

**Source:** PLOS ONE **Volume:** 16 **Issue:** 4 **Article Number:** e0248593 **DOI:** 10.1371/journal.pone.0248593 **Published:** APR 13 2021

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### Record 25 of 1000

**Title:** Push-pull effect on the charge transport characteristics in V-shaped organic semiconductor materials

**Author(s):** Irfan, A (Irfan, Ahmad)

**Source:** BULLETIN OF MATERIALS SCIENCE **Volume:** 44 **Issue:** 1 **Article Number:** 43 **DOI:** 10.1007/s12034-020-02316-y **Published:** FEB 18 2021

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### Record 26 of 1000

**Title:** FNF-12, a novel benzylidene-chromanone derivative, attenuates inflammatory response in in vitro and in vivo asthma models mediated by M2-related Th2 cytokines via MAPK and NF-κB signaling

**Author(s):** Abohassan, M (Abohassan, Mohammad); Al Shahrani, M (Al Shahrani, Mesfer); Alshahrani, MY (Alshahrani, Mohammad Y.); Begum, N (Begum, Naseem); Radhakrishnan, S (Radhakrishnan, Suresh); Rajagopalan, P (Rajagopalan, Prasanna)

**Source:** PHARMACOLOGICAL REPORTS **Volume:** 74 **Issue:** 1 **Pages:** 96-110 **DOI:** 10.1007/s43440-021-00325-0 **Early Access Date:** SEP 2021 **Published:** FEB 2022

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### Record 27 of 1000

**Title:** Suppression of L-Arginine-Induced Acute Necrotizing Pancreatitis in Rats by Metformin Associated with the Inhibition of Myeloperoxidase and Activation of Interleukin-10

**Author(s):** Al-Hashem, F (Al-Hashem, Fahaid)

**Source:** INTERNATIONAL JOURNAL OF MORPHOLOGY **Volume:** 39 **Issue:** 1 **Pages:** 102-108 **Published:** JAN 2021

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### Record 28 of 1000

**Title:** Structural parameter-modulated nonlinear optical amplitude of acceptor-π-D-π-donor-configured pyrene derivatives: a DFT approach

**Author(s):** Khalid, M (Khalid, Muhammad); Lodhi, HM (Lodhi, Hafiza Munnazza); Khan, MU (Khan, Muhammad Usman); Imran, M (Imran, Muhammad)

**Source:** RSC ADVANCES **Volume:** 11 **Issue:** 23 **Pages:** 14237-14250 **DOI:** 10.1039/d1ra00876e **Published:** APR 23 2021

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### Record 29 of 1000

**Title:** Tin oxide oxide nanocatalyst assisted transformation of p-Nitrophenol to p-Aminophenol

**Author(s):** Naaz, F (Naaz, Farha); Shamsi, A (Shamsi, Atiba); Jain, SK (Jain, Sapan K.); Kalam, A (Kalam, Abul); Ahmad, T (Ahmad, Tokeer)

**Source:** MATERIALS TODAY-PROCEEDINGS **Volume:** 36 **Pages:** 708-716 **DOI:** 10.1016/j.matpr.2020.04.767 **Early Access Date:** FEB 2021 **Part:** 3 **Published:** 2021

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### Record 30 of 1000

**Title:** Design, synthesis and anticancer evaluation of structurally modified substituted aryl-quinazoline derivatives as anticancer agents

**Author(s):** Syed, T (Syed, Tasqeeruddin); Asiri, YI (Asiri, Yahya I.); Shaheen, S (Shaheen, Shaheen); Gangarapu, K (Gangarapu, Kiran)

**Source:** SYNTHETIC COMMUNICATIONS **Volume:** 51 **Issue:** 18 **Pages:** 2782-2795 **DOI:** 10.1080/00397911.2021.1941113 **Early Access Date:** JUL 2021 **Published:** SEP 17 2021

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### Record 31 of 1000

**Title:** Presence of short and cyclic peptides in Acacia and Ziziphus honeys may potentiate their medicinal values

**Author(s):** ALaerjani, WMA (ALaerjani, Wed Mohammed Ali); Abu-Melha, SA (Abu-Melha, Saraa Abdullah); Khan, KA (Khan, Khalid Ali); Ghramh, HA (Ghramh, Hamed A.); Alalmie, AYA (Alalmie, Ali Yahya A.); Alshareef, RMH (Alshareef, Rahaf Mohammed Hussein); AL-Shehri, BM (AL-Shehri, Badria M.); Mohammed, MEA (Mohammed, Mohammed Elimam Ahamed)

**Source:** OPEN CHEMISTRY **Volume:** 19 **Issue:** 1 **Pages:** 1171-1182 **DOI:** 10.1515/chem-2021-0106 **Published:** DEC 7 2021

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### Record 32 of 1000

**Title:** Structure activity evaluation and computational analysis identify potent, novel 3-benzylidene chroman-4-one analogs with anti-fungal, anti-oxidant, and anti-cancer activities

**Author(s):** Zaman, GS (Zaman, Gaffar Sarwar); Kamli, H (Kamli, Hossam); Radhakrishnan, S (Radhakrishnan, Suresh); Ahmad, I (Ahmad, Irfan); Otifi, H (Otifi, Hassan); Alshahrani, MY (Alshahrani, Mohamad Y.); Rajagopalan, P (Rajagopalan, Prasanna)

**Source:** DRUG DEVELOPMENT AND INDUSTRIAL PHARMACY **Volume:** 47 **Issue:** 9 **Pages:** 1459-1468 **DOI:** 10.1080/03639045.2021.2001489 **Early Access Date:** NOV 2021 **Published:** SEP 2 2021

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### Record 33 of 1000

**Title:** Dual stimuli-responsive silver nanoparticles decorated SBA-15 hybrid catalyst for selective oxidation of alcohols under 'mild' conditions

**Author(s):** Thomas, AM (Thomas, Anju Maria); Peter, J (Peter, Jerome); Mohan, A (Mohan, Anandhu); Nagappan, S (Nagappan, Saravanan); Selvaraj, M (Selvaraj, Manickam); Ha, CS (Ha, Chang-Sik)

**Source:** MICROPOROUS AND MESOPOROUS MATERIALS **Volume:** 311 **Article Number:** 110697 **DOI:** 10.1016/j.micromeso.2020.110697 **Published:** FEB 2021

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### Record 34 of 1000

**Title:** CO<sub>2</sub> sorption from a mixture of N<sub>2</sub>/CO<sub>2</sub> using an activated carbon and silica gel: equilibrium, breakthrough, column efficiency and mass transfer zone

**Author(s):** Al Mesfer, MK (Al Mesfer, M. K.); Danish, M (Danish, M.); Al Alwan, BA (Al Alwan, B. A.); Awwad, NS (Awwad, N. S.)

**Source:** GLOBAL NEST JOURNAL **Volume:** 23 **Issue:** 1 **Pages:** 1-12 **DOI:** 10.30955/gnj.003166 **Published:** JUN 2021

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### Record 35 of 1000

**Title:** High performance liquid chromatography (HPLC) method development and validation for the determination of flunixin: Animal plasma based study

**Author(s):** Alshahrani, SM (Alshahrani, Sultan M.); Christensen, JM (Christensen, John Mark)

**Source:** MAIN GROUP CHEMISTRY **Volume:** 20 **Issue:** 4 **Pages:** 611-621 **DOI:** 10.3233/MGC-210087 **Published:** 2021

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**Record 36 of 1000**

**Title:** Enhanced Photocatalytic Performance of One-Pot Flash Combustion Synthesized ZnO Nanoparticles: An Effect of Bi Doping

**Author(s):** Al-Namshah, KS (Al-Namshah, Khadijah S.); Shkir, M (Shkir, Mohd.); Hamdy, MS (Hamdy, Mohamed S.)

**Source:** JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS **Volume:** 31 **Issue:** 11 **Pages:** 4338-4348 **DOI:** 10.1007/s10904-021-02049-3 **Early Access Date:** JUN 2021  
**Published:** NOV 2021

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**Record 37 of 1000**

**Title:** Experimental, DFT and MD Assessments of Bark Extract of *Tamarix aphylla* as Corrosion Inhibitor for Carbon Steel Used in Desalination Plants

**Author(s):** Ali, IH (Ali, Ismat H.)

**Source:** MOLECULES **Volume:** 26 **Issue:** 12 **Article Number:** 3679 **DOI:** 10.3390/molecules26123679 **Published:** JUN 2021

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**Record 38 of 1000**

**Title:** Anticancer efficacy of 3-(4-isopropyl) benzylidene-8-ethoxy, 6-methyl, chroman-4-one (SBL-060), a novel, dual, estrogen receptor-Akt kinase inhibitor in acute myeloid leukemia cells

**Author(s):** Al Shahrani, M (Al Shahrani, Mesfer); Rajagopalan, P (Rajagopalan, Prasanna); Abohassan, M (Abohassan, Mohammad); Alshahrani, M (Alshahrani, Mohammad); Alraey, Y (Alraey, Yasser); Gahtani, RM (Gahtani, Reem M.); Radhakrishnan, S (Radhakrishnan, Suresh); Dageery, K (Dageery, Khlood)

**Source:** ONCOLOGY RESEARCH **Volume:** 29 **Issue:** 3 **Pages:** 149-157 **DOI:** 10.32604/or.2022.03539 **Published:** 2021

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**Record 39 of 1000**

**Title:** Natural radioactivity level in pumice rock, in Saudi Arabia and effect on human health

**Author(s):** Alshahrani, BE (Alshahrani, Badriah Elserhani)

**Source:** INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY **Volume:** 103 **Issue:** 14 **Pages:** 3410-3421 **DOI:** 10.1080/03067319.2021.1907363 **Early Access Date:** MAR 2021  
**Published:** NOV 14 2023

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**Record 40 of 1000**

**Title:** Excited state absorption of Cu-doped barium borate nanostructures under nanopulsed laser excitation

**Author(s):** Babeela, C (Babeela, C.); Assiri, MA (Assiri, Mohammed A.); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Pannipara, M (Pannipara, Mehboobali); Girisun, TCS (Girisun, T. C. Sabari)

**Source:** EUROPEAN PHYSICAL JOURNAL D **Volume:** 75 **Issue:** 3 **Article Number:** 102 **DOI:** 10.1140/epjd/s10053-021-00116-5 **Published:** MAR 2021

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**Record 41 of 1000**

**Title:** Hydrothermal assisted synthesis and structural characterization of Zn doped SnO<sub>2</sub> nanoparticles for catalytic reduction of 4-nitrophenol

**Author(s):** Jain, SK (Jain, Sapan Kumar); Farooq, U (Farooq, Umar); Jamal, F (Jamal, Fahad); Abul Kalam (Abul Kalam); Ahmad, T (Ahmad, Tokeer)

**Source:** MATERIALS TODAY-PROCEEDINGS **Volume:** 36 **Pages:** 717-723 **DOI:** 10.1016/j.matpr.2020.04.768 **Early Access Date:** FEB 2021 **Part:** 3 **Published:** 2021

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**Record 42 of 1000**

**Title:** New insights into the spread of resistance to artemisinin and its analogues

**Author(s):** Noreen, N (Noreen, Noreen); Ullah, A (Ullah, Asad); Salman, SM (Salman, Syed Muhammad); Mabkhot, Y (Mabkhot, Yahia); Alsayari, A (Alsayari, Abdulrhman); Badshah, SL (Badshah, Syed Lal)

**Source:** JOURNAL OF GLOBAL ANTIMICROBIAL RESISTANCE **Volume:** 27 **Pages:** 142-149 **DOI:** 10.1016/j.jgar.2021.09.001 **Early Access Date:** OCT 2021 **Published:** DEC 2021

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#### **Record 43 of 1000**

**Title:** Photocatalytic Inactivation of Bioaerosols: A Short Review on Emerging Technologies

**Author(s):** Riaz, N (Riaz, Nadia); Khan, MS (Khan, Muhammad Saqib); Bilal, M (Bilal, Muhammad); Ullah, S (Ullah, Sami); Al-Sehemi, AG (Al-Sehemi, Abdullah G.)

**Source:** CURRENT ANALYTICAL CHEMISTRY **Volume:** 17 **Issue:** 1 **Pages:** 31-37 **DOI:** 10.2174/1573411016999200729115254 **Published:** 2021

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#### **Record 44 of 1000**

**Title:** Tuning spontaneous emission in BInGaAs/GaAs QWs by varying the growth temperature: above 1.2  $\mu\text{m}$  emission and solar cells application

**Author(s):** Hidouri, T (Hidouri, Tarek); Saidi, F (Saidi, Faouzi); Al-Shahri, BM (Al-Shahri, Badria M.)

**Source:** OPTICAL AND QUANTUM ELECTRONICS **Volume:** 53 **Issue:** 9 **Article Number:** 532 **DOI:** 10.1007/s11082-021-03160-y **Published:** SEP 2021

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#### **Record 45 of 1000**

**Title:** Effects of sonochemical approach and induced contraction of core-shell bismuth sulfide/graphitic carbon nitride as an efficient electrode materials for electrocatalytic detection of antibiotic drug in foodstuffs

**Author(s):** Govindasamy, M (Govindasamy, Mani); Wang, SF (Wang, Sea-Fue); Almahri, A (Almahri, Albandary); Rajaji, U (Rajaji, U.)

**Source:** ULTRASONICS SONOCHEMISTRY **Volume:** 72 **Article Number:** 105445 **DOI:** 10.1016/j.ultsonch.2020.105445 **Early Access Date:** JAN 2021 **Published:** APR 2021

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#### **Record 46 of 1000**

**Title:** Optimizing the thermoelectric properties of thermally evaporated  $\text{AgSnO}_2$  thin films by post growth annealing process

**Author(s):** InamUllah, M (InamUllah, M.); Amami, M (Amami, Mongi); Mahmood, K (Mahmood, K.); Ikram, S (Ikram, Salma); Ali, A (Ali, A.); Amin, N (Amin, N.); Javaid, K (Javaid, K.); Ali, MY (Ali, M. Yasir)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 134 **Article Number:** 108994 **DOI:** 10.1016/j.inoche.2021.108994 **Early Access Date:** OCT 2021 **Published:** DEC 2021

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#### **Record 47 of 1000**

**Title:** Growth temperature impact on MOVPE-grown BInGaAs/GaAs QWs designed for optoelectronic applications

**Author(s):** Hidouri, T (Hidouri, Tarek); Saidi, F (Saidi, Faouzi); Hamila, R (Hamila, Radhia); Al-Shahri, BM (Al-Shahri, Badria M.)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 32 **Issue:** 15 **Pages:** 20115-20129 **DOI:** 10.1007/s10854-021-06477-2 **Early Access Date:** JUL 2021 **Published:** AUG 2021

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#### **Record 48 of 1000**

**Title:** Flexible Memory Device Composed of Metal-Oxide and Two-Dimensional Material ( $\text{SnO}_2/\text{WTe}_2$ ) Exhibiting Stable Resistive Switching

**Author(s):** Dastgeer, G (Dastgeer, Ghulam); Afzal, AM (Afzal, Amir Muhammad); Aziz, J (Aziz, Jamal); Hussain, S (Hussain, Sajjad); Jaffery, SHA (Jaffery, Syed Hassan Abbas); Kim, DK (Kim, Deok-kee); Imran, M (Imran, Muhammad); Assiri, MA (Assiri, Mohammed Ali)

**Source:** MATERIALS **Volume:** 14 **Issue:** 24 **Article Number:** 7535 **DOI:** 10.3390/ma14247535 **Published:** DEC 2021

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**Record 49 of 1000**

**Title:** Stereoselective total synthesis of (-)-curvularin

**Author(s):** Krishna, MR (Radha Krishna, Muniganti); Sridhar, G (Sridhar, Gattu); Syed, T (Syed, Tasqeeruddin); Jayaprakash, HV (Jayaprakash, H. V.)

**Source:** SYNTHETIC COMMUNICATIONS **Volume:** 52 **Issue:** 1 **Pages:** 37-42 **DOI:** 10.1080/00397911.2021.1979043 **Early Access Date:** OCT 2021 **Published:** JAN 2 2022

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**Record 50 of 1000**

**Title:** First-principles calculations to investigate the effects of strain, electric field, and atom impurity on the electronic and magnetic properties of RuX<sub>2</sub> (X = S, Se) nanosheets

**Author(s):** Abdullahi, YZ (Abdullahi, Yusuf Zuntu); Ahmad, S (Ahmad, Sohail)

**Source:** PHYSICAL CHEMISTRY CHEMICAL PHYSICS **Volume:** 23 **Issue:** 30 **Pages:** 16316-16323 **DOI:** 10.1039/d1cp01968f **Early Access Date:** JUL 2021 **Published:** AUG 14 2021

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**Record 51 of 1000**

**Title:** InCl<sub>3</sub> - Catalyzed Synthesis and Anti-cancer Activity of 2-Aryl-1,3,4-Oxadiazoles

**Author(s):** Saketi, JMR (Saketi, Jagan Mohana Rao); Ramanal, MB (Ramanal, M. Baby); Alam, MM (Alam, M. Mujahid); Mule, SNR (Mule, Siva Nagi Reddy); Babu, BH (Babu, B. Hari)

**Source:** INDIAN JOURNAL OF HETEROCYCLIC CHEMISTRY **Volume:** 31 **Issue:** 3 **Pages:** 505-509 **Published:** JUL-SEP 2021

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**Record 52 of 1000**

**Title:** Design, synthesis and antimicrobial activity of novel 2-aminothiophene containing cyclic and heterocyclic moieties

**Author(s):** Asiri, YI (Asiri, Yahya, I); Bin Muhsinah, A (Bin Muhsinah, Abdullatif); Alsayari, A (Alsayari, Abdulrhman); Venkatesan, K (Venkatesan, Kumar); Al-Ghorbani, M (Al-Ghorbani, Mohammed); Mabkhot, YN (Mabkhot, Yahia N.)

**Source:** BIOORGANIC & MEDICINAL CHEMISTRY LETTERS **Volume:** 44 **Article Number:** 128117 **DOI:** 10.1016/j.bmcl.2021.128117 **Early Access Date:** MAY 2021 **Published:** JUL 15 2021

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**Record 53 of 1000**

**Title:** A novel indolehydrazone appended salicylaldehyde platform for detection of multianalytes (Al<sup>3+</sup>, Zn<sup>2+</sup> and F<sup>-</sup> ions): Live cell imaging

**Author(s):** Karuppiah, K (Karuppiah, Krishnaveni); Muniyasamy, H (Muniyasamy, Harikrishnan); Nelson, M (Nelson, Malini); Selvaraj, M (Selvaraj, Manickam); Sepperumal, M (Sepperumal, Murugesan); Ayyanar, S (Ayyanar, Siva)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 135 **Article Number:** 109080 **DOI:** 10.1016/j.inoche.2021.109080 **Early Access Date:** DEC 2021 **Published:** JAN 2022

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**Record 54 of 1000**

**Title:** Development of Pyrazole Derivatives as Xanthine Oxidase Inhibitors

**Author(s):** Alsayari, A (Alsayari, Abdulrhman); Hassan, MZ (Hassan, Mohd Zaheen); Asiri, YI (Asiri, Yahya, I); Bin Muhsinah, A (Bin Muhsinah, Abdullatif); Kamal, M (Kamal, Mehnaz); Akhtar, MS (Akhtar, Md Sayeed)

**Source:** INDIAN JOURNAL OF HETEROCYCLIC CHEMISTRY **Volume:** 31 **Issue:** 4 **Pages:** 635-640 **Published:** OCT-DEC 2021

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**Record 55 of 1000**

**Title:** Using artificial neural network to optimize the flow and natural heat transfer of a magnetic nanofluid in a square enclosure with a fin on its vertical wall: a lattice Boltzmann simulation

**Author(s):** Chen, HJ (Chen, Haiji); Saleem, S (Saleem, S.); Ghaderi, M (Ghaderi, Mohammad)

**Source:** JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY **Volume:** 145 **Issue:** 4 **Pages:** 2261-2276 **DOI:** 10.1007/s10973-021-10767-6 **Early Access Date:** APR 2021 **Published:** AUG 2021

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**Record 56 of 1000**

**Title:** Comparative Study of CO<sub>2</sub> Capture by Adsorption in Sustainable Date Pits-Derived Porous Activated Carbon and Molecular Sieve

**Author(s):** Danish, M (Danish, Mohd); Parthasarthy, V (Parthasarthy, Vijay); Al Mesfer, MK (Al Mesfer, Mohammed K.)

**Source:** INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH **Volume:** 18 **Issue:** 16 **Article Number:** 8497 **DOI:** 10.3390/ijerph18168497 **Published:** AUG 2021

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**Record 57 of 1000**

**Title:** Numerical modeling of AZTS as buffer layer in CZTS solar cells with back surface field for the improvement of cell performance

**Author(s):** Jamil, M (Jamil, M.); Amami, M (Amami, Mongi); Ali, A (Ali, A.); Mahmood, K (Mahmood, K.); Amin, N (Amin, N.)

**Source:** SOLAR ENERGY **Volume:** 231 **Pages:** 41-46 **DOI:** 10.1016/j.solener.2021.11.025 **Early Access Date:** NOV 2021 **Published:** JAN 1 2022

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**Record 58 of 1000**

**Title:** Total phenolic and flavonoid contents, cytotoxic, immuno-modulatory and anti-inflammatory potential of whole plant of Astragalus creticus (Fabaceae)

**Author(s):** Ghaffari, MA (Ghaffari, Muhammad Abuzar); Chaudhry, BA (Chaudhry, Bashir Ahmad); Uzair, M (Uzair, Muhammad); Imran, M (Imran, Muhammad); Ashfaq, K (Ashfaq, Khuram)

**Source:** TROPICAL JOURNAL OF PHARMACEUTICAL RESEARCH **Volume:** 20 **Issue:** 10 **Pages:** 2109-2115 **DOI:** 10.4314/tjpr.v20i10.14 **Published:** OCT 2021

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**Record 59 of 1000**

**Title:** Review selection criteria of microbial fuel cell types and applications

**Author(s):** Natarajan, V (Natarajan, Varagunapandiyan); Manohar, N (Manohar, Nivetha); Elavarasan, P (Elavarasan, Pandian)

**Source:** RESEARCH JOURNAL OF BIOTECHNOLOGY **Volume:** 16 **Issue:** 5 **Pages:** 193-203 **Published:** MAY 2021

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**Record 60 of 1000**

**Title:** CO<sub>2</sub> Capture by Low-Cost Date Pits-Based Activated Carbon and Silica Gel

**Author(s):** Danish, M (Danish, Mohd); Parthasarthy, V (Parthasarthy, Vijay); Al Mesfer, MK (Al Mesfer, Mohammed K.)

**Source:** MATERIALS **Volume:** 14 **Issue:** 14 **Article Number:** 3885 **DOI:** 10.3390/ma14143885 **Published:** JUL 2021

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**Record 61 of 1000**

**Title:** Preparation and characterisation of Ce-doped SiO<sub>2</sub> nano-materials as effective photo-catalyst under visible light

**Author(s):** El-Salamony, RA (El-Salamony, Radwa A.); Amdeha, E (Amdeha, Enas); El Shafey, AM (El Shafey, Asmaa M.); Al Sabagh, AM (Al Sabagh, Ahmed M.)

**Source:** INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY **Volume:** 103 **Issue:** 4 **Pages:** 868-883 **DOI:** 10.1080/03067319.2020.1865328 **Early Access Date:** JAN 2021 **Published:** MAR 16 2023

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**Record 62 of 1000**

**Title:** Particulate matter concentration and health risk assessment for a residential building during COVID-19 pandemic in Abha, Saudi Arabia

**Author(s):** Algarni, S (Algarni, Salem); Khan, RA (Khan, Roohul Abad); Khan, NA (Khan, Nadeem Ahmad); Mubarak, NM (Mubarak, Nabisab Mujawar)

**Source:** ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH **Volume:** 28 **Issue:** 46 **Pages:** 65822-65831 **DOI:** 10.1007/s11356-021-15534-6 **Early Access Date:** JUL 2021 **Published:** DEC 2021

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#### **Record 63 of 1000**

**Title:** Copper oxide nanopowder modified carbon paste electrode for the voltammetric assay of vonoprazan

**Author(s):** Al-Qahtani, SD (Al-Qahtani, Salhah D.); Al-nami, SY (Al-nami, Samar Y.)

**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 14 **Issue:** 8 **Article Number:** 103254 **DOI:** 10.1016/j.arabjc.2021.103254 **Early Access Date:** JUN 2021 **Published:** AUG 2021

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#### **Record 64 of 1000**

**Title:** Analytical approximations of single-electron device current through non-interacting quantum dot

**Author(s):** Moulhim, A (Moulhim, Ali); Tripathi, B (Tripathi, Brijesh); Kalam, A (Kalam, Abul); Kumar, M (Kumar, Manoj)

**Source:** SUPERLATTICES AND MICROSTRUCTURES **Volume:** 151 **Article Number:** 106819 **DOI:** 10.1016/j.spmi.2021.106819 **Early Access Date:** JAN 2021 **Published:** MAR 2021

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#### **Record 65 of 1000**

**Title:** An effective strategy for tuning nonlinear optical response of *N*-atom functionalized corannulene by alkali metals doping: First theoretical insight

**Author(s):** Nazir, R (Nazir, Rabia); Yaqoob, J (Yaqoob, Junaid); Khan, MU (Khan, Muhammad Usman); Gilani, MA (Gilani, Mazhar Amjad); Alvi, MU (Alvi, Muhammad Usman); Hussain, R (Hussain, Riaz); Mustafa, G (Mustafa, Ghulam); Alam, MM (Alam, Mohammed Mujahid); Imran, M (Imran, Muhammad)

**Source:** COMPUTATIONAL AND THEORETICAL CHEMISTRY **Volume:** 1205 **Article Number:** 113430 **DOI:** 10.1016/j.comptc.2021.113430 **Early Access Date:** SEP 2021 **Published:** NOV 2021

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#### **Record 66 of 1000**

**Title:** Tuning oxygen vacancy content in TiO<sub>2</sub> nanoparticles to enhance the photocatalytic performance

**Author(s):** Bi, X (Bi, Xiang); Du, GH (Du, Gaohui); Kalam, A (Kalam, Abul); Sun, DF (Sun, Dongfeng); Yu, Y (Yu, Yuan); Su, QM (Su, Qingmei); Xu, BS (Xu, Bingshe); Al-Sehemi, AG (Al-Sehemi, Abdullah G.)

**Source:** CHEMICAL ENGINEERING SCIENCE **Volume:** 234 **Article Number:** 116440 **DOI:** 10.1016/j.ces.2021.116440 **Early Access Date:** JAN 2021 **Published:** APR 28 2021

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#### **Record 67 of 1000**

**Title:** Gold Nanoparticles as Efficient Catalysts in Organic Transformations

**Author(s):** Wani, IA (Wani, Irshad A.); Jain, SK (Jain, Sapan K.); Khan, H (Khan, Huma); Abul Kalam (Abul Kalam); Ahmad, T (Ahmad, Tokeer)

**Source:** CURRENT PHARMACEUTICAL BIOTECHNOLOGY **Volume:** 22 **Issue:** 6 **Pages:** 714-722 **DOI:** 10.2174/1389201022666210218195205 **Published:** 2021

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#### **Record 68 of 1000**

**Title:** Stenosis of Carotid Arteries and Concentration of Some Blood Lipid Parameters amongst Tobacco Smokers in Abha: A Case-Control Study

**Author(s):** Alelyani, M (Alelyani, Magbool); Alshahrani, SASA (Al-Saleem Alshahrani, Safar Abadi Saeed); Zaman, GS (Zaman, Gaffar Sarwar); Hadadi, I (Hadadi, Ibrahim); Musa, MJ (Musa, Mustafa Jafar); Adam, M (Adam, Mohamed); Mohammed, MEA (Mohammed, Mohammed Elimam Ahamed)

**Source:** APPLIED SCIENCES-BASEL **Volume:** 11 **Issue:** 5 **Article Number:** 2001 **DOI:** 10.3390/app11052001 **Published:** MAR 2021

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#### **Record 69 of 1000**

**Title:** Synthesis and Biological Evaluation of Certain Tetrasubstituted Thiophene Derivatives

**Author(s):** Bin Muhsinah, A (Bin Muhsinah, Abdullatif); Alsayari, A (Alsayari, Abdulrhman); Asiri, YI (Asiri, Yahya I.); Venkatesan, K (Venkatesan, Kumar); Al-Ghorbani, M (Al-Ghorbani, Mohammed); Mabkhot, YN

(Mabkhot, Yahia N.)

**Source:** POLYCYCLIC AROMATIC COMPOUNDS **Volume:** 42 **Issue:** 8 **Pages:** 5261-5271 **DOI:** 10.1080/10406638.2021.1933104 **Early Access Date:** MAY 2021 **Published:** SEP 14 2022

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#### Record 70 of 1000

**Title:** A noticeable consistent improvement in photocatalytic efficiency of hazardous textile dye through facile flash combustion synthesized Li-doped ZnO nanoparticles

**Author(s):** Chandekar, KV (Chandekar, Kamlesh V.); Shkir, M (Shkir, Mohd.); AlFaify, S (AlFaify, S.); Al-Shehri, BM (Al-Shehri, Badria M.); Al-Namshah, KS (Al-Namshah, Khadijah S.); Hamdy, MS (Hamdy, Mohamed S.)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 32 **Issue:** 3 **Pages:** 3437-3450 **DOI:** 10.1007/s10854-020-05090-z **Early Access Date:** JAN 2021 **Published:** FEB 2021

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#### Record 71 of 1000

**Title:** Redistribution cations at sites of cadmium ferrite nanostructures as a result of Fe<sup>2+</sup> and Co<sup>2+</sup> ions dual additions and their magnetic, dielectric, spectroscopic, and mechanical properties

**Author(s):** Kershi, RM (Kershi, R. M.)

**Source:** MATERIALS CHEMISTRY AND PHYSICS **Volume:** 270 **Article Number:** 124862 **DOI:** 10.1016/j.matchemphys.2021.124862 **Early Access Date:** JUN 2021 **Published:** SEP 15 2021

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#### Record 72 of 1000

**Title:** CO<sub>2</sub> capture using activated carbon synthesized from date stone: breakthrough, equilibrium, and mass-transfer zone

**Author(s):** Danish, M (Danish, Mohd); Parthasarthy, V (Parthasarthy, Vijay); Al Mesfer, MK (Al Mesfer, Mohammed K.)

**Source:** CARBON LETTERS **Volume:** 31 **Issue:** 6 **Pages:** 1261-1272 **DOI:** 10.1007/s42823-021-00249-y **Early Access Date:** APR 2021 **Published:** DEC 2021

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#### Record 73 of 1000

**Title:** Outlining the influence of thermal and solutal stratifications on mixed convection second grade fluid flow near an irregular cylinder with induced magnetic field

**Author(s):** Salahuddin, T (Salahuddin, T.); Siddique, N (Siddique, Nazim); Khan, M (Khan, Mair); Al Alwan, B (Al Alwan, Basem); Almesfer, M (Almesfer, Mohammed)

**Source:** WAVES IN RANDOM AND COMPLEX MEDIA **DOI:** 10.1080/17455030.2021.2009153 **Early Access Date:** DEC 2021

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#### Record 74 of 1000

**Title:** Synthesis, crystal structure, Hirshfeld surface analysis, spectroscopic characterizations and electrical properties of the new complex of cobalt (III) and the Schiff-base of dihydroxycoumarin

**Author(s):** Ketata, I (Ketata, Imen); Bejaoui, L (Bejaoui, Linda); Brahmia, A (Brahmia, Ameni); Ben Hassen, R (Ben Hassen, Rached)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1246 **Article Number:** 131161 **DOI:** 10.1016/j.molstruc.2021.131161 **Early Access Date:** AUG 2021 **Published:** DEC 15 2021

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#### Record 75 of 1000

**Title:** Synthesis, characterization, anti-proliferative activity and DFT study of 1*H*-benzo[*f*]chromene-2-carbothioamide derivatives

**Author(s):** Fouda, AM (Fouda, Ahmed M.); Irfan, A (Irfan, Ahmad); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); El-Agrody, AM (El-Agrody, Ahmed M.)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1240 **Article Number:** 130542 **DOI:** 10.1016/j.molstruc.2021.130542 **Early Access Date:** MAY 2021 **Published:** SEP 15 2021

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### Record 76 of 1000

**Title:** Phytoconstituents of *Zingiber officinale* as New Leads for the Design and Development of Novel Antidengue Agents: An *In-silico* Analysis

**Author(s):** Hassan, MZ (Hassan, Mohd Zaheen); Alsayari, A (Alsayari, Abdulrhman); Asiri, YI (Asiri, Yahya, I); Bin Muhsinah, A (Bin Muhsinah, Abdullatif); Kamal, M (Kamal, Mehnaz); Tasqeeruddin, S (Tasqeeruddin, Syed)

**Source:** INDIAN JOURNAL OF HETEROCYCLIC CHEMISTRY **Volume:** 31 **Issue:** 2 **Pages:** 313-320 **Published:** APR-JUN 2021

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### Record 77 of 1000

**Title:** Evaluating CO<sub>2</sub> capture performance by adsorption using synthesized and commercial activated carbon

**Author(s):** Danish, M (Danish, Mohd); Vijay, P (Vijay, P.); Almesfer, MK (Almesfer, Mohammed K.)

**Source:** SEPARATION SCIENCE AND TECHNOLOGY **Volume:** 57 **Issue:** 9 **Pages:** 1392-1407 **DOI:** 10.1080/01496395.2021.1986070 **Early Access Date:** OCT 2021 **Published:** JUN 13 2022

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### Record 78 of 1000

**Title:** A systematic study of novel drug delivery mechanisms and treatment strategies for pancreatic cancer

**Author(s):** Hani, U (Hani, Umme); Osmani, RAM (Osmani, Riyaz Ali M.); Siddiqua, A (Siddiqua, Ayesha); Wahab, S (Wahab, Shadma); Batool, S (Batool, Sadia); Ather, H (Ather, Hissana); Sheraba, N (Sheraba, Norhan); Alqahtani, A (Alqahtani, Ali)

**Source:** JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY **Volume:** 63 **Article Number:** 102539 **DOI:** 10.1016/j.jddst.2021.102539 **Early Access Date:** MAY 2021 **Published:** JUN 2021

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### Record 79 of 1000

**Title:** Oxygen vacancy-rich black TiO<sub>2</sub> nanoparticles as a highly efficient catalyst for Li-O<sub>2</sub> batteries

**Author(s):** Ge, JJ (Ge, Juanjuan); Du, GH (Du, Gaohui); Kalam, A (Kalam, Abul); Bi, X (Bi, Xiang); Ding, SK (Ding, Shukai); Su, QM (Su, Qingmei); Xu, BS (Xu, Bingshe); Al-Sehemi, AG (Al-Sehemi, Abdullah G.)

**Source:** CERAMICS INTERNATIONAL **Volume:** 47 **Issue:** 5 **Pages:** 6965-6971 **DOI:** 10.1016/j.ceramint.2020.11.045 **Early Access Date:** JAN 2021 **Published:** MAR 1 2021

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### Record 80 of 1000

**Title:** An indolinium-based chemo-dosimeter for highly selective dual-channel detection of cyanide ion: A combined experimental and theoretical investigations

**Author(s):** Shanmugapriya, R (Shanmugapriya, R.); Kumar, PS (Kumar, P. Saravana); Ponkarpagam, S (Ponkarpagam, S.); Nandhini, C (Nandhini, C.); Vennila, KN (Vennila, K. N.); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Pannipara, M (Pannipara, Mehboobali); Elango, KP (Elango, Kuppanagounder P.)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1251 **Article Number:** 132081 **DOI:** 10.1016/j.molstruc.2021.132081 **Early Access Date:** DEC 2021 **Published:** MAR 5 2022

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### Record 81 of 1000

**Title:** A combination of experimental and TD-DFT investigations on the fluorescent detection of sulfite and bisulfite ions in aqueous solution via nucleophilic addition reaction

**Author(s):** Nandhini, C (Nandhini, C.); Kumar, PS (Kumar, P. Saravana); Shanmugapriya, R (Shanmugapriya, R.); Vennila, KN (Vennila, K. N.); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Pannipara, M (Pannipara, Mehboobali); Elango, KP (Elango, Kuppanagounder P.)

**Source:** JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY **Volume:** 425 **Article Number:** 113668 **DOI:** 10.1016/j.jphotochem.2021.113668 **Early Access Date:** NOV 2021 **Published:** MAR 1 2022

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### Record 82 of 1000

**Title:** Design and fabrication of graphene anchored CeO<sub>2</sub> hybrid nanocomposite electrodes for high performance energy storage device applications

**Author(s):** Jayashree, M (Jayashree, M.); Sharmila, V (Sharmila, V.); Meganathan, KL (Meganathan, K. L.); BoopathiRaja, R (BoopathiRaja, R.); Parthibavarman, M (Parthibavarman, M.); Shkir, M (Shkir, Mohd.); AlFaify, S (AlFaify, S.)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 132 **Article Number:** 108838 **DOI:** 10.1016/j.inoche.2021.108838 **Early Access Date:** AUG 2021 **Published:** OCT 2021

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### Record 83 of 1000

**Title:** Constructing anatase TiO<sub>2</sub>/Amorphous Nb<sub>2</sub>O<sub>5</sub> heterostructures to enhance photocatalytic degradation of acetaminophen and nitrogen oxide

**Author(s):** Bi, X (Bi, Xiang); Du, GH (Du, Gaohui); Kalam, A (Kalam, Abul); Sun, DF (Sun, Dongfeng); Zhao, WQ (Zhao, Wenqi); Yu, Y (Yu, Yuan); Su, QM (Su, Qingmei); Xu, BS (Xu, Bingshe); Al-Sehemi, AG (Al-Sehemi, Abdullah G.)

**Source:** JOURNAL OF COLLOID AND INTERFACE SCIENCE **Volume:** 601 **Pages:** 346-354 **DOI:** 10.1016/j.jcis.2021.05.120 **Early Access Date:** JUN 2021 **Published:** NOV 2021

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### Record 84 of 1000

**Title:** Design, synthesis, molecular modeling, and antimicrobial potential of novel 3-[(1*H*-pyrazol-3-yl)imino]indolin-2-one derivatives as DNA gyrase inhibitors

**Author(s):** Alzahrani, AY (Alzahrani, Abdullah Y.); Ammar, YA (Ammar, Yousry A.); Salem, MA (Salem, Mohamed A.); Abu-Elghait, M (Abu-Elghait, Mohammed); Ragab, A (Ragab, Ahmed)

**Source:** ARCHIV DER PHARMAZIE **Volume:** 355 **Issue:** 1 **Article Number:** e2100266 **DOI:** 10.1002/ardp.202100266 **Early Access Date:** NOV 2021 **Published:** JAN 2022

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### Record 85 of 1000

**Title:** Li<sup>+</sup>-Zn<sup>2+</sup> tailored nanostructured metallohydrogel based mixed ionic-electronic conductors

**Author(s):** Kumar, Y (Kumar, Yeeshu); Mahendar, C (Mahendar, Chinthakuntla); Abul Kalam (Abul Kalam); Dubey, M (Dubey, Mrigendra)

**Source:** SUSTAINABLE ENERGY & FUELS **Volume:** 5 **Issue:** 6 **Pages:** 1708-1713 **DOI:** 10.1039/d0se01821j **Published:** MAR 21 2021

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### Record 86 of 1000

**Title:** Remarkable nonlinear optical response of M<sub>n</sub>@C<sub>20</sub> (M = Na & K and n=1-6); a DFT outcome

**Author(s):** Kosar, N (Kosar, Naveen); Tahir, H (Tahir, Hira); Ayub, K (Ayub, Khurshid); Gilani, MA (Gilani, Mazhar Amjad); Imran, M (Imran, Muhammad); Mahmood, T (Mahmood, Tariq)

**Source:** MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING **Volume:** 138 **Article Number:** 106269 **DOI:** 10.1016/j.mssp.2021.106269 **Early Access Date:** OCT 2021 **Published:** FEB 2022

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### Record 87 of 1000

**Title:** A convenient one-pot synthesis of novel functionalized thiophene, thieno[2,3-*b*] thiophene, thiopyran, and thiopyrano[2,3-*b*]thiopyran bearing phosphonate groups

**Author(s):** Ali, TE (Ali, Tarik E.); Assiri, MA (Assiri, Mohammed A.)

**Source:** JOURNAL OF SULFUR CHEMISTRY **Volume:** 42 **Issue:** 5 **Pages:** 490-498 **DOI:** 10.1080/17415993.2021.1909027 **Early Access Date:** APR 2021 **Published:** SEP 3 2021

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### Record 88 of 1000

**Title:** Facile synthesis of silver nanoparticles stabilized dual responsive silica nanohybrid: A highly active switchable catalyst for oxidation of alcohols in aqueous medium

**Author(s):** Mohan, A (Mohan, Anandhu); Peter, J (Peter, Jerome); Rout, L (Rout, Lipeeka); Thomas, AM (Thomas, Anju Maria); Nagappan, S (Nagappan, Saravanan); Parambadath, S (Parambadath, Surendran); Zhang, WJ (Zhang, Weijin); Selvaraj, M (Selvaraj, Manickam); Ha, CS (Ha, Chang-Sik)

**Source:** COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS **Volume:** 611 **Article Number:** 125846 **DOI:** 10.1016/j.colsurfa.2020.125846 **Published:** FEB 20 2021

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**Record 89 of 1000**

**Title:** Targeting renin receptor for the inhibition of renin angiotensin aldosterone system: An alternative approach through in silico drug discovery

**Author(s):** Loganathan, L (Loganathan, Lakshmanan); Kuriakose, BB (Kuriakose, Beena Briget); Sampayan, EL (Sampayan, Eva Lobelle); Muthusamy, K (Muthusamy, Karthikeyan)

**Source:** COMPUTATIONAL AND THEORETICAL CHEMISTRY **Volume:** 1208 **Article Number:** 113541 **DOI:** 10.1016/j.comptc.2021.113541 **Early Access Date:** DEC 2021 **Published:** FEB 2022

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**Record 90 of 1000**

**Title:** In-situ manipulation of gel layer fouling into gel layer membrane formation on porous supports for water treatment

**Author(s):** Sibte-Hassan, S (Sibte-Hassan, Syed); Hussain, D (Hussain, Dilshad); Mustafa, G (Mustafa, Ghulam); Siddiqui, GU (Siddiqui, Ghayas Uddin); Asiri, YI (Asiri, Yahya, I); Uddin, J (Uddin, Jalal); Musharraf, SG (Musharraf, Syed Ghulam)

**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 15 **Issue:** 2 **Article Number:** 103526 **DOI:** 10.1016/j.arabjc.2021.103526 **Early Access Date:** NOV 2021 **Published:** FEB 2022

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**Record 91 of 1000**

**Title:** Kinetics and mechanism of the one-step, two-electron oxidation of diaquadihydrochloro(1,10-phenanthroline)chromium(III) chloride dihydrate by periodate to chromium(V) in aqueous acidic solutions

**Author(s):** Eltahir, SB (Eltahir, Sawsan B.); Ali, IH (Ali, Ismat H.); Sulfab, Y (Sulfab, Yousif)

**Source:** INTERNATIONAL JOURNAL OF CHEMICAL KINETICS **Volume:** 53 **Issue:** 11 **Pages:** 1220-1227 **DOI:** 10.1002/kin.21527 **Early Access Date:** AUG 2021 **Published:** NOV 2021

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**Record 92 of 1000**

**Title:** Synthesis of Novel 4-(1,3,2-Diazaphosphinin-5-yl)-1,2-Dihydrothieno[3,2-*d*][1,2,3]Diazaphosphinines: Cyclization of 5-[(2-Thienyl)Methyl]Hydrazono-2-Oxido-2-Phenyl-4-(Trifluoromethyl)-1-*H*-1,3,2-Diazaphosphinine with Phosphorus Halides

**Author(s):** Ali, TE (Ali, Tarik E.); Assiri, MA (Assiri, Mohammed A.)

**Source:** POLYCYCLIC AROMATIC COMPOUNDS **Volume:** 42 **Issue:** 8 **Pages:** 5143-5151 **DOI:** 10.1080/10406638.2021.1925309 **Early Access Date:** MAY 2021 **Published:** SEP 14 2022

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**Record 93 of 1000**

**Title:** A data-based hybrid model for complex fuel chemistry acceleration at high temperatures

**Author(s):** Alqahtani, S (Alqahtani, Sultan); Echehki, T (Echehki, Tarek)

**Source:** COMBUSTION AND FLAME **Volume:** 223 **Pages:** 142-152 **DOI:** 10.1016/j.combustflame.2020.09.022 **Published:** JAN 2021

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**Record 94 of 1000**

**Title:** Bi<sub>2</sub>MoO<sub>6</sub> hierarchical microflowers for electrochemical oxygen evolution reaction

**Author(s):** Rani, BJ (Rani, B. Jansi); Yuvakkumar, R (Yuvakkumar, R.); Ravi, G (Ravi, G.); Pannipara, M (Pannipara, Mehboobali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Velauthapillai, D (Velauthapillai, Dhayalan)

**Source:** INTERNATIONAL JOURNAL OF HYDROGEN ENERGY **Volume:** 46 **Issue:** 36 **Pages:** 18719-18728 **DOI:** 10.1016/j.ijhydene.2021.03.027 **Early Access Date:** MAY 2021 **Published:** MAY 25 2021

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**Record 95 of 1000**

**Title:** Synthesis and optimization of hydrotalcite derived Ni-Fe-Cu based catalysts for catalytic methane decomposition process using the design of experiment approach

**Author(s):** Al Mesfer, MK (Al Mesfer, Mohammed K.); Danish, M (Danish, Mohd); Shah, M (Shah, Mumtaj)

**Source:** JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS **Volume:** 128 **Pages:** 370-379 **DOI:** 10.1016/j.jtice.2021.08.045 **Early Access Date:** OCT 2021 **Published:** NOV 2021

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**Record 96 of 1000**

**Title:** Design and fabrication of Cu<sub>2</sub>P<sub>2</sub>O<sub>7</sub>@Ppy electrode for extraordinary capacitance and long-term stability for ideal asymmetric supercapacitor application

**Author(s):** Meganathan, KL (Meganathan, K. L.); BoopathiRaja, R (BoopathiRaja, R.); Parthibavarman, M (Parthibavarman, M.); Sharmila, V (Sharmila, V); Shkir, M (Shkir, Mohd); Gaikwad, SA (Gaikwad, Sucheta Abhey); Praveenkumar, M (Praveenkumar, M.)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 32 **Issue:** 20 **Pages:** 24736-24747 **DOI:** 10.1007/s10854-021-06905-3 **Early Access Date:** SEP 2021 **Published:** OCT 2021

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**Record 97 of 1000**

**Title:** Conductive Zn(ii)-metallohydrogels: the role of alkali metal cation size in gelation, rheology and conductance

**Author(s):** Mahendar, C (Mahendar, Chinthakuntla); Kumar, Y (Kumar, Yeeshu); Dixit, MK (Dixit, Manish Kumar); Mukherjee, M (Mukherjee, Moupia); Kalam, A (Kalam, Abul); Dubey, M (Dubey, Mrigendra)

**Source:** MOLECULAR SYSTEMS DESIGN & ENGINEERING **Volume:** 6 **Issue:** 8 **Pages:** 654-661 **DOI:** 10.1039/d1me00042j **Early Access Date:** JUN 2021 **Published:** AUG 1 2021

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**Record 98 of 1000**

**Title:** CuCoO<sub>2</sub> electrodes for supercapacitor applications

**Author(s):** Isacfranklin, M (Isacfranklin, M.); Yuvakkumar, R (Yuvakkumar, R.); Ravi, G (Ravi, G.); Pannipara, M (Pannipara, Mehboobali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); DhayalanVelauthapillai (DhayalanVelauthapillai)

**Source:** MATERIALS LETTERS **Volume:** 296 **Article Number:** 129930 **DOI:** 10.1016/j.matlet.2021.129930 **Early Access Date:** APR 2021 **Published:** AUG 1 2021

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**Record 99 of 1000**

**Title:** A Novel Hybrid Model for Developing Groundwater Potentiality Model Using High Resolution Digital Elevation Model (DEM) Derived Factors

**Author(s):** Mallick, J (Mallick, Javed); Talukdar, S (Talukdar, Swapan); Kahla, NB (Kahla, Nabil Ben); Ahmed, M (Ahmed, Mohd.); Alsubih, M (Alsubih, Majed); Almesfer, MK (Almesfer, Mohammed K.); Islam, AMT (Islam, Abu Reza Md. Towfiqul)

**Source:** WATER **Volume:** 13 **Issue:** 19 **Article Number:** 2632 **DOI:** 10.3390/w13192632 **Published:** OCT 2021

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**Record 100 of 1000**

**Title:** Cacodylate Sensors and their Application in the Determination of Amino Acid Levels in Biological Samples

**Author(s):** Abd-Rabboh, HSM (Abd-Rabboh, Hisham S. M.); Kamel, AH (Kamel, Ayman H.); Alshehri, FHA (Alshehri, Fuziah H. A.)

**Source:** JOURNAL OF AOAC INTERNATIONAL **Volume:** 104 **Issue:** 1 **Pages:** 113-121 **DOI:** 10.1093/jaoacint/qsaa098 **Published:** JAN-FEB 2021

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**Record 101 of 1000**

**Title:** SYNTHESIS AND CYTOTOXICITY PROPERTIES OF SOME NOVEL FUNCTIONALIZED 2-{2-[(4-OXO-4*H*-CHROMEN-3-YL)-METHYLENE]-HYDRAZINYL}-1,3-SELENAZOLES

**Author(s):** Ali, TE (Ali, Tarik E.); Assiri, MA (Assiri, Mohammed A.); Aboelwafa, HR (Aboelwafa, Hanaa R.)

**Source:** HETEROCYCLES **Volume:** 102 **Issue:** 5 **Pages:** 920-929 **DOI:** 10.3987/COM-21-14424 **Published:** 2021

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**Record 102 of 1000**

**Title:** Synthesis, antioxidant, *in silico* and computational investigation of 2,5-dihydroxyacetophenone derived chloro-substituted hydroxychalcones, hydroxyflavanones and hydroxyflavindogenides

**Author(s):** Siddiqa, A (Siddiqa, Aysha); Tajammal, A (Tajammal, Affifa); Irfan, A (Irfan, Ahmad); Munawar, MA (Munawar, Munawar Ali); Azam, M (Azam, Muhammad); Basra, MAR (Basra, Muhammad Asim Raza)

**Source:** JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS **DOI:** 10.1080/07391102.2021.1943527 **Early Access Date:** JUN 2021

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#### **Record 103 of 1000**

**Title:** One-pot synthesis and antimicrobial of novel 6-ethoxy-6-oxido-3-oxo(thioxo) (imino)-5-substituted-2,7-dihydro-1,2,4-triazolo[3,4-*e*][1,2,3]diazaphospholes

**Author(s):** Ali, TE (Ali, Tarik E.); Assiri, MA (Assiri, Mohammed A.)

**Source:** PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS **Volume:** 196 **Issue:** 11 **Pages:** 965-969 **DOI:** 10.1080/10426507.2021.1946538 **Early Access Date:** JUN 2021 **Published:** NOV 2 2021

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#### **Record 104 of 1000**

**Title:** Optimization of fluoride adsorption from aqueous solution over mesoporous titania-alumina composites using Taguchi method

**Author(s):** Al Mesfer, MK (Al Mesfer, Mohammed K.); Danish, M (Danish, Mohd); Shah, M (Shah, Mumtaj)

**Source:** WATER ENVIRONMENT RESEARCH **Volume:** 94 **Issue:** 1 **Article Number:** e1663 **DOI:** 10.1002/wer.1663 **Early Access Date:** DEC 2021 **Published:** JAN 2022

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#### **Record 105 of 1000**

**Title:** Synthesis, evaluation, and kinetic assessment of Co-based catalyst for enhanced methane decomposition reaction for hydrogen production

**Author(s):** Al Mesfer, MK (Al Mesfer, Mohammed K.); Danish, M (Danish, Mohd); Shah, M (Shah, Mumtaj)

**Source:** INTERNATIONAL JOURNAL OF CHEMICAL KINETICS **Volume:** 54 **Issue:** 2 **Pages:** 90-103 **DOI:** 10.1002/kin.21544 **Early Access Date:** OCT 2021 **Published:** FEB 2022

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#### **Record 106 of 1000**

**Title:** Cobalt Vanadium Oxide Nanoclusters for Oxygen Evolution Reaction

**Author(s):** Keerthana, S (Keerthana, SP.); Yuvakkumar, R (Yuvakkumar, R.); Ravi, G (Ravi, G.); Pannipara, M (Pannipara, Mehboobali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Velauthapillai, D (Velauthapillai, Dhayalan)

**Source:** ECS JOURNAL OF SOLID STATE SCIENCE AND TECHNOLOGY **Volume:** 10 **Issue:** 7 **Article Number:** 071003 **DOI:** 10.1149/2162-8777/ac0e0f **Published:** JUL 1 2021

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#### **Record 107 of 1000**

**Title:** CELLULOSE ACETATE BUTYRATE GRAPHENE OXIDE NANOCOMPOSITE MEMBRANE: FABRICATION, CHARACTERIZATION AND PERFORMANCE

**Author(s):** Alghamdi, MM (Alghamdi, Majed M.); El-Zahhar, AA (El-Zahhar, Adel A.)

**Source:** CHEMICAL INDUSTRY & CHEMICAL ENGINEERING QUARTERLY **Volume:** 27 **Issue:** 1 **Pages:** 35-44 **DOI:** 10.2298/CICEQ200128022A **Published:** JAN-MAR 2021

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#### **Record 108 of 1000**

**Title:** Hydrothermal synthesis of Cu<sub>2</sub>Se-CoSe nanograin for electrochemical supercapacitor applications

**Author(s):** Vidhya, MS (Vidhya, M. Sangeetha); Yuvakkumar, R (Yuvakkumar, R.); Ravi, G (Ravi, G.); Pannipara, M (Pannipara, Mehboobali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Velauthapillai, D (Velauthapillai, Dhayalan)

**Source:** APPLIED NANOSCIENCE **Volume:** 11 **Issue:** 6 **Pages:** 1881-1888 **DOI:** 10.1007/s13204-021-01890-9 **Early Access Date:** MAY 2021 **Published:** JUN 2021

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#### **Record 109 of 1000**



**Title:** Application of Hantzsch reaction for sensitive determination of eflornithine in cream, plasma and urine samples

**Author(s):** Almahri, A (Almahri, Albandary); Abdel-Lateef, MA (Abdel-Lateef, Mohamed A.)

**Source:** ROYAL SOCIETY OPEN SCIENCE **Volume:** 8 **Issue:** 5 **Article Number:** 210366 **DOI:** 10.1098/rsos.210366 **Published:** MAY 12 2021

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#### **Record 110 of 1000**

**Title:** Micellar sensitized Resonance Rayleigh Scattering and spectrofluorometric methods based on isoindole formation for determination of Eflornithine in cream and biological samples

**Author(s):** Abdel-Lateef, MA (Abdel-Lateef, Mohamed A.); Almahri, A (Almahri, Albandary)

**Source:** SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY **Volume:** 258 **Article Number:** 119806 **DOI:** 10.1016/j.saa.2021.119806 **Early Access Date:** APR 2021 **Published:** SEP 5 2021

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#### **Record 111 of 1000**

**Title:** Molecular docking and anticancer activity determination of 5,10-dihydro-7,8-dimethyl alloxazine derived from lumichrome of riboflavin

**Author(s):** Etu, SF (Etu, Shafia Farhana); Hossain, MA (Hossain, M. Alamgir); Rouf, AS (Rouf, Abu Shara Shamsur); Alqahtani, A (Alqahtani, Ali); Qais, N (Qais, Nazmul)

**Source:** MAIN GROUP CHEMISTRY **Volume:** 20 **Issue:** 1 **Pages:** 81-88 **DOI:** 10.3233/MGC-210025 **Published:** 2021

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#### **Record 112 of 1000**

**Title:** First example of lanthanum as dopant on Al12N12 and Al12P12 nanocages for improved electronic and nonlinear optical properties with high stability

**Author(s):** Khaliq, F (Khaliq, Faiqa); Ayub, K (Ayub, Khurshid); Mahmood, T (Mahmood, Tariq); Muhammad, S (Muhammad, Shabbir); Tabassum, S (Tabassum, Sobia); Gilani, MA (Gilani, Mazhar Amjad)

**Source:** MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING **Volume:** 135 **Article Number:** 106122 **DOI:** 10.1016/j.mssp.2021.106122 **Early Access Date:** JUL 2021 **Published:** NOV 15 2021

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#### **Record 113 of 1000**

**Title:** Green Synthesis of Metal and Metal Oxide Nanoparticles Using Different Plants' Parts for Antimicrobial Activity and Anticancer Activity: A Review Article

**Author(s):** Bukhari, A (Bukhari, Aysha); Ijaz, I (Ijaz, Irfan); Gilani, E (Gilani, Ezaz); Nazir, A (Nazir, Ammara); Zain, H (Zain, Hina); Saeed, R (Saeed, Ramsha); Alarfaji, SS (Alarfaji, Saleh S.); Hussain, S (Hussain, Sajjad); Aftab, R (Aftab, Rizwana); Naseer, Y (Naseer, Yasra)

**Source:** COATINGS **Volume:** 11 **Issue:** 11 **Article Number:** 1374 **DOI:** 10.3390/coatings11111374 **Published:** NOV 2021

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#### **Record 114 of 1000**

**Title:** Synthesis of pure and lanthanum-doped barium ferrite nanoparticles for efficient removal of toxic pollutants

**Author(s):** Keerthana, SP (Keerthana, SP.); Yuvakkumar, R (Yuvakkumar, R.); Ravi, G (Ravi, G.); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Velauthapillai, D (Velauthapillai, Dhayalan)

**Source:** JOURNAL OF HAZARDOUS MATERIALS **Volume:** 424 **Article Number:** 127604 **DOI:** 10.1016/j.jhazmat.2021.127604 **Early Access Date:** NOV 2021 **Part:** C **Published:** FEB 15 2022

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#### **Record 115 of 1000**

**Title:** Applying different spectroscopic techniques for the selective determination of daclatasvir using merbromin as a probe: Applications on pharmaceutical analysis

**Author(s):** Almahri, A (Almahri, Albandary); Abdel-Lateef, MA (Abdel-Lateef, Mohamed A.)

**Source:** LUMINESCENCE **Volume:** 36 **Issue:** 6 **Pages:** 1544-1552 **DOI:** 10.1002/bio.4099 **Early Access Date:** JUN 2021 **Published:** SEP 2021

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### Record 116 of 1000

**Title:** Conductive Polymers and Their Nanocomposites as Adsorbents in Environmental Applications

**Author(s):** Khan, MI (Khan, Mohammad Ilyas); Almesfer, MK (Almesfer, Mohammed Khaloufa); Elkhaleefa, A (Elkhaleefa, Abubakr); Shigidi, I (Shigidi, Ihab); Shamim, MZ (Shamim, Mohammed Zubair); Ali, IH (Ali, Ismat H.); Rehan, M (Rehan, Mohammad)

**Source:** POLYMERS **Volume:** 13 **Issue:** 21 **Article Number:** 3810 **DOI:** 10.3390/polym13213810 **Published:** NOV 2021

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### Record 117 of 1000

**Title:** Tuning of a A-A-D-A-A-Type Small Molecule with Benzodithiophene as a Central Core with Efficient Photovoltaic Properties for Organic Solar Cells

**Author(s):** Azeem, U (Azeem, Urwah); Khera, RA (Khera, Rasheed Ahmad); Naveed, A (Naveed, Ayesha); Imran, M (Imran, Muhammad); Assiri, MA (Assiri, Mohammed A.); Khalid, M (Khalid, Muhammad); Iqbal, J (Iqbal, Jammed)

**Source:** ACS OMEGA **Volume:** 6 **Issue:** 43 **Pages:** 28923-28935 **DOI:** 10.1021/acsomega.1c03975 **Early Access Date:** OCT 2021 **Published:** NOV 2 2021

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### Record 118 of 1000

**Title:** *In silico* drug designing for the identification of promising antagonist hit molecules against bradykinin receptor

**Author(s):** Selvaraj, M (Selvaraj, Manikandan); Loganathan, L (Loganathan, Lakshmanan); Thirumalaisamy, PK (Thirumalaisamy, Praveen Kumar); Kuriakose, BB (Kuriakose, Beena Briget); Sampayan, EL (Sampayan, Eva Lobelle); Muthusamy, K (Muthusamy, Karthikeyan)

**Source:** COMPUTATIONAL AND THEORETICAL CHEMISTRY **Volume:** 1202 **Article Number:** 113334 **DOI:** 10.1016/j.comptc.2021.113334 **Early Access Date:** JUN 2021 **Published:** AUG 2021

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### Record 119 of 1000

**Title:** Development of QuEChERS extraction method for the determination of pesticide residues in cereals using DART-ToF-MS and GC-MS techniques. Correlation and quantification study

**Author(s):** Hakami, RA (Hakami, Rabab A.); Aqel, A (Aqel, Ahmad); Ghfar, AA (Ghfar, Ayman A.); ALOthman, ZA (ALothman, Zeid A.); Badjah-Hadj-Ahmed, AY (Badjah-Hadj-Ahmed, Ahmed-Yacine)

**Source:** JOURNAL OF FOOD COMPOSITION AND ANALYSIS **Volume:** 98 **Article Number:** 103822 **DOI:** 10.1016/j.jfca.2021.103822 **Early Access Date:** FEB 2021 **Published:** MAY 2021

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### Record 120 of 1000

**Title:** Identification of rainfall homogenous regions in Saudi Arabia for experimenting and improving trend detection techniques

**Author(s):** Mallick, J (Mallick, Javed); Talukdar, S (Talukdar, Swapan); Almesfer, MK (Almesfer, Mohammed K.); Alsubih, M (Alsubih, Majed); Ahmed, M (Ahmed, Mohd); Islam, AMT (Islam, Abu Reza Md Towfiqul)

**Source:** ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH **Volume:** 29 **Issue:** 17 **Pages:** 25112-25137 **DOI:** 10.1007/s11356-021-17609-w **Early Access Date:** NOV 2021 **Published:** APR 2022

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### Record 121 of 1000

**Title:** High performance of homo-metallic tetracyanonickelate based coordination polymer towards water oxidation electrocatalysis

**Author(s):** Ibrahim, S (Ibrahim, Shaista); Rafique, U (Rafique, Uzaira); Saleem, M (Saleem, Mohsin); Iqbal, W (Iqbal, Waheed); Abbas, S (Abbas, Saghir); Shah, WA (Shah, Waqas Ali); Imran, M (Imran, Muhammad); Nadeem, MA (Nadeem, Muhammad Arif)

**Source:** INORGANICA CHIMICA ACTA **Volume:** 526 **Article Number:** 120510 **DOI:** 10.1016/j.ica.2021.120510 **Early Access Date:** JUL 2021 **Published:** OCT 1 2021

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### Record 122 of 1000

**Title:** Superior supercapacitive performance of Cu<sub>2</sub>MnSnS<sub>4</sub> asymmetric devices

**Author(s):** Isacfranklin, M (Isacfranklin, M.); Yuvakkumar, R (Yuvakkumar, R.); Ravi, G (Ravi, G.); Velauthapillai, D (Velauthapillai, Dhayalan); Pannipara, M (Pannipara, Mehboobali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.)

**Source:** NANOSCALE ADVANCES **Volume:** 3 **Issue:** 2 **Pages:** 486-498 **DOI:** 10.1039/d0na00775g **Published:** JAN 21 2021

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#### **Record 123 of 1000**

**Title:** Spectrofluorimetric determination of  $\alpha$ -difluoromethylornithine through condensation with ninhydrin and phenylacetaldehyde: application to pharmaceutical cream and spiked urine samples

**Author(s):** Abdel-Lateef, MA (Abdel-Lateef, Mohamed A.); Almahri, A (Almahri, Albandary)

**Source:** CHEMICAL PAPERS **Volume:** 76 **Issue:** 2 **Pages:** 741-748 **DOI:** 10.1007/s11696-021-01894-3 **Early Access Date:** SEP 2021 **Published:** FEB 2022

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#### **Record 124 of 1000**

**Title:** 16 $\alpha$ -hydroxyestrone and its receptor complex: high affinity antigen for antibodies from prostate cancer patients

**Author(s):** Khan, WA (Khan, Wahid Ali); Khan, MWA (Khan, Mohd. Wajid Ali)

**Source:** JOURNAL OF MENS HEALTH **Volume:** 17 **Issue:** 4 **Pages:** 117-127 **DOI:** 10.31083/jomh.2021.103 **Early Access Date:** AUG 2021 **Published:** SEP 2021

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#### **Record 125 of 1000**

**Title:** An approach to enhance the photocatalytic activity of ZnTiO<sub>3</sub>

**Author(s):** Abirami, R (Abirami, R.); Senthil, TS (Senthil, T. S.); Keerthana, SP (Keerthana, SP.); Yuvakkumar, R (Yuvakkumar, R.); Ravi, G (Ravi, G.); Pannipara, M (Pannipara, Mehboobali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.)

**Source:** CERAMICS INTERNATIONAL **Volume:** 47 **Issue:** 13 **Pages:** 18122-18131 **DOI:** 10.1016/j.ceramint.2021.03.130 **Early Access Date:** MAY 2021 **Published:** JUL 1 2021

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#### **Record 126 of 1000**

**Title:** Fabricating highly efficient Ag<sub>3</sub>PO<sub>4</sub>-Fe<sub>3</sub>O<sub>4</sub>-GO ternary nanocomposite photocatalyst: Effect of Fe<sub>3</sub>O<sub>4</sub>-GO preparation methods on photocatalytic activity

**Author(s):** Muthukumar, P (Muthukumar, Pandi); Alex, V (Alex, Vinotha); Pannipara, M (Pannipara, Mehboobali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Anthony, SP (Anthony, Savarimuthu Philip)

**Source:** MATERIALS RESEARCH BULLETIN **Volume:** 141 **Article Number:** 111337 **DOI:** 10.1016/j.materresbull.2021.111337 **Early Access Date:** APR 2021 **Published:** SEP 2021

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#### **Record 127 of 1000**

**Title:** Significance of Bed Shrinkage on Heat and Mass Transfer During the Transport Phenomenon of Humid Air

**Author(s):** Kraiem, A (Kraiem, Amal); Madiouli, J (Madiouli, Jamel); Sghaier, J (Sghaier, Jalila); Shigidi, I (Shigidi, Ihab)

**Source:** ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING **Volume:** 46 **Issue:** 6 **Pages:** 6085-6099 **DOI:** 10.1007/s13369-021-05444-7 **Early Access Date:** FEB 2021 **Published:** JUN 2021

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#### **Record 128 of 1000**

**Title:** Sustainable synthesis of silver decorated graphene nanocomposite with potential antioxidant and antibacterial properties

**Author(s):** Kurmarayuni, CM (Kurmarayuni, Chandra Mohan); Chandu, B (Chandu, Basavaiah); Yangalasetty, LP (Yangalasetty, Lakshmi Prasanna); Gali, SJ (Gali, Siva Jyothsna); Alam, MM (Alam, M. Mujahid); Rani, PNVVLP (Rani, P. N. V. V. L. Pramila); Bollikolla, HB (Bollikolla, Hari Babu)

**Source:** MATERIALS LETTERS **Volume:** 308 **Article Number:** 131116 **DOI:** 10.1016/j.matlet.2021.131116 **Early Access Date:** OCT 2021 **Part:** A **Published:** FEB 1 2022

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### Record 129 of 1000

**Title:** Influence of crystal size on structural, magnetic, mechanical, and dielectric properties of Ni-Cu-Zn nanoferrites

**Author(s):** Awati, VV (Awati, V. V.); Pawar, RA (Pawar, R. A.); Rathod, SM (Rathod, S. M.); Jadhav, SS (Jadhav, Santosh S.); Pannipara, M (Pannipara, Mehboobali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 32 **Issue:** 14 **Pages:** 19786-19797 **DOI:** 10.1007/s10854-021-06503-3 **Early Access Date:** JUL 2021 **Published:** JUL 2021

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### Record 130 of 1000

**Title:** PVP-assisted grass-like NiSe@ZnSe composite for environmental energy applications

**Author(s):** Vidhya, MS (Vidhya, M. Sangeetha); Yuvakkumar, R (Yuvakkumar, R.); Ravi, G (Ravi, G.); Pannipara, M (Pannipara, Mehboobali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Velauthapillai, D (Velauthapillai, Dhayalan)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 33 **Issue:** 11 **Special Issue:** SI **Pages:** 8409-8416 **DOI:** 10.1007/s10854-021-06304-8 **Early Access Date:** JUN 2021 **Published:** APR 2022

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### Record 131 of 1000

**Title:** Recent advances in excited state intramolecular proton transfer mechanism-based solid state fluorescent materials and stimuli-responsive fluorescence switching

**Author(s):** Gayathri, P (Gayathri, Parthasarathy); Pannipara, M (Pannipara, Mehboobali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Anthony, SP (Anthony, Savarimuthu Philip)

**Source:** CRYSTENGCOMM **Volume:** 23 **Issue:** 21 **Pages:** 3771-3789 **DOI:** 10.1039/d1ce00317h **Early Access Date:** APR 2021 **Published:** JUN 7 2021

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### Record 132 of 1000

**Title:** Experimental and theoretical electronic absorption spectra, optical, photoelectrical characterizations of 1, 2, 3-Thiazaphosphinine and 1, 2-Azaphospholes bearing a chromone ring: Solvatochromic effect and TD/DFT approach

**Author(s):** Hussien, SAH (Hussien, Shima Abdel Halim); Ali, TE (Ali, Tarik E.)

**Source:** INTERNATIONAL JOURNAL OF NANO DIMENSION **Volume:** 12 **Issue:** 3 **Pages:** 222-238 **Published:** SUM 2021

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### Record 133 of 1000

**Title:** Emerging variants of concern in Saudi Arabian SARS-CoV-2 isolates

**Author(s):** Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Khan, MT (Khan, Muhammad T.); Muhammad, S (Muhammad, Shabbir)

**Source:** SAUDI MEDICAL JOURNAL **Volume:** 42 **Issue:** 12 **Pages:** 1366-1368 **DOI:** 10.15537/smj.2021.42.12.20210630 **Published:** DEC 2021

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### Record 134 of 1000

**Title:** Computational study of chemical reaction and activation energy on the flow of Fe<sub>3</sub>O<sub>4</sub>-Go/water over a moving thin needle: Theoretical aspects

**Author(s):** Madhukesh, JK (Madhukesh, J. K.); Ramesh, GK (Ramesh, G. K.); Kumar, RSV (Kumar, R. S. Varun); Prasannakumara, BC (Prasannakumara, B. C.); Alaoui, MK (Alaoui, M. Kbiri)

**Source:** COMPUTATIONAL AND THEORETICAL CHEMISTRY **Volume:** 1202 **Article Number:** 113306 **DOI:** 10.1016/j.comptc.2021.113306 **Early Access Date:** JUN 2021 **Published:** AUG 2021

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### Record 135 of 1000

**Title:** Novel strontium vanadate nanostructures for hydrogen evolution reaction activity

**Author(s):** Swathi, S (Swathi, S.); Yuvakkumar, R (Yuvakkumar, R.); Ravi, G (Ravi, G.); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Velauthapillai, D (Velauthapillai, Dhayalan)

**Source:** MATERIALS LETTERS **Volume:** 309 **Article Number:** 131426 **DOI:** 10.1016/j.matlet.2021.131426 **Early Access Date:** DEC 2021 **Published:** FEB 15 2022

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#### **Record 136 of 1000**

**Title:** Piezo-photocatalytic activity of mechanochemically synthesized BiVO<sub>4</sub> for dye cleaning

**Author(s):** Kumar, M (Kumar, Manish); Vaish, R (Vaish, Rahul); ben Ahmed, S (ben Ahmed, Samia)

**Source:** JOURNAL OF THE AMERICAN CERAMIC SOCIETY **Volume:** 105 **Issue:** 3 **Special Issue:** SI **Pages:** 2309-2322 **DOI:** 10.1111/jace.18233 **Early Access Date:** NOV 2021 **Published:** MAR 2022

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#### **Record 137 of 1000**

**Title:** Nickel containing polyoxometalates incorporated in two different metal-organic frameworks for hydrogen evolution reaction

**Author(s):** Shah, WA (Shah, Waqas Ali); Ibrahim, S (Ibrahim, Shaista); Abbas, S (Abbas, Saghir); Naureen, L (Naureen, Laila); Batool, M (Batool, Mariam); Imran, M (Imran, Muhammad); Nadeem, MA (Nadeem, Muhammad Arif)

**Source:** JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING **Volume:** 9 **Issue:** 5 **Article Number:** 106004 **DOI:** 10.1016/j.jece.2021.106004 **Early Access Date:** JUL 2021 **Published:** OCT 2021

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#### **Record 138 of 1000**

**Title:** Contamination and human health risk assessment of heavy metals in soil of a municipal solid waste dumpsite in Khamees-Mushait, Saudi Arabia

**Author(s):** Ali, IH (Ali, Ismat H.); Siddeeg, SM (Siddeeg, Saifeldin M.); Idris, AM (Idris, Abubakr M.); Brima, EI (Brima, Eid I.); Ibrahim, KA (Ibrahim, Khalid A.); Ebraheem, SAM (Ebraheem, Sara A. M.); Arshad, M (Arshad, Muhammad)

**Source:** TOXIN REVIEWS **Volume:** 40 **Issue:** 1 **Pages:** 102-115 **DOI:** 10.1080/15569543.2018.1564144 **Published:** JAN 2 2021

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#### **Record 139 of 1000**

**Title:** Biological and phytochemical investigations of crude extracts of *Astragalus creticus*

**Author(s):** Ghaffari, MA (Ghaffari, Muhammad Abuzar); Chaudhry, BA (Chaudhry, Bashir Ahmad); Uzair, M (Uzair, Muhammad); Imran, M (Imran, Muhammad); Haneef, M (Haneef, Muhammad); Ashfaq, K (Ashfaq, Khuram)

**Source:** PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES **Volume:** 34 **Issue:** 1 **Special Issue:** SI **Pages:** 403-409 **DOI:** 10.36721/PJPS.2021.34.1.SP.403-409.1 **Published:** JAN 2021

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#### **Record 140 of 1000**

**Title:** Some New Amino Acid-Sulfanilamide Conjugates as Potential Antimicrobial Agents: Synthesis, Characterization, and Molecular Docking Studies

**Author(s):** Kamal, M (Kamal, Mehnaz); Riadi, Y (Riadi, Yassine); Moglad, EH (Moglad, Ehssan H.); Hassan, MZ (Hassan, Mohd Zaheen); Jawaid, T (Jawaid, Talha)

**Source:** LATIN AMERICAN JOURNAL OF PHARMACY **Volume:** 40 **Issue:** 8 **Pages:** 1954-1959 **Published:** 2021

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#### **Record 141 of 1000**

**Title:** Diazenylschiff's bases of salicylaldehydes: Synthesis and antimicrobial evaluation of 5-(aryldiazo) salicylaldimines

**Author(s):** Salem, MA (Salem, Mohamed A.); Abbas, SY (Abbas, Samir Y.); Helal, MH (Helal, Mohamed H.); Alzahrani, AY (Alzahrani, Abdullah Y.)

**Source:** SYNTHETIC COMMUNICATIONS **Volume:** 51 **Issue:** 19 **Pages:** 2984-2990 **DOI:** 10.1080/00397911.2021.1958230 **Early Access Date:** AUG 2021 **Published:** OCT 2 2021

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#### **Record 142 of 1000**

**Title:** ZIF-12/Fe-Cu LDH Composite as a High Performance Electrocatalyst for Water Oxidation

**Author(s):** Hameed, A (Hameed, Arslan); Batool, M (Batool, Mariam); Iqbal, W (Iqbal, Waheed); Abbas, S (Abbas, Saghir); Imran, M (Imran, Muhammad); Khan, IA (Khan, Inayat Ali); Nadeem, MA (Nadeem, Muhammad Arif)

**Source:** FRONTIERS IN CHEMISTRY **Volume:** 9 **Article Number:** 686968 **DOI:** 10.3389/fchem.2021.686968 **Published:** JUN 24 2021

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#### **Record 143 of 1000**

**Title:** Chemically Homann stagnation point flow of Carreau fluid (vol 551, 124066, 2020)

**Author(s):** Khan, M (Khan, Mair); El Shafey, AM (El Shafey, A. M.); Salahuddin, T (Salahuddin, T.); Khan, F (Khan, Farzana)

**Source:** PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS **Volume:** 573 **Article Number:** 125906 **DOI:** 10.1016/j.physa.2021.125906 **Early Access Date:** MAR 2021 **Published:** JUL 1 2021

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#### **Record 144 of 1000**

**Title:** Facile synthesis of quantum dots metal oxide for photocatalytic degradation of organic hazardous materials and factory effluents

**Author(s):** Mohamed, WAA (Mohamed, Walied A. A.); Abd El-Gawad, HH (Abd El-Gawad, Hala H.); Mekkey, SD (Mekkey, Saleh D.); Galal, HR (Galal, Hoda R.); Labib, AA (Labib, Ammar A.)

**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 15 **Issue:** 2 **Article Number:** 103593 **DOI:** 10.1016/j.arabjc.2021.103593 **Early Access Date:** DEC 2021 **Published:** FEB 2022

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#### **Record 145 of 1000**

**Title:** Exploring the charge injection aptitude in pyrazol and oxazole derivatives by the first-principles approach

**Author(s):** Irfan, A (Irfan, Ahmad); Imran, M (Imran, Muhammad); Thomas, R (Thomas, Renjith); Basra, MAR (Basra, Muhammad Asim Raza); Ullah, S (Ullah, Sami); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Assiri, MA (Assiri, Mohammed A.)

**Source:** ZEITSCHRIFT FUR PHYSIKALISCHE CHEMIE-INTERNATIONAL JOURNAL OF RESEARCH IN PHYSICAL CHEMISTRY & CHEMICAL PHYSICS **Volume:** 236 **Issue:** 2 **Pages:** 239-255 **DOI:** 10.1515/zpch-2020-1705 **Early Access Date:** AUG 2021 **Published:** FEB 23 2022

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#### **Record 146 of 1000**

**Title:** New Sustainable Ionic Polysaccharides Fibers Assist Calcium Phosphate Mineralization as Efficient Adsorbents

**Author(s):** Salama, A (Salama, Ahmed); Abouzeid, RE (Abouzeid, Ragab E.); Awwad, NS (Awwad, Nasser S.); Ibrahim, HA (Ibrahim, Hala A.)

**Source:** FIBERS AND POLYMERS **Volume:** 22 **Issue:** 6 **Pages:** 1526-1534 **DOI:** 10.1007/s12221-021-0757-8 **Early Access Date:** MAR 2021 **Published:** JUN 2021

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#### **Record 147 of 1000**

**Title:** Multifunctional Magnetic Nanomedicine Drug Delivery and Imaging-Based Diagnostic Systems

**Author(s):** Aslam, H (Aslam, Hira); Shukrullah, S (Shukrullah, Shazia); Naz, MY (Naz, Muhammad Yasin); Fatima, H (Fatima, Hareem); Ullah, S (Ullah, Sami); Al-Sehemi, AG (Al-Sehemi, Abdullah G.)

**Source:** PARTICLE & PARTICLE SYSTEMS CHARACTERIZATION **Volume:** 38 **Issue:** 12 **Article Number:** 2100179 **DOI:** 10.1002/ppsc.202100179 **Early Access Date:** NOV 2021 **Published:** DEC 2021

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#### **Record 148 of 1000**

**Title:** Integration of statistical models and ensemble machine learning algorithms (MLAs) for developing the novel hybrid groundwater potentiality models: a case study of semi-arid watershed in Saudi Arabia

**Author(s):** Mallick, J (Mallick, Javed); Talukdar, S (Talukdar, Swapan); Alsubih, M (Alsubih, Majed); Almesfer, MK (Almesfer, Mohammed K.); Shahfahad (Shahfahad); Hang, HT (Hang, Hoang Thi); Rahman, A (Rahman, Atiqur)

**Source:** GEOCATO INTERNATIONAL **Volume:** 37 **Issue:** 22 **Pages:** 6442-6473 **DOI:** 10.1080/10106049.2021.1939439 **Early Access Date:** JUN 2021 **Published:** SEP 16 2022

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**Record 149 of 1000**

**Title:** Theoretical investigation of halides encapsulated Na@B 40 nanocages for potential applications as anodes for sodium ion batteries

**Author(s):** Kosar, N (Kosar, Naveen); Ullah, F (Ullah, Faizan); Ayub, K (Ayub, Khurshid); Rashid, U (Rashid, Umer); Imran, M (Imran, Muhammad); Ahmed, MN (Ahmed, Muhammad Naeem); Mahmood, T (Mahmood, Tariq)

**Source:** MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING **Volume:** 121 **Article Number:** 105437 **DOI:** 10.1016/j.mssp.2020.105437 **Published:** JAN 2021

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**Record 150 of 1000**

**Title:** A facile synthesis and structural elucidation for furfural based chromophores: Prediction of linear and nonlinear optical properties

**Author(s):** Jawaria, R (Jawaria, Rifat); Khalid, M (Khalid, Muhammad); Khan, J (Khan, Jallat); Khan, MU (Khan, Muhammad Usman); Braga, AAC (Carmo Braga, Atualpa Albert); Zahoor, S (Zahoor, Sidra); Alam, MM (Alam, Mohammed Mujahid); Imran, M (Imran, Muhammad)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1249 **Article Number:** 131543 **DOI:** 10.1016/j.molstruc.2021.131543 **Early Access Date:** SEP 2021 **Published:** FEB 5 2022

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**Record 151 of 1000**

**Title:** Low-temperature oxidation of carbon monoxide over Bi-metallic nanoparticles incorporated three dimensional silica

**Author(s):** Hamdy, MS (Hamdy, Mohamed S.); Al-Shehri, BM (Al-Shehri, Badria M.); Eissa, M (Eissa, Murad); Alharthi, FA (Alharthi, Fahad A.); Alghamdi, AA (Alghamdi, Abdulaziz Ali); Al-Zaqri, N (Al-Zaqri, Nabil)

**Source:** ATMOSPHERIC ENVIRONMENT **Volume:** 244 **Article Number:** 117955 **DOI:** 10.1016/j.atmosenv.2020.117955 **Published:** JAN 1 2021

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**Record 152 of 1000**

**Title:** Synthesis and Stability of Metal-organic Frameworks (MOFs) Photocatalysts for the Removal of Persistent Organic Pollutants (POPs) from Wastewater

**Author(s):** Mukhtar, A (Mukhtar, Ahmad); Ullah, S (Ullah, Sami); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Assiri, MA (Assiri, Mohammed A.); Saqib, S (Saqib, Sidra); Amen, R (Amen, Rabia); Babar, M (Babar, Muhammad); Bustam, MA (Bustam, Mohamad A.); Ahmad, T (Ahmad, Tausif)

**Source:** CURRENT ANALYTICAL CHEMISTRY **Volume:** 17 **Issue:** 1 **Pages:** 61-81 **DOI:** 10.2174/1573411016999200507121320 **Published:** 2021

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**Record 153 of 1000**

**Title:** Deciphering the detailed structure-activity relationship of coumarins as Monoamine oxidase enzyme inhibitors-An updated review

**Author(s):** Koyiparambath, VP (Koyiparambath, Vishal Payyalot); Rajappan, KP (Prayaga Rajappan, Krishnendu); Rangarajan, TM (Rangarajan, T. M.); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Pannipara, M (Pannipara, Mehboobali); Bhaskar, V (Bhaskar, Vaishnav); Nair, AS (Nair, Aathira Sujathan); Sudevan, ST (Sudevan, Sachithra Thazhathuveedu); Kumar, S (Kumar, Sunil); Mathew, B (Mathew, Bijo)

**Source:** CHEMICAL BIOLOGY & DRUG DESIGN **Volume:** 98 **Issue:** 4 **Pages:** 655-673 **DOI:** 10.1111/cbdd.13919 **Early Access Date:** JUL 2021 **Published:** OCT 2021

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**Record 154 of 1000**

**Title:** Exploration of second and third order nonlinear optical properties for theoretical framework of organic D- $\pi$ -D- $\pi$ -A type compounds

**Author(s):** Khalid, M (Khalid, Muhammad); Khan, MU (Khan, Muhammad Usman); Hussain, R (Hussain, Riaz); Irshad, S (Irshad, Shabana); Ali, B (Ali, Bakhat); Braga, AAC (Braga, Atualpa Albert Carmo); Imran, M (Imran, Muhammad); Hussain, A (Hussain, Amjad)

**Source:** OPTICAL AND QUANTUM ELECTRONICS **Volume:** 53 **Issue:** 10 **Article Number:** 561 **DOI:** 10.1007/s11082-021-03212-3 **Published:** OCT 2021

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**Record 155 of 1000**

**Title:** The Reproductive Injury and Oxidative Testicular Toxicity Induced by Chlorpyrifos Can Be Restored by Zinc in Male Rats

**Author(s):** Khalaf, AA (Khalaf, Abdel Azem); Ogaly, HA (Ogaly, Hanan A.); Ibrahim, MA (Ibrahim, Marwa A.); Abdallah, AA (Abdallah, Amr A.); Zaki, AR (Zaki, Amr R.); Tohamy, AF (Tohamy, Adel F.)

**Source:** BIOLOGICAL TRACE ELEMENT RESEARCH **Volume:** 200 **Issue:** 2 **Pages:** 551-559 **DOI:** 10.1007/s12011-021-02704-3 **Early Access Date:** APR 2021 **Published:** FEB 2022

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**Record 156 of 1000**

**Title:** Doxorubicin, L-arginine, or their combination as a prophylactic agent against hepatic carcinoma in mice

**Author(s):** Al-Shahari, EA (Al-Shahari, Eman A.); El Barky, AR (El Barky, Amira Ragab); Mohamed, TM (Mohamed, Tarek M.); Alm-Eldeen, AA (Alm-Eldeen, Abeer A.)

**Source:** ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH **Volume:** 28 **Issue:** 28 **Pages:** 37661-37671 **DOI:** 10.1007/s11356-021-13177-1 **Early Access Date:** MAR 2021 **Published:** JUL 2021

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**Record 157 of 1000**

**Title:** Computational and theoretical study of graphitic carbon nitride (g-C<sub>3</sub>N<sub>4</sub>) as a drug delivery carrier for lonidamine drug to treat cancer

**Author(s):** Asif, K (Asif, Khadija); Perveen, M (Perveen, Mehvish); Khera, RA (Khera, Rasheed Ahmad); Nazir, S (Nazir, Sidra); Ayub, AR (Ayub, Ali Raza); Asif, T (Asif, Tehreem); Shabbir, M (Shabbir, Muhammad); Iqbal, J (Iqbal, Javed)

**Source:** COMPUTATIONAL AND THEORETICAL CHEMISTRY **Volume:** 1206 **Article Number:** 113459 **DOI:** 10.1016/j.comptc.2021.113459 **Early Access Date:** OCT 2021 **Published:** DEC 2021

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**Record 158 of 1000**

**Title:** Predicting Conduction Heat Flux through Macrolayer in Nucleate Pool Boiling

**Author(s):** Danish, M (Danish, Mohd); Al Mesfer, MK (Al Mesfer, Mohammed K.); Ansari, KB (Ansari, Khursheed B.); Hasan, M (Hasan, Mudassir); Amari, A (Amari, Abdelfattah); Azeem, B (Azeem, Babar)

**Source:** ENERGIES **Volume:** 14 **Issue:** 13 **Article Number:** 3893 **DOI:** 10.3390/en14133893 **Published:** JUL 2021

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**Record 159 of 1000**

**Title:** DFT study of superhalogen (AlF<sub>4</sub>) doped boron nitride for tuning their nonlinear optical properties

**Author(s):** Khan, AU (Khan, Asmat Ullah); Muhammad, S (Muhammad, Shabbir); Khera, RA (Khera, Rasheed Ahmad); Shehzad, RA (Shehzad, Rao Aqil); Ayub, K (Ayub, Khurshid); Iqbal, J (Iqbal, Javed)

**Source:** OPTIK **Volume:** 231 **Article Number:** 166464 **DOI:** 10.1016/j.ijleo.2021.166464 **Early Access Date:** FEB 2021 **Published:** APR 2021

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**Record 160 of 1000**

**Title:** Structural, spectral elucidation, wavefunctional properties, natural bond orbitals, and molecular docking analysis of synthesized 1-phenyl-3(4-methoxyphenyl)-2-propenone: protease kinase inhibitor

**Author(s):** Revathi, H (Revathi, H.); Thirumalaikumar, M (Thirumalaikumar, M.); Muthu, S (Muthu, S.); Asif, FB (Asif, Fazilath Basha); Irfan, A (Irfan, Ahmad)

**Source:** SPECTROSCOPY LETTERS **Volume:** 54 **Issue:** 10 **Pages:** 773-789 **DOI:** 10.1080/00387010.2021.2005629 **Early Access Date:** NOV 2021 **Published:** NOV 26 2021

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**Record 161 of 1000**

**Title:** Immobilization of Chondroitin Sulfate A onto Monolithic Epoxy Silica Column as a New Chiral Stationary Phase for High-Performance Liquid Chromatographic Enantioseparation

**Author(s):** Ratih, R (Ratih, Ratih); Wätzig, H (Waetzig, Hermann); Azminah, A (Azminah, Azminah); Asmari, M (Asmari, Mufarreh); Peters, B (Peters, Benjamin); El Deeb, S (El Deeb, Sami)



**Source:** PHARMACEUTICALS **Volume:** 14 **Issue:** 2 **Article Number:** 98 **DOI:** 10.3390/ph14020098 **Published:** FEB 2021

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#### **Record 162 of 1000**

**Title:** C<sub>10</sub>F as a potential anode material for alkali-ion batteries; a quantum chemical approach

**Author(s):** Ullah, F (Ullah, Faizan); Ayub, K (Ayub, Khurshid); Gilani, MA (Gilani, Mazhar Amjad); Imran, M (Imran, Muhammad); Mahmood, T (Mahmood, Tariq)

**Source:** COMPUTATIONAL AND THEORETICAL CHEMISTRY **Volume:** 1206 **Article Number:** 113470 **DOI:** 10.1016/j.comptc.2021.113470 **Early Access Date:** OCT 2021 **Published:** DEC 2021

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#### **Record 163 of 1000**

**Title:** Antimicrobial properties of silver nanoparticles prepared by Acacia etbaica (Schweinf.) valve extract

**Author(s):** Kalam, A (Kalam, A.); Al-Sehemi, AG (Al-Sehemi, A. G.); Alrumman, S (Alrumman, S.); Assiri, MA (Assiri, M. A.); Alfaify, AM (Alfaify, A. M.); Moustafa, MF (Moustafa, M. F.)

**Source:** MATERIALS LETTERS **Volume:** 300 **Article Number:** 130233 **DOI:** 10.1016/j.matlet.2021.130233 **Early Access Date:** JUN 2021 **Published:** OCT 1 2021

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#### **Record 164 of 1000**

**Title:** An overview on therapeutic role of Diferuloylmethane (Curcumin) in Alzheimer's disease and sleep disorders

**Author(s):** Shumail, H (Shumail, Hoor); Khalid, S (Khalid, Shah); Alqahtani, T (Alqahtani, Taha); Algahtany, M (Algahtany, Mubarak); Din, MAU (Din, M. Azhar Ud); Alqahtani, A (Alqahtani, Ali)

**Source:** MAIN GROUP CHEMISTRY **Volume:** 20 **Issue:** 4 **Pages:** 645-651 **DOI:** 10.3233/MGC-210075 **Published:** 2021

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#### **Record 165 of 1000**

**Title:** Facile low temperature synthesis of homogeneous CuS nanosheets: An effect of Ga loading on structural, optical, nonlinear and antimicrobial properties

**Author(s):** Ahmad, N (Ahmad, Nafis); Almahdawi, SAM (Almahdawi, S. A. M.); Alshehri, AM (Alshehri, A. M.); Shkir, M (Shkir, Mohd); Ahmad, I (Ahmad, Irfan); Hasan, PMZ (Hasan, P. M. Z.); Melaibari, AA (Melaibari, Ammar A.)

**Source:** MATERIALS CHEMISTRY AND PHYSICS **Volume:** 277 **Article Number:** 125552 **DOI:** 10.1016/j.matchemphys.2021.125552 **Early Access Date:** DEC 2021 **Published:** FEB 1 2022

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#### **Record 166 of 1000**

**Title:** Selection of SARS-CoV-2 main protease inhibitor using structure-based virtual screening

**Author(s):** Hakami, AR (Hakami, Abdulrahim R.); Bakheit, AH (Bakheit, Ahmed H.); Almehizia, AA (Almehizia, Abdulrahman A.); Ghazwani, MY (Ghazwani, Mohammed Y.)

**Source:** FUTURE MEDICINAL CHEMISTRY **Volume:** 14 **Issue:** 2 **Pages:** 61-79 **DOI:** 10.4155/fmc-2020-0380 **Early Access Date:** NOV 2021 **Published:** JAN 2022

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#### **Record 167 of 1000**

**Title:** One-pot sonochemical preparation of carbon dots, influence of process parameters and potential applications: a review

**Author(s):** Saleem, M (Saleem, M.); Naz, MY (Naz, M. Y.); Shukrullah, S (Shukrullah, S.); Shujah, MA (Shujah, M. A.); Akhtar, M (Akhtar, M.); Ullah, S (Ullah, Sami); Ali, S (Ali, S.)

**Source:** CARBON LETTERS **Volume:** 32 **Issue:** 1 **Pages:** 39-55 **DOI:** 10.1007/s42823-021-00273-y **Early Access Date:** AUG 2021 **Published:** FEB 2022

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#### **Record 168 of 1000**

**Title:** Inclusion complex of thymol and hydroxypropyl- $\beta$ -cyclodextrin (HP- $\beta$ -CD) in polymeric hydrogel for topical application: Physicochemical characterization, molecular docking, and stability evaluation

**Author(s):** Garg, A (Garg, Anuj); Ahmad, J (Ahmad, Javed); Hassan, MZ (Hassan, Mohd Zaheen)

**Source:** JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY **Volume:** 64 **Article Number:** 102609 **DOI:** 10.1016/j.jddst.2021.102609 **Early Access Date:** JUN 2021 **Published:** AUG 2021

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#### **Record 169 of 1000**

**Title:** Gold nanoparticles and polymer microgels: Last five years of their happy and successful marriage

**Author(s):** Arif, M (Arif, Muhammad); Farooqi, ZH (Farooqi, Zahoor H.); Irfan, A (Irfan, Ahmad); Begum, R (Begum, Robina)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 336 **Article Number:** 116270 **DOI:** 10.1016/j.molliq.2021.116270 **Early Access Date:** MAY 2021 **Published:** AUG 15 2021

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#### **Record 170 of 1000**

**Title:** Zinc oxide quantum dots: Confinement size, photophysical and tuning optical properties effect on photodecontamination of industrial organic pollutants

**Author(s):** Mohamed, WAA (Mohamed, Walied. A. A.); El-Gawad, HHA (El-Gawad, Hala H. Abd); Mekkey, SD (Mekkey, Saleh D.); Galal, HR (Galal, Hoda R.); Labib, AA (Labib, Ammar A.)

**Source:** OPTICAL MATERIALS **Volume:** 118 **Article Number:** 111242 **DOI:** 10.1016/j.optmat.2021.111242 **Early Access Date:** JUN 2021 **Published:** AUG 2021

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#### **Record 171 of 1000**

**Title:** NiMoO<sub>4</sub> nanorods photocatalytic activity comparison under UV and visible light

**Author(s):** Keerthana, S (Keerthana, Subramanian); Rani, BJ (Rani, Balasubramanian Jansi); Yuvakkumar, R (Yuvakkumar, Rathinam); Ravi, G (Ravi, Ganesan); Saravanakumar, B (Saravanakumar, Balasubramanian); Pannipara, M (Pannipara, Mehboobali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Velauthapillai, D (Velauthapillai, Dhayalan)

**Source:** ENVIRONMENTAL RESEARCH **Volume:** 197 **Article Number:** 111073 **DOI:** 10.1016/j.envres.2021.111073 **Early Access Date:** MAR 2021 **Published:** JUN 2021

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#### **Record 172 of 1000**

**Title:** Investigating the thermoelectric power generation performance of ZnCuO: A p-type mixed-metal oxide system

**Author(s):** Ali, HT (Ali, Hafiz T.); Amami, M (Amami, Mongi); Rehman, U (Rehman, U.); Mahmood, K (Mahmood, K.); Yusuf, M (Yusuf, Mohammad); Ikram, S (Ikram, Salma); Ali, A (Ali, A.); Amin, N (Amin, N.); Javaid, K (Javaid, K.); Arshad, MI (Arshad, M. Imran)

**Source:** JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS **Volume:** 163 **Article Number:** 110535 **DOI:** 10.1016/j.jpcs.2021.110535 **Early Access Date:** DEC 2021 **Published:** APR 2022

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#### **Record 173 of 1000**

**Title:** Growth, optical and thermal characterization of novel optical crystal: glycine-doped L-valine potassium chloride for NLO applications

**Author(s):** Palaninathan, J (Palaninathan, Jayanthi); Rathinam, V (Rathinam, Vadamar); Baig, ABA (Baig, Ameer Baig Ali); Ramya, V (Ramya, Velukumar); Somaily, HH (Somaily, H. H.); Kavitha, G (Kavitha, G.)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 33 **Issue:** 11 **Special Issue:** SI **Pages:** 8616-8625 **DOI:** 10.1007/s10854-021-06670-3 **Early Access Date:** AUG 2021 **Published:** APR 2022

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#### **Record 174 of 1000**

**Title:** Visible light-induced catalytic abatement of 4-nitrophenol and Rhodamine B using ZnO/g-C<sub>3</sub>N<sub>4</sub> catalyst

**Author(s):** Kumar, KVA (Kumar, K. V. Ashok); Vinodkumar, T (Vinodkumar, T.); Selvaraj, M (Selvaraj, M.); Suryakala, D (Suryakala, D.); Subrahmanyam, C (Subrahmanyam, Ch)

**Source:** JOURNAL OF CHEMICAL SCIENCES **Volume:** 133 **Issue:** 2 **Article Number:** 41 **DOI:** 10.1007/s12039-021-01903-8 **Published:** APR 10 2021

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#### **Record 175 of 1000**

**Title:** Bithieno Thiophene-Based Small Molecules for Application as Donor Materials for Organic Solar Cells and Hole Transport Materials for Perovskite Solar Cells

**Author(s):** Rasool, A (Rasool, Alvina); Zahid, S (Zahid, Saba); Ans, M (Ans, Muhammad); Muhammad, S (Muhammad, Shabbir); Ayub, K (Ayub, Khurshid); Iqbal, J (Iqbal, Javed)

**Source:** ACS OMEGA **Volume:** 7 **Issue:** 1 **Pages:** 844-862 **DOI:** 10.1021/acsomega.1c05504 **Early Access Date:** DEC 2021 **Published:** JAN 11 2022

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#### Record 176 of 1000

**Title:** Preparation of NiCo<sub>2</sub>O<sub>4</sub> microspheres employing hydrothermal approach

**Author(s):** Keerthana, S (Keerthana, Subramanian); Yuvakkumar, R (Yuvakkumar, Rathinam); Ravi, G (Ravi, Ganesan); Saravanakumar, B (Saravanakumar, Balasubramaniam); Pannipara, M (Pannipara, Mehboobali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Velauthapillai, D (Velauthapillai, Dhayalan)

**Source:** INTERNATIONAL JOURNAL OF HYDROGEN ENERGY **Volume:** 46 **Issue:** 33 **Pages:** 17060-17070 **DOI:** 10.1016/j.ijhydene.2021.02.140 **Early Access Date:** APR 2021 **Published:** MAY 13 2021

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#### Record 177 of 1000

**Title:** Growth and characterization of Ag-Al<sub>2</sub>O<sub>3</sub> composites thin films for thermoelectric power generation applications

**Author(s):** Ullah, I (Ullah, Inaam); Tamseel, M (Tamseel, M.); Amami, M (Amami, Mongi); Javed, MR (Javed, Muhammad Rizwan); Javaid, K (Javaid, K.); Mahmood, K (Mahmood, K.); Ikram, S (Ikram, Salma); Ali, A (Ali, A.); Amin, N (Amin, N.); Hussain, MS (Hussain, M. Shujaat); Ali, MY (Ali, M. Yasir); Arshad, MI (Arshad, M. Imran)

**Source:** CERAMICS INTERNATIONAL **Volume:** 48 **Issue:** 3 **Pages:** 3647-3651 **DOI:** 10.1016/j.ceramint.2021.10.145 **Early Access Date:** DEC 2021 **Published:** FEB 1 2022

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#### Record 178 of 1000

**Title:** Synthesis of a versatile Schiff base 4-((2-hydroxy-3, 5-diiodobenzylidene)amino) benzenesulfonamide from 3,5-diiodosalicylaldehyde and sulfanilamide, structure, electronic properties, biological activity prediction and experimental antimicrobial properties

**Author(s):** Elangovan, N (Elangovan, N.); Gangadharappa, B (Gangadharappa, Bhavya); Thomas, R (Thomas, Renjith); Irfan, A (Irfan, Ahmad)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1250 **Article Number:** 131700 **DOI:** 10.1016/j.molstruc.2021.131700 **Early Access Date:** OCT 2021 **Part:** 1 **Published:** FEB 15 2022

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#### Record 179 of 1000

**Title:** Solvent-free facile fabrication of gold nanoparticles loaded carbon nitride and their photocatalytic performance under visible light illumination

**Author(s):** Bawazeer, TM (Bawazeer, Tahani M.); Al-Shehri, BM (Al-Shehri, Badria M.); Alsoufi, MS (Alsoufi, Mohammad S.); Shkir, M (Shkir, Mohd); Hamdy, MS (Hamdy, Mohamed S.)

**Source:** OPTIK **Volume:** 241 **Article Number:** 167205 **DOI:** 10.1016/j.ijleo.2021.167205 **Early Access Date:** MAY 2021 **Published:** SEP 2021

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#### Record 180 of 1000

**Title:** Total synthesis of Berkeleylactone F

**Author(s):** Vakiti, AR (Vakiti, Anantha Reddy); Valluru, KR (Valluru, Krishna Reddy); Verma, SN (Verma, S. Naresh); Syed, T (Syed, Tasqeeruddin); Sridhar, G (Sridhar, Gattu); Kumar, JVS (Kumar, J. V. Shanmukha)

**Source:** SYNTHETIC COMMUNICATIONS **Volume:** 52 **Issue:** 2 **Pages:** 205-211 **DOI:** 10.1080/00397911.2021.2012804 **Early Access Date:** DEC 2021 **Published:** JAN 17 2022

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#### Record 181 of 1000

**Title:** Flow Injection Techniques for Tetracycline Quantification: A Review

**Author(s):** Oteef, MDY (Oteef, Mohammed D. Y.); Idris, AM (Idris, Abubakr M.)

**Source:** CRITICAL REVIEWS IN ANALYTICAL CHEMISTRY **Volume:** 53 **Issue:** 2 **Pages:** 396-414 **DOI:** 10.1080/10408347.2021.1964343 **Early Access Date:** AUG 2021 **Published:** FEB 17 2023

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#### **Record 182 of 1000**

**Title:** Boosting electrochemical nitrite-ammonia conversion properties by a Cu foam@Cu<sub>2</sub>O catalyst

**Author(s):** Chen, QY (Chen, Qiuyue); An, XG (An, Xuguang); Liu, Q (Liu, Qian); Wu, XQ (Wu, Xiaoqiang); Xie, LS (Xie, Lisi); Zhang, J (Zhang, Jing); Yao, WT (Yao, Weitang); Hamdy, MS (Hamdy, Mohamed S.); Kong, QQ (Kong, Qingquan); Sun, XP (Sun, Xuping)

**Source:** CHEMICAL COMMUNICATIONS **Volume:** 58 **Issue:** 4 **Pages:** 517-520 **DOI:** 10.1039/d1cc06215h **Early Access Date:** DEC 2021 **Published:** JAN 6 2022

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#### **Record 183 of 1000**

**Title:** Virtual Screening and Molecular Docking Studies for Discovery of Potential RNA-Dependent RNA Polymerase Inhibitors

**Author(s):** Ghazwani, MY (Ghazwani, Mohammed Y.); Bakheit, AH (Bakheit, Ahmed H.); Hakami, AR (Hakami, Abdulrahim R.); Alkahtani, HM (Alkahtani, Hamad M.); Almehezia, AA (Almehezia, Abdulrahman A.)

**Source:** CRYSTALS **Volume:** 11 **Issue:** 5 **Article Number:** 471 **DOI:** 10.3390/cryst11050471 **Published:** MAY 2021

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#### **Record 184 of 1000**

**Title:** Numerical study of binary mixture and thermal analysis near a solar radiative heated surface

**Author(s):** Khan, M (Khan, Mair); Salahuddin, T (Salahuddin, T.); Khan, Q (Khan, Qaisar); Al Alwan, B (Al Alwan, Basem); Almesfer, M (Almesfer, Mohammad)

**Source:** SOLAR ENERGY **Volume:** 231 **Pages:** 262-269 **DOI:** 10.1016/j.solener.2021.11.003 **Early Access Date:** DEC 2021 **Published:** JAN 1 2022

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#### **Record 185 of 1000**

**Title:** In silico analyses of predicted substitutions in fibrinolytic protein 'Lumbrokinase-6' suggest enhanced activity

**Author(s):** Munawar, S (Munawar, Sadam); Sagir, M (Sagir, Muhammad); Mustafa, G (Mustafa, Ghulam); Ali, MA (Ali, Muhammad Amjad); Niazi, AK (Niazi, Adnan Khan); Parvaiz, A (Parvaiz, Aqsa); Yasmin, F (Yasmin, Farkhanda); Mansoor, F (Mansoor, Farukh); Kanwal, S (Kanwal, Shamsa); Rasheed, M (Rasheed, Majeeda); Kehfulvara, H (Kehfulvara, Hafiza); Ali, H (Ali, Habib); Ullah, S (Ullah, Sami); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Khan, MS (Khan, Muhammad Sarwar); Joyia, FA (Joyia, Faiz Ahmad)

**Source:** PROCESS BIOCHEMISTRY **Volume:** 110 **Pages:** 292-301 **DOI:** 10.1016/j.procbio.2021.08.022 **Early Access Date:** AUG 2021 **Published:** NOV 2021

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#### **Record 186 of 1000**

**Title:** Quaternary Cu<sub>2</sub>FeSnS<sub>4</sub>/PVP/rGO Composite for Supercapacitor Applications

**Author(s):** Isacfranklin, M (Isacfranklin, Melkiyur); Yuvakkumar, R (Yuvakkumar, Rathinam); Ravi, G (Ravi, Ganesan); Saravanakumar, B (Saravanakumar, Balasubramaniam); Pannipara, M (Pannipara, Mehboobali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Velauthapillai, D (Velauthapillai, Dhayalan)

**Source:** ACS OMEGA **Volume:** 6 **Issue:** 14 **Pages:** 9471-9481 **DOI:** 10.1021/acsomega.0c06167 **Early Access Date:** MAR 2021 **Published:** APR 13 2021

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#### **Record 187 of 1000**

**Title:** Synthesis, characterization, X-ray crystal structure and antibacterial activity of nickel, palladium and platinum complexes with Schiff base derived from *N*-cyclohexylhydrazinecarbothioamide and 5-(*tert*-butyl)-2-hydroxybenzaldehyde

**Author(s):** Arafath, MA (Arafath, Md Azharul); Adam, F (Adam, Farook); Hassan, MZ (Hassan, Mohd Zaheen)

**Source:** PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS **Volume:** 196 **Issue:** 6 **Pages:** 530-537 **DOI:** 10.1080/10426507.2020.1871344 **Early Access Date:** JAN 2021 **Published:** JUN 3 2021

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**Record 188 of 1000**

**Title:** Structural Elucidation, Morphological Properties, and Dielectric Properties of Nickel-Substituted Cobalt and Lead-Based X-Type Hexagonal Ferrites

**Author(s):** Wajad, M (Wajad, Muhammad); Khan, HM (Khan, Hasan M.); Waheed, A (Waheed, Abdul); Zahid, M (Zahid, Muhammad); Rehman, MMU (Rehman, Muhammad Misbah Ur); Hussein, M (Hussein, Mohammad); Mazhar, ME (Mazhar, Muhammad Ehsan); Usmani, MN (Usmani, Muhammad Nauman); Khan, MI (Khan, Muhammad Imran)

**Source:** JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE **Volume:** 31 **Issue:** 3 **Pages:** 1914-1924 **DOI:** 10.1007/s11665-021-06353-4 **Early Access Date:** NOV 2021 **Published:** MAR 2022

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**Record 189 of 1000**

**Title:** Second-order NLO properties and two-state switching effects of transition metal redox complexes of iron and cobalt: A DFT study

**Author(s):** Bibi, T (Bibi, Tamseela); Jadoon, T (Jadoon, Tabish); Muhammad, S (Muhammad, Shabbir); Ayub, K (Ayub, Khurshid)

**Source:** JOURNAL OF MOLECULAR GRAPHICS & MODELLING **Volume:** 107 **Article Number:** 107975 **DOI:** 10.1016/j.jmgm.2021.107975 **Early Access Date:** JUL 2021 **Published:** SEP 2021

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**Record 190 of 1000**

**Title:** Multi-functional organic-inorganic hydrogel microspheres as efficient catalytic system for reduction of toxic dyes in aqueous medium

**Author(s):** Shahid, M (Shahid, Muhammad); Farooqi, ZH (Farooqi, Zahoor H.); Begum, R (Begum, Robina); Arif, M (Arif, Muhammad); Azam, M (Azam, Muhammad); Irfan, A (Irfan, Ahmad); Farooq, U (Farooq, Umar)

**Source:** ZEITSCHRIFT FUR PHYSIKALISCHE CHEMIE-INTERNATIONAL JOURNAL OF RESEARCH IN PHYSICAL CHEMISTRY & CHEMICAL PHYSICS **Volume:** 236 **Issue:** 1 **Pages:** 87-105 **DOI:** 10.1515/zpch-2020-1739 **Early Access Date:** MAY 2021 **Published:** JAN 27 2022

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**Record 191 of 1000**

**Title:** Polymer hydrogels for stabilization of inorganic nanoparticles and their application in catalysis for degradation of toxic chemicals

**Author(s):** Hussain, I (Hussain, Iftikhar); Shahid, M (Shahid, Muhammad); Ali, F (Ali, Faisal); Irfan, A (Irfan, Ahmad); Begum, R (Begum, Robina); Farooqi, ZH (Farooqi, Zahoor H.)

**Source:** ENVIRONMENTAL TECHNOLOGY **Volume:** 44 **Issue:** 11 **Pages:** 1679-1689 **DOI:** 10.1080/09593330.2021.2011429 **Early Access Date:** DEC 2021 **Published:** MAY 12 2023

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**Record 192 of 1000**

**Title:** Fabrication of WO<sub>3</sub> nanotubes/graphene oxide nanosheets hybrid structures: Enhanced solar conversion efficiency in dye sensitized solar cell

**Author(s):** Gayathri, R (Gayathri, R.); Rajeswaran, P (Rajeswaran, P.); Raja, G (Raja, G.); Bavaji, SR (Bavaji, S. R.); Ameen, N (Ameen, Noorul); Shkir, M (Shkir, Mohd.)

**Source:** DIAMOND AND RELATED MATERIALS **Volume:** 119 **Article Number:** 108562 **DOI:** 10.1016/j.diamond.2021.108562 **Early Access Date:** AUG 2021 **Published:** NOV 2021

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**Record 193 of 1000**

**Title:** Review of Recent Progress in Wastewater Treatment Using Carbon Nanotubes

**Author(s):** Inayat, A (Inayat, Abrar); Said, Z (Said, Zafar); Alsaidi, O (Alsaidi, Ola); Al-Zaidi, R (Al-Zaidi, Ruqaya); Ullah, S (Ullah, Sami); Stathopoulos, V (Stathopoulos, Vassilis)

**Source:** CURRENT ANALYTICAL CHEMISTRY **Volume:** 17 **Issue:** 1 **Pages:** 23-30 **DOI:** 10.2174/1573411016999200709134020 **Published:** 2021

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**Record 194 of 1000**

**Title:** Photocatalytic degradation mechanism of Ce-loaded ZnO catalysts toward methyl green dye pollutant

**Author(s):** Al-Namshah, KS (Al-Namshah, Khadijah S.); Mariappan, SM (Mariappan, Sivalingam Muthu); Shkir, M (Shkir, Mohd); Hamdy, MS (Hamdy, Mohamed S.)

**Source:** APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING **Volume:** 127 **Issue:** 6 **Article Number:** 452 **DOI:** 10.1007/s00339-021-04602-w **Published:** JUN 2021

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#### **Record 195 of 1000**

**Title:** Quantum dots synthetization and future prospect applications

**Author(s):** Mohamed, WAA (Mohamed, Walied A. A.); Abd El-Gawad, H (Abd El-Gawad, Hala); Mekkey, S (Mekkey, Saleh); Galal, H (Galal, Hoda); Handal, H (Handal, Hala); Mousa, H (Mousa, Hanan); Labib, A (Labib, Ammar)

**Source:** NANOTECHNOLOGY REVIEWS **Volume:** 10 **Issue:** 1 **Pages:** 1926-1940 **DOI:** 10.1515/ntrev-2021-0118 **Published:** NOV 23 2021

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#### **Record 196 of 1000**

**Title:** Computational prediction of polar and non-polar solvent effect on the electronic property of N-BOC-Piperidine-4-Carboxylic acid

**Author(s):** Vimala, M (Vimala, M.); Mary, SS (Mary, S. Stella); Ramalakshmi, R (Ramalakshmi, R.); Muthu, S (Muthu, S.); Irfan, A (Irfan, Ahmad)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 341 **Article Number:** 117222 **DOI:** 10.1016/j.molliq.2021.117222 **Early Access Date:** AUG 2021 **Published:** NOV 1 2021

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#### **Record 197 of 1000**

**Title:** Dispersive MSPD Extraction Method Coupled with HPLC for the Quantification of Vitexin in *Passiflora foetida* Formulations

**Author(s):** Kamal, YT (Kamal, Y. T.); Bin Muhsinah, A (Bin Muhsinah, Abdullatif); Alsayari, A (Alsayari, Abdulrhaman); Fouda, AI (Fouda, Ahmed Ibrahim); Yusufoglu, HS (Yusufoglu, Hasan Soliman); Alam, P (Alam, Prawez)

**Source:** LATIN AMERICAN JOURNAL OF PHARMACY **Volume:** 40 **Issue:** 12 **Pages:** 2900-2904 **Published:** 2021

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#### **Record 198 of 1000**

**Title:** Quantum computational studies on optimization, donor-acceptor analysis and solvent effect on reactive sites, global descriptors, non-linear optical parameters of Methyl N-Boc-piperidine-3-carboxylate

**Author(s):** Vimala, M (Vimala, M.); Mary, SS (Mary, S. Stella); Ramalakshmi, R (Ramalakshmi, R.); Muthu, S (Muthu, S.); Devi, RN (Devi, R. Niranjana); Irfan, A (Irfan, Ahmad)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 343 **Article Number:** 117608 **DOI:** 10.1016/j.molliq.2021.117608 **Early Access Date:** SEP 2021 **Published:** DEC 1 2021

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#### **Record 199 of 1000**

**Title:** Cattaneo-Christov heat flux and entropy generation on hybrid nanofluid flow in a nozzle of rocket engine with melting heat transfer

**Author(s):** Waqas, H (Waqas, Hassan); Muhammad, T (Muhammad, Taseer); Noreen, S (Noreen, Sobia); Farooq, U (Farooq, Umar); Alghamdi, M (Alghamdi, Metib)

**Source:** CASE STUDIES IN THERMAL ENGINEERING **Volume:** 28 **Article Number:** 101504 **DOI:** 10.1016/j.csite.2021.101504 **Early Access Date:** OCT 2021 **Published:** DEC 2021

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#### **Record 200 of 1000**

**Title:** Facile synthesis of 4-aryl-N-(5-methyl-1H-pyrazol-3-yl)benzamides via Suzuki Miyaura reaction: Antibacterial activity against clinically isolated NDM-1-positive bacteria and their Docking Studies

**Author(s):** Ahmad, G (Ahmad, Gulraiz); Rasool, N (Rasool, Nasir); Qamar, MU (Qamar, Muhammad Usman); Alam, MM (Alam, Mohammed Mujahid); Kosar, N (Kosar, Naveen); Mahmood, T (Mahmood, Tariq); Imran, M (Imran, Muhammad)

**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 14 **Issue:** 8 **Article Number:** 103270 **DOI:** 10.1016/j.arabjc.2021.103270 **Early Access Date:** JUL 2021 **Published:** AUG 2021

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**Record 201 of 1000**

**Title:** Cobalt-based derivatives oxygen evolution reaction

**Author(s):** Swathi, S (Swathi, S.); Rani, BJ (Rani, B. Jansi); Yuvakkumar, R (Yuvakkumar, R.); Ravi, G (Ravi, G.); Babu, ES (Babu, E. Sunil); Pannipara, M (Pannipara, Mehboobali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Velauthapillai, D (Velauthapillai, Dhayalan)

**Source:** APPLIED NANOSCIENCE **Volume:** 11 **Issue:** 4 **Pages:** 1367-1378 **DOI:** 10.1007/s13204-021-01782-y **Early Access Date:** MAR 2021 **Published:** APR 2021

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**Record 202 of 1000**

**Title:** Separation and quantification of nine bioactive compounds in traditional Unani formulations by High Performance Liquid Chromatography-Photodiode Array Detector

**Author(s):** Kamal, YT (Kamal, Y. T.); Ahmad, S (Ahmad, Sayeed); Mahadevan, N (Mahadevan, Nanjaian); Alam, P (Alam, Prawez); Salam, S (Salam, Shahana); Asiri, YI (Asiri, Yahya, I); Bin Muhsinah, A (Bin Muhsinah, Abdullatif); Alsayari, A (Alsayari, Abdulrhman)

**Source:** ACTA CHROMATOGRAPHICA **Volume:** 33 **Issue:** 1 **Pages:** 3-10 **DOI:** 10.1556/1326.2020.00696 **Published:** MAR 2021

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**Record 203 of 1000**

**Title:** Synthesis, crystal structure, spectroscopic study and Hirshfeld surface analysis of [Ni(C<sub>6</sub>H<sub>8</sub>N<sub>2</sub>)<sub>3</sub>]Cl<sub>2</sub>·2(H<sub>2</sub>O) (1)

**Author(s):** Jbali, W (Jbali, W.); Selmi, W (Selmi, W.); Jouffret, L (Jouffret, L.); Marzouki, R (Marzouki, R.); Zid, MF (Zid, M. F.)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1225 **Article Number:** 129123 **DOI:** 10.1016/j.molstruc.2020.129123 **Published:** FEB 5 2021

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**Record 204 of 1000**

**Title:** Curcumin-Celecoxib: a synergistic and rationale combination chemotherapy for breast cancer

**Author(s):** Alqahtani, AM (Alqahtani, A. M.); Chidambaram, K (Chidambaram, K.); Pino-Figueroa, A (Pino-Figueroa, A.); Chandrasekaran, B (Chandrasekaran, B.); Dhanaraj, P (Dhanaraj, P.); Venkatesan, K (Venkatesan, K.)

**Source:** EUROPEAN REVIEW FOR MEDICAL AND PHARMACOLOGICAL SCIENCES **Volume:** 25 **Issue:** 4 **Pages:** 1916-1927 **DOI:** 10.26355/eurrev\_202102\_25086 **Published:** 2021

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**Record 205 of 1000**

**Title:** Conformational study, FT-IR, FT-Raman, solvent effect on UV-Vis, charge transfer and protein-ligand interactions of Methyl-2-pyrazinecarboxylate

**Author(s):** Arulaabaranam, K (Arulaabaranam, K.); Muthu, S (Muthu, S.); Mani, G (Mani, G.); Irfan, A (Irfan, Ahmad)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 341 **Article Number:** 116934 **DOI:** 10.1016/j.molliq.2021.116934 **Early Access Date:** SEP 2021 **Published:** NOV 1 2021

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**Record 206 of 1000**

**Title:** Influence of entropy generation on hybrid nanoparticles near the lower region of solid sphere

**Author(s):** Sakinder, S (Sakinder, S.); Salahuddin, T (Salahuddin, T.); Al-Mubaddel, FS (Al-Mubaddel, Fahad S.); Alam, MM (Alam, Mohammad Mahtab); Ahmad, I (Ahmad, Irfan)

**Source:** CASE STUDIES IN THERMAL ENGINEERING **Volume:** 26 **Article Number:** 101038 **DOI:** 10.1016/j.csite.2021.101038 **Early Access Date:** MAY 2021 **Published:** AUG 2021

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**Record 207 of 1000**

**Title:** QUANTIFICATION AND HEALTH RISK ASSESSMENT OF TWENTY-FIVE ELEMENTS IN CHEESE, BEEF, MUTTON AND LIVER PRODUCED IN NUBA MOUNTAINS, SUDAN

**Author(s):** Elrashid, ANA (Elrashid, Abdelbagi N. A.); Idris, AM (Idris, Abubakr M.); Ahmed, IM (Ahmed, Ibrahim M.); Ali, AH (Ali, Ali H.); Eltayeb, MAH (Eltayeb, Mohammed A. H.)

**Record 208 of 1000**

**Title:** An Implicit Numerical Approach for 2D Rayleigh Stokes Problem for a Heated Generalized Second Grade Fluid with Fractional Derivative

**Author(s):** Naz, A (Naz, Anam); Ali, U (Ali, Umair); Elfakhany, A (Elfakhany, Ashraf); Ismail, KA (Ismail, Khadiga Ahmed); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Al-Ghamdi, AA (Al-Ghamdi, Ahmed A.)

**Source:** FRACTAL AND FRACTIONAL **Volume:** 5 **Issue:** 4 **Article Number:** 283 **DOI:** 10.3390/fractalfract5040283 **Published:** DEC 2021

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**Record 209 of 1000**

**Title:** Excellent improvement in photocatalytic nature of ZnO nanoparticles via Fe doping content

**Author(s):** Bawazeer, TM (Bawazeer, Tahani M.); Alsoufi, MS (Alsoufi, Mohammad S.); Shkir, M (Shkir, Mohd); Al-Shehri, BM (Al-Shehri, Badria M.); Hamdy, MS (Hamdy, Mohamed S.)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 130 **Article Number:** 108668 **DOI:** 10.1016/j.inoche.2021.108668 **Early Access Date:** JUN 2021 **Published:** AUG 2021

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**Record 210 of 1000**

**Title:** Synthesis, biological assay, chemical descriptors, and molecular docking calculations of novel copper(II) mixed-ligand complexes of n-benzoyl-dl-phenylalanine and n-heterocyclic nitrogen bases

**Author(s):** Abdel-Rahman, LH (Abdel-Rahman, Laila H.); Basha, MT (Basha, Maram T.); Al-Farhan, BS (Al-Farhan, Badriah Saad); Ismael, M (Ismael, Mohamed)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1250 **Article Number:** 131854 **DOI:** 10.1016/j.molstruc.2021.131854 **Early Access Date:** DEC 2021 **Part:** 2 **Published:** FEB 15 2022

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**Record 211 of 1000**

**Title:** Pyrazines with terminal donor groups for third-order nonlinear optics: effect of graphene oxide on nonlinear absorption

**Author(s):** Shiju, E (Shiju, E.); Narendran, NKS (Siji Narendran, N. K.); Thomas, S (Thomas, Sheenu); Pannipara, M (Pannipara, Mehboobali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Rao, DN (Narayana Rao, D.)

**Source:** JOURNAL OF CHEMICAL SCIENCES **Volume:** 133 **Issue:** 3 **Article Number:** 95 **DOI:** 10.1007/s12039-021-01963-w **Published:** SEP 2021

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**Record 212 of 1000**

**Title:** Ni(II) removal using date seed powder biosorbent: Process parameters classification and RSM modeling

**Author(s):** Osman, H (Osman, Haitham); Shigidi, I (Shigidi, Ihab); Elkhaleefa, A (Elkhaleefa, Abubakr); Ali, I (Ali, Ismat); Brima, E (Brima, Eid); Al Alwan, B (Al Alwan, Basem)

**Source:** JOURNAL OF THE AIR & WASTE MANAGEMENT ASSOCIATION **Volume:** 72 **Issue:** 1 **Pages:** 76-84 **DOI:** 10.1080/10962247.2021.1990160 **Early Access Date:** NOV 2021 **Published:** JAN 2 2022

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**Record 213 of 1000**

**Title:** New chitosan Schiff base and its nanocomposite: Removal of methyl green from aqueous solution and its antibacterial activities

**Author(s):** Cao, Y (Cao, Yan); Alamri, S (Alamri, Sagr); Rajhi, AA (Rajhi, Ali A.); Anqi, AE (Anqi, Ali E.); Khalaji, AD (Khalaji, Aliakbar Dehno)

**Source:** INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES **Volume:** 192 **Pages:** 1-6 **DOI:** 10.1016/j.ijbiomac.2021.09.192 **Early Access Date:** OCT 2021 **Published:** DEC 1 2021

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**Record 214 of 1000**

**Title:** Silver nanoparticles-supported graphitic-like carbon nitride for the electrochemical sensing of nitrobenzene and its derivatives



**Author(s):** Pandiyarajan, C (Pandiyarajan, Chinnappan); Rameshkumar, P (Rameshkumar, Perumal); Murugesan, S (Murugesan, Sepperumal); Selvaraj, M (Selvaraj, Manickam)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 32 **Issue:** 14 **Pages:** 19912-19924 **DOI:** 10.1007/s10854-021-06515-z **Early Access Date:** JUL 2021 **Published:** JUL 2021

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#### Record 215 of 1000

**Title:** CTAB Cationic Surfactant Assisted NiCO<sub>3</sub> Electrocatalyst for Electrochemical Water Splitting Applications

**Author(s):** Swathi, S (Swathi, S.); Yuvakkumar, R (Yuvakkumar, R.); Ravi, G (Ravi, G.); Senthil, TS (Senthil, T. S.); Pannipara, M (Pannipara, Mehboobali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Velauthapillai, D (Velauthapillai, Dhayalan)

**Source:** ECS JOURNAL OF SOLID STATE SCIENCE AND TECHNOLOGY **Volume:** 10 **Issue:** 6 **Article Number:** 061006 **DOI:** 10.1149/2162-8777/ac07fe **Published:** JUN 1 2021

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#### Record 216 of 1000

**Title:** Green synthesis and antibiofilm potential of Silver Nanoparticles loaded with *Narcissus tazetta* L. Extract

**Author(s):** Ikram, I (Ikram, Isra); Barkatullaha (Barkatullaha); Khalid, S (Khalid, Shah); Shumail, H (Shumail, Hoor); Khan, H (Khan, Haroon); Humayoun, F (Humayoun, Farah); Ghaffar, N (Ghaffar, Nasreen); Ahmad, I (Ahmad, Izhar); Khan, WM (Khan, Wisal Muhammad); Alqahtani, AM (Alqahtani, Ali M.)

**Source:** MAIN GROUP CHEMISTRY **Volume:** 20 **Issue:** 2 **Pages:** 203-218 **DOI:** 10.3233/MGC-210035 **Published:** 2021

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#### Record 217 of 1000

**Title:** Nickel iron oxide electrocatalysts for electrochemical OER activity

**Author(s):** Keerthana, SP (Keerthana, S. P.); Yuvakkumar, R (Yuvakkumar, R.); Ravi, G (Ravi, G.); Senthil, TS (Senthil, T. S.); Pannipara, M (Pannipara, Mehboobali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Velauthapillai, D (Velauthapillai, Dhayalan)

**Source:** APPLIED NANOSCIENCE **Volume:** 11 **Issue:** 11 **Pages:** 2669-2677 **DOI:** 10.1007/s13204-021-02134-6 **Early Access Date:** OCT 2021 **Published:** NOV 2021

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#### Record 218 of 1000

**Title:** Enhanced photoresponsivity of anatase titanium dioxide (TiO<sub>2</sub>)/nitrogen-doped graphene quantum dots (N-GQDs) heterojunction-based photodetector

**Author(s):** Algadi, H (Algadi, Hassan); Albargi, H (Albargi, Hasan); Umar, A (Umar, Ahmad); Shkir, M (Shkir, Mohd.)

**Source:** ADVANCED COMPOSITES AND HYBRID MATERIALS **Volume:** 4 **Issue:** 4 **Pages:** 1354-1366 **DOI:** 10.1007/s42114-021-00355-5 **Early Access Date:** OCT 2021 **Published:** DEC 2021

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#### Record 219 of 1000

**Title:** Development and Characterization of Biocompatible Membranes from Natural Chitosan and Gelatin for Pervaporative Separation of Water-Isopropanol Mixture

**Author(s):** Kulkarni, AS (Kulkarni, Akshay S.); Sajjan, AM (Sajjan, Ashok M.); Khan, TMY (Khan, T. M. Yunus); Badruddin, IA (Badruddin, Irfan Anjum); Kamangar, S (Kamangar, Sarfaraz); Banapurmath, NR (Banapurmath, Nagaraj R.); Ayachit, NH (Ayachit, Narasimha H.); Ashwini, M (Ashwini, M.); Sharanappa, A (Sharanappa, A.)

**Source:** POLYMERS **Volume:** 13 **Issue:** 17 **Article Number:** 2868 **DOI:** 10.3390/polym13172868 **Published:** SEP 2021

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#### Record 220 of 1000

**Title:** Self-monitored and optically powered fiber-optic device for localized hyperthermia and controlled cell death *in vitro*

**Author(s):** Alqarni, SA (Alqarni, Sondos Abdullah); Willmore, WG (Willmore, William G.); Albert, J (Albert, Jacques); Smelser, CW (Smelser, Christopher W.)

**Source:** APPLIED OPTICS **Volume:** 60 **Issue:** 8 **Pages:** 2400-2411 **DOI:** 10.1364/AO.411576 **Published:** MAR 10 2021

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#### **Record 221 of 1000**

**Title:** Co(II), Ni(II), Cu(II) and Cd(II)-thiocarbonohydrazone complexes: spectroscopic, DFT, thermal, and electrical conductivity studies

**Author(s):** Fouad, R (Fouad, R.); Shaaban, IA (Shaaban, Ibrahim A.); Ali, TE (Ali, Tarik E.); Assiri, MA (Assiri, Mohammed A.); Shenouda, SS (Shenouda, S. S.)

**Source:** RSC ADVANCES **Volume:** 11 **Issue:** 60 **Pages:** 37726-37743 **DOI:** 10.1039/d1ra06902k **Published:** NOV 23 2021

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#### **Record 222 of 1000**

**Title:** Facile fabrication of novel nanostructured Au@PbI<sub>2</sub> thin films and their structure, optical and NLO studies for higher order nonlinear applications

**Author(s):** Shkir, M (Shkir, Mohd); Chandekar, KV (Chandekar, Kamlesh, V); Khan, A (Khan, Aslam); Yousef, E (Yousef, El Sayed); Ali, HE (Ali, H. Elhosiny); Algarni, H (Algarni, H.); El-Toni, AM (El-Toni, Ahmed Mohamed); Ansari, AA (Ansari, Anees A.); AlFaify, S (AlFaify, S.)

**Source:** MATERIALS CHEMISTRY AND PHYSICS **Volume:** 265 **Article Number:** 124458 **DOI:** 10.1016/j.matchemphys.2021.124458 **Early Access Date:** MAR 2021 **Published:** JUN 1 2021

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#### **Record 223 of 1000**

**Title:** A comparison between the packed and coated finned tube for adsorption system using aluminium fumarate: Numerical study

**Author(s):** Albaik, I (Albaik, Ibrahim); Al-Dadah, R (Al-Dadah, Raya); Mahmoud, S (Mahmoud, Saad); Almesfer, MK (Almesfer, Mohammed K.); Ismail, MA (Ismail, Mohamed A.)

**Source:** THERMAL SCIENCE AND ENGINEERING PROGRESS **Volume:** 22 **Article Number:** 100859 **DOI:** 10.1016/j.tsep.2021.100859 **Early Access Date:** FEB 2021 **Published:** MAY 1 2021

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#### **Record 224 of 1000**

**Title:** Keto-enol tautomerism, spectral (infrared, Raman and NMR) studies and Normal coordinate analysis of 4-Methyl-2-hydroxyquinoline using quantum mechanical calculations

**Author(s):** Shaaban, IA (Shaaban, Ibrahim A.); Assiri, MA (Assiri, Mohammed A.); Ali, TE (Ali, Tarik E.); Mohamed, TA (Mohamed, Tarek A.)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1252 **Article Number:** 132137 **DOI:** 10.1016/j.molstruc.2021.132137 **Early Access Date:** DEC 2021 **Published:** MAR 15 2022

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#### **Record 225 of 1000**

**Title:** *In silico* screening, SAR and kinetic studies of naturally occurring flavonoids against SARS CoV-2 main protease

**Author(s):** Imran, M (Imran, Muhammad); Iqbal, S (Iqbal, Sana); Hussain, A (Hussain, Ajaz); Uddin, J (Uddin, Jalal); Shahzad, M (Shahzad, Mohsin); Khaliq, T (Khaliq, Tanwir); Ahmed, AR (Ahmed, Abdul Razzaq); Mushtaq, L (Mushtaq, Laiba); Kashif, M (Kashif, Muhammad); Mahmood, K (Mahmood, Khalid)

**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 15 **Issue:** 1 **Article Number:** 103473 **DOI:** 10.1016/j.arabjc.2021.103473 **Early Access Date:** OCT 2021 **Published:** JAN 2022

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#### **Record 226 of 1000**

**Title:** Demonstrating the Potential of Alkali Metal-Doped Cyclic C<sub>6</sub>O<sub>6</sub>Li<sub>6</sub> Organometallics as Electrified and High-Performance NLO Materials

**Author(s):** Wajid, S (Wajid, Sunaina); Kosar, N (Kosar, Naveen); Ullah, F (Ullah, Faizan); Gilani, MA (Gilani, Mazhar Amjad); Ayub, K (Ayub, Khurshid); Muhammad, S (Muhammad, Shabbir); Mahmood, T (Mahmood, Tariq)

### Record 227 of 1000

**Title:** The ameliorative effect of *N*-acetylcysteine against penconazole induced neurodegenerative and neuroinflammatory disorders in rats

**Author(s):** Morgan, AM (Morgan, Ashraf M.); Hassanen, EI (Hassanen, Eman I.); Ogaly, HA (Ogaly, Hanan A.); Al Dulmani, SA (Al Dulmani, Sarah A.); Al-Zahrani, FAM (Al-Zahrani, Fatimah A. M.); Galal, MK (Galal, Mona K.); Kamel, S (Kamel, Shaimaa); Rashad, MM (Rashad, Maha M.); Ibrahim, MA (Ibrahim, Marwa A.); Hussien, AM (Hussien, Ahmed M.)

**Source:** JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY **Volume:** 35 **Issue:** 10 **Article Number:** e22884 **DOI:** 10.1002/jbt.22884 **Early Access Date:** AUG 2021 **Published:** OCT 2021

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### Record 228 of 1000

**Title:** Characterization of Jet nebulizer spray pyrolysis coated MoS<sub>2</sub> thin films and fabrication of p-Si/n-MoS<sub>2</sub> junction diodes for optoelectronic application

**Author(s):** Sasikala, T (Sasikala, T.); Shanmugasundaram, K (Shanmugasundaram, K.); Thirunavukkarasu, P (Thirunavukkarasu, P.); Chandrasekaran, J (Chandrasekaran, J.); Vivek, P (Vivek, P.); Marnadu, R (Marnadu, R.); Manthrammel, MA (Manthrammel, M. Aslam); Gunasekaran, S (Gunasekaran, S.)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 130 **Article Number:** 108701 **DOI:** 10.1016/j.inoche.2021.108701 **Early Access Date:** JUN 2021 **Published:** AUG 2021

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### Record 229 of 1000

**Title:** Facile Synthesis of Cu-Zn Binary Oxide Coupled Cadmium Tungstate (Cu-ZnBO-Cp-CT) with Enhanced Performance of Dye Adsorption

**Author(s):** Fatima, B (Fatima, Bushra); Al Alwan, B (Al Alwan, Basem); Siddiqui, SI (Siddiqui, Sharf Ilahi); Ahmad, R (Ahmad, Rabia); Almesfer, M (Almesfer, Mohammed); Khanna, MK (Khanna, Manoj Kumar); Mishra, R (Mishra, Ruby); Ravi, R (Ravi, Rangnath); Oh, S (Oh, Seungdae)

**Source:** WATER **Volume:** 13 **Issue:** 22 **Article Number:** 3287 **DOI:** 10.3390/w13223287 **Published:** NOV 2021

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### Record 230 of 1000

**Title:** Equilibrium and Computational Chemical Modelling Studies for the Removal of Methyl Orange and Methyl Red Dyes from Water Using Modified Silica Resin

**Author(s):** Junejo, R (Junejo, Ranjhan); Jalbani, NS (Jalbani, Nida Shams); Kaya, S (Kaya, Savas); Erkan, S (Erkan, Sultan); Marzouki, R (Marzouki, Riadh); Memon, S (Memon, Shahabuddin)

**Source:** INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY **Volume:** 103 **Issue:** 19 **Pages:** 8000-8016 **DOI:** 10.1080/03067319.2021.1979534 **Early Access Date:** SEP 2021 **Published:** DEC 26 2023

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### Record 231 of 1000

**Title:** Investigation analysis of optoelectronic and structural properties of cis- and trans-structures of azo dyes: density functional theory study

**Author(s):** Bibi, S (Bibi, Shamsa); Khan, M (Khan, Mehwish); Ur-Rehman, S (Ur-Rehman, Shafiq); Yaseen, M (Yaseen, Muhammad); Muhammad, S (Muhammad, Shabbir); Nadeem, R (Nadeem, Raziya); Jahan, N (Jahan, Nazish); Bashir, S (Bashir, Saima); Misbah (Misbah)

**Source:** JOURNAL OF PHYSICAL ORGANIC CHEMISTRY **Volume:** 34 **Issue:** 6 **Article Number:** e4183 **DOI:** 10.1002/poc.4183 **Early Access Date:** JAN 2021 **Published:** JUN 2021

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### Record 232 of 1000

**Title:** Modified alginate-chitosan-TiO<sub>2</sub> composites for adsorptive removal of Ni (II) ions from aqueous medium

**Author(s):** Shehzad, H (Shehzad, Hamza); Ahmed, E (Ahmed, Ejaz); Sharif, A (Sharif, Ahsan); Farooqi, ZH (Farooqi, Zahoor H.); Din, MI (Din, Muhammad Imran); Begum, R (Begum, Robina); Liu, ZR (Liu, Zhirong); Zhou, LM (Zhou, Limin); Ouyang, JB (Ouyang, Jinbo); Irfan, A (Irfan, Ahmad); Nawaz, I (Nawaz, Imran)

**Record 233 of 1000**

**Title:** SYNTHESIS AND BIOLOGICAL ACTIVITIES OF SOME NEW PHOSPHORUS COMPOUNDS CONTAINING PYRANOPYRAZOLE MOIETY

**Author(s):** Ali, TE (Ali, Tarik E.); Assiri, MA (Assiri, Mohammed A.); El-Shaaer, HM (El-Shaaer, Hafez M.); Abed-Kariem, SM (Abed-Kariem, Somaia M.); Abdel-Monem, WR (Abdel-Monem, Wafaa R.); EL-Edfawy, SM (EL-Edfawy, Somaya M.); Hassanin, NM (Hassanin, Noha M.); Shati, AA (Shati, Ali A.); Alfaifi, MY (Alfaifi, Mohammad Y.); Elbehairi, SEI (Elbehairi, Serag Eldin, I)

**Source:** HETEROCYCLES **Volume:** 102 **Issue:** 6 **Pages:** 1119-1137 **DOI:** 10.3987/COM-21-14448 **Published:** 2021

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**Record 234 of 1000**

**Title:** Influence of CeO<sub>2</sub> loading on the catalytic performance of CoNiMoS/CeO<sub>2</sub>-Al<sub>2</sub>O<sub>3</sub> toward vacuum gas oil hydrotreatment

**Author(s):** Aboutaleb, WA (Aboutaleb, Wael A.); El Naggar, AMA (El Naggar, Ahmed M. A.); Sayed, MA (Sayed, Mohamed A.); Zahran, AI (Zahran, Asmaa, I); Ahmed, HS (Ahmed, Huda S.); Mekewi, MA (Mekewi, Mohamed A.); El-Zahhar, AA (El-Zahhar, Adel A.)

**Source:** MATERIALS CHEMISTRY AND PHYSICS **Volume:** 276 **Article Number:** 125165 **DOI:** 10.1016/j.matchemphys.2021.125165 **Early Access Date:** OCT 2021 **Published:** JAN 15 2022

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**Record 235 of 1000**

**Title:** Long-term stability test of elemental content in new environmental certified reference material candidates using ICP OES and ICP-SFMS

**Author(s):** Idris, AM (Idris, Abubakr M.); Alnajjar, AO (Alnajjar, Ahmed O.); Alkhuraiji, TS (Alkhuraiji, Turki S.); Fawy, KF (Fawy, Khaled F.)

**Source:** TOXIN REVIEWS **Volume:** 40 **Issue:** 4 **Pages:** 645-653 **DOI:** 10.1080/15569543.2019.1617315 **Published:** OCT 2 2021

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**Record 236 of 1000**

**Title:** Healing of water tree aged cables using rejuvenation nanofluid

**Author(s):** Zhou, K (Zhou, Kai); Yuan, H (Yuan, Hao); Akram, S (Akram, Shakeel); Meng, PF (Meng, Pengfei); Mahmood, A (Mahmood, Atif); Aamir, M (Aamir, M.); Imran, M (Imran, M.)

**Source:** POLYMER TESTING **Volume:** 102 **Article Number:** 107324 **DOI:** 10.1016/j.polymertesting.2021.107324 **Early Access Date:** SEP 2021 **Published:** OCT 2021

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**Record 237 of 1000**

**Title:** Knotting Two Donor- $\pi$ -Acceptor AIEgens Using a Nonconjugated Linker: Tunable and Switchable Fluorescence and Fingerprinting and Live Cell Imaging Applications

**Author(s):** Gayathri, P (Gayathri, Parthasarathy); Subramaniyan, SB (Subramaniyan, Siva Bala); Veerappan, A (Veerappan, Anbazhagan); Pannipara, M (Pannipara, Mehboobali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Moon, D (Moon, Dohyun); Anthony, SP (Anthony, Savarimuthu Philip)

**Source:** CRYSTAL GROWTH & DESIGN **Volume:** 22 **Issue:** 1 **Pages:** 633-642 **DOI:** 10.1021/acs.cgd.1c01177 **Early Access Date:** DEC 2021 **Published:** JAN 5 2022

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**Record 238 of 1000**

**Title:** Eigenfunction expansion method for peristaltic flow of hybrid nanofluid flow having single-walled carbon nanotube and multi-walled carbon nanotube in a wavy rectangular duct

**Author(s):** Nadeem, S (Nadeem, Sohail); Qadeer, S (Qadeer, Sabahat); Akhtar, S (Akhtar, Salman); El Shafey, AM (El Shafey, Asmaa Mohamed); Issakhov, A (Issakhov, Alibek)

**Source:** SCIENCE PROGRESS **Volume:** 104 **Issue:** 4 **Article Number:** 00368504211050292 **DOI:** 10.1177/00368504211050292 **Published:** OCT 2021

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### Record 239 of 1000

**Title:** Extensive removal of nitrogen and sulphur compounds from petroleum gas oil using novel intensified integrated eco-friendly adsorbents based on blends of polystyrene-Imidazole derivatives

**Author(s):** El Naggar, AMA (El Naggar, Ahmed M. A.); Zahran, A (Zahran, Asmaa, I); Aboutaleb, WA (Aboutaleb, Wael A.); Sayed, MA (Sayed, Mohamed A.); Ahmed, HS (Ahmed, Hoda S.); El-Zahhar, AA (El-Zahhar, Adel A.); Mekewi, MA (Mekewi, Mohamed A.)

**Source:** INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY **Volume:** 104 **Issue:** 1 **Pages:** 231-250 **DOI:** 10.1080/03067319.2021.2019723 **Early Access Date:** DEC 2021  
**Published:** JAN 2 2024

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### Record 240 of 1000

**Title:** Review on battery thermal management systems for energy-efficient electric vehicles

**Author(s):** Mali, V (Mali, Vima); Saxena, R (Saxena, Rajat); Kumar, K (Kumar, Kundan); Kalam, A (Kalam, Abul); Tripathi, B (Tripathi, Brijesh)

**Source:** RENEWABLE & SUSTAINABLE ENERGY REVIEWS **Volume:** 151 **Article Number:** 111611 **DOI:** 10.1016/j.rser.2021.111611 **Early Access Date:** SEP 2021 **Published:** NOV 2021

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### Record 241 of 1000

**Title:** Facile synthesis, characterization, and photoluminescence property of lanthanum incorporated TUD-1

**Author(s):** Al-Shehri, BM (Al-Shehri, Badria M.); Bawazeer, TM (Bawazeer, Tahani M.); Alsoufi, MS (Alsoufi, Mohammad S.); Shkir, M (Shkir, Mohd); Hamdy, MS (Hamdy, Mohamed S.)

**Source:** OPTIK **Volume:** 241 **Article Number:** 166925 **DOI:** 10.1016/j.ijleo.2021.166925 **Early Access Date:** MAY 2021 **Published:** SEP 2021

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### Record 242 of 1000

**Title:** Resveratrol ameliorates type 2 diabetes mellitus-induced alterations to the knee joint articular cartilage ultrastructure in rats

**Author(s):** El-Bidawy, MH (El-Bidawy, Mahmoud H.); Hussain, ABO (Hussain, Abo Bakr Omar); Al-Ghamdi, S (Al-Ghamdi, Sameer); Aldossari, KK (Aldossari, Khalid K.); Haidara, MA (Haidara, Mohamed A.); Al-Ani, B (Al-Ani, Bahjat)

**Source:** ULTRASTRUCTURAL PATHOLOGY **Volume:** 45 **Issue:** 2 **Pages:** 92-101 **DOI:** 10.1080/01913123.2021.1882629 **Early Access Date:** FEB 2021 **Published:** MAR 4 2021

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### Record 243 of 1000

**Title:** A novel BiVO<sub>3</sub>/SnO<sub>2</sub> step S-scheme nano-heterojunction for an enhanced visible light photocatalytic degradation of amaranth dye and hydrogen production

**Author(s):** Abd-Rabboh, HSM (Abd-Rabboh, Hisham S. M.); Galal, AH (Galal, A. H.); Aziz, RA (Aziz, Rafi Abdel); Ahmed, MA (Ahmed, M. A.)

**Source:** RSC ADVANCES **Volume:** 11 **Issue:** 47 **Pages:** 29507-29518 **DOI:** 10.1039/d1ra04717e **Published:** SEP 14 2021

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### Record 244 of 1000

**Title:** Label-Free Electrochemical Sensor Based on Manganese Doped Titanium Dioxide Nanoparticles for Myoglobin Detection: Biomarker for Acute Myocardial Infarction

**Author(s):** Al Fatease, A (Al Fatease, Adel); Haque, M (Haque, Mazharul); Umar, A (Umar, Ahmad); Ansari, SG (Ansari, Shafeeqe G.); Alhamhoom, Y (Alhamhoom, Yahya); Bin Muhsinah, A (Bin Muhsinah, Abdullatif); Mahnashi, MH (Mahnashi, Mater H.); Guo, WJ (Guo, Wenjuan); Ansari, ZA (Ansari, Zubaida A.)

**Source:** MOLECULES **Volume:** 26 **Issue:** 14 **Article Number:** 4252 **DOI:** 10.3390/molecules26144252 **Published:** JUL 2021

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### Record 245 of 1000

**Title:** Healing of water tree aged cables using rejuvenation nanofluid (vol 102, pg 107324, 2021)

**Author(s):** Yuan, H (Yuan, Hao); Akram, S (Akram, Shakeel); Zhou, K (Zhou, Kai); Meng, PF (Meng, Pengfei); Mahmood, A (Mahmood, Atif); Aamir, M (Aamir, M.); Imran, M (Imran, M.)

**Source:** POLYMER TESTING **Volume:** 104 **Article Number:** 107345 **DOI:** 10.1016/j.polymertesting.2021.107345 **Early Access Date:** NOV 2021 **Published:** DEC 2021

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#### Record 246 of 1000

**Title:** Synthesis and *in vitro* antimicrobial, antioxidant, and antiproliferative activities of some new pyrano[2,3-*c*]pyrazoles containing 1,2-azaphospholes, 1,3,2-diazaphosphinines and phosphonate moieties

**Author(s):** Ali, TE (Ali, Tarik E.); Assiri, MA (Assiri, Mohammed A.); El-Shaaer, HM (El-Shaaer, Hafez M.); Abdel-Kariem, SM (Abdel-Kariem, Somaia M.); Abdel-Monem, WR (Abdel-Monem, Wafaa R.); El-Edfawy, SM (El-Edfawy, Somaya M.); Hassanin, NM (Hassanin, Noha M.); Shati, AA (Shati, Ali A.); Alfaifi, MY (Alfaifi, Mohammad Y.); Elbehairi, SEI (Elbehairi, Serag Eldin, I)

**Source:** SYNTHETIC COMMUNICATIONS **Volume:** 51 **Issue:** 16 **Pages:** 2478-2497 **DOI:** 10.1080/00397911.2021.1939059 **Early Access Date:** JUN 2021 **Published:** AUG 18 2021

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#### Record 247 of 1000

**Title:** Fabrication and Physicochemical Study of B2SA-Grafted Poly(vinyl Alcohol)-Graphene Hybrid Membranes for Dehydration of Bioethanol by Pervaporation

**Author(s):** Kalahal, PB (Kalahal, Prakash B.); Kulkarni, AS (Kulkarni, Akshay S.); Sajjan, AM (Sajjan, Ashok M.); Khan, TMY (Khan, T. M. Yunus); Badruddin, IA (Anjum Badruddin, Irfan); Kamangar, S (Kamangar, Sarfaraz); Banapurmath, NR (Banapurmath, Nagaraj R.); Ayachit, NH (Ayachit, Narasimha H.); Naik, ML (Naik, Manu L.); Marakatti, VS (Marakatti, Vijaykumar S.)

**Source:** MEMBRANES **Volume:** 11 **Issue:** 2 **Article Number:** 110 **DOI:** 10.3390/membranes11020110 **Published:** FEB 2021

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#### Record 248 of 1000

**Title:** Antibacterial and UV Protection Properties of Modified Cotton Fabric Using a Curcumin/TiO<sub>2</sub> Nanocomposite for Medical Textile Applications

**Author(s):** Abd El-Hady, MM (Abd El-Hady, M. M.); Farouk, A (Farouk, A.); Saeed, SE (Saeed, S. El-Sayed); Zaghloul, S (Zaghloul, S.)

**Source:** POLYMERS **Volume:** 13 **Issue:** 22 **Article Number:** 4027 **DOI:** 10.3390/polym13224027 **Published:** NOV 2021

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#### Record 249 of 1000

**Title:** Molecular structure controlled self-assembly of pyridine appended fluorophores: multi-stimuli fluorescence responses and fabricating rewritable/self-erasable fluorescent platforms

**Author(s):** Gayathri, P (Gayathri, Parthasarathy); Pannipara, M (Pannipara, Mehboobali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Moon, D (Moon, Dohyun); Anthony, SP (Anthony, Savarimuthu Philip)

**Source:** MATERIALS ADVANCES **Volume:** 2 **Issue:** 3 **Pages:** 996-1005 **DOI:** 10.1039/d0ma00736f **Published:** FEB 7 2021

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#### Record 250 of 1000

**Title:** Unveiling pharmacological studies provide new insights on *Mangifera longipes* and *Quercus gomeziana*

**Author(s):** Guha, B (Guha, Bishwajit); Arman, M (Arman, Mohammad); Islam, MN (Islam, Mohammad Nazmul); Tareq, SM (Tareq, Syed Mohammed); Rahman, MM (Rahman, Md Masudur); Sakib, SA (Sakib, Shahenur Alam); Mutsuddy, R (Mutsuddy, Rahul); Tareq, A (Tareq, Abu Montakim); Bin Emran, T (Bin Emran, Talha); Alqahtani, AM (Alqahtani, Ali M.)

**Source:** SAUDI JOURNAL OF BIOLOGICAL SCIENCES **Volume:** 28 **Issue:** 1 **Pages:** 183-190 **DOI:** 10.1016/j.sjbs.2020.09.037 **Published:** JAN 2021

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#### Record 251 of 1000

**Title:** Fabrication of transition-metal (Zn, Mn, Cu)-based MOFs as efficient sensor materials for detection of H<sub>2</sub> gas by clad modified fiber optic gas sensor technique

**Author(s):** Meeran, MN (Meeran, M. Nagoor); Saravanan, SP (Saravanan, S. P.); Shkir, M (Shkir, Mohd); Kannan, SK (Kannan, S. Karthik)

**Source:** OPTICAL FIBER TECHNOLOGY **Volume:** 65 **Article Number:** 102614 **DOI:** 10.1016/j.yofte.2021.102614 **Early Access Date:** JUN 2021 **Published:** SEP 2021

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#### **Record 252 of 1000**

**Title:** A CONVENIENT SYNTHESIS OF NOVEL 6-ARYL-5-PHENYL-5-OXIDO-6,7-DIHYDRO[1,3,4,2]THIADIAZAPHOSPHOLO[5,4-*c*][1,2,4,5]-TRIAZAPHOSPHININES

**Author(s):** Ali, TE (Ali, Tarik E.); Assiri, MA (Assiri, Mohammed A.); Alzahrani, AY (Alzahrani, Abdullah Y.); Salem, MA (Salem, Mohamed A.)

**Source:** HETEROCYCLES **Volume:** 102 **Issue:** 10 **Pages:** 2019-2026 **DOI:** 10.3987/COM-21-14515 **Published:** 2021

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#### **Record 253 of 1000**

**Title:** Effect of cationic, anionic, and mixed surfactant role on manganese oxide nanoparticles for energy storage applications

**Author(s):** Isacfranklin, M (Isacfranklin, M.); Yuvakkumar, R (Yuvakkumar, R.); Ravi, G (Ravi, G.); Babu, ES (Babu, E. Sunil); Pannipara, M (Pannipara, Mehboobali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Velauthapillai, D (Velauthapillai, Dhayalan)

**Source:** APPLIED NANOSCIENCE **Volume:** 11 **Issue:** 5 **Pages:** 1769-1775 **DOI:** 10.1007/s13204-021-01829-0 **Early Access Date:** APR 2021 **Published:** MAY 2021

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#### **Record 254 of 1000**

**Title:** Growth of ZnSe<sub>x</sub>O<sub>1-x</sub> Nanorods and Their Photoelectrochemical Properties

**Author(s):** Swathi, S (Swathi, Srinivasan); Babu, ES (Babu, Eadi Sunil); Yuvakkumar, R (Yuvakkumar, Rathinam); Ravi, G (Ravi, Ganesan); Pannipara, M (Pannipara, Mehboobali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Velauthapillai, D (Velauthapillai, Dhayalan)

**Source:** ENERGY & FUELS **Volume:** 35 **Issue:** 7 **Pages:** 6289-6297 **DOI:** 10.1021/acs.energyfuels.0c04280 **Early Access Date:** MAR 2021 **Published:** APR 1 2021

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#### **Record 255 of 1000**

**Title:** Design and preparation of NiCoS nanostructures on Ni foam for high-performance asymmetric supercapacitor application

**Author(s):** Prabakaran, P (Prabakaran, P.); Prabhu, S (Prabhu, S.); Selvaraj, M (Selvaraj, M.); Navaneethan, M (Navaneethan, M.); Ramu, P (Ramu, P.); Ramesh, R (Ramesh, R.)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 33 **Issue:** 12 **Special Issue:** SI **Pages:** 9256-9268 **DOI:** 10.1007/s10854-021-07251-0 **Early Access Date:** OCT 2021 **Published:** APR 2022

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#### **Record 256 of 1000**

**Title:** Selective detection of sulfur trioxide in the presence of environmental gases by AlN nanotube

**Author(s):** Menazea, AA (Menazea, A. A.); Awwad, NS (Awwad, Nasser S.); Ibrahim, HA (Ibrahim, Hala A.); Ebaid, G (Ebaid, Ghaffar); Ali, HE (Elhosiny Ali, H.)

**Source:** JOURNAL OF SULFUR CHEMISTRY **Volume:** 43 **Issue:** 3 **Pages:** 290-303 **DOI:** 10.1080/17415993.2021.2016764 **Early Access Date:** DEC 2021 **Published:** MAY 4 2022

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#### **Record 257 of 1000**

**Title:** Structural aspects, reactivity analysis, wavefunction based properties, cluster formation with helicene and subsequent detection from surface enhancement in Raman spectra of triclabendazole studies using first principle simulations

**Author(s):** Pooventhiran, T (Pooventhiran, T.); Thomas, R (Thomas, Renjith); Bhattacharyya, U (Bhattacharyya, Utsab); Sowrirajan, S (Sowrirajan, S.); Irfan, A (Irfan, Ahmad); Rao, DJ (Rao, D. Jagadeeswara)

**Source:** VIETNAM JOURNAL OF CHEMISTRY **Volume:** 59 **Issue:** 6 **Pages:** 887-901 **DOI:** 10.1002/vjch.202100067 **Published:** DEC 2021

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#### **Record 258 of 1000**

**Title:** Kinematic modelisation and parametric study of mechanosynthesis of hydroxyfluorapatite

**Author(s):** Hajji, H (Hajji, Hanen); Abdellaoui, M (Abdellaoui, Mohieddine); Maurizi, L (Maurizi, Lionel); Nasr, S (Nasr, Samia); Millot, N (Millot, Nadine); Ben Salem, E (Ben Salem, Ezzedine)

**Source:** ADVANCED POWDER TECHNOLOGY **Volume:** 32 **Issue:** 10 **Pages:** 3585-3600 **DOI:** 10.1016/j.appt.2021.08.013 **Early Access Date:** SEP 2021 **Published:** OCT 2021

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#### **Record 259 of 1000**

**Title:** Selective separation of Yttrium and Uranium from Xenotime Concentrate

**Author(s):** Ibrahim, HA (Ibrahim, Hala A.); Gado, MA (Gado, Mohamed A.); Awwad, NS (Awwad, Nasser S.); Fathy, WM (Fathy, Wael M.)

**Source:** ZEITSCHRIFT FUR ANORGANISCHE UND ALLGEMEINE CHEMIE **Volume:** 647 **Issue:** 15 **Pages:** 1568-1577 **DOI:** 10.1002/zaac.202100118 **Early Access Date:** JUN 2021 **Published:** AUG 12 2021

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#### **Record 260 of 1000**

**Title:** Development of mesoporous Bi<sub>2</sub>WO<sub>6</sub>/g-C<sub>3</sub>N<sub>4</sub> heterojunctions via soft- and hard-template-assisted procedures for accelerated and reinforced photocatalytic reduction of mercuric cations under vis light irradiation (vol 47, pg 5003, 2021)

**Author(s):** Al-Namshah, KS (Al-Namshah, K. S.); Mohamed, RM (Mohamed, R. M.)

**Source:** CERAMICS INTERNATIONAL **Volume:** 47 **Issue:** 13 **Pages:** 19268-19268 **DOI:** 10.1016/j.ceramint.2021.03.185 **Early Access Date:** MAY 2021 **Published:** JUL 1 2021

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#### **Record 261 of 1000**

**Title:** Photon, proton, and neutron shielding capacity of optical tellurite-vanadate glass systems: Theoretical investigation

**Author(s):** Rammah, YS (Rammah, Yasser S.); Olarinoye, IO (Olarinoye, I. O.); El-Agawany, FI (El-Agawany, Fouad I.); El-Adawy, A (El-Adawy, Amin); Yousef, E (Yousef, El Sayed)

**Source:** RADIATION PHYSICS AND CHEMISTRY **Volume:** 184 **Article Number:** 109443 **DOI:** 10.1016/j.radphyschem.2021.109443 **Early Access Date:** MAR 2021 **Published:** JUL 2021

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#### **Record 262 of 1000**

**Title:** Adsorption and Corrosion Inhibition Behaviour of Oil Extracted from *Moringa peregrina* leaves for Carbon Steel in Acidic Media: Experimental and Computational Studies

**Author(s):** Ali, IH (Ali, Ismat H.); Khan, MI (Khan, Mohammad, I); Alraih, AM (Alraih, Alhafez M.); Almesfer, MK (Almesfer, Mohammed K.); Elkhaleefa, A (Elkhaleefa, Abubakr); Dmour, SM (Dmour, Saif M.); Rehan, M (Rehan, Mohammad)

**Source:** INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE **Volume:** 16 **Issue:** 8 **Article Number:** 210842 **DOI:** 10.20964/2021.08.49 **Published:** AUG 2021

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#### **Record 263 of 1000**

**Title:** Anti-microbial activity, molecular profiling, electronic properties and molecular docking investigations of 5-[1-hydroxy-2-(isopropylamino)ethyl] benzene-1,3-diol

**Author(s):** Chithra, S (Chithra, S.); Mani, G (Mani, G.); Kumar, M (Kumar, M.); Muthu, S (Muthu, S.); Saral, A (Saral, A.); Asif, FB (Asif, Fazilath Basha); Irfan, A (Irfan, Ahmad)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1247 **Article Number:** 131299 **DOI:** 10.1016/j.molstruc.2021.131299 **Early Access Date:** AUG 2021 **Published:** JAN 5 2022

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#### **Record 264 of 1000**



**Title:** Novel W-Shaped Oxygen Heterocycle-Fused Fluorene-Based Non-Fullerene Acceptors: First Theoretical Framework for Designing Environment-Friendly Organic Solar Cells

**Author(s):** Khan, MU (Khan, Muhammad Usman); Khalid, M (Khalid, Muhammad); Hussain, R (Hussain, Riaz); Umar, A (Umar, Ali); Mehboob, MY (Mehboob, Muhammad Yasir); Shafiq, Z (Shafiq, Zahid); Imran, M (Imran, Muhammad); Irfan, A (Irfan, Ahmad)

**Source:** ENERGY & FUELS **Volume:** 35 **Issue:** 15 **Pages:** 12436-12450 **DOI:** 10.1021/acs.energyfuels.1c01582 **Early Access Date:** JUL 2021 **Published:** AUG 5 2021

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#### Record 265 of 1000

**Title:** Designing and Encapsulation of Inorganic Al<sub>12</sub>N<sub>12</sub> Nanoclusters with Be, Mg, and Ca Metals for Efficient Hydrogen Adsorption: A Step Forward Towards Hydrogen Storage Materials

**Author(s):** Mehboob, MY (Mehboob, Muhammad Yasir); Hussain, R (Hussain, Riaz); Irshad, Z (Irshad, Zobia); Farwa, U (Farwa, Ume); Adnan, M (Adnan, Muhammad); Muhammad, S (Muhammad, Shabbir)

**Source:** JOURNAL OF COMPUTATIONAL BIOPHYSICS AND CHEMISTRY **Volume:** 20 **Issue:** 07 **Pages:** 687-705 **DOI:** 10.1142/S2737416521500411 **Published:** NOV 2021

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#### Record 266 of 1000

**Title:** Experimental and theoretical studies of the structural, vibrational and optical properties of a new hybrid material (C<sub>5</sub>H<sub>6</sub>N<sub>2</sub>Cl)<sub>2</sub> SiF<sub>6</sub>

**Author(s):** Braiek, F (Braiek, Faycel); Elleuch, S (Elleuch, Slim); Marzouki, R (Marzouki, Riadh); Graia, M (Graia, Mohsen)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1232 **Article Number:** 129990 **DOI:** 10.1016/j.molstruc.2021.129990 **Early Access Date:** FEB 2021 **Published:** MAY 15 2021

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#### Record 267 of 1000

**Title:** Thermodynamic and solubilization properties of a polynuclear copper complex in ionic surfactants media

**Author(s):** Akhtar, MN (Akhtar, Muhammad Nadeem); Noor, S (Noor, Sadia); Taj, MB (Taj, Muhammad Babar); Khalid, M (Khalid, Muhammad); Imran, M (Imran, Muhammad)

**Source:** JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY **Volume:** 43 **Issue:** 1 **Pages:** 147-155 **DOI:** 10.1080/01932691.2021.1929291 **Early Access Date:** MAY 2021 **Published:** 2022

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#### Record 268 of 1000

**Title:** Efficient Pd(ii)-catalyzed regioselective *ortho*-halogenation of arylcyanamides

**Author(s):** Boddapati, SNM (Boddapati, S. N. Murthy); Tamminana, R (Tamminana, Ramana); Alam, MM (Alam, M. Mujahid); Gugulothu, S (Gugulothu, Sailaja); Varala, R (Varala, Ravi); Bollikolla, HB (Bollikolla, Hari Babu)

**Source:** NEW JOURNAL OF CHEMISTRY **Volume:** 45 **Issue:** 37 **Pages:** 17176-17182 **DOI:** 10.1039/d1nj01998h **Early Access Date:** AUG 2021 **Published:** OCT 7 2021

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#### Record 269 of 1000

**Title:** Au@Ag core/shell nanoparticles prepared by laser-assisted method for optical limiting applications

**Author(s):** Mostafa, AM (Mostafa, Ayman M.); Mwafy, EA (Mwafy, Eman A.); Awwad, NS (Awwad, Nasser S.); Ibrahim, HA (Ibrahim, Hala A.)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 32 **Issue:** 11 **Pages:** 14728-14739 **DOI:** 10.1007/s10854-021-06028-9 **Early Access Date:** MAY 2021 **Published:** JUN 2021

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#### Record 270 of 1000

**Title:** Development of morphology tuned SnS hierarchical structures for enhanced photosensitive photodiode fabrication

**Author(s):** Abhiram, N (Abhiram, N.); Thangaraju, D (Thangaraju, D.); Marnadu, R (Marnadu, R.); Gunasekaran, S (Gunasekaran, S.); Santhana, V (Santhana, V.); Chandrasekaran, J (Chandrasekaran, J.); Devi, NSMPL (Devi, N. S. M. P. Latha); Shkir, M (Shkir, Mohd.); AlFaify, S (AlFaify, S.)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 129 **Article Number:** 108623 **DOI:** 10.1016/j.inoche.2021.108623 **Early Access Date:** APR 2021 **Published:** JUL 2021

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#### **Record 271 of 1000**

**Title:** Palladium-catalyzed synthesis of 5-(arylated) pyrimidines, their characterization, electronic communication, and non-linear optical evaluations

**Author(s):** Khan, I (Khan, Ilham); Khalid, M (Khalid, Muhammad); Adeel, M (Adeel, Muhammad); Niaz, SI (Niaz, Shah Irum); Shafiq, I (Shafiq, Iqra); Muhammad, S (Muhammad, Shabbir); Braga, AAC (Carmo Braga, Ataulpa Albert)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1237 **Article Number:** 130408 **DOI:** 10.1016/j.molstruc.2021.130408 **Early Access Date:** APR 2021 **Published:** AUG 5 2021

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#### **Record 272 of 1000**

**Title:** Catalytic activity of Ag nanoparticles and Au/Ag nanocomposite prepared by pulsed laser ablation technique against 4-nitrophenol for environmental applications

**Author(s):** Mostafa, AM (Mostafa, Ayman M.); Mwafy, EA (Mwafy, Eman A.); Awwad, NS (Awwad, Nasser S.); Ibrahim, HA (Ibrahim, Hala A.)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 32 **Issue:** 9 **Pages:** 11978-11988 **DOI:** 10.1007/s10854-021-05827-4 **Early Access Date:** APR 2021 **Published:** MAY 2021

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#### **Record 273 of 1000**

**Title:** Synthesis of chelating N-hydroxyl amine derivative and its application for vanadium separation from Abu Zeneima ferruginous siltstone ore, Southwestern Sinai, Egypt

**Author(s):** Ibrahim, HA (Ibrahim, Hala A.); Gado, MA (Gado, Mohamed A.); Ali, HE (Elhosiny Ali, H.); Fathy, WM (Fathy, Wael M.); Atia, BM (Atia, Bahig M.); Awwad, NS (Awwad, Nasser S.)

**Source:** INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY **Volume:** 103 **Issue:** 19 **Pages:** 8496-8518 **DOI:** 10.1080/03067319.2021.1987425 **Early Access Date:** OCT 2021 **Published:** DEC 26 2023

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#### **Record 274 of 1000**

**Title:** Dielectric barrier plasma effect on surface functionality and coating properties of ultrasonically coated cotton with ZnO nanoparticles and Aloe vera extraction

**Author(s):** Haq, IU (Haq, I. U.); Naz, MY (Naz, M. Y.); Shukrullah, S (Shukrullah, S.); Anwar, M (Anwar, M.); Ullah, S (Ullah, S.); Al-Sehemi, AG (Al-Sehemi, A. G.); Irshad, MI (Irshad, M. I.)

**Source:** CHEMICAL PAPERS **Volume:** 76 **Issue:** 2 **Pages:** 889-900 **DOI:** 10.1007/s11696-021-01909-z **Early Access Date:** OCT 2021 **Published:** FEB 2022

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#### **Record 275 of 1000**

**Title:** TiO<sub>2</sub>-nanoparticles enhances the structure and optical behaviors of PMMA/glass polymeric films: Kramers-Kronig analysis

**Author(s):** AlAbdulaal, TH (AlAbdulaal, T. H.); Yahia, IS (Yahia, I. S.)

**Source:** PHYSICA SCRIPTA **Volume:** 96 **Issue:** 3 **Article Number:** 035801 **DOI:** 10.1088/1402-4896/abcef7 **Published:** MAR 2021

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#### **Record 276 of 1000**

**Title:** Hybrid multifunctional core/shell g-C<sub>3</sub>N<sub>4</sub>@TiO<sub>2</sub> heterojunction nano-catalytic for photodegradation of organic dye and pharmaceutical compounds

**Author(s):** Hussien, MSA (Hussien, Mai S. A.); Yahia, IS (Yahia, Ibrahim S.)

**Source:** ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH **Volume:** 28 **Issue:** 23 **Pages:** 29665-29680 **DOI:** 10.1007/s11356-021-12680-9 **Early Access Date:** FEB 2021 **Published:** JUN 2021

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#### **Record 277 of 1000**

**Title:** Synthesis and Evaluation of 5-imino-4-thioxoimidazolidin-2-one Derivatives as Antibacterial and Antifungal Agents

**Author(s):** Abbas, SY (Abbas, Samir Y.); El-Sharief, MAMS (El-Sharief, Marwa A. M. Sh); Al-Harbi, RAK (Al-Harbi, Reem A. K.); El-Gammal, EW (El-Gammal, Eman W.); El-Sharief, AMS (El-Sharief, Ahmed M. S.)

**Source:** MEDICINAL CHEMISTRY **Volume:** 17 **Issue:** 6 **Pages:** 638-645 **DOI:** 10.2174/1573406416666191227112648 **Published:** 2021

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#### Record 278 of 1000

**Title:** Synthesis and Biological Evaluation of Chromen-2-One and Chromen-2-Imine Derivatives Bearing Aryldiazenyl Moiety as Expected Antimicrobial Agents

**Author(s):** Salem, MA (Salem, Mohamed A.); Abbas, SY (Abbas, Samir Y.); Helal, MH (Helal, Mohamed H.); Alzahrani, AY (Alzahrani, Abdullah Y.)

**Source:** POLYCYCLIC AROMATIC COMPOUNDS **Volume:** 43 **Issue:** 2 **Pages:** 1081-1091 **DOI:** 10.1080/10406638.2021.2024583 **Early Access Date:** DEC 2021 **Published:** FEB 7 2023

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#### Record 279 of 1000

**Title:** Ab-initio study of lead-free double Perovskites Cs<sub>2</sub>AgZBr<sub>6</sub> (Z = Bi, Sb) for Solar cells and other renewable energy applications

**Author(s):** Mukhtar, MW (Mukhtar, Muhammad Waqas); Ramzan, M (Ramzan, M.); Rashid, M (Rashid, Muhammad); Hussain, A (Hussain, Altaf); Imran, M (Imran, Muhammad); Fahim, F (Fahim, Farah); Neffati, R (Neffati, R.)

**Source:** JOURNAL OF SOLID STATE CHEMISTRY **Volume:** 306 **Article Number:** 122781 **DOI:** 10.1016/j.jssc.2021.122781 **Early Access Date:** DEC 2021 **Published:** FEB 2022

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#### Record 280 of 1000

**Title:** Structural, electronic and optical properties of M-doped anatase TiO<sub>2</sub> (M= Fe or Au): A first principle investigation

**Author(s):** Saidi, F (Saidi, F.); Mahmoudi, A (Mahmoudi, A.); Laidi, K (Laidi, K.); Hidouri, T (Hidouri, T.); Nasr, S (Nasr, S.)

**Source:** COMPUTATIONAL CONDENSED MATTER **Volume:** 28 **Article Number:** e00576 **DOI:** 10.1016/j.cocom.2021.e00576 **Early Access Date:** JUL 2021 **Published:** SEP 2021

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#### Record 281 of 1000

**Title:** Water resources pollution associated with risks of heavy metals from Vatukoula Goldmine region, Fiji

**Author(s):** Kumar, S (Kumar, Satendra); Islam, AMT (Islam, Abu Reza Md Towfiqul); Islam, HMT (Islam, H. M. Touhidul); Hasanuzzaman, M (Hasanuzzaman, Md); Ongoma, V (Ongoma, Victor); Khan, R (Khan, Rahat); Mallick, J (Mallick, Javed)

**Source:** JOURNAL OF ENVIRONMENTAL MANAGEMENT **Volume:** 293 **Article Number:** 112868 **DOI:** 10.1016/j.jenvman.2021.112868 **Early Access Date:** JUN 2021 **Published:** SEP 1 2021

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#### Record 282 of 1000

**Title:** TiO<sub>2</sub>-CeO<sub>2</sub>/g-C<sub>3</sub>N<sub>4</sub> S-scheme heterostructure composite for enhanced photo-degradation and hydrogen evolution performance with combined experimental and DFT study

**Author(s):** Vignesh, S (Vignesh, Shanmugam); Chandrasekaran, S (Chandrasekaran, Sharmila); Srinivasan, M (Srinivasan, Manickam); Anbarasan, R (Anbarasan, Radhakrishnan); Perumalsamy, R (Perumalsamy, Ramasamy); Arumugam, E (Arumugam, Elangovan); Shkir, M (Shkir, Mohd); Algarni, H (Algarni, H.); AlFaify, S (AlFaify, S.)

**Source:** CHEMOSPHERE **Volume:** 288 **Article Number:** 132611 **DOI:** 10.1016/j.chemosphere.2021.132611 **Early Access Date:** DEC 2021 **Part:** 3 **Published:** FEB 2022

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#### Record 283 of 1000

**Title:** Synthesis of Novel Tridentate 5-Arylazosalicylaldehyde Thiosemicarbazone Derivatives and Their Complexes with Copper(II)

**Author(s):** Salem, MA (Salem, M. A.); Abbas, SY (Abbas, S. Y.); Darwish, SA (Darwish, S. A.); Helal, MH (Helal, M. H.); Aish, EH (Aish, E. H.)

**Source:** RUSSIAN JOURNAL OF GENERAL CHEMISTRY **Volume:** 91 **Issue:** 8 **Pages:** 1578-1583 **DOI:** 10.1134/S1070363221080211 **Published:** AUG 2021

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#### **Record 284 of 1000**

**Title:** Bi<sub>2</sub>WO<sub>6</sub> nanoflakes incorporated carbon nanofibers to control biological and chemical pollutants: bifunctional application

**Author(s):** Hassan, MS (Hassan, M. Shamshi); Tirth, V (Tirth, Vineet); Alorabi, AQ (Alorabi, Ali Q.); Khan, F (Khan, Firoz); Algahtani, A (Algahtani, Ali); Amna, T (Amna, Touseef)

**Source:** CHEMICAL ENGINEERING COMMUNICATIONS **Volume:** 209 **Issue:** 6 **Pages:** 844-851 **DOI:** 10.1080/00986445.2021.1922892 **Early Access Date:** APR 2021 **Published:** JUN 3 2022

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#### **Record 285 of 1000**

**Title:** Development of mesoporous Bi<sub>2</sub>WO<sub>6</sub>/g-C<sub>3</sub>N<sub>4</sub> heterojunctions via soft- and hard-template-assisted procedures for accelerated and reinforced photocatalytic reduction of mercuric cations under vis light irradiation

**Author(s):** Al-Namshah, KS (Al-Namshah, K. S.); Mohamed, RM (Mohamed, R. M.)

**Source:** CERAMICS INTERNATIONAL **Volume:** 47 **Issue:** 4 **Pages:** 5003-5012 **DOI:** 10.1016/j.ceramint.2020.10.076 **Early Access Date:** JAN 2021 **Published:** FEB 15 2021

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#### **Record 286 of 1000**

**Title:** Molecular structure spectroscopic Elucidation, IEFPCM solvation (UV-Vis, MEP, FMO, NBO, NLO), molecular docking and biological assessment studies of lepidine (4-Methylquinoline)

**Author(s):** Saral, A (Saral, A.); Sudha, P (Sudha, P.); Muthu, S (Muthu, S.); Sevvanthi, S (Sevvanthi, S.); Irfan, A (Irfan, Ahmad)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 345 **Article Number:** 118249 **DOI:** 10.1016/j.molliq.2021.118249 **Early Access Date:** DEC 2021 **Published:** JAN 1 2022

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#### **Record 287 of 1000**

**Title:** Computational investigation, comparative approaches, molecular structural, vibrational spectral, non-covalent interaction (NCI), and electron excitations analysis of benzodiazepine derivatives

**Author(s):** Sarala, S (Sarala, S.); Geetha, SK (Geetha, S. K.); Muthu, S (Muthu, S.); Irfan, A (Irfan, Ahmad)

**Source:** JOURNAL OF MOLECULAR MODELING **Volume:** 27 **Issue:** 9 **Article Number:** 266 **DOI:** 10.1007/s00894-021-04877-z **Published:** SEP 2021

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#### **Record 288 of 1000**

**Title:** Spectroscopic (FT-IR, FT-Raman, UV-Visible), Quantum Mechanical Based Computational Studies and Molecular Docking Analysis of 2-Amino-3,5-dichloropyridine

**Author(s):** Selvakumari, S (Selvakumari, S.); Venkataraju, C (Venkataraju, C.); Muthu, S (Muthu, S.); Irfan, A (Irfan, Ahmad); Sevvanthi, S (Sevvanthi, S.); Asif, FB (Asif, Fazilath Basha)

**Source:** ANALYTICAL CHEMISTRY LETTERS **Volume:** 11 **Issue:** 6 **Pages:** 848-861 **DOI:** 10.1080/22297928.2021.1981440 **Published:** NOV 2 2021

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#### **Record 289 of 1000**

**Title:** Corrosion Characterization at Surface and Subsurface of Iron-Based Buried Water Pipelines

**Author(s):** Yeshanew, DA (Yeshanew, Dessalegn Ahmed); Jiru, MG (Jiru, Moera Gutu); Ahmed, GMS (Ahmed, Gulam Mohammed Sayeed); Badruddin, IA (Badruddin, Irfan Anjum); Soudagar, MEM (Soudagar, Manzoore Elahi M.); Kamangar, S (Kamangar, Sarfaraz); Tolcha, MA (Tolcha, Mesay Alemu)

**Source:** MATERIALS **Volume:** 14 **Issue:** 19 **Article Number:** 5877 **DOI:** 10.3390/ma14195877 **Published:** OCT 2021

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#### **Record 290 of 1000**

**Title:** An effective green one-pot synthesis of some novel 5-(thiophene-2-carbonyl)-6-(trifluoromethyl)pyrano[2,3-*c*]pyrazoles and 6-(thiophene-2-carbonyl)-7-(trifluoromethyl)pyrano[2,3-*d*]pyrimidines bearing chromone ring as anticancer agents

**Author(s):** Ali, TE (Ali, Tarik E.); Assiri, MA (Assiri, Mohammed A.); Alzahrani, AY (Alzahrani, Abdullah Y.); Salem, MA (Salem, Mohamed A.); Shati, AA (Shati, Ali A.); Alfaifi, MY (Alfaifi, Mohammad Y.); Elbehairi, SEI (Elbehairi, Serag Eldin, I)

**Source:** SYNTHETIC COMMUNICATIONS **Volume:** 51 **Issue:** 21 **Pages:** 3267-3276 **DOI:** 10.1080/00397911.2021.1966804 **Early Access Date:** SEP 2021 **Published:** NOV 2 2021

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### Record 291 of 1000

**Title:** Recent developments in investigating reaction chemistry and transport effects in biomass fast pyrolysis: A review

**Author(s):** Ansari, KB (Ansari, Khursheed B.); Kamal, B (Kamal, Bushra); Beg, S (Beg, Sidra); Khan, MAW (Khan, Md. Aquib Wakeel); Khan, MS (Khan, Mohd Shariq); Al Mesfer, MK (Al Mesfer, Mohammed K.); Danish, M (Danish, Mohd.)

**Source:** RENEWABLE & SUSTAINABLE ENERGY REVIEWS **Volume:** 150 **Article Number:** 111454 **DOI:** 10.1016/j.rser.2021.111454 **Early Access Date:** JUL 2021 **Published:** OCT 2021

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### Record 292 of 1000

**Title:** Cobalt coordination controlled carbon nanospheres formation and inclusion of amorphous Co<sub>3</sub>O<sub>4</sub> and AuNPs: strongly enhanced oxygen evolution reaction with excellent mass activity

**Author(s):** Muthukumar, P (Muthukumar, Pandi); Narasimhan, S (Narasimhan, Shreya); Selvam, AP (Selvam, Arunprasanth Panneer); Mariappan, M (Mariappan, Mariappan); Assiri, MA (Assiri, Mohammed A.); Anthony, SP (Anthony, Savarimuthu Philip)

**Source:** DALTON TRANSACTIONS **Volume:** 50 **Issue:** 30 **Pages:** 10493-10500 **DOI:** 10.1039/d1dt01649k **Early Access Date:** JUL 2021 **Published:** AUG 14 2021

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### Record 293 of 1000

**Title:** Eco-friendly synthesis of g-carbon nitride coated graphene nanocomposites for superior visible photodegradation of hydroquinone: Physicochemical mechanisms and photo-Fenton effect

**Author(s):** Sabry, N (Sabry, N.); Hussien, MSA (Hussien, Mai S. A.); Yahia, IS (Yahia, I. S.)

**Source:** JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY **Volume:** 426 **Article Number:** 113734 **DOI:** 10.1016/j.jphotochem.2021.113734 **Early Access Date:** DEC 2021 **Published:** APR 1 2022

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### Record 294 of 1000

**Title:** Synthesis of r-GO-incorporated CoWO<sub>4</sub> nanostructure for high-performance supercapattery applications

**Author(s):** Prabakaran, P (Prabakaran, P.); Prabhu, S (Prabhu, S.); Selvaraj, M (Selvaraj, M.); Navaneethan, M (Navaneethan, M.); Ramu, P (Ramu, P.); Ramesh, R (Ramesh, R.)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 33 **Issue:** 12 **Special Issue:** SI **Pages:** 9312-9323 **DOI:** 10.1007/s10854-021-07297-0 **Early Access Date:** NOV 2021 **Published:** APR 2022

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### Record 295 of 1000

**Title:** Metabolomic Profiling of *Sansevieria trifasciata* hort ex. Prain Leaves and Roots by HPLC-PAD-ESI/MS and its Hepatoprotective Effect via Activation of the NRF2/ARE Signaling Pathway in an Experimentally Induced Liver Fibrosis Rat Model

**Author(s):** Raslan, MA (Raslan, M. A.); Abdel-Rahman, RF (Abdel-Rahman, R. F.); Fayed, HM (Fayed, H. M.); Ogaly, HA (Ogaly, H. A.); Taher, RF (Taher, R. F.)

**Source:** EGYPTIAN JOURNAL OF CHEMISTRY **Volume:** 64 **Issue:** 11 **Pages:** 6647-6671 **DOI:** 10.21608/EJCHEM.2021.78970.3877 **Published:** NOV 2021

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### Record 296 of 1000

**Title:** CuCo<sub>2</sub>O<sub>4</sub> nanoparticles wrapped in a rGO aerogel composite as an anode for a fast and stable Li-ion capacitor with ultra-high specific energy

**Author(s):** Sajjad, M (Sajjad, Muhammad); Javed, MS (Javed, Muhammad Sufyan); Imran, M (Imran, Muhammad); Mao, ZY (Mao, Zhiyu)

**Source:** NEW JOURNAL OF CHEMISTRY **Volume:** 45 **Issue:** 44 **Pages:** 20751-20764 **DOI:** 10.1039/d1nj04919d **Early Access Date:** OCT 2021 **Published:** NOV 15 2021

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### Record 297 of 1000

**Title:** Structural Modification, *In Vitro*, *In Vivo*, *Ex Vivo*, and *In Silico* Exploration of Pyrimidine and Pyrrolidine Cores for Targeting Enzymes Associated with Neuroinflammation and Cholinergic Deficit in Alzheimer's Disease

**Author(s):** Javed, MA (Javed, Muhammad Aamir); Ashraf, N (Ashraf, Nighat); Jan, MS (Jan, Muhammad Saeed); Mahnashi, MH (Mahnashi, Mater H.); Alqahtani, YS (Alqahtani, Yahya S.); Alyami, BA (Alyami, Bandar A.); Alqarni, AO (Alqarni, Ali O.); Asiri, YI (Asiri, Yahya, I); Ikram, M (Ikram, Muhammad); Sadiq, A (Sadiq, Abdul); Rashid, U (Rashid, Umer)

**Source:** ACS CHEMICAL NEUROSCIENCE **Volume:** 12 **Issue:** 21 **Pages:** 4123-4143 **DOI:** 10.1021/acscemneuro.1c00507 **Early Access Date:** OCT 2021 **Published:** NOV 3 2021

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### Record 298 of 1000

**Title:** Tolerance of Ziziphus and Acacia honeys to one year storage conditions and altitude

**Author(s):** Khan, KA (Khan, Khalid Ali); Ghramh, HA (Ghramh, Hamed A.); Babiker, M (Babiker, Mohammed); Ahmad, Z (Ahmad, Zubair); El-Niweiri, MAA (El-Niweiri, Mogbel Ahmed Abdalla); Ibrahim, EH (Ibrahim, Essam H.); Brima, EI (Brima, Eid Ibrahim); Mohammed, MEA (Mohammed, Mohammed Elimam Ahamed)

**Source:** JOURNAL OF KING SAUD UNIVERSITY SCIENCE **Volume:** 33 **Issue:** 7 **Article Number:** 101577 **DOI:** 10.1016/j.jksus.2021.101577 **Early Access Date:** AUG 2021 **Published:** OCT 2021

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### Record 299 of 1000

**Title:** Fabrication of novel polyaniline/ZnO heterojunction for exceptional photocatalytic hydrogen production and degradation of fluorescein dye through direct Z-scheme mechanism

**Author(s):** Hamdy, MS (Hamdy, Mohamed S.); Abd-Rabboh, HSM (Abd-Rabboh, Hisham S. M.); Benaissa, M (Benaissa, Mhamed); Al-Metwaly, MG (Al-Metwaly, M. Gad); Galal, AH (Galal, A. H.); Ahmed, MA (Ahmed, M. A.)

**Source:** OPTICAL MATERIALS **Volume:** 117 **Article Number:** 111198 **DOI:** 10.1016/j.optmat.2021.111198 **Early Access Date:** MAY 2021 **Published:** JUL 2021

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### Record 300 of 1000

**Title:** Effectiveness of Azithromycin as add-on Therapy in COVID-19 Management

**Author(s):** Wahab, S (Wahab, Shadma); Ahmad, MF (Ahmad, Md Faruque); Hussain, A (Hussain, Arshad); Usmani, S (Usmani, Shazia); Shoaib, A (Shoaib, Ambreen); Ahmad, W (Ahmad, Wasim)

**Source:** MINI-REVIEWS IN MEDICINAL CHEMISTRY **Volume:** 21 **Issue:** 19 **Pages:** 2860-2873 **DOI:** 10.2174/1389557521666210401093948 **Published:** 2021

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### Record 301 of 1000

**Title:** Synthesis, printing applications and electrochemical removal of CQAPDN disperse dye incorporating quinoline moiety

**Author(s):** Hassan, KM (Hassan, Khalid Mahmoud); Shaban, E (Shaban, ElKhabiry); Elhaddad, GM (Elhaddad, Ghada Mahmoud); Shokair, SH (Shokair, Sameha Hassan); Pannipara, M (Pannipara, Mehboobali); ElSayed, IE (ElSayed, Ibrahim ElTantawy)

**Source:** JOURNAL OF KING SAUD UNIVERSITY SCIENCE **Volume:** 34 **Issue:** 1 **Article Number:** 101670 **DOI:** 10.1016/j.jksus.2021.101670 **Early Access Date:** NOV 2021 **Published:** JAN 2022

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### Record 302 of 1000

**Title:** Distribution of minerals between orange juice and orange flesh in various cultivars

**Author(s):** Brima, E (Brima, Eid); Mohamed, H (Mohamed, Hatem)

**Source:** CZECH JOURNAL OF FOOD SCIENCES **Volume:** 39 **Issue:** 6 **Pages:** 419-425 **DOI:** 10.17221/258/2020-CJFS **Published:** 2021

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### Record 303 of 1000

**Title:** *In silico* evaluation of NO donor heterocyclic vasodilators as SARS-CoV-2 M<sup>pro</sup> protein inhibitor

**Author(s):** Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Parulekar, RS (Parulekar, Rishikesh S.); Pannipara, M (Pannipara, Mehboobali); Ali, PPM (Ali, Manzur P. P.); Zubaidha, PK (Zubaidha, Pudukulathan K.); Bhatia, MS (Bhatia, Manish S.); Mohanta, TK (Mohanta, Tapan Kumar); Al-Harrasi, A (Al-Harrasi, Ahmed)

**Source:** JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS **Volume:** 41 **Issue:** 1 **Pages:** 280-297 **DOI:** 10.1080/07391102.2021.2005682 **Early Access Date:** NOV 2021 **Published:** JAN 2 2023

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### Record 304 of 1000

**Title:** Synthesis, Spectral Characterization, Electronic Structure and Biological Activity Screening of the Schiff Base 4-((4-Hydroxy-3-Methoxy-5-Nitrobenzylidene)Amino)-N-(Pyrimidin-2-yl)Benzene Sulfonamide from 5-Nitrovaniline and Sulphadiazene

**Author(s):** Elangovan, N (Elangovan, N.); Thomas, R (Thomas, Renjith); Sowrirajan, S (Sowrirajan, S.); Manoj, KP (Manoj, K. P.); Irfan, A (Irfan, Ahmad)

**Source:** POLYCYCLIC AROMATIC COMPOUNDS **Volume:** 42 **Issue:** 10 **Pages:** 6818-6835 **DOI:** 10.1080/10406638.2021.1991392 **Early Access Date:** OCT 2021 **Published:** NOV 26 2022

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### Record 305 of 1000

**Title:** Probing solvent effect and strong and weak interactions in 2-Nitrophenyl-hydrazine using independent gradient model and Hirshfeld from wave function calculation

**Author(s):** Sarala, S (Sarala, S.); Geetha, SK (Geetha, S. K.); Muthu, S (Muthu, S.); Irfan, A (Irfan, Ahmad)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 341 **Article Number:** 117345 **DOI:** 10.1016/j.molliq.2021.117345 **Early Access Date:** SEP 2021 **Published:** NOV 1 2021

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### Record 306 of 1000

**Title:** Design and *in silico* investigation of novel Maraviroc analogues as dual inhibition of CCR-5/SARS-CoV-2 M<sup>pro</sup>

**Author(s):** Basha, GM (Basha, G. Mahaboob); Parulekar, RS (Parulekar, Rishikesh S.); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Pannipara, M (Pannipara, Mehboobali); Siddaiah, V (Siddaiah, Vidavalur); Kumari, S (Kumari, Sunanda); Choudhari, PB (Choudhari, Prafulla B.); Tamboli, Y (Tamboli, Yasinalli)

**Source:** JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS **DOI:** 10.1080/07391102.2021.1955742 **Early Access Date:** JUL 2021

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### Record 307 of 1000

**Title:** Inorganic electrides of alkali metal doped Zn<sub>12</sub>O<sub>12</sub> nanocage with excellent nonlinear optical response

**Author(s):** Khan, S (Khan, Saima); Gilani, MA (Gilani, Mazhar Amjad); Munsif, S (Munsif, Sajida); Muhammad, S (Muhammad, Shabbir); Ludwig, R (Ludwig, Ralf); Ayub, K (Ayub, Khurshid)

**Source:** JOURNAL OF MOLECULAR GRAPHICS & MODELLING **Volume:** 106 **Article Number:** 107935 **DOI:** 10.1016/j.jmgm.2021.107935 **Early Access Date:** MAY 2021 **Published:** JUL 2021

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### Record 308 of 1000

**Title:** Linear and nonlinear optical studies of Ag/Zn/ZnO nanocomposite thin film prepared by pulsed laser deposition technique

**Author(s):** Mostafa, AM (Mostafa, Ayman M.); Mwafy, EA (Mwafy, Eman A.); Awwad, NS (Awwad, Nasser S.); Ibrahim, HA (Ibrahim, Hala A.)

**Source:** RADIATION PHYSICS AND CHEMISTRY **Volume:** 179 **Article Number:** 109233 **DOI:** 10.1016/j.radphyschem.2020.109233 **Published:** FEB 2021

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### Record 309 of 1000

**Title:** Physicochemical aspects of inorganic nanoparticles stabilized in *N*-vinyl caprolactam based microgels for various applications

**Author(s):** Tahir, F (Tahir, Fatima); Begum, R (Begum, Robina); Wu, WT (Wu, Weitai); Irfan, A (Irfan, Ahmad); Farooqi, ZH (Farooqi, Zahoor H.)

**Source:** RSC ADVANCES **Volume:** 11 **Issue:** 2 **Pages:** 978-995 **DOI:** 10.1039/d0ra09327k **Published:** JAN 12 2021

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### Record 310 of 1000

**Title:** Coumarin Exhibits Broad-Spectrum Antibiofilm and Antiquorum Sensing Activity against Gram-Negative Bacteria: *In Vitro* and *In Silico* Investigation

**Author(s):** Abul Qais, F (Abul Qais, Faizan); Khan, MS (Khan, Mohammad Shavez); Ahmad, I (Ahmad, Iqbal); Husain, FM (Husain, Fohad Mabood); Khan, RA (Khan, Rais Ahmad); Hassan, I (Hassan, Iftekhar); Shahzad, SA (Shahzad, Syed Ali); AlHarbi, W (AlHarbi, Walaa)

**Source:** ACS OMEGA **Volume:** 6 **Issue:** 29 **Pages:** 18823-18835 **DOI:** 10.1021/acsomega.1c02046 **Early Access Date:** JUL 2021 **Published:** JUL 27 2021

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### Record 311 of 1000

**Title:** Synthesis and Assessment of Two Malonyl Dihydrazide Derivatives as Corrosion Inhibitors for Carbon Steel in Acidic Media: Experimental and Theoretical Studies

**Author(s):** Alarfaji, SS (Alarfaji, Saleh S.); Ali, IH (Ali, Ismat H.); Bani-Fwaz, MZ (Bani-Fwaz, Mutasem Z.); Bedair, MA (Bedair, Mahmoud A.)

**Source:** MOLECULES **Volume:** 26 **Issue:** 11 **Article Number:** 3183 **DOI:** 10.3390/molecules26113183 **Published:** JUN 2021

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### Record 312 of 1000

**Title:** Microwave-Assisted Synthesis of 2-Aryl and 2,5-Diarylthiophene Derivatives *via* Suzuki-Miyaura Cross-Coupling Using Novel Palladium Complex as a Catalyst

**Author(s):** Khormi, AY (Khormi, Afaf Y.); Farghaly, TA (Farghaly, Thoraya. A.); Shaaban, MR (Shaaban, Mohamed R.)

**Source:** POLYCYCLIC AROMATIC COMPOUNDS **Volume:** 42 **Issue:** 7 **Pages:** 3893-3907 **DOI:** 10.1080/10406638.2021.1874429 **Early Access Date:** JAN 2021 **Published:** AUG 9 2022

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### Record 313 of 1000

**Title:** Coumaronochromone as antibacterial and carbonic anhydrase inhibitors from *Aerva persica* (Burm.f.) Merr.: experimental and first-principles approaches

**Author(s):** Imran, M (Imran, Muhammad); Irfan, A (Irfan, Ahmad); Assiri, MA (Assiri, Mohammed A.); Sumrra, SH (Sumrra, Sajjad H.); Saleem, M (Saleem, Muhammad); Hussain, R (Hussain, Riaz); Al-Sehemi, AG (Al-Sehemi, Abdullah G.)

**Source:** ZEITSCHRIFT FUR NATURFORSCHUNG SECTION C-A JOURNAL OF BIOSCIENCES **Volume:** 76 **Issue:** 1-2 **Pages:** 71-78 **DOI:** 10.1515/znc-2020-0138 **Published:** JAN 2021

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### Record 314 of 1000

**Title:** Computational screening and biochemical analysis of Pistacia integerrima and Pandanus odorifer plants to find effective inhibitors against Receptor-Binding domain (RBD) of the spike protein of SARS-Cov-2

**Author(s):** Paul, GK (Paul, Gobindo Kumar); Mahmud, S (Mahmud, Shafi); Aldahish, AA (Aldahish, Afaf A.); Afroze, M (Afroze, Mirola); Biswas, S (Biswas, Suvro); Gupta, SBR (Gupta, Swagota Briti Ray); Razu, MH (Razu, Mahmudul Hasan); Zaman, S (Zaman, Shahriar); Uddin, MS (Uddin, Md Salah); Nahari, MH (Nahari, Mohammed H.); Alshahrani, MM (Alshahrani, Mohammed Merae); Alshahrani, MAR (Alshahrani, Mohammed Abdul Rahman); Khan, M (Khan, Mala); Abu Saleh, M (Abu Saleh, Md)



**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 15 **Issue:** 2 **Article Number:** 103600 **DOI:** 10.1016/j.arabjc.2021.103600 **Early Access Date:** DEC 2021 **Published:** FEB 2022

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#### **Record 315 of 1000**

**Title:** Antibacterial studies of bio-functionalized carbon decorated silver nanoparticles (AgNPs)

**Author(s):** Kalam, A (Kalam, A.); Al-Sehemi, AG (Al-Sehemi, A. G.); Alrumman, S (Alrumman, S.); Du, G (Du, G.); Assiri, M (Assiri, M.); Hesham, A (Hesham, Abd El-Latif)

**Source:** JOURNAL OF THE INDIAN CHEMICAL SOCIETY **Volume:** 98 **Issue:** 10 **Article Number:** 100155 **DOI:** 10.1016/j.jics.2021.100155 **Early Access Date:** SEP 2021 **Published:** OCT 2021

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#### **Record 316 of 1000**

**Title:** Evaluation of electronic properties in different solvents, spectroscopic exposition (FT-IR, FT-Raman), and molecular docking studies of 5-Chloro-2-hydroxypyridine - insulysin inhibitor

**Author(s):** Selvakumari, S (Selvakumari, S.); Venkataraju, C (Venkataraju, C.); Muthu, S (Muthu, S.); Irfan, A (Irfan, Ahmad); Saral, A (Saral, A.)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 341 **Article Number:** 117304 **DOI:** 10.1016/j.molliq.2021.117304 **Early Access Date:** AUG 2021 **Published:** NOV 1 2021

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#### **Record 317 of 1000**

**Title:** Tribological evaluation of date seed oil and castor oil blends with halloysite nanotube additives as environment friendly bio-lubricants

**Author(s):** Ahmed, MS (Ahmed, Mohammed Shabbir); Nair, KP (Nair, K. Prabhakaran); Tirth, V (Tirth, Vineet); Elkhaleefa, A (Elkhaleefa, Abubakr); Rehan, M (Rehan, Mohammad)

**Source:** BIOMASS CONVERSION AND BIOREFINERY **DOI:** 10.1007/s13399-021-02020-9 **Early Access Date:** OCT 2021

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#### **Record 318 of 1000**

**Title:** Investigation of anti-human ovarian cancer effects of decorated Au nanoparticles on *Thymbra spicata* extract modified Fe<sub>3</sub>O<sub>4</sub> nanoparticles

**Author(s):** Ding, WQ (Ding, Wenqing); Liang, ZQ (Liang, Zhengqiao); El-Kott, AF (El-Kott, Attalla F.); El-Kenawy, AE (El-Kenawy, Ayman E.)

**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 14 **Issue:** 7 **Article Number:** 103205 **DOI:** 10.1016/j.arabjc.2021.103205 **Early Access Date:** MAY 2021 **Published:** JUL 2021

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#### **Record 319 of 1000**

**Title:** Inflammation Drives Alzheimer's Disease: Emphasis on 5-lipoxygenase Pathways

**Author(s):** Siddiqui, A (Siddiqui, Aisha); Akhtar, S (Akhtar, Sayeed); Shah, Z (Shah, Zahoor); Othman, I (Othman, Iekhsan); Kumari, Y (Kumari, Yatinesh)

**Source:** CURRENT NEUROPHARMACOLOGY **Volume:** 19 **Issue:** 6 **Pages:** 885-895 **DOI:** 10.2174/1570159X18666200924122732 **Published:** 2021

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#### **Record 320 of 1000**

**Title:** Modified Liu estimators in the linear regression model: An application to Tobacco data

**Author(s):** Babar, I (Babar, Iqra); Ayed, H (Ayed, Hamdi); Chand, S (Chand, Sohail); Suhail, M (Suhail, Muhammad); Khan, YA (Khan, Yousaf Ali); Marzouki, R (Marzouki, Riadh)

**Source:** PLOS ONE **Volume:** 16 **Issue:** 11 **Article Number:** e0259991 **DOI:** 10.1371/journal.pone.0259991 **Published:** NOV 22 2021

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#### **Record 321 of 1000**

**Title:** Synthesis and antimicrobial activity of 4-methylthiazole and 4-thiazolidinone derivatives derived from 5-(aryldiazo)salicylaldehyde thiosemicarbazones

**Author(s):** Salem, MA (Salem, Mohamed A.); Abbas, SY (Abbas, Samir Y.); El-Sharief, MAMS (El-Sharief, Marwa A. M. Sh); Alzahrani, AY (Alzahrani, Abdullah Y.); Helal, MH (Helal, Mohamed H.); Thabet, HK

(Thabet, Hamdy Kh)

**Source:** SYNTHETIC COMMUNICATIONS **Volume:** 51 **Issue:** 21 **Pages:** 3325-3331 **DOI:** 10.1080/00397911.2021.1968909 **Early Access Date:** AUG 2021 **Published:** NOV 2 2021

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**Record 322 of 1000**

**Title:** Synthesis and antimicrobial evaluation of new 2-pyridinone and 2-iminochromene derivatives containing morpholine moiety

**Author(s):** Salem, MA (Salem, Mohamed A.); Abbas, SY (Abbas, Samir Y.); Helal, MH (Helal, Mohamed H.); Alzahrani, AY (Alzahrani, Abdullah Y.)

**Source:** JOURNAL OF HETEROCYCLIC CHEMISTRY **Volume:** 58 **Issue:** 11 **Pages:** 2117-2123 **DOI:** 10.1002/jhet.4335 **Early Access Date:** JUL 2021 **Published:** NOV 2021

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**Record 323 of 1000**

**Title:** Enhancement in the sensitivity of photo-detector performance of CuO-Gd<sub>2</sub>O<sub>3</sub> dual phase nanocomposites

**Author(s):** Paul, MJ (Paul, M. Justin); Suresh, R (Suresh, R.); Valavan, KT (Valavan, K. Thirumal); Marnadu, R (Marnadu, R.); Vidhya, M (Vidhya, M.); Ahmad, N (Ahmad, Nafis); Alshehri, AM (Alshehri, A. M.); Gedi, S (Gedi, Sreedevi)

**Source:** JOURNAL OF ALLOYS AND COMPOUNDS **Volume:** 886 **Article Number:** 161196 **DOI:** 10.1016/j.jallcom.2021.161196 **Early Access Date:** JUL 2021 **Published:** DEC 15 2021

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**Record 324 of 1000**

**Title:** ONE-POT AND THREE-COMPONENT SYNTHESIS OF SOME NOVEL FUNCTIONALIZED CHROMONYL PYRIDO[2,3-*d*]PYRIMIDINES AS ANTICANCER AGENTS

**Author(s):** Ali, TE (Ali, Tarik E.); Assiri, MA (Assiri, Mohammed A.); Shati, AA (Shati, Ali A.); Alfaifi, MY (Alfaifi, Mohammad Y.); Elbehairi, SEI (Elbehairi, Serag Eldin, I); El-Kott, AF (El-Kott, Attalla F.)

**Source:** HETEROCYCLES **Volume:** 102 **Issue:** 5 **Pages:** 930-940 **DOI:** 10.3987/COM-21-14426 **Published:** 2021

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**Record 325 of 1000**

**Title:** Knowledge, attitude, and practice regarding infection control measures among dental students during COVID-19 pandemic

**Author(s):** Elagib, MFA (Elagib, Mohamed F. A.); Baldo, SMH (Baldo, Sara M. H.); Tawfig, A (Tawfig, Ahmed); Alqarni, MA (Alqarni, Mohammed A.); Ghandour, IA (Ghandour, I. A.); Idris, AM (Idris, Abubakr M.)

**Source:** ARCHIVES OF ENVIRONMENTAL & OCCUPATIONAL HEALTH **Volume:** 77 **Issue:** 6 **Pages:** 455-467 **DOI:** 10.1080/19338244.2021.1931796 **Early Access Date:** MAY 2021 **Published:** JUN 2 2022

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**Record 326 of 1000**

**Title:** Electronic properties of solvents (Water, Benzene, Ethanol) using IEFPCM model, spectroscopic exploration with drug likeness and assessment of molecular docking on 1-Octanesulfonic Acid Sodium Salt

**Author(s):** Sangeetha, P (Sangeetha, P.); Mullainathan, S (Mullainathan, S.); Rajasekaran, L (Rajasekaran, L.); Muthu, S (Muthu, S.); Irfan, A (Irfan, Ahmad); Saral, A (Saral, A.)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 344 **Article Number:** 117719 **DOI:** 10.1016/j.molliq.2021.117719 **Early Access Date:** OCT 2021 **Published:** DEC 15 2021

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**Record 327 of 1000**

**Title:** Basic deposition methods of thin films

**Author(s):** Janarthanan, B (Janarthanan, B.); Thirunavukkarasu, C (Thirunavukkarasu, C.); Maruthamuthu, S (Maruthamuthu, S.); Manthrammel, MA (Manthrammel, M. Aslam); Shkir, M (Shkir, Mohd); AlFaify, S (AlFaify, S.); Selvakumar, M (Selvakumar, M.); Reddy, VRM (Reddy, Vasudeva Reddy Minnam); Park, C (Park, Chinho)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1241 **Article Number:** 130606 **DOI:** 10.1016/j.molstruc.2021.130606 **Early Access Date:** MAY 2021 **Published:** 2021

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### Record 328 of 1000

**Title:** Novel UPLC-MS/MS Method for Standardization of Niazimicin Content in Edible Seeds and Leaves of Moringa Oleifera Lam (vol 29, pg 128, 2021)

**Author(s):** Abdelsayed, EM (Abdelsayed, Eman Mohamed); Motaal, AA (Motaal, Amira Abdel); Hanafi, RS (Hanafi, Rasha Sayed)

**Source:** JOURNAL OF FOOD AND DRUG ANALYSIS **Volume:** 29 **Issue:** 2 **Pages:** 390-390 **DOI:** 10.38212/2224-6614.3358 **Published:** 2021

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### Record 329 of 1000

**Title:** Computational, spectroscopic and molecular docking investigation on a bioactive anti-cancer drug: 2-Methyl-8-nitro quinoline

**Author(s):** Saral, A (Saral, A.); Sudha, P (Sudha, P.); Muthu, S (Muthu, S.); Irfan, A (Irfan, Ahmad)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1247 **Article Number:** 131414 **DOI:** 10.1016/j.molstruc.2021.131414 **Early Access Date:** SEP 2021 **Published:** JAN 5 2022

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### Record 330 of 1000

**Title:** Assessment of trace element toxicity in surface water of a fish breeding river in Bangladesh: a novel approach for ecological and health risk evaluation

**Author(s):** Rakib, MRJ (Rakib, Md. Refat Jahan); Jolly, YN (Jolly, Yeasmin Nahar); Begum, BA (Begum, Bilkis Ara); Choudhury, TR (Choudhury, Tasrina Rabia); Fatema, KJ (Fatema, Konika Jannat); Islam, MS (Islam, Md. Saiful); Ali, MM (Ali, Mir Mohammad); Idris, AM (Idris, Abubakr M.)

**Source:** TOXIN REVIEWS **Volume:** 41 **Issue:** 2 **Pages:** 420-436 **DOI:** 10.1080/15569543.2021.1891936 **Early Access Date:** AUG 2021 **Published:** APR 3 2022

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### Record 331 of 1000

**Title:** RETRACTED: Effects of waste glass and waste marble on mechanical and durability performance of concrete (Retracted article. See vol. 13, 2023)

**Author(s):** Ahmad, J (Ahmad, Jawad); Aslam, F (Aslam, Fahid); Martinez-Garcia, R (Martinez-Garcia, Rebeca); de-Prado-Gil, J (de-Prado-Gil, Jesus); Qaidi, SMA (Qaidi, Shaker M. A.); Brahmia, A (Brahmia, Ameni)

**Source:** SCIENTIFIC REPORTS **Volume:** 11 **Issue:** 1 **Article Number:** 21525 **DOI:** 10.1038/s41598-021-00994-0 **Published:** NOV 2 2021

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### Record 332 of 1000

**Title:** 2-Hydroxy-5-nitropyridine and 5-nitro-2-pyridone: Tautomerism, infrared, Raman, and NMR spectral interpretations, normal coordinate analysis, and DFT calculations

**Author(s):** Mohamed, TA (Mohamed, Tarek A.); Shaaban, IA (Shaaban, Ibrahim A.); Soliman, UA (Soliman, Usama A.); Zoghaib, WM (Zoghaib, Wajdi M.)

**Source:** JOURNAL OF THE CHINESE CHEMICAL SOCIETY **Volume:** 68 **Issue:** 10 **Pages:** 1863-1879 **DOI:** 10.1002/jccs.202100064 **Early Access Date:** JUL 2021 **Published:** OCT 2021

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### Record 333 of 1000

**Title:** Analysis of a "3-(Naphthalen-1-ylimino)indolin-2-one" Compound and Its Antimicrobial Assessment Using Lipid-Based Self-Nanoemulsifying Formulations

**Author(s):** Syed, SA (Ali Syed, Saeed); Bari, A (Bari, Ahmed); Aldughaim, MS (Aldughaim, Mohammed S.); Rashid, MA (Rashid, Md Abdur); Shariare, MH (Shariare, Mohammad Hossain); Kazi, M (Kazi, Mohsin)

**Source:** MOLECULES **Volume:** 26 **Issue:** 1 **Article Number:** 15 **DOI:** 10.3390/molecules26010015 **Published:** JAN 2021

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### Record 334 of 1000

**Title:** Removal of arsenic(III) from aqueous media using amine functionalized-grafted styrene/maleic anhydride low-density polyethylene films

**Author(s):** Reza, AFGM (Reza, A. F. G. Masud); Kormoker, T (Kormoker, Tapos); Idris, AM (Idris, Abubakr M.); Shamsuzzoha, M (Shamsuzzoha, Md.); Islam, MS (Islam, Md. Saiful); El-Zahhar, AA (El-Zahhar, Adel A.); Islam, MS (Islam, Md. Saiful)

**Source:** TOXIN REVIEWS **Volume:** 41 **Issue:** 3 **Pages:** 713-720 **DOI:** 10.1080/15569543.2021.1922921 **Early Access Date:** APR 2021 **Published:** JUL 3 2022

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### Record 335 of 1000

**Title:** Influence of La<sub>2</sub>O<sub>3</sub> content on the structural, mechanical, and radiation-shielding properties of sodium fluoro lead barium borate glasses

**Author(s):** Abd El-Rehim, AF (Abd El-Rehim, A. F.); Shaaban, KS (Shaaban, Kh. S.)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 32 **Issue:** 4 **Pages:** 4651-4671 **DOI:** 10.1007/s10854-020-05204-7 **Early Access Date:** JAN 2021 **Published:** FEB 2021

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### Record 336 of 1000

**Title:** COVID-19 and Domestic Animals: Exploring the Species Barrier Crossing, Zoonotic and Reverse Zoonotic Transmission of SARS-CoV-2

**Author(s):** Kumar, R (Kumar, Rajesh); Harilal, S (Harilal, Seetha); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Paninipara, M (Paninipara, Mehboobali); Behl, T (Behl, Tapan); Mathew, GE (Mathew, Githa E.); Mathew, B (Mathew, Bijjo)

**Source:** CURRENT PHARMACEUTICAL DESIGN **Volume:** 27 **Issue:** 9 **Pages:** 1194-1201 **DOI:** 10.2174/1381612826666201118112203 **Published:** 2021

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### Record 337 of 1000

**Title:** Antioxidant potential of crude extract, flavonoid-rich fractions, and a new compound from the seeds of *Cordia dichotoma*

**Author(s):** Usmani, S (Usmani, Shazia); Hussain, A (Hussain, Arshad); Wahab, S (Wahab, Shadma); Kushwaha, P (Kushwaha, Poonam); Khatoon, S (Khatoon, Shabana); Arif, M (Arif, Muhammad); Prakash, O (Prakash, Om); Kamal, M (Kamal, Mehnaz)

**Source:** INDIAN JOURNAL OF NATURAL PRODUCTS AND RESOURCES **Volume:** 12 **Issue:** 3 **Pages:** 437-444 **Published:** SEP 2021

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### Record 338 of 1000

**Title:** Measurement of nucleation kinetics for ibuprofen crystals from ethanol and water-ethanol mixtures

**Author(s):** Rashid, MA (Rashid, Md Abdur); White, ET (White, Edward T.); Howes, T (Howes, Tony); Litster, JD (Litster, James D.); Marziano, I (Marziano, Ivan)

**Source:** JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY **Volume:** 64 **Article Number:** 102587 **DOI:** 10.1016/j.jddst.2021.102587 **Early Access Date:** JUN 2021 **Published:** AUG 2021

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### Record 339 of 1000

**Title:** Ni Foam Substrates Modified with a ZnCo<sub>2</sub>O<sub>4</sub> Nanowire-Coated Ni(OH)<sub>2</sub> Nanosheet Electrode for Hybrid Capacitors and Electrocatalysts

**Author(s):** Dai, MZ (Dai, Meizhen); Liu, HQ (Liu, Hengqi); Zhao, DP (Zhao, Depeng); Zhu, XF (Zhu, Xiaofei); Umar, A (Umar, Ahmad); Algarni, H (Algarni, Hamed); Wu, X (Wu, Xiang)

**Source:** ACS APPLIED NANO MATERIALS **Volume:** 4 **Issue:** 5 **Pages:** 5461-5468 **DOI:** 10.1021/acsnm.1c00825 **Early Access Date:** MAY 2021 **Published:** MAY 28 2021

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### Record 340 of 1000

**Title:** Enhanced Performance of Chitosan via a Novel Quaternary Magnetic Nanocomposite Chitosan/Grafted Halloysitenanotubes@Zn<sub>3</sub>Fe<sub>4</sub>O<sub>4</sub> for Uptake of Cr (III), Fe (III), and Mn (II) from Wastewater

**Author(s):** Mubarak, MF (Mubarak, Mahmoud F.); Ragab, AH (Ragab, Ahmed H.); Hosny, R (Hosny, Rasha); Ahmed, IA (Ahmed, Inas A.); Ahmed, HA (Ahmed, Hanan A.); El-Bahy, SM (El-Bahy, Salah M.); El Shahawy, A (El Shahawy, Abeer)

**Source:** POLYMERS **Volume:** 13 **Issue:** 16 **Article Number:** 2714 **DOI:** 10.3390/polym13162714 **Published:** AUG 2021

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#### **Record 341 of 1000**

**Title:** The Chronicle of COVID-19 and Possible Strategies to Curb the Pandemic

**Author(s):** Kumar, R (Kumar, Rajesh); Harilal, S (Harilal, Seetha); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Mathew, GE (Mathew, Githa Elizabeth); Carradori, S (Carradori, Simone); Mathew, B (Mathew, Bijo)

**Source:** CURRENT MEDICINAL CHEMISTRY **Volume:** 28 **Issue:** 15 **Pages:** 2852-2886 **DOI:** 10.2174/0929867327666200702151018 **Published:** 2021

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#### **Record 342 of 1000**

**Title:** Catalytic activity of multi-walled carbon nanotubes decorated with tungsten trioxides nanoparticles against 4-nitrophenol

**Author(s):** Mwafy, EA (Mwafy, Eman A.); Mostafa, AM (Mostafa, Ayman M.); Awwad, NS (Awwad, Nasser S.); Ibrahim, HA (Ibrahim, Hala A.)

**Source:** JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS **Volume:** 158 **Article Number:** 110252 **DOI:** 10.1016/j.jpics.2021.110252 **Early Access Date:** JUL 2021 **Published:** NOV 2021

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#### **Record 343 of 1000**

**Title:** Shaban Wanis Al-Rmalli: A life dedicated to application of chemistry for improving the environment and saving human lives Obituary

**Author(s):** Haris, PI (Haris, Parvez I.); Signes-Pastor, A (Signes-Pastor, Antonio); Cascio, C (Cascio, Claudia); Brima, EI (Brima, Eid I.); Bsher, A (Bsher, Aisha); Salem, A (Salem, Almokhtar); Jenkins, RO (Jenkins, Richard O.)

**Source:** BIOMEDICAL SPECTROSCOPY AND IMAGING **Volume:** 10 **Issue:** 1-2 **Pages:** 1-8 **DOI:** 10.3233/BSI-210209 **Published:** 2021

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#### **Record 344 of 1000**

**Title:** Synthesis, Crystal Structure, Ca<sup>2+</sup> and Proton Conduction Pathways of New Triphosphate Ca<sub>0.5</sub>FeHP<sub>3</sub>O<sub>10</sub>

**Author(s):** Rezgui, E (Rezgui, Eya); Krimi, M (Krimi, Mehrzia); Marzouki, R (Marzouki, Riyadh); Ateeg, AA (Ateeg, Ali Abbas); Ouerfelli, N (Ouerfelli, Najoua)

**Source:** INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE **Volume:** 16 **Issue:** 1 **Article Number:** 151085 **DOI:** 10.20964/2021.01.78 **Published:** JAN 2021

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#### **Record 345 of 1000**

**Title:** Biogenesis of Silver Nanoparticles and Its Multifunctional Anti-Corrosion and Anticancer Studies

**Author(s):** Hublikar, LV (Hublikar, Leena V.); Ganachari, SV (Ganachari, Sharanabasava V.); Raghavendra, N (Raghavendra, Narasimha); Banapurmath, NR (Banapurmath, Nagaraj R.); Patil, VB (Patil, Veerabhadragouda B.); Khan, TMY (Yunus Khan, T. M.); Badruddin, IA (Badruddin, Irfan Anjum)

**Source:** COATINGS **Volume:** 11 **Issue:** 10 **Article Number:** 1215 **DOI:** 10.3390/coatings11101215 **Published:** OCT 2021

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#### **Record 346 of 1000**

**Title:** Structural Elucidation with Improved Dielectric and Magnetic Properties of Sol-Gel Synthesized Cr<sup>3+</sup> Substituted M-Type Sr<sup>2+</sup> Hexaferrites

**Author(s):** Zahid, M (Zahid, Muhammad); Khan, HM (Khan, Hasan M.); Sadiq, I (Sadiq, Imran); Rehman, AU (Rehman, Aziz Ur); Waheed, A (Waheed, Abdul); Mazhar, E (Mazhar, Ehsan); Assiri, MA (Assiri, Mohammed A.); Imran, M (Imran, Muhammad); Usmani, N (Usmani, Nauman); Khan, I (Khan, Imran)

**Source:** JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE **Volume:** 31 **Issue:** 2 **Pages:** 1530-1539 **DOI:** 10.1007/s11665-021-06263-5 **Early Access Date:** SEP 2021 **Published:** FEB 2022

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#### **Record 347 of 1000**

**Title:** Texture dependencies on flow stress behavior of magnesium alloy under dynamic compressive loading  
**Author(s):** Nazeer, F (Nazeer, Faisal); Naqvi, SZH (Naqvi, Syed Zohaib Hassan); Kalam, A (Kalam, Abul); Al-Sehemi, AG (Al-Sehemi, A. G.); Alrobei, H (Alrobei, Hussein)  
**Source:** VACUUM **Volume:** 191 **Article Number:** 110323 **DOI:** 10.1016/j.vacuum.2021.110323 **Early Access Date:** MAY 2021 **Published:** SEP 2021

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#### **Record 348 of 1000**

**Title:** Three and one-dimensional hierarchical  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> nanostructures for photoelectrochemical water oxidation

**Author(s):** Geerthana, M (Geerthana, M.); Ramachandran, K (Ramachandran, K.); Harish, S (Harish, S.); Ramesh, R (Ramesh, R.); Selvaraj, M (Selvaraj, M.); Navaneethan, M (Navaneethan, M.)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 33 **Issue:** 12 **Special Issue:** SI **Pages:** 9204-9210 **DOI:** 10.1007/s10854-021-07215-4 **Early Access Date:** NOV 2021 **Published:** APR 2022

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#### **Record 349 of 1000**

**Title:** Application of Functionalized Nanomaterials as Effective Adsorbents for the Removal of Heavy Metals from Wastewater: A Review

**Author(s):** Siddeeg, SM (Siddeeg, Saifeldin M.); Tahoona, MA (Tahoona, Mohamed A.); Alsaiari, NS (Alsaiari, Norah S.); Shabbir, M (Shabbir, Muhamad); Rebah, FB (Rebah, Faouzi B.)

**Source:** CURRENT ANALYTICAL CHEMISTRY **Volume:** 17 **Issue:** 1 **Pages:** 4-22 **DOI:** 10.2174/1573411016999200719231712 **Published:** 2021

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#### **Record 350 of 1000**

**Title:** Structural, vibrational, electronic properties, hirshfeld surface analysis topological and molecular docking studies of N-[2-(diethylamino) ethyl]-2-methoxy-5-methylsulfonylbenzamide

**Author(s):** Janani, S (Janani, S.); Rajagopal, H (Rajagopal, Hemamalini); Muthu, S (Muthu, S.); Aayisha, S (Aayisha, S.); Raja, M (Raja, M.); Irfan, A (Irfan, Ahmad)

**Source:** HELIYON **Volume:** 7 **Issue:** 10 **Article Number:** e08186 **DOI:** 10.1016/j.heliyon.2021.e08186 **Early Access Date:** OCT 2021 **Published:** OCT 2021

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#### **Record 351 of 1000**

**Title:** Development of non-stoichiometric hybrid Co<sub>3</sub>S<sub>4</sub>/Co<sub>0.85</sub>Se nanocomposites for an evaluation of synergistic effect on the OER performance

**Author(s):** Manjunatha, C (Manjunatha, C.); Lakshmikanth, S (Lakshmikanth, S.); Shreenivasa, L (Shreenivasa, L.); Srinivasa, N (Srinivasa, N.); Ashoka, S (Ashoka, S.); Shivraj, BW (Shivraj, B. W.); Selvaraj, M (Selvaraj, Manickam); Meda, US (Meda, Ujwal Shreenag); Babu, GS (Babu, G. Satheesh); Pollet, BG (Pollet, Bruno G.)

**Source:** SURFACES AND INTERFACES **Volume:** 25 **Article Number:** 101161 **DOI:** 10.1016/j.surfin.2021.101161 **Early Access Date:** MAY 2021 **Published:** AUG 2021

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#### **Record 352 of 1000**

**Title:** Evaluating the NDVI-Rainfall Relationship in Bisha Watershed, Saudi Arabia Using Non-Stationary Modeling Technique

**Author(s):** Mallick, J (Mallick, Javed); AlMesfer, MK (AlMesfer, Mohammed K.); Singh, VP (Singh, Vijay P.); Falqi, II (Falqi, Ibrahim I.); Singh, CK (Singh, Chander Kumar); Alsubih, M (Alsubih, Majed); Ben Kahla, N (Kahla, Nabil Ben)

**Source:** ATMOSPHERE **Volume:** 12 **Issue:** 5 **Article Number:** 593 **DOI:** 10.3390/atmos12050593 **Published:** MAY 2021

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#### **Record 353 of 1000**

**Title:** Synthesis and Antimicrobial Activity of New 4-Methyl-2-(3-pyridyl)thiazolyl Chalcones and Pyrazolines (vol 91, pg 488, 2021)

**Author(s):** Bondock, S (Bondock, S.); Nasr, T (Nasr, T.)

**Source:** RUSSIAN JOURNAL OF GENERAL CHEMISTRY **Volume:** 91 **Issue:** 4 **Pages:** 754-754 **DOI:** 10.1134/S1070363221040307 **Published:** APR 2021

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#### **Record 354 of 1000**

**Title:** The efficacy of neutron activation analysis for homogeneity testing of CRMs candidates of soil matrices

**Author(s):** Idris, AM (Idris, Abubakr M.); Ebrahim, AM (Ebrahim, Ammar M.); Bounouira, H (Bounouira, Hamid); Khandaker, MU (Khandaker, Mayeen Uddin)

**Source:** INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY **Volume:** 103 **Issue:** 20 **Pages:** 8957-8970 **DOI:** 10.1080/03067319.2021.2000972 **Early Access Date:** NOV 2021 **Published:** DEC 29 2023

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#### **Record 355 of 1000**

**Title:** Crosslinked polymer encapsulated palladium nanoparticles for catalytic reduction and Suzuki reactions in aqueous medium

**Author(s):** Begum, R (Begum, Robina); Farooqi, ZH (Farooqi, Zahoor H.); Xiao, JL (Xiao, Jianliang); Ahmed, E (Ahmed, Ejaz); Sharif, A (Sharif, Ahsan); Irfan, A (Irfan, Ahmad)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 338 **Article Number:** 116780 **DOI:** 10.1016/j.molliq.2021.116780 **Early Access Date:** AUG 2021 **Published:** SEP 15 2021

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#### **Record 356 of 1000**

**Title:** 5-Fluorouracil (5-FU)-based Aza-Michael addition product: A selective carbonic anhydrase IX inhibitor

**Author(s):** Mushtaque, M (Mushtaque, Md); Avecilla, F (Avecilla, Fernando); Ahmad, I (Ahmad, Irfan); Alharbi, AM (Alharbi, Ahmed M.); Khan, P (Khan, Parvez); Ahamad, S (Ahmad, Shahzaib); Hassan, MI (Hassan, Md Imtaiyaz)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1231 **Article Number:** 129977 **DOI:** 10.1016/j.molstruc.2021.129977 **Published:** MAY 5 2021

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#### **Record 357 of 1000**

**Title:** Computational investigation of molecular structures, spectroscopic properties, cholinesterase inhibition and antibacterial activities of triazole Schiff bases endowed metal chelates

**Author(s):** Sumrra, SH (Sumrra, Sajjad Hussain); Zafar, W (Zafar, Wardha); Asghar, ML (Asghar, Muhammad Luqman); Mushtaq, F (Mushtaq, Fazila); Raza, MA (Raza, Muhammad Asam); Nazar, MF (Nazar, Muhammad Faizan); Nadeem, MA (Nadeem, Muhammad Arif); Imran, M (Imran, Muhammad); Mumtaz, S (Mumtaz, Saba)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1238 **Article Number:** 130382 **DOI:** 10.1016/j.molstruc.2021.130382 **Early Access Date:** APR 2021 **Published:** AUG 15 2021

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#### **Record 358 of 1000**

**Title:** The hydrogenation of cycloalkenes over direct-synthesized well-defined zero-valent Pt nanoparticles incorporated TUD-1 mesoporous material

**Author(s):** Alhanash, AM (Alhanash, Abdullah M.); Alqahtani, FA (Alqahtani, Fatemah A.); Aldalbahi, A (Aldalbahi, Ali); Rahaman, M (Rahaman, Mostafizur); Benaissa, M (Benaissa, Mhamed); Hamdy, MS (Hamdy, Mohamed S.)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 127 **Article Number:** 108545 **DOI:** 10.1016/j.inoche.2021.108545 **Early Access Date:** MAR 2021 **Published:** MAY 2021

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#### **Record 359 of 1000**

**Title:** Charge transfer driven by redox dye molecules on graphene nanosheets for room-temperature gas sensing

**Author(s):** Liu, WB (Liu, Wenbo); Zeng, JW (Zeng, Junwei); Gao, YX (Gao, Yixun); Li, H (Li, Hao); de Rooij, NF (de Rooij, Nicolaas Frans); Umar, A (Umar, Ahmad); Algarni, H (Algarni, Hamed); Wang, Y (Wang, Yao); Zhou, GF (Zhou, Guofu)

**Source:** NANOSCALE **Volume:** 13 **Issue:** 44 **Pages:** 18596-18607 **DOI:** 10.1039/d1nr04641a **Early Access Date:** SEP 2021 **Published:** NOV 18 2021

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#### **Record 360 of 1000**

**Title:** Metal incorporated sulfonamides as promising multidrug targets: Combined enzyme inhibitory, antimicrobial, antioxidant and theoretical exploration

**Author(s):** Sumrra, SH (Sumrra, Sajjad Hussain); Ul Hassan, A (Ul Hassan, Abrar); Zafar, MN (Zafar, Muhammad Nadeem); Shafqat, SS (Shafqat, Syed Salman); Mustafa, G (Mustafa, Ghulam); Zafar, MN (Zafar, Muhammad Naveed); Zubair, M (Zubair, Muhammad); Imran, M (Imran, Muhammad)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1250 **Article Number:** 131710 **DOI:** 10.1016/j.molstruc.2021.131710 **Early Access Date:** OCT 2021 **Part:** 2 **Published:** FEB 15 2022

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### Record 361 of 1000

**Title:** *Phragmites australis* (Reed) as an Efficient, Eco-Friendly Adsorbent for Brackish Water Pre-Treatment in Reverse Osmosis: A Kinetic Study

**Author(s):** El Shahawy, A (El Shahawy, Abeer); Ahmed, IA (Ahmed, Inas A.); Wagdy, R (Wagdy, Rabab); Ragab, AH (Ragab, Ahmed H.); Shalaby, NH (Shalaby, Nasser H.)

**Source:** MOLECULES **Volume:** 26 **Issue:** 19 **Article Number:** 6016 **DOI:** 10.3390/molecules26196016 **Published:** OCT 2021

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### Record 362 of 1000

**Title:** Antitubercular and antioxidant activities of hydroxy and chloro substituted chalcone analogues: Synthesis, biological and computational studies

**Author(s):** Ammaji, S (Ammaji, Shaik); Masthanamma, S (Masthanamma, Shaik); Bhandare, RR (Bhandare, Richie R.); Annadurai, S (Annadurai, Sivakumar); Shaik, AB (Shaik, Afzal Basha)

**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 15 **Issue:** 2 **Article Number:** 103581 **DOI:** 10.1016/j.arabjc.2021.103581 **Early Access Date:** DEC 2021 **Published:** FEB 2022

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### Record 363 of 1000

**Title:** Potential toxic elements in sediment and fishes of an important fish breeding river in Bangladesh: a preliminary study for ecological and health risks assessment

**Author(s):** Jolly, YN (Jolly, Y. N.); Rakib, MRJ (Rakib, Md Refat Jahan); Islam, MS (Islam, Md Saiful); Akter, S (Akter, S.); Idris, AM (Idris, Abubakr M.); Phoungthong, K (Phoungthong, Khamphe)

**Source:** TOXIN REVIEWS **Volume:** 41 **Issue:** 3 **Pages:** 945-958 **DOI:** 10.1080/15569543.2021.1965624 **Early Access Date:** SEP 2021 **Published:** JUL 3 2022

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### Record 364 of 1000

**Title:** Hydrological distribution of physicochemical parameters and heavy metals in surface water and their ecotoxicological implications in the Bay of Bengal coast of Bangladesh

**Author(s):** Islam, MS (Islam, Md Saiful); Idris, AM (Idris, Abubakr M.); Islam, AMT (Islam, Abu Reza Md Towfiqul); Ali, MM (Ali, Mir Mohammad); Rakib, MRJ (Rakib, Md Refat Jahan)

**Source:** ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH **Volume:** 28 **Issue:** 48 **Pages:** 68585-68599 **DOI:** 10.1007/s11356-021-15353-9 **Early Access Date:** JUL 2021 **Published:** DEC 2021

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### Record 365 of 1000

**Title:** Investigating thiouracil adsorption by an iron-doped carbon particle: Analyzing structural, electronic, and QTAIM features

**Author(s):** Cao, Y (Cao, Yan); Rajhi, AA (Rajhi, Ali A.); Yousefi, M (Yousefi, Mohammad); Ahmadi, R (Ahmadi, Roya)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1250 **Article Number:** 131885 **DOI:** 10.1016/j.molstruc.2021.131885 **Early Access Date:** DEC 2021 **Part:** 3 **Published:** FEB 15 2022

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### Record 366 of 1000

**Title:** Theoretical analysis of Brownian and thermophoresis motion effects for Newtonian fluid flow over nonlinear stretching cylinder

**Author(s):** Ei Shafey, AM (Ei Shafey, A. M.); Alharbi, FM (Alharbi, Fahad M.); Javed, A (Javed, Aneela); Abbas, N (Abbas, Nadeem); ALrafai, HA (ALrafai, H. A.); Nadeem, S (Nadeem, S.); Issakhov, A (Issakhov, Alibek)



**Source:** CASE STUDIES IN THERMAL ENGINEERING **Volume:** 28 **Article Number:** 101369 **DOI:** 10.1016/j.csite.2021.101369 **Early Access Date:** SEP 2021 **Published:** DEC 2021

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### Record 367 of 1000

**Title:** Preparations and characterizations of Ca doped Ni-Mg-Mn nanocrystalline ferrites for switching field high-frequency applications

**Author(s):** Akhtar, MN (Akhtar, Majid Niaz); Nazir, MS (Nazir, Muhammad Shahid); Khan, MA (Khan, Muhammad Azhar); Ullah, S (Ullah, Sami); Assiri, MA (Assiri, Mohammed Ali)

**Source:** CERAMICS INTERNATIONAL **Volume:** 48 **Issue:** 3 **Pages:** 3833-3840 **DOI:** 10.1016/j.ceramint.2021.10.167 **Early Access Date:** DEC 2021 **Published:** FEB 1 2022

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### Record 368 of 1000

**Title:** Structural, morphological, dielectric and magnetic properties of Ba<sub>1-x</sub>Cr<sub>x</sub>Fe<sub>12</sub>O<sub>19</sub> M type hexaferrites

**Author(s):** Zahid, M (Zahid, Muhammad); Khan, HM (Khan, Hasan M.); Rehman, AU (Rehman, Aziz Ur); Waheed, A (Waheed, Abdul); Sadiq, I (Sadiq, Imran); Mazhar, E (Mazhar, Ehsan); Assiri, MA (Assiri, Mohammed A.); Imran, M (Imran, Muhammad); Rehman, MIU (Rehman, Muhammad Inam Ur); Mustaqeem, M (Mustaqeem, Mujahid)

**Source:** PHYSICA SCRIPTA **Volume:** 96 **Issue:** 12 **Article Number:** 125405 **DOI:** 10.1088/1402-4896/ac29da **Published:** DEC 2021

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### Record 369 of 1000

**Title:** Facile synthesis, spectroscopic evaluation and antimicrobial screening of metal endowed triazole compounds

**Author(s):** Sumrra, SH (Sumrra, Sajjad H.); Zafar, W (Zafar, Wardha); Javed, H (Javed, Hassan); Zafar, M (Zafar, Muddassar); Hussain, MZ (Hussain, Muhammad Z.); Imran, M (Imran, Muhammad); Nadeem, MA (Nadeem, Muhammad A.)

**Source:** BIOMETALS **Volume:** 34 **Issue:** 6 **Pages:** 1329-1351 **DOI:** 10.1007/s10534-021-00345-6 **Early Access Date:** SEP 2021 **Published:** DEC 2021

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### Record 370 of 1000

**Title:** DFT investigation analyzed with data mining technique of rare-earth dihydrides REH<sub>2</sub> for hydrogen storage

**Author(s):** Ouadah, O (Ouadah, O.); Saidi, F (Saidi, F.); Miloudi, MEA (Miloudi, M. E. A.); Ziani, O (Ziani, O.); Mahmoudi, A (Mahmoudi, A.); Nasr, S (Nasr, S.)

**Source:** INTERNATIONAL JOURNAL OF HYDROGEN ENERGY **Volume:** 46 **Issue:** 65 **Pages:** 32962-32973 **DOI:** 10.1016/j.ijhydene.2021.07.137 **Early Access Date:** SEP 2021 **Published:** SEP 21 2021

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### Record 371 of 1000

**Title:** Integration of concentrated multi-junction solar cells with small-scale organic rankine cycle

**Author(s):** Alamri, YA (Alamri, Yassir A.); Albaik, I (Albaik, Ibrahim); Mahmoud, S (Mahmoud, Saad); Al-Dadah, R (Al-Dadah, Raya); Ismail, MA (Ismail, Mohamed A.)

**Source:** ENERGY CONVERSION AND MANAGEMENT **Volume:** 239 **Article Number:** 114235 **DOI:** 10.1016/j.enconman.2021.114235 **Early Access Date:** MAY 2021 **Published:** JUL 1 2021

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### Record 372 of 1000

**Title:** Theoretical investigation on influence of protic and aprotic solvents effect and structural (Monomer, Dimer), Van-der Waals and Hirshfeld surface analysis for clonidine molecule

**Author(s):** Sarala, S (Sarala, S.); Geetha, SK (Geetha, S. K.); Muthu, S (Muthu, S.); Irfan, A (Irfan, Ahmad)

**Source:** COMPUTATIONAL AND THEORETICAL CHEMISTRY **Volume:** 1204 **Article Number:** 113397 **DOI:** 10.1016/j.comptc.2021.113397 **Early Access Date:** AUG 2021 **Published:** OCT 2021

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### Record 373 of 1000

**Title:** Optical properties for flexible and transparent silver nanowires electrodes with different diameters

**Author(s):** Abdel-Rahim, RD (Abdel-Rahim, Rabeea D.); Nagiub, AM (Nagiub, Adham M.); Pharghaly, OA (Pharghaly, Osman A.); Taher, MA (Taher, Mahmoud A.); Yousef, E (Yousef, El Sayed); Shaaban, ER (Shaaban, Essam R.)

**Source:** OPTICAL MATERIALS **Volume:** 117 **Article Number:** 111123 **DOI:** 10.1016/j.optmat.2021.111123 **Early Access Date:** MAY 2021 **Published:** JUL 2021

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#### Record 374 of 1000

**Title:** Novel UPLC-MS/MS method for standardization of niazimicin content in edible seeds and leaves of *Moringa oleifera* Lam

**Author(s):** Abdelsayed, EM (Abdelsayed, Eman Mohamed); Motaal, AA (Motaal, Amira Abdel); Hanafi, RS (Hanafi, Rasha Sayed)

**Source:** JOURNAL OF FOOD AND DRUG ANALYSIS **Volume:** 29 **Issue:** 1 **Pages:** 128-143 **DOI:** 10.38212/2224-6614.3282 **Published:** 2021

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#### Record 375 of 1000

**Title:** Effect of ZnO on radiation shielding competence of TeO<sub>2</sub>-ZnO-Fe<sub>2</sub>O<sub>3</sub> glass system

**Author(s):** Sayyed, MI (Sayyed, M. I.); D'Souza, AN (D'Souza, Ashwitha Nancy); Prabhu, NS (Prabhu, Nimitha S.); Ben Ahmed, S (Ben Ahmed, Samia); Kamath, SD (Kamath, Sudha D.)

**Source:** OPTIK **Volume:** 249 **Article Number:** 168270 **DOI:** 10.1016/j.ijleo.2021.168270 **Early Access Date:** NOV 2021 **Published:** JAN 2022

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#### Record 376 of 1000

**Title:** Alkyl 2-(2-(arylidene)alkylhydrazinyl)thiazole-4-carboxylates: Synthesis, acetyl cholinesterase inhibition and docking studies

**Author(s):** Haroon, M (Haroon, Muhammad); Khalid, M (Khalid, Muhammad); Shahzadi, K (Shahzadi, Kiran); Akhtar, T (Akhtar, Tashfeen); Saba, S (Saba, Sumbal); Rafique, J (Rafique, Jamal); Ali, S (Ali, Shehbaz); Irfan, M (Irfan, Muhammad); Alam, MM (Alam, Mohammed Mujahid); Imran, M (Imran, Muhammad)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1245 **Article Number:** 131063 **DOI:** 10.1016/j.molstruc.2021.131063 **Early Access Date:** JUL 2021 **Published:** DEC 5 2021

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#### Record 377 of 1000

**Title:** Benzyl isothiocyanates modulate inflammation, oxidative stress, and apoptosis *via* Nrf2/HO-1 and NF-κB signaling pathways on indomethacin-induced gastric injury in rats

**Author(s):** El Badawy, SA (El Badawy, Shymaa A.); Ogaly, HA (Ogaly, Hanan A.); Abd-Elsalam, RM (Abd-Elsalam, Reham M.); Azouz, AA (Azouz, Asmaa A.)

**Source:** FOOD & FUNCTION **Volume:** 12 **Issue:** 13 **Pages:** 6001-6013 **DOI:** 10.1039/d1fo00645b **Early Access Date:** MAY 2021 **Published:** JUL 7 2021

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#### Record 378 of 1000

**Title:** Synthesis and Antimicrobial Activity of New 4-Methyl-2-(3-pyridyl)thiazolyl Chalcones and Pyrazolines

**Author(s):** Bondock, S (Bondock, S.); Nasr, T (Nasr, T.)

**Source:** RUSSIAN JOURNAL OF GENERAL CHEMISTRY **Volume:** 91 **Issue:** 3 **Pages:** 488-494 **DOI:** 10.1134/S1070363221030178 **Published:** MAR 2021

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#### Record 379 of 1000

**Title:** Characterization and electrical enhancement of PVP/PVA matrix doped by gold nanoparticles prepared by laser ablation

**Author(s):** Tommalieh, MJ (Tommalieh, M. J.); Awwad, NS (Awwad, Nasser S.); Ibrahim, HA (Ibrahim, Hala A.); Menazea, AA (Menazea, A. A.)

**Source:** RADIATION PHYSICS AND CHEMISTRY **Volume:** 179 **Article Number:** 109195 **DOI:** 10.1016/j.radphyschem.2020.109195 **Published:** FEB 2021

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### Record 380 of 1000

**Title:** Molecular Docking, Structural Examination, Reactive Sites Identification (Homo-Lumo, Mep) of 6-Phenylpteridine 2, 4, 7-triamine: Potential Bacterial Inhibitor

**Author(s):** Chithra, S (Chithra, S.); Mani, G (Mani, G.); Kumar, M (Kumar, M.); Sevvanthi, S (Sevvanthi, S.); Asif, FB (Asif, Fazilath Basha); Muthu, S (Muthu, S.); Devi, RN (Devi, R. Niranjana); Irfan, A (Irfan, Ahmad)

**Source:** ANALYTICAL CHEMISTRY LETTERS **Volume:** 11 **Issue:** 6 **Pages:** 886-898 **DOI:** 10.1080/22297928.2021.1978315 **Published:** NOV 2 2021

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### Record 381 of 1000

**Title:** Practical room temperature formaldehyde sensing based on a combination of visible-light activation and dipole modification

**Author(s):** Liang, HP (Liang, Hongping); Guo, LP (Guo, Lanpeng); Cao, NJ (Cao, Nengjie); Hu, HY (Hu, Huiyun); Li, H (Li, Hao); de Rooij, NF (Frans de Rooij, Nicolaas); Umar, A (Umar, Ahmad); Algarni, H (Algarni, Hamed); Wang, Y (Wang, Yao); Zhou, GF (Zhou, Guofu)

**Source:** JOURNAL OF MATERIALS CHEMISTRY A **Volume:** 9 **Issue:** 42 **Pages:** 23955-23967 **DOI:** 10.1039/d1ta06346d **Early Access Date:** OCT 2021 **Published:** NOV 2 2021

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### Record 382 of 1000

**Title:** A significant improvement in adsorption behavior of mesoporous TUD-1 silica through neodymium incorporation

**Author(s):** Al-Shehri, BM (Al-Shehri, Badria M.); Mohamed, SK (Mohamed, Sahar K.); Alzahly, S (Alzahly, Shaykha); Hamdy, MS (Hamdy, Mohamed S.)

**Source:** JOURNAL OF RARE EARTHS **Volume:** 39 **Issue:** 4 **Pages:** 469-476 **DOI:** 10.1016/j.jre.2020.07.004 **Early Access Date:** MAR 2021 **Published:** APR 2021

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### Record 383 of 1000

**Title:** Bioactive Tryptophan-Based Copper Complex with Auxiliary  $\beta$ -Carboline Spectacle Potential on Human Breast Cancer Cells: In Vitro and In Vivo Studies

**Author(s):** Alharbi, W (Alharbi, Walaa); Hassan, I (Hassan, Iftekhhar); Khan, RA (Khan, Rais Ahmad); Parveen, S (Parveen, Shazia); Alharbi, KH (Alharbi, Khadijah H.); Bin Sharfan, II (Bin Sharfan, Ibtisam I.); Alhazza, IM (Alhazza, Ibrahim M.); Ebaid, H (Ebaid, Hossam); Alsalmeh, A (Alsalmeh, Ali)

**Source:** MOLECULES **Volume:** 26 **Issue:** 6 **Article Number:** 1606 **DOI:** 10.3390/molecules26061606 **Published:** MAR 2021

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### Record 384 of 1000

**Title:** Performance of sustainable sand concrete at ambient and elevated temperature

**Author(s):** Akhtar, MN (Akhtar, Mohammad Nadeem); Ibrahim, Z (Ibrahim, Zainah); Bunnori, NM (Bunnori, N. Muhamad); Jameel, M (Jameel, Mohammed); Tarannum, N (Tarannum, Nazia); Akhtar, JN (Akhtar, J. N.)

**Source:** CONSTRUCTION AND BUILDING MATERIALS **Volume:** 280 **Article Number:** 122404 **DOI:** 10.1016/j.conbuildmat.2021.122404 **Early Access Date:** FEB 2021 **Published:** APR 19 2021

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### Record 385 of 1000

**Title:** Facile synthesis of  $\text{Cu}_{1-x}\text{Co}_x\text{Fe}_2\text{O}_4$  ( $0 \leq x \leq 0.5$ ) nanoparticles with enhanced magnetic and photocatalytic performances for organic dye degradation

**Author(s):** Dhiwahaar, AT (Dhiwahaar, A. Tony); Maruthamuthu, S (Maruthamuthu, S.); Chandekar, KV (Chandekar, Kamlesh V.); Hamdy, MS (Hamdy, Mohamed S.); Shkir, M (Shkir, Mohd.); Sundararajan, M (Sundararajan, M.); Sakthivel, P (Sakthivel, P.)

**Source:** ADVANCED POWDER TECHNOLOGY **Volume:** 32 **Issue:** 11 **Pages:** 4030-4041 **DOI:** 10.1016/j.apt.2021.09.006 **Early Access Date:** OCT 2021 **Published:** NOV 2021

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### Record 386 of 1000

**Title:** Synthesis, Characterization and Photoelectric Properties of  $\text{Fe}_2\text{O}_3$  Incorporated  $\text{TiO}_2$  Photocatalyst Nanocomposites

**Author(s):** Ali, AM (Ali, Atif Mossad); Sayed, MA (Sayed, Mahmoud Ahmed); Algarni, H (Algarni, Hamed); Ganesh, V (Ganesh, Vanga); Aslam, M (Aslam, Muhd); Ismail, AA (Ismail, Adel Ali); El-Bery, HM (El-Bery, Haitham Mohamed)

**Source:** CATALYSTS **Volume:** 11 **Issue:** 9 **Article Number:** 1062 **DOI:** 10.3390/catal11091062 **Published:** SEP 2021

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#### Record 387 of 1000

**Title:** Sensitive, stable, and biocompatible photodetector based on a poly (vinyl alcohol)-starch/magnetite nanocomposite

**Author(s):** Ashraf, IM (Ashraf, I. M.); El-Zahhar, AA (El-Zahhar, Adel A.); Idris, AM (Idris, Abubakr M.); Ahmed, FBM (Ahmed, Fatma B. M.)

**Source:** OPTIK **Volume:** 242 **Article Number:** 167247 **DOI:** 10.1016/j.ijleo.2021.167247 **Early Access Date:** JUN 2021 **Published:** SEP 2021

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#### Record 388 of 1000

**Title:** Benzene, Toluene, and Monosubstituted Derivatives: Diabatic Nature of the Oscillator Strengths of  $S_1 \rightarrow S_0$  Transitions

**Author(s):** Robinson, D (Robinson, David); Alarfaji, SS (Alarfaji, Saleh S.); Hirst, JD (Hirst, Jonathan D.)

**Source:** JOURNAL OF PHYSICAL CHEMISTRY A **Volume:** 125 **Issue:** 24 **Pages:** 5237-5245 **DOI:** 10.1021/acs.jpca.1c01685 **Early Access Date:** JUN 2021 **Published:** JUN 24 2021

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#### Record 389 of 1000

**Title:** Plant-Based Indole Alkaloids: A Comprehensive Overview from a Pharmacological Perspective

**Author(s):** Omar, F (Omar, Faisal); Tareq, A (Tareq, Abu Montakim); Alqahtani, AM (Alqahtani, Ali M.); Dhama, K (Dhama, Kuldeep); Abu Sayeed, M (Abu Sayeed, Mohammed); Bin Emran, T (Bin Emran, Talha); Simal-Gandara, J (Simal-Gandara, Jesus)

**Source:** MOLECULES **Volume:** 26 **Issue:** 8 **Article Number:** 2297 **DOI:** 10.3390/molecules26082297 **Published:** APR 2021

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#### Record 390 of 1000

**Title:** Inorganic nanoparticles for reduction of hexavalent chromium: Physicochemical aspects

**Author(s):** Farooqi, ZH (Farooqi, Zahoor H.); Akram, MW (Akram, Muhammad Waseem); Begum, R (Begum, Robina); Wu, WT (Wu, Weitai); Irfan, A (Irfan, Ahmad)

**Source:** JOURNAL OF HAZARDOUS MATERIALS **Volume:** 402 **Published:** JAN 15 2021

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#### Record 391 of 1000

**Title:** Agricultural drought periods analysis by using nonhomogeneous poisson models and regionalization of appropriate model parameters

**Author(s):** Ellahi, A (Ellahi, Asad); Hussain, I (Hussain, Ijaz); Hashmi, MZ (Hashmi, Muhammad Zaffar); Almazah, MMA (Almazah, Mohammed Mohammed Ahmed); Al-Duais, FS (Al-Duais, Fuad S.)

**Source:** TELLUS SERIES A-DYNAMIC METEOROLOGY AND OCEANOGRAPHY **Volume:** 73 **Issue:** 1 **DOI:** 10.1080/16000870.2021.1948241 **Published:** JAN 1 2021

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#### Record 392 of 1000

**Title:** Synthesis of multi-walled carbon nanotubes decorated with silver metallic nanoparticles as a catalytic degradable material via pulsed laser ablation in liquid media

**Author(s):** Mostafa, AM (Mostafa, Ayman M.); Mwafy, EA (Mwafy, Eman A.); Awwad, NS (Awwad, Nasser S.); Ibrahim, HA (Ibrahim, Hala A.)

**Source:** COLLOIDS AND SURFACES A-PHYSICO-CHEMICAL AND ENGINEERING ASPECTS **Volume:** 626 **Article Number:** 126992 **DOI:** 10.1016/j.colsurfa.2021.126992 **Early Access Date:** JUN 2021 **Published:** OCT 5 2021

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#### Record 393 of 1000

**Title:** Synthesis, crystal structure, Hirshfeld surface analysis and DFT calculations of 2, 2, 2-tribromo-1-(3,5-dibromo-2-hydroxyphenyl)ethanone

**Author(s):** Brahmia, A (Brahmia, Ameni); Bejaoui, L (Bejaoui, Linda); Rolicek, J (Roliccek, Jan); Hassen, R (Hassen, RachedBen); Serdaroglu, G (Serdaroglu, Goncagul); Kaya, S (Kaya, Savas)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1248 **Article Number:** 131313 **DOI:** 10.1016/j.molstruc.2021.131313 **Early Access Date:** SEP 2021 **Published:** JAN 15 2022

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#### Record 394 of 1000

**Title:** Radiation and Multiple Slip Effects on Magnetohydrodynamic Bioconvection Flow of Micropolar Based Nanofluid over a Stretching Surface

**Author(s):** Abdal, S (Abdal, Sohaib); Alhumade, H (Alhumade, Hesham); Siddique, I (Siddique, Imran); Alam, MM (Alam, Mohammad Mahtab); Ahmad, I (Ahmad, Irfan); Hussain, S (Hussain, Sajjad)

**Source:** APPLIED SCIENCES-BASEL **Volume:** 11 **Issue:** 11 **Article Number:** 5136 **DOI:** 10.3390/app11115136 **Published:** JUN 2021

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#### Record 395 of 1000

**Title:** Prospective Role of Peptide-Based Antiviral Therapy Against the Main Protease of SARS-CoV-2

**Author(s):** Mahmud, S (Mahmud, Shafi); Paul, GK (Paul, Gobindo Kumar); Biswas, S (Biswas, Suvro); Afrose, S (Afrose, Shamima); Mita, MA (Mita, Mohasana Akter); Hasan, MR (Hasan, Md. Robiul); Shimu, MSS (Shimu, Mst. Sharmin Sultana); Hossain, A (Hossain, Alomgir); Promi, MM (Promi, Maria Meha); Ema, FK (Ema, Fahmida Khan); Chidambaram, K (Chidambaram, Kumarappan); Chandrasekaran, B (Chandrasekaran, Balakumar); Alqahtani, AM (Alqahtani, Ali M.); Bin Emran, T (Bin Emran, Talha); Abu Saleh, M (Abu Saleh, Md.)

**Source:** FRONTIERS IN MOLECULAR BIOSCIENCES **Volume:** 8 **Article Number:** 628585 **DOI:** 10.3389/fmolb.2021.628585 **Published:** MAY 10 2021

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#### Record 396 of 1000

**Title:** Molecular conformational twist-controlled wide fluorescence tuning and white light emission in a single fluorophore *via* halochromism

**Author(s):** Gayathri, P (Gayathri, Parthasarathy); Nag, P (Nag, Probal); Anand, N (Anand, Neethu); Vennapusa, SR (Vennapusa, Sivaranjana Reddy); Pannipara, M (Pannipara, Mehboobali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Moon, D (Moon, Dohyun); Anthony, SP (Anthony, Savarimuthu Philip)

**Source:** NEW JOURNAL OF CHEMISTRY **Volume:** 45 **Issue:** 47 **Pages:** 22450-22460 **DOI:** 10.1039/d1nj04911a **Early Access Date:** NOV 2021 **Published:** DEC 6 2021

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#### Record 397 of 1000

**Title:** Structural (monomer and dimer), wavefunctional, NCI analysis in aqueous phase, electronic and excited state properties in different solvent atmosphere of 3- $\{(E)-[(3,4\text{-dichlorophenyl})\text{imino}]\text{methyl}\}$ benzene-1,2-diol

**Author(s):** Julie, MM (Julie, M. Maria); Prabhu, T (Prabhu, T.); Elamuruguporchelvi, E (Elamuruguporchelvi, E.); Asif, FB (Asif, Fazilath Basha); Muthu, S (Muthu, S.); Irfan, A (Irfan, Ahmad)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 336 **Article Number:** 116335 **DOI:** 10.1016/j.molliq.2021.116335 **Early Access Date:** MAY 2021 **Published:** AUG 15 2021

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#### Record 398 of 1000

**Title:** Evaluation of the urban heat island over Abha-Khamis Mushait tourist resort due to rapid urbanisation in Asir, Saudi Arabia

**Author(s):** Arshad, M (Arshad, Muhammad); Khedher, KM (Khedher, Khaled M.); Eid, EM (Eid, Ebrahim M.); Aina, YA (Aina, Yusuf A.)

**Source:** URBAN CLIMATE **Volume:** 36 **Article Number:** 100772 **DOI:** 10.1016/j.uclim.2021.100772 **Early Access Date:** JAN 2021 **Published:** MAR 2021

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#### Record 399 of 1000

**Title:** Impact of magnetic dipole on thermophoretic particle deposition in the flow of Maxwell fluid over a stretching sheet

**Author(s):** Kumar, RN (Kumar, R. Naveen); Jyothi, AM (Jyothi, A. M.); Alhumade, H (Alhumade, Hesham); Gowda, RJP (Gowda, R. J. Punith); Alam, MM (Alam, Mohammad Mahtab); Ahmad, I (Ahmad, Irfan); Gorji, MR (Gorji, M. R.); Prasannakumara, BC (Prasannakumara, B. C.)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 334 **Article Number:** 116494 **DOI:** 10.1016/j.molliq.2021.116494 **Early Access Date:** MAY 2021 **Published:** JUL 15 2021

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#### Record 400 of 1000

**Title:** The Synthesis and Chemistry of 2-Imino-2H-Chromene-3-Carbo(Thio) Amides

**Author(s):** Ali, TE (Ali, Tarik E.); El-Shaaer, HM (El-Shaaer, Hafez M.); Abdel-Kariem, SM (Abdel-Kariem, Somaia M.); Hussien, MSA (Hussien, Mai S. A.); Yahia, IS (Yahia, Ibrahim S.); Zahran, HY (Zahran, Heba Y.)

**Source:** MINI-REVIEWS IN ORGANIC CHEMISTRY **Volume:** 18 **Issue:** 6 **Pages:** 786-807 **DOI:** 10.2174/1570193X17999201012182420 **Published:** 2021

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#### Record 401 of 1000

**Title:** Prediction Models for Evaluating the Uptake of Heavy Metals by the Invasive Grass *Vossia cuspidata* (Roxb.) Griff. in the River Nile, Egypt: A Biomonitoring Approach

**Author(s):** Farahat, EA (Farahat, Emad A.); Mahmoud, WF (Mahmoud, Waleed F.); Awad, HEA (Awad, Hossam E. A.); Farrag, HF (Farrag, Hussein F.); Arshad, M (Arshad, Muhammad); Eid, EM (Eid, Ebrahim M.); Fahmy, GM (Fahmy, Gamal M.)

**Source:** SUSTAINABILITY **Volume:** 13 **Issue:** 19 **Article Number:** 10558 **DOI:** 10.3390/su131910558 **Published:** OCT 2021

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#### Record 402 of 1000

**Title:** ZnAlMCM-41: a very ecofriendly and reusable solid acid catalyst for the highly selective synthesis of 1,3-dioxanes by the Prins cyclization of olefins

**Author(s):** Selvaraj, M (Selvaraj, Manickam); Assiri, MA (Assiri, Mohammed A.); Singh, H (Singh, Hari); Appaturi, JN (Appaturi, Jimmy Nelson); Subrahmanyam, C (Subrahmanyam, Ch.); Ha, CS (Ha, Chang-Sik)

**Source:** DALTON TRANSACTIONS **Volume:** 50 **Issue:** 5 **Pages:** 1672-1682 **DOI:** 10.1039/d0dt04158k **Published:** FEB 7 2021

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#### Record 403 of 1000

**Title:** Facile Synthesis of Iron-Based MOFs *MIL-100*(*Fe*) as Heterogeneous Catalyst in Kabachnik Reaction

**Author(s):** Elharony, NE (Elharony, Noura Elsayed); El Sayed, IE (El Sayed, Ibrahim El Tantawy); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Al-Ghamdi, AA (Al-Ghamdi, Ahmed A.); Abou-Elyazed, AS (Abou-Elyazed, Ahmed S.)

**Source:** CATALYSTS **Volume:** 11 **Issue:** 12 **Article Number:** 1451 **DOI:** 10.3390/catal11121451 **Published:** DEC 2021

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#### Record 404 of 1000

**Title:** Optoelectronic properties of thermally coated tin selenide thin films for photovoltaics

**Author(s):** Ali, N (Ali, Nisar); Sharif, U (Sharif, Umar); Shahzad, N (Shahzad, Naeem); Kalam, A (Kalam, Abul); Al-Sehemi, A (Al-Sehemi, Abdullah); Alrobei, H (Alrobei, Hussein); Khesro, A (Khesro, Amir)

**Source:** INTERNATIONAL JOURNAL OF ENERGY RESEARCH **Volume:** 46 **Issue:** 3 **Pages:** 3725-3731 **DOI:** 10.1002/er.7402 **Early Access Date:** OCT 2021 **Published:** MAR 10 2022

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#### Record 405 of 1000

**Title:** BiVO<sub>3</sub>/g-C<sub>3</sub>N<sub>4</sub> S-scheme heterojunction nanocomposite photocatalyst for hydrogen production and amaranth dye removal

**Author(s):** Benaissa, M (Benaissa, Mohamed); Abbas, N (Abbas, Nadir); Al Arni, S (Al Arni, Saleh); Elboughdiri, N (Elboughdiri, Noureddine); Moumen, A (Moumen, Abdelkader); Hamdy, MS (Hamdy, Mohamed S.); Abd-Rabboh, HSM (Abd-Rabboh, Hisham S. M.); Galal, AH (Galal, A. H.); Al-Metwaly, MG (Al-Metwaly, M. Gad); Ahmed, MA (Ahmed, M. A.)

**Source:** OPTICAL MATERIALS **Volume:** 118 **Article Number:** 111237 **DOI:** 10.1016/j.optmat.2021.111237 **Early Access Date:** JUN 2021 **Published:** AUG 2021

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**Record 406 of 1000**

**Title:** Auto combustion synthesis and characterization of Co doped ZnO nanoparticles with boosted photocatalytic performance

**Author(s):** Al-Namshah, KS (Al-Namshah, Khadijah S.); Shkir, M (Shkir, Mohd); Ibrahim, FA (Ibrahim, Fatma A.); Hamdy, MS (Hamdy, Mohamed S.)

**Source:** PHYSICA B-CONDENSED MATTER **Volume:** 625 **Article Number:** 413459 **DOI:** 10.1016/j.physb.2021.413459 **Early Access Date:** NOV 2021 **Published:** JAN 15 2022

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**Record 407 of 1000**

**Title:** Development and Validation of Novel Gas Chromatography (GC) and Thin aye Layer Chromatography (TLC) Densitometry Methods for the Quantification of Stigmasterol 3-O- $\beta$ -D-Glucooyranosice (S3G) in *Balanites Aegyptiaca* Extract: Application to Newly Formulated Capsules

**Author(s):** Elbahrawy, SAA (Elbahrawy, Sara A. A.); Motaal, AA (Motaal, Amira Abdel); Abdallah, OM (Abdallah, Ola M.)

**Source:** LC GC NORTH AMERICA **Volume:** 39 **Issue:** 8 **Pages:** 384-389 **Published:** AUG 2021

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**Record 408 of 1000**

**Title:** Synthesis, biological evaluation, density functional calculation and molecular docking analysis of novel spiropyrrolizidines derivatives as potential anti-microbial and anti-coagulant agents

**Author(s):** Askri, S (Askri, Sonia); Edziri, H (Edziri, Hayet); Ben Hamouda, M (Ben Hamouda, Manel); Mchiri, C (Mchiri, Chadlia); Gharbi, R (Gharbi, Rafik); Abd El-Gawad, HH (Abd El-Gawad, Hala H.); El-Tahawy, MMT (El-Tahawy, Mohsen M. T.)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1250 **Article Number:** 131688 **DOI:** 10.1016/j.molstruc.2021.131688 **Early Access Date:** OCT 2021 **Part:** 2 **Published:** FEB 15 2022

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**Record 409 of 1000**

**Title:** Hydrothermal Preparation of Ni<sub>3</sub>S<sub>4</sub>/CoS<sub>2</sub> Composite Electrocatalytic Materials for High Performance Counter Electrodes of Dye-Sensitized Solar Cells

**Author(s):** Arunprasad, V (Arunprasad, Veeranan); Karthik, PS (Siva Karthik, P.); Thulasi, S (Thulasi, Selvam); Arul, GP (Arul, G. P.); Shkir, M (Shkir, Mohd.); Rajamanickam, AT (Rajamanickam, A. T.); Sumathi, T (Sumathi, T.); Fredrick, SR (Fredrick, Sonia R.)

**Source:** JOURNAL OF CLUSTER SCIENCE **Volume:** 33 **Issue:** 6 **Pages:** 2651-2659 **DOI:** 10.1007/s10876-021-02183-5 **Early Access Date:** OCT 2021 **Published:** NOV 2022

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**Record 410 of 1000**

**Title:** Integrated all-solid-state sulfite sensors modified with two different ion-to-electron transducers: rapid assessment of sulfite in beverages

**Author(s):** Abd-Rabboh, HSM (Abd-Rabboh, Hisham S. M.); Amr, AE (Amr, Abd El-Galil E.); Kamel, AH (Kamel, Ayman H.); Al-Omar, MA (Al-Omar, Mohamed A.); Sayed, AYA (Sayed, Ahmed Y. A.)

**Source:** RSC ADVANCES **Volume:** 11 **Issue:** 6 **Pages:** 3783-3791 **DOI:** 10.1039/d0ra09903a **Published:** JAN 27 2021

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**Record 411 of 1000**

**Title:** Temperature and frequency dependence of AC electrical conductivity, dielectric permittivities, modulus and impedance parts for thermally deposited Se<sub>80</sub>S<sub>20</sub> thin film

**Author(s):** Elsaedy, HI (Elsaedy, H. I.); Qasem, A (Qasem, Ammar); Mahmoud, M (Mahmoud, Mona); Yakout, HA (Yakout, H. A.); Abdelaal, SA (Abdelaal, Said A.)

**Source:** OPTICAL MATERIALS **Volume:** 111 **Article Number:** 110693 **DOI:** 10.1016/j.optmat.2020.110693 **Published:** JAN 2021

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**Record 412 of 1000**

**Title:** Ab Initio Studies of Li<sub>3</sub>AlH<sub>6</sub> Materials for Hydrogen Storage Purposes and Optoelectronic Applications

**Author(s):** Makhdoom, M (Makhdoom, Madiha); Azamz, S (Azamz, Sikander); Waheed, A (Waheed, Abdul); Kalsoom, A (Kalsoom, Ambreen); Iqbal, A (Iqbal, Azhar); Ul Haq, B (Ul Haq, Bakhtiar); Ahmad, SS (Ahmad, S. S.); Zada, I (Zada, Imran); Khan, S (Khan, Sarzamin)

**Source:** INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE **Volume:** 16 **Issue:** 11 **Article Number:** 211113 **DOI:** 10.20964/2021.11.32 **Published:** NOV 2021

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#### Record 413 of 1000

**Title:** Synthesis of 1,4-dihydropyran[2,3-*c*]pyrazole derivatives and exploring molecular and cytotoxic properties based on DFT and molecular docking studies

**Author(s):** Fouda, AM (Fouda, Ahmed M.); El-Nassag, MAA (El-Nassag, Mohammed A. A.); Elhenawy, AA (Elhenawy, Ahmed A.); Shati, AA (Shati, Ali A.); Alfaifi, MY (Alfaifi, Mohammad Y.); Elbehairi, SEI (Elbehairi, Serag Eldin, I); Alam, MM (Alam, Mohammed M.); El-Agrody, AM (El-Agrody, Ahmed M.)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1249 **Article Number:** 131555 **DOI:** 10.1016/j.molstruc.2021.131555 **Early Access Date:** SEP 2021 **Published:** FEB 5 2022

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#### Record 414 of 1000

**Title:** An Efficient Strategy for Enhancing the Adsorption of Antibiotics and Drugs from Aqueous Solutions Using an Effective Limestone-Activated Carbon-Alginate Nanocomposite

**Author(s):** Ragab, AH (Ragab, Ahmed H.); Hussein, HS (Hussein, Hala S.); Ahmed, IA (Ahmed, Inas A.); Abualnaja, KM (Abualnaja, Khamael M.); AlMasoud, N (AlMasoud, Najla)

**Source:** MOLECULES **Volume:** 26 **Issue:** 17 **Article Number:** 5180 **DOI:** 10.3390/molecules26175180 **Published:** SEP 2021

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#### Record 415 of 1000

**Title:** First-principles calculations to investigate structural, electronic and optical properties of Na based fluoroperovskites NaXF<sub>3</sub> (X= Sr, Zn)

**Author(s):** Rehman, JU (Rehman, Jalil Ur); Usman, M (Usman, Muhammad); Tahir, MB (Tahir, M. Bilal); Hussain, A (Hussain, Abid); Rehman, MA (Rehman, M. Awais); Ahmad, N (Ahmad, Naseeb); Alrobei, H (Alrobei, Hussein); Shahzad, K (Shahzad, Khurram); Ali, AM (Ali, Arshid Mahmood); Muhammad, S (Muhammad, Shabbir)

**Source:** SOLID STATE COMMUNICATIONS **Volume:** 334 **Article Number:** 114396 **DOI:** 10.1016/j.ssc.2021.114396 **Early Access Date:** JUN 2021 **Published:** AUG 2021

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#### Record 416 of 1000

**Title:** Synthesis and cytotoxic activity of new indolylpyrrole derivatives

**Author(s):** Radwan, MAA (Radwan, Mohamed A. A.); Al Rugaie, O (Al Rugaie, Osamah); Al Abdulmonem, W (Al Abdulmonem, Waleed); Alfaifi, MY (Alfaifi, Mohammad Y.); Elbehairi, SEI (Elbehairi, Serag Eldin, I)

**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 14 **Issue:** 7 **Article Number:** 103209 **DOI:** 10.1016/j.arabjc.2021.103209 **Early Access Date:** MAY 2021 **Published:** JUL 2021

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#### Record 417 of 1000

**Title:** Structure and composition characterization of biocomposites filled with sol-gel bioglasses from the CaO-SiO<sub>2</sub>-P<sub>2</sub>O<sub>5</sub>-Ag<sub>2</sub>O systems

**Author(s):** Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Al-Ghamdi, AA (Al-Ghamdi, Ahmed A.); Dishovsky, NT (Dishovsky, Nikolay T.); Radev, L (Radev, Lachezar); Mihailova, I (Mihailova, Irena); Malinova, PA (Malinova, Petrunka A.); Atanasov, NT (Atanasov, Nikolay T.); Atanasova, GL (Atanasova, Gabriela L.)

**Source:** JOURNAL OF RUBBER RESEARCH **Volume:** 24 **Issue:** 1 **Pages:** 77-92 **DOI:** 10.1007/s42464-020-00075-3 **Early Access Date:** JAN 2021 **Published:** MAR 2021

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#### Record 418 of 1000

**Title:** Thermophysical properties of chemotactic microorganisms in bio-convective peristaltic rheology of nano-liquid with slippage, Joule heating and viscous dissipation



**Author(s):** Parveen, N (Parveen, N.); Awais, M (Awais, M.); Awan, SE (Awan, Saeed Ehsan); Shah, SA (Shah, Sayyar Ali); Yuan, AH (Yuan, Aihua); Nawaz, M (Nawaz, M.); Akhtar, R (Akhtar, Rizwan); Malik, MY (Malik, M. Y.)

**Source:** CASE STUDIES IN THERMAL ENGINEERING **Volume:** 27 **Article Number:** 101285 **DOI:** 10.1016/j.csite.2021.101285 **Early Access Date:** AUG 2021 **Published:** OCT 2021

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#### Record 419 of 1000

**Title:** Enhancing the electrochemical performance by structural evolution in O<sub>3</sub>-NaFe<sub>1-x</sub>Mg<sub>x</sub>O<sub>2</sub> cathodes for sodium ion batteries

**Author(s):** Jayachitra, J (Jayachitra, J.); Balamurugan, A (Balamurugan, A.); Joshua, JR (Joshua, J. Richards); Sharmila, V (Sharmila, V); Sivakumar, N (Sivakumar, N.); Alshahrani, T (Alshahrani, T.); Shkir, M (Shkir, Mohd)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 129 **Article Number:** 108528 **DOI:** 10.1016/j.inoche.2021.108528 **Early Access Date:** MAY 2021 **Published:** JUL 2021

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#### Record 420 of 1000

**Title:** Paper-based potentiometric sensing devices modified with chemically reduced graphene oxide (CRGO) for trace level determination of pholcodine (opiate derivative drug)

**Author(s):** Abd-Rabboh, HSM (Abd-Rabboh, Hisham S. M.); Amr, AEE (El-Galil E. Amr, Abd); Elsayed, EA (A. Elsayed, Elsayed); Sayed, AYA (Sayed, Ahmed Y. A.); Kamel, AH (Kamel, Ayman H.)

**Source:** RSC ADVANCES **Volume:** 11 **Issue:** 20 **Pages:** 12227-12234 **DOI:** 10.1039/d1ra00581b **Published:** APR 6 2021

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#### Record 421 of 1000

**Title:** Interfacial coupling of CuWO<sub>4</sub> nanoparticles on NiAl LDH as a novel photocatalyst for dissolved organic dye degradation

**Author(s):** Megala, S (Megala, S.); Silambarasan, A (Silambarasan, A.); Kanagesan, S (Kanagesan, S.); Selvaraj, M (Selvaraj, M.); Maadeswaran, P (Maadeswaran, P.); Ramesh, R (Ramesh, R.); Alam, MM (Alam, M. Mujahid); Assiri, MA (Assiri, Mohammed A.)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1252 **Article Number:** 132149 **DOI:** 10.1016/j.molstruc.2021.132149 **Early Access Date:** DEC 2021 **Published:** MAR 15 2022

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#### Record 422 of 1000

**Title:** *In-vitro* and *in-silico* antioxidant,  $\alpha$ -glucosidase inhibitory potentials of abutilins C and D, new flavonoide glycosides from *Abutilon pakistanicum*

**Author(s):** Imran, M (Imran, Muhammad); Irfan, A (Irfan, Ahmad); Khalid, M (Khalid, Muhammad); Khalid, N (Khalid, Noreen); Uddin, J (Uddin, Jalal); Hussain, R (Hussain, Riaz); Ali, B (Ali, Bakhat); Hussien, M (Hussien, Mohamed); Assiri, MA (Assiri, Mohammed A.); Al-Sehemi, AG (Al-Sehemi, Abdullah G.)

**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 14 **Issue:** 4 **Article Number:** 103021 **DOI:** 10.1016/j.arabjc.2021.103021 **Early Access Date:** FEB 2021 **Published:** APR 2021

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#### Record 423 of 1000

**Title:** Synthesis and Antiproliferative Activity of 2,4-Bis(indol-3-yl)pyrrole Derivatives: Marine Nortopsentin Analogs

**Author(s):** Radwan, MAA (Radwan, Mohamed A. A.); Al Rugaie, O (Al Rugaie, Osamah); Al Abdulmonem, W (Al Abdulmonem, Waleed); Alfaifi, MY (Alfaifi, Mohammad Y.); Elbehairi, SEI (Elbehairi, Serag Eldin, I)

**Source:** EGYPTIAN JOURNAL OF CHEMISTRY **Volume:** 64 **Issue:** 8 **Pages:** 4697-4706 **DOI:** 10.21608/EJCHEM.2021.84060.4117 **Published:** AUG 2021

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#### Record 424 of 1000

**Title:** Evaluation of the Adsorption Efficiency on the Removal of Lead(II) Ions from Aqueous Solutions Using *Azadirachta indica* Leaves as an Adsorbent

**Author(s):** Elkhaleefa, A (Elkhaleefa, Abubakr); Ali, IH (Ali, Ismat H.); Brima, EI (Brima, Eid I.); Shigidi, I (Shigidi, Ihab); Elhag, AB (Elhag, Ahmed. B.); Karama, B (Karama, Babiker)

**Record 425 of 1000**

**Title:** Optical Properties of  $\text{SiO}_2$  -  $\text{TiO}_2$  -  $\text{La}_2\text{O}_3$  -  $\text{Na}_2\text{O}$  -  $\text{Y}_2\text{O}_3$  Glasses and A Novel Process of Preparing the Parent Glass-Ceramics

**Author(s):** Abd El-Rehim, AF (Abd El-Rehim, A. F.); Wahab, EAA (Wahab, E. A. Abdel); Abou Halaka, MM (Abou Halaka, M. M.); Shaaban, KS (Shaaban, Kh S.)

**Source:** SILICON Volume: 14 Issue: 2 Pages: 373-384 DOI: 10.1007/s12633-021-01002-w Early Access Date: FEB 2021 Published: JAN 2022

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**Record 426 of 1000**

**Title:** Studies of low-temperature electrical measurements in some multicomponent selenium rich glassy alloys: Role of silver modifier

**Author(s):** Srivastava, A (Srivastava, Ankita); Roy, S (Roy, Somnath); Mehta, N (Mehta, Neeraj); Dahshan, A (Dahshan, A.); Sharma, SD (Sharma, S. D.)

**Source:** JOURNAL OF NON-CRYSTALLINE SOLIDS Volume: 575 Article Number: 121171 DOI: 10.1016/j.jnoncrysol.2021.121171 Early Access Date: SEP 2021 Published: JAN 1 2022

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**Record 427 of 1000**

**Title:** Enhanced opto-non-linear properties of low cost deposited pure and  $\text{Ni@PbI}_2$ /glass nanostructured thin films for higher order non-linear applications

**Author(s):** Shkir, M (Shkir, Mohd); Khan, MT (Khan, Mohd Taukeer); Ali, HE (Ali, H. Elhosiny); Yousef, E (Yousef, El Sayed); Algarni, H (Algarni, H.); AlFaify, S (AlFaify, S.)

**Source:** JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS Volume: 157 Article Number: 110197 DOI: 10.1016/j.jpics.2021.110197 Early Access Date: JUN 2021 Published: OCT 2021

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**Record 428 of 1000**

**Title:** Potential therapeutic natural products against Alzheimer's disease with Reference of Acetylcholinesterase

**Author(s):** Ahmed, S (Ahmed, Sagheer); Khan, ST (Khan, Sidrah Tariq); Zargaham, MK (Zargaham, Muhammad Kazim); Khan, AU (Khan, Arif Ullah); Khan, S (Khan, Saeed); Hussain, A (Hussain, Abrar); Uddin, J (Uddin, Jalal); Khan, A (Khan, Ajmal); Al-Harrasi, A (Al-Harrasi, Ahmed)

**Source:** BIOMEDICINE & PHARMACOTHERAPY Volume: 139 Article Number: 111609 DOI: 10.1016/j.biopha.2021.111609 Early Access Date: MAY 2021 Published: JUL 2021

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**Record 429 of 1000**

**Title:** Design, ecofriendly synthesis, anticancer and antimicrobial screening of innovative Biginelli dihydropyrimidines using  $\beta$ -aroylpyruvates as synthons

**Author(s):** El-Malah, A (El-Malah, Afaf); Mahmoud, Z (Mahmoud, Zeinab); Salem, HH (Hamed Salem, Heba); Abdou, AM (Abdou, Amr M.); Soliman, MMH (Soliman, Mona M. H.); Hassan, RA (Hassan, Rasha A.)

**Source:** GREEN CHEMISTRY LETTERS AND REVIEWS Volume: 14 Issue: 2 Pages: 220-232 DOI: 10.1080/17518253.2021.1896789 Published: APR 3 2021

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**Record 430 of 1000**

**Title:** Anti-depressant effect of cerebrolysin in reserpine-induced depression in rats: Behavioral, biochemical, molecular and immunohistochemical evidence

**Author(s):** El-Marasy, SA (El-Marasy, Salma A.); El Awdan, SA (El Awdan, Sally A.); Hassan, A (Hassan, Azza); Ahmed-Farid, OA (Ahmed-Farid, Omar A.); Ogaly, HA (Ogaly, Hanan A.)

**Source:** CHEMICO-BIOLOGICAL INTERACTIONS Volume: 334 Article Number: 109329 DOI: 10.1016/j.cbi.2020.109329 Early Access Date: JAN 2021 Published: JAN 25 2021

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**Record 431 of 1000**

**Title:** Application of novel framework approach for prediction of nitrate concentration susceptibility in coastal multi-aquifers, Bangladesh

**Author(s):** Islam, AMT (Islam, Abu Reza Md Towfiqul); Pal, SC (Pal, Subodh Chandra); Chowdhuri, I (Chowdhuri, Indrajit); Salam, R (Salam, Roquia); Islam, MS (Islam, Md Saiful); Rahman, MM (Rahman, Md Mostafizur); Zahid, A (Zahid, Anwar); Idris, AM (Idris, Abubakr M.)

**Source:** SCIENCE OF THE TOTAL ENVIRONMENT **Volume:** 801 **Article Number:** 149811 **DOI:** 10.1016/j.scitotenv.2021.149811 **Early Access Date:** AUG 2021 **Published:** DEC 20 2021

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#### Record 432 of 1000

**Title:** Investigation on novel Cu<sub>2</sub>O modified g-C<sub>3</sub>N<sub>4</sub>/ZnO heterostructures for efficient photocatalytic dye degradation performance under visible-light exposure

**Author(s):** Rajendran, R (Rajendran, Renji); Vignesh, S (Vignesh, Shanmugam); Sasireka, A (Sasireka, Asokan); Priya, P (Priya, Palanisamy); Suganthi, S (Suganthi, Sanjeevamuthu); Raj, V (Raj, Vairamuthu); Sundar, JK (Sundar, Jeyaperumal Kalyana); Srinivasan, M (Srinivasan, Manickam); Shkir, M (Shkir, Mohd); AlFaify, S (AlFaify, S.)

**Source:** COLLOID AND INTERFACE SCIENCE COMMUNICATIONS **Volume:** 44 **Article Number:** 100480 **DOI:** 10.1016/j.colcom.2021.100480 **Early Access Date:** AUG 2021 **Published:** SEP 2021

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#### Record 433 of 1000

**Title:** Exploring the potential of novel phenolic compounds as potential therapeutic candidates against SARS-CoV-2, using quantum chemistry, molecular docking and dynamic studies

**Author(s):** Zia, M (Zia, Maimoona); Muhammad, S (Muhammad, Shabbir); Shafiq-urRehman (Shafiq-urRehman); Bibi, S (Bibi, Shamsa); Abbasi, SW (Abbasi, Sumra Wajid); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Chaudhary, AR (Chaudhary, Aijaz Rasool); Bai, FQ (Bai, Fu Quan)

**Source:** BIOORGANIC & MEDICINAL CHEMISTRY LETTERS **Volume:** 43 **Article Number:** 128079 **DOI:** 10.1016/j.bmcl.2021.128079 **Early Access Date:** MAY 2021 **Published:** JUL 1 2021

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#### Record 434 of 1000

**Title:** Investigation the Effects of Green-Synthesized Copper Nanoparticles on the Performance of Activated Carbon-Chitosan-Alginate for the Removal of Cr(VI) from Aqueous Solution

**Author(s):** Ahmed, IA (Ahmed, Inas A.); Hussein, HS (Hussein, Hala S.); Ragab, AH (Ragab, Ahmed H.); AlMasoud, N (AlMasoud, Najla); Ghfar, AA (Ghfar, Ayman A.)

**Source:** MOLECULES **Volume:** 26 **Issue:** 9 **Article Number:** 2617 **DOI:** 10.3390/molecules26092617 **Published:** MAY 2021

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#### Record 435 of 1000

**Title:** Equilibrium and Kinetic Study of Anionic and Cationic Pollutants Remediation by Limestone-Chitosan-Alginate Nanocomposite from Aqueous Solution

**Author(s):** Ahmed, IA (Ahmed, Inas A.); Ragab, AH (H. Ragab, Ahmed); Habila, MA (Habila, Mohamed A.); Alomar, TS (Alomar, Taghrid S.); Aljuhani, EH (Aljuhani, Enas H.)

**Source:** MOLECULES **Volume:** 26 **Issue:** 9 **Article Number:** 2586 **DOI:** 10.3390/molecules26092586 **Published:** MAY 2021

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#### Record 436 of 1000

**Title:** Experimental and Simulation Investigations of Mechanical Properties and Gamma Radiation Shielding of Lithium Cadmium Gadolinium Silicate Glasses Doped Erbium Ions

**Author(s):** Mahmoud, M (Mahmoud, Mona); Makhlof, SA (Makhlof, Sayed A.); Alshahrani, B (Alshahrani, B.); Yakout, HA (Yakout, H. A.); Shaaban, KS (Shaaban, Kh. S.); Wahab, EAA (Wahab, E. A. Abdel)

**Source:** SILICON **Volume:** 14 **Issue:** 6 **Pages:** 2905-2919 **DOI:** 10.1007/s12633-021-01062-y **Early Access Date:** MAR 2021 **Published:** APR 2022

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#### Record 437 of 1000

**Title:** A novel perspective approach to explore pros and cons of face mask in prevention the spread of SARS-CoV-2 and other pathogens

**Author(s):** Ahmad, MDF (Ahmad, M. D. Faruque); Wahab, S (Wahab, Shadma); Ahmad, FA (Ahmad, Fakhruddin Ali); Alam, MI (Alam, M. Intakhab); Ather, H (Ather, Hissana); Siddiqua, A (Siddiqua, Ayesha); Ashraf, SA (Ashraf, Syed Amir); Abu Shaphe, M (Abu Shaphe, Mohammad); Khan, MI (Khan, Mohammed Idreesh); Beg, RA (Beg, Rashid Ali)

**Source:** SAUDI PHARMACEUTICAL JOURNAL **Volume:** 29 **Issue:** 2 **Pages:** 121-133 **DOI:** 10.1016/j.jsps.2020.12.014 **Early Access Date:** FEB 2021 **Published:** FEB 2021

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#### Record 438 of 1000

**Title:** Lipase-PDA-TiO<sub>2</sub> NPs: An emphatic nano-biocatalyst for optimized biodiesel production from *Jatropha curcas* oil

**Author(s):** Zulfiqar, A (Zulfiqar, Anam); Mumtaz, MW (Mumtaz, Muhammad Waseem); Mukhtar, H (Mukhtar, Hamid); Najeeb, J (Najeeb, Jawayria); Irfan, A (Irfan, Ahmad); Akram, S (Akram, Sadia); Touqeer, T (Touqeer, Tooba); Nabi, G (Nabi, Ghulam)

**Source:** RENEWABLE ENERGY **Volume:** 169 **Pages:** 1026-1037 **DOI:** 10.1016/j.renene.2020.12.135 **Early Access Date:** JAN 2021 **Published:** MAY 2021

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#### Record 439 of 1000

**Title:** Synthesis of Copper(II) Coordination Complex, Its Molecular Docking and Computational Exploration for Novel Functional Properties: A Dual Approach

**Author(s):** Mohan, B (Mohan, Bharti); Muhammad, S (Muhammad, Shabbir); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Bharti, S (Bharti, Sulakshna); Kumar, S (Kumar, Santosh); Choudhary, M (Choudhary, Mukesh)

**Source:** CHEMISTRYSELECT **Volume:** 6 **Issue:** 4 **Pages:** 738-745 **DOI:** 10.1002/slct.202003738 **Published:** JAN 27 2021

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#### Record 440 of 1000

**Title:** Improved UV photosensing properties of high crystalline nickel oxide thin films: Role of yttrium doping

**Author(s):** Raj, ILP (Raj, I. Loyola Poul); Valanarasu, S (Valanarasu, S.); Abdeltawab, AA (Abdeltawab, Ahmed A.); Mohammady, SZ (Mohammady, Sayed Z.); Ubaidullah, M (Ubaidullah, Mohd); Shaikh, SF (Shaikh, Shoyebmohamad F.); Shkir, M (Shkir, Mohd.)

**Source:** OPTIK **Volume:** 248 **Article Number:** 168105 **DOI:** 10.1016/j.ijleo.2021.168105 **Early Access Date:** OCT 2021 **Published:** DEC 2021

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#### Record 441 of 1000

**Title:** Synthesis and evaluation of antitumor activity of 9-methoxy-1*H*-benzo[*f*]chromene derivatives

**Author(s):** Elgaafary, M (Elgaafary, Menna); Lehner, J (Lehner, Julia); Fouda, AM (Fouda, Ahmed M.); Hamed, A (Hamed, Abdelaaty); Ulrich, J (Ulrich, Judith); Simmet, T (Simmet, Thomas); Syrovets, T (Syrovets, Tatiana); El-Agrody, AM (El-Agrody, Ahmed M.)

**Source:** BIOORGANIC CHEMISTRY **Volume:** 116 **Article Number:** 105402 **DOI:** 10.1016/j.bioorg.2021.105402 **Early Access Date:** OCT 2021 **Published:** NOV 2021

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#### Record 442 of 1000

**Title:** Design, synthesis, and physicochemical characterization of new aminothiohydantoin Schiff base complexes for cancer chemotherapy

**Author(s):** Mahdy, ARE (Mahdy, Ahmed R. E.); Alfaifi, MY (Alfaifi, Mohammad Y.); El-Gareb, MS (El-Gareb, Mohamed S.); Farouk, N (Farouk, Nessma); Elshaarawy, RFM (Elshaarawy, Reda F. M.)

**Source:** INORGANICA CHIMICA ACTA **Volume:** 526 **Article Number:** 120504 **DOI:** 10.1016/j.ica.2021.120504 **Early Access Date:** JUL 2021 **Published:** OCT 1 2021

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#### Record 443 of 1000

**Title:** The precise role of UV exposure time in controlling the orbital transition energies, optical and electrical parameters of thermally vacuum evaporated Se<sub>50</sub>Te<sub>50</sub> thin film

**Author(s):** Elsaedy, HI (Elsaedy, H. I.); Qasem, A (Qasem, Ammar); Mahmoud, M (Mahmoud, Mona); Yakout, HA (Yakout, H. A.); Abdelaal, SA (Abdelaal, Said A.)

**Source:** OPTICAL MATERIALS **Volume:** 115 **Article Number:** 111053 **DOI:** 10.1016/j.optmat.2021.111053 **Early Access Date:** APR 2021 **Published:** MAY 2021

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**Record 444 of 1000**

**Title:** The Spasmolytic, Bronchodilator, and Vasodilator Activities of *Parmotrema perlatum* Are Explained by Anti-Muscarinic and Calcium Antagonistic Mechanisms

**Author(s):** Hussain, M (Hussain, Musaddique); Bakhsh, H (Bakhsh, Hazoor); Syed, SK (Syed, Shahzada Khurram); Ullah, MS (Ullah, Malik Saad); Alqahtani, AM (Alqahtani, Ali M.); Alqahtani, T (Alqahtani, Taha); Aldahish, AA (Aldahish, Afaf A.); Emran, TB (Emran, Talha Bin); Rehman, KU (Rehman, Kashif Ur); Janbaz, KH (Janbaz, Khalid Hussain)

**Source:** MOLECULES **Volume:** 26 **Issue:** 21 **Article Number:** 6348 **DOI:** 10.3390/molecules26216348 **Published:** NOV 2021

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**Record 445 of 1000**

**Title:** Fabrication of Metal (Cu and Cr) Incorporated Nickel Oxide Films for Electrochemical Oxidation of Methanol

**Author(s):** Liaqat, R (Liaqat, Rimsha); Mansoor, MA (Mansoor, Muhammad Adil); Iqbal, J (Iqbal, Javed); Jilani, A (Jilani, Asim); Shakir, S (Shakir, Sehar); Kalam, A (Kalam, Abul); Wageh, S (Wageh, S.)

**Source:** CRYSTALS **Volume:** 11 **Issue:** 11 **Article Number:** 1398 **DOI:** 10.3390/cryst11111398 **Published:** NOV 2021

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**Record 446 of 1000**

**Title:** Design and synthesis of nano Cu/chitosan-starch bio-composite for the treatment of human thyroid carcinoma

**Author(s):** Sun, W (Sun, Wei); Karmakar, B (Karmakar, Bikash); Ibrahim, HA (Ibrahim, Hala A.); Awwad, NS (Awwad, Nasser S.); El-kott, AF (El-kott, Attalla F.)

**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 15 **Issue:** 1 **Article Number:** 103465 **DOI:** 10.1016/j.arabjc.2021.103465 **Early Access Date:** OCT 2021 **Published:** JAN 2022

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**Record 447 of 1000**

**Title:** Structure and porosity of conductive carbon blacks

**Author(s):** Neffati, R (Neffati, R.); Brokken-Zijp, JMC (Brokken-Zijp, J. M. C.)

**Source:** MATERIALS CHEMISTRY AND PHYSICS **Volume:** 260 **Article Number:** 124177 **DOI:** 10.1016/j.matchemphys.2020.124177 **Published:** FEB 15 2021

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**Record 448 of 1000**

**Title:** Meteloxetin (1) Novel Phenolic Amino-Oxetane Cholinesterase Inhibitors from *Datura metel* Linn and First-Principle Investigations

**Author(s):** Imran, M (Imran, Muhammad); Mehmood, R (Mehmood, Rashad); Hussain, R (Hussain, Riaz); Irfan, A (Irfan, Ahmad); Sumrra, SH (Sumrra, Sajjad Hussain); Abbas, S (Abbas, Salwa); Assiri, MA (Assiri, Mohammed A.); Khalid, N (Khalid, Noreen); Fareed, A (Fareed, Aneela); Saleem, M (Saleem, Muhammad); Al-Sehemi, AG (Al-Sehemi, Abdullah G.)

**Source:** ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING **Volume:** 46 **Issue:** 6 **Pages:** 5681-5690 **DOI:** 10.1007/s13369-020-05237-4 **Early Access Date:** JAN 2021 **Published:** JUN 2021

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**Record 449 of 1000**

**Title:** Catalytic transformation of ethanol to methane and butene over NiO NPs supported over mesoporous SBA-15

**Author(s):** Chatterjee, S (Chatterjee, Sauvik); Bhaduri, K (Bhaduri, Kushanava); Modak, A (Modak, Arindam); Selvaraj, M (Selvaraj, Manickam); Bal, R (Bal, Rajaram); Chowdhury, B (Chowdhury, Biswajit); Bhaumik, A (Bhaumik, Asim)

**Source:** MOLECULAR CATALYSIS **Volume:** 502 **Article Number:** 111381 **DOI:** 10.1016/j.mcat.2020.111381 **Early Access Date:** JAN 2021 **Published:** FEB 2021

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### Record 450 of 1000

**Title:** Solid-Contact Potentiometric Sensors Based on Main-Tailored Bio-Mimics for Trace Detection of Harmine Hallucinogen in Urine Specimens

**Author(s):** Amr, AEE (Amr, Abde El-Galil E.); Kamel, AH (Kamel, Ayman H.); Almehezia, AA (Almehezia, Abdulrahman A.); Sayed, AYA (Sayed, Ahmed Y. A.); Abd-Rabboh, HSM (Abd-Rabboh, Hisham S. M.)

**Source:** MOLECULES **Volume:** 26 **Issue:** 2 **Article Number:** 324 **DOI:** 10.3390/molecules26020324 **Published:** JAN 2021

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### Record 451 of 1000

**Title:** Improved optoelectronic performance of sol-gel derived ZnO nanostructured thin films

**Author(s):** Khan, ZR (Khan, Z. R.); Alshammari, AS (Alshammari, Abdullah S.); Bouzidi, M (Bouzidi, M.); Shkir, M (Shkir, Mohd.); Shukla, DK (Shukla, D. K.)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 132 **Article Number:** 108812 **DOI:** 10.1016/j.inoche.2021.108812 **Early Access Date:** JUL 2021 **Published:** OCT 2021

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### Record 452 of 1000

**Title:** Novel Seleno- and Thio-Urea Containing Dihydropyrrol-2-One Analogues as Antibacterial Agents

**Author(s):** Sabir, S (Sabir, Shekh); Yu, TT (Yu, Tsz Tin); Kuppusamy, R (Kuppusamy, Rajesh); Almohaywi, B (Almohaywi, Basmah); Iskander, G (Iskander, George); Das, T (Das, Theerthankar); Willcox, MDP (Willcox, Mark D. P.); Black, DS (Black, David StClair); Kumar, N (Kumar, Naresh)

**Source:** ANTIBIOTICS-BASEL **Volume:** 10 **Issue:** 3 **Article Number:** 321 **DOI:** 10.3390/antibiotics10030321 **Published:** MAR 2021

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### Record 453 of 1000

**Title:** Synthesis and characterization for new Zn(II) complexes and their optimizing fertilization performance in planting corn hybrid (vol Jan, 10.1007/s11696-020-01440-7, 2021)

**Author(s):** Althagaf, I (Althagaf, Ismail); Morad, M (Morad, Moataz); Al-dawood, AY (Al-dawood, Aisha Y.); Yarkandy, N (Yarkandy, Naema); Katouah, HA (Katouah, Hanadi A.); Hossan, AS (Hossan, Aisha S.); Khedr, AM (Khedr, Abdalla M.); El-Metwaly, NM (El-Metwaly, Nashwa M.); Ibraheem, F (Ibraheem, Farag)

**Source:** CHEMICAL PAPERS **Volume:** 75 **Issue:** 4 **Pages:** 1773-1773 **DOI:** 10.1007/s11696-021-01515-z **Early Access Date:** FEB 2021 **Published:** APR 2021

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### Record 454 of 1000

**Title:** Role of Nano-Photocatalysts in Detoxification of Toxic Heavy Metals

**Author(s):** Tahir, MB (Tahir, Muhammad B.); Asiri, AM (Asiri, Abdullah M.); Malik, MF (Malik, Muhammad F.); Khalid, NR (Khalid, Nadeem R.); Iqbal, T (Iqbal, Tahir); Rafique, M (Rafique, Muhammad); Kiran, H (Kiran, Habiba); Muhammad, S (Muhammad, Shabbir); Siddeeg, SM (Siddeeg, Saifeldin M.); Shahzad, K (Shahzad, Khurram)

**Source:** CURRENT ANALYTICAL CHEMISTRY **Volume:** 17 **Issue:** 2 **Pages:** 126-137 **DOI:** 10.2174/1573411016666191230151455 **Published:** 2021

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### Record 455 of 1000

**Title:** The biopolymer ulvan from *Ulva fasciata* Extraction towards nanofibers fabrication

**Author(s):** Madany, MA (Madany, Marwa A.); Abdel-Kareem, MS (Abdel-Kareem, Mohamed S.); Al-Oufy, AK (Al-Oufy, Affaf K.); Haroun, M (Haroun, Medhat); Sheweita, SA (Sheweita, Salah A.)

**Source:** INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES **Volume:** 177 **Pages:** 401-412 **DOI:** 10.1016/j.ijbiomac.2021.02.047 **Early Access Date:** FEB 2021 **Published:** APR 30 2021

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### Record 456 of 1000

**Title:** Facile Synthesis of 5-Aryl-N-(pyrazin-2-yl)thiophene-2-carboxamides via Suzuki Cross-Coupling Reactions, Their Electronic and Nonlinear Optical Properties through DFT Calculations

**Author(s):** Ahmad, G (Ahmad, Gulraiz); Rasool, N (Rasool, Nasir); Mubarik, A (Mubarik, Adeel); Zahoor, AF (Zahoor, Ameer Fawad); Hashmi, MA (Hashmi, Muhammad Ali); Zubair, M (Zubair, Muhammad); Bilal, M

(Bilal, Muhammad); Hussien, M (Hussien, Mohamed); Akhtar, MS (Akhtar, Muhammad Saeed); Haider, S (Haider, Sajjad)

**Source:** MOLECULES **Volume:** 26 **Issue:** 23 **Article Number:** 7309 **DOI:** 10.3390/molecules26237309 **Published:** DEC 2021

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#### Record 457 of 1000

**Title:** Amino acid-assisted ferrite/MOF composite formation for visible-light induced photocatalytic cascade C=C aerobic oxidative cleavage functionalization

**Author(s):** Al-Mubaddel, FS (Al-Mubaddel, Fahad S.); Karimi, M (Karimi, Meghdad); Sadeghi, S (Sadeghi, Samira); Gavinehroudi, RG (Gavinehroudi, Reza Ghahremani); Mohebbali, H (Mohebbali, Haleh); Mahjoub, A (Mahjoub, Alireza); Marzouki, R (Marzouki, Riadh); El Ouni, MH (El Ouni, M. H.); Heydari, A (Heydari, Akbar)

**Source:** MOLECULAR CATALYSIS **Volume:** 516 **Article Number:** 111949 **DOI:** 10.1016/j.mcat.2021.111949 **Early Access Date:** NOV 2021 **Published:** NOV 2021

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#### Record 458 of 1000

**Title:** The presence of toxic metals in tillage soils of Chittagong hill tracts in Bangladesh and the resultant health risk

**Author(s):** Barua, T (Barua, Troyee); Khandaker, MU (Khandaker, Mayeen Uddin); Bhuian, AKMSI (Islam Bhuian, A. K. M. Saiful); Rashid, MA (Rashid, Md. Abdur); Hossain, S (Hossain, Shahadat); Deb, N (Deb, Nipa); Idris, AM (Idris, Abubakr M.)

**Source:** INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY **Volume:** 103 **Issue:** 19 **Pages:** 7666-7685 **DOI:** 10.1080/03067319.2021.1974423 **Early Access Date:** SEP 2021 **Published:** DEC 26 2023

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#### Record 459 of 1000

**Title:** A systematic influence of Cu doping on structural and opto-electrical properties of fabricated Yb<sub>2</sub>O<sub>3</sub> thin films for Al/Cu-Yb<sub>2</sub>O<sub>3</sub>/p-Si Schottky diode applications

**Author(s):** Mohan, KS (Mohan, K. S.); Panneerselvam, A (Panneerselvam, A.); Marnadu, R (Marnadu, R.); Chandrasekaran, J (Chandrasekaran, J.); Shkir, M (Shkir, Mohd.); Tataroglu, A (Tataroglu, A.)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 129 **Article Number:** 108646 **DOI:** 10.1016/j.inoche.2021.108646 **Early Access Date:** MAY 2021 **Published:** JUL 2021

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#### Record 460 of 1000

**Title:** Synthesis of Manganese Ferrite/Graphene Oxide Magnetic Nanocomposite for Pollutants Removal from Water

**Author(s):** Katubi, KMM (Katubi, Khadijah Mohammedsalem M.); Alsaiani, NS (Alsaiani, Norah Salem); Alzahrani, FM (Alzahrani, Fatimah Mohammed); Siddeeg, SM (Siddeeg, Saifeldin M.); Tagoon, MA (Tagoon, Mohamed A.)

**Source:** PROCESSES **Volume:** 9 **Issue:** 4 **Article Number:** 589 **DOI:** 10.3390/pr9040589 **Published:** APR 2021

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#### Record 461 of 1000

**Title:** Pharmacokinetic Evaluation of Raft Forming Tablet for Controlled Delivery of Pantoprazole Sodium Sesquihydrate

**Author(s):** Shah, S (Shah, Shahid); Chauhdary, Z (Chauhdary, Zunera); Aslam, A (Aslam, Ayesha); Hanif, M (Hanif, Muhammad); Rasool, N (Rasool, Nasir); Imran, M (Imran, Muhammad); Rasul, A (Rasul, Akhtar); Ahmad, MM (Ahmad, Muhammad Masood); Khan, SM (Khan, Sajid Mehmood); Abbas, G (Abbas, Ghulam)

**Source:** LATIN AMERICAN JOURNAL OF PHARMACY **Volume:** 40 **Issue:** 12 **Pages:** 2894-2899 **Published:** 2021

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#### Record 462 of 1000

**Title:** The involvement of TGF- $\beta$ 1 /FAK/ $\alpha$ -SMA pathway in the antifibrotic impact of rice bran oil on thioacetamide-induced liver fibrosis in rats

**Author(s):** Abdel-Rahman, RF (Abdel-Rahman, Rehab F.); Fayed, HM (Fayed, Hany M.); Asaad, GF (Asaad, Gihan F.); Ogaly, HA (Ogaly, Hanan A.); Hessin, AF (Hessin, Alyaa F.); Salama, AAA (Salama, Abeer A. A.); Abd El-Rahman, SS (Abd El-Rahman, Sahar S.); Arbid, MS (Arbid, Mahmoud S.); Mohamed, MA (Mohamed, Marawan Abd Elbaset)

**Source:** PLOS ONE **Volume:** 16 **Issue:** 12 **Article Number:** e0260130 **DOI:** 10.1371/journal.pone.0260130 **Published:** DEC 29 2021

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#### Record 463 of 1000

**Title:** Exploration of Photophysical and Nonlinear Properties of Salicylaldehyde-Based Functionalized Materials: A Facile Synthetic and DFT Approach

**Author(s):** Imran, M (Imran, Muhammad); Khalid, M (Khalid, Muhammad); Jawaria, R (Jawaria, Rifat); Ali, A (Ali, Asif); Asghar, MA (Asghar, Muhammad Adnan); Shafiq, Z (Shafiq, Zahid); Assiri, MA (Assiri, Mohammed A.); Lodhi, HM (Lodhi, Hafiza Munazza); Braga, AAC (Carmo Braga, Ataulpa Albert)

**Source:** ACS OMEGA **Volume:** 6 **Issue:** 49 **Pages:** 33914-33922 **DOI:** 10.1021/acsomega.1c04984 **Published:** DEC 14 2021

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#### Record 464 of 1000

**Title:** Novel Sol-Gel Synthesis of Spherical Lead Titanate Submicrometer Powders

**Author(s):** Bel-Hadj-Tahar, R (Bel-Hadj-Tahar, Radhouane); Abboud, M (Abboud, Mohamed); Shkir, M (Shkir, Mohd.); Alhanash, A (Alhanash, Abdullah); Anqi, AEM (M. Anqi, Ali Eisa); Tahar, NB (Belhadj Tahar, Nouredine); Bouzitoun, M (Bouzitoun, Mouna); Benaissa, M (Benaissa, Mhamed)

**Source:** CRYSTALS **Volume:** 11 **Issue:** 5 **Article Number:** 484 **DOI:** 10.3390/cryst11050484 **Published:** MAY 2021

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#### Record 465 of 1000

**Title:** SYNTHETIC METHODS FOR PHOSPHORUS COMPOUNDS CONTAINING CHROMONE AND THIOCHROMONE RINGS

**Author(s):** Ali, TE (Ali, Tarik E.); Assiri, MA (Assiri, Mohammed A.); Abdel-Kariem, SM (Abdel-Kariem, Somaia M.); Yahia, IS (Yahia, Ibrahim S.)

**Source:** HETEROCYCLES **Volume:** 102 **Issue:** 4 **Pages:** 583-621 **DOI:** 10.3987/REV-20-941 **Published:** 2021

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#### Record 466 of 1000

**Title:** Quantum Chemical and Experimental Exploration of Biological Activity and Inhibitory Potential of New Acylated Oligosaccharides from *Pistacia integerrima* J. L. Stewart ex Brandis

**Author(s):** Irfan, A (Irfan, Ahmad); Sumrra, SH (Sumrra, Sajjad Hussain); Imran, M (Imran, Muhammad); Assiri, MA (Assiri, Mohammed Ali); Khalid, N (Khalid, Noreen); Al-Sehemi, AG (Al-Sehemi, Abdullah Ghodran)

**Source:** IRANIAN JOURNAL OF CHEMISTRY & CHEMICAL ENGINEERING-INTERNATIONAL ENGLISH EDITION **Volume:** 40 **Issue:** 5 **Pages:** 1630-1641 **DOI:** 10.30492/IJCCE.2020.40536 **Published:** SEP-OCT 2021

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#### Record 467 of 1000

**Title:** Phytochemical Characterization and Evaluation of Biological Activities of Egyptian Carob Pods (*Ceratonia siliqua* L.) Aqueous Extract: In Vitro Study

**Author(s):** Darwish, WS (Darwish, Wael Sobhy); Khadr, AE (Khadr, Abada El Sayed); Kamel, MA (Kamel, Maher Abd El Naby); Abd Eldaim, MA (Abd Eldaim, Mabrouk A.); El Sayed, IE (El Sayed, Ibrahim El Tantawy); Abdel-Bary, HM (Abdel-Bary, Hamed Mohamed); Ullah, S (Ullah, Sami); Ghareeb, DA (Ghareeb, Doaa Ahmed)

**Source:** PLANTS-BASEL **Volume:** 10 **Issue:** 12 **Article Number:** 2626 **DOI:** 10.3390/plants10122626 **Published:** DEC 2021

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#### Record 468 of 1000



**Title:** Eco-friendly green synthesis of functionalized mesoporous silica nanospheres for the determination of Al(III) ions in multiple samples of different kinds of water

**Author(s):** Aljuhani, E (Aljuhani, Enas); Hameed, A (Hameed, Ahmed); Al-Ahmed, ZA (Al-Ahmed, Zehbah A.); Almahri, A (Almahri, Albandary); Habeebullah, TM (Habeebullah, Turki M.); Shahat, A (Shahat, Ahmed); El-Metwaly, NM (El-Metwaly, Nashwa M.)

**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 14 **Issue:** 11 **Article Number:** 103419 **DOI:** 10.1016/j.arabjc.2021.103419 **Early Access Date:** SEP 2021 **Published:** NOV 2021

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#### **Record 469 of 1000**

**Title:** Phytochemical and pharmacological uses of medicinal plants to treat cancer: A case study from Khyber Pakhtunkhwa, North Pakistan

**Author(s):** Khan, A (Khan, Asif); Ali, S (Ali, Sajid); Murad, W (Murad, Waheed); Hayat, K (Hayat, Khizar); Siraj, S (Siraj, Shumaila); Jawad, M (Jawad, Muhammad); Khan, RA (Khan, Rashid Abbas); Uddin, J (Uddin, Jalal); Al-Harrasi, A (Al-Harrasi, Ahmed); Khan, A (Khan, Ajmal)

**Source:** JOURNAL OF ETHNOPHARMACOLOGY **Volume:** 281 **Article Number:** 114437 **DOI:** 10.1016/j.jep.2021.114437 **Early Access Date:** AUG 2021 **Published:** DEC 5 2021

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#### **Record 470 of 1000**

**Title:** A Validated, Rapid and Cost-Efficient HPTLC Method for Quantification of Gamma-Linolenic Acid in Borage Oil and Evaluation of Antioxidant Activity

**Author(s):** Kawish, SM (Kawish, S. M.); Qadir, A (Qadir, Abdul); Saad, S (Saad, Suma); Beg, S (Beg, Sarwar); Jain, GK (Jain, Gaurav K.); Aqil, M (Aqil, Mohd); Alanazi, AM (Alanazi, Amer M.); Khan, AA (Khan, Azmat Ali); Rashid, MA (Rashid, Md Abdur); Rab, RA (Rab, Rehan A.); Almalki, WH (Almalki, Waleed H.); Ahmad, FJ (Ahmad, Farhan J.)

**Source:** JOURNAL OF CHROMATOGRAPHIC SCIENCE **Volume:** 60 **Issue:** 4 **Pages:** 364-371 **DOI:** 10.1093/chromsci/bmab059 **Early Access Date:** JUN 2021 **Published:** APR 28 2022

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#### **Record 471 of 1000**

**Title:** Potential toxic metals (PTMs) contamination in agricultural soils and foodstuffs with associated source identification and model uncertainty

**Author(s):** Proshad, R (Proshad, Ram); Islam, MS (Islam, Md. Saiful); Kormoker, T (Kormoker, Tapos); Sayeed, A (Sayeed, Abu); Khadka, S (Khadka, Sujjan); Idris, AM (Idris, Abubakr M.)

**Source:** SCIENCE OF THE TOTAL ENVIRONMENT **Volume:** 789 **Article Number:** 147962 **DOI:** 10.1016/j.scitotenv.2021.147962 **Early Access Date:** MAY 2021 **Published:** OCT 1 2021

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#### **Record 472 of 1000**

**Title:** Coronene surface for delivery of Favipiravir: Computational approach

**Author(s):** Cao, Y (Cao, Yan); Rajhi, AA (Rajhi, Ali A.); Abedi, M (Abedi, Maryam); Yousefi, M (Yousefi, Mohammad); Choobak, E (Choobak, Emran)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 136 **Article Number:** 109133 **DOI:** 10.1016/j.inoche.2021.109133 **Early Access Date:** DEC 2021 **Published:** FEB 2022

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#### **Record 473 of 1000**

**Title:** Zinc oxide based 3-components semiconductor oxide photodiodes by dynamic spin coating method

**Author(s):** Karabulut, A (Karabulut, Abdulkirim); Dere, A (Dere, A.); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Al-Ghamdi, AA (Al-Ghamdi, Ahmed A.); Yakuphanoglu, F (Yakuphanoglu, F.)

**Source:** MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING **Volume:** 134 **Article Number:** 106034 **DOI:** 10.1016/j.mssp.2021.106034 **Early Access Date:** JUN 2021 **Published:** NOV 1 2021

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#### **Record 474 of 1000**

**Title:** Feature-rich structural, electronic, magnetic and optical properties of the fluorine- and nitrogen-incorporated CaF<sub>2</sub> compound

**Author(s):** Hoat, DM (Hoat, D. M.); Nguyen, DK (Nguyen, Duy Khanh); On, VV (On, Vo Van); Ul Haq, B (Ul Haq, Bakhtiar); Rivas-Silva, JF (Rivas-Silva, J. F.); Cocolletzi, GH (Cocolletzi, Gregorio H.)

**Source:** INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY **Volume:** 121 **Issue:** 15 **Article Number:** e26672 **DOI:** 10.1002/qua.26672 **Early Access Date:** APR 2021 **Published:** AUG 5 2021

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#### **Record 475 of 1000**

**Title:** Investigating the interaction of terbinafine with xanthenes dye for its feasible determination applying the resonance Rayleigh scattering technique

**Author(s):** Abdel-Lateef, MA (Abdel-Lateef, Mohamed A.); Derayea, SM (Derayea, Sayed M.); El-Deen, DAMN (El-Deen, Deena A. M. Nour); Almahri, A (Almahri, Albandary); Oraby, M (Oraby, Mohamed)

**Source:** ROYAL SOCIETY OPEN SCIENCE **Volume:** 8 **Issue:** 1 **Article Number:** 201545 **DOI:** 10.1098/rsos.201545 **Published:** JAN 6 2021

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#### **Record 476 of 1000**

**Title:** Andrographolide Inhibits Proliferation of Colon Cancer SW-480 Cells *via* Downregulating Notch Signaling Pathway

**Author(s):** Khan, I (Khan, Imran); Mahfooz, S (Mahfooz, Sadaf); Saeed, M (Saeed, Mohd); Ahmad, I (Ahmad, Irfan); Ansari, IA (Ansari, Irfan A.)

**Source:** ANTI-CANCER AGENTS IN MEDICINAL CHEMISTRY **Volume:** 21 **Issue:** 4 **Pages:** 487-497 **DOI:** 10.2174/1871520620666200717143109 **Published:** 2021

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#### **Record 477 of 1000**

**Title:** A new lead free double perovskites  $K_2Ti(Cl/Br)_6$ ; a promising materials for optoelectronic and transport properties; probed by DFT

**Author(s):** Ghrib, T (Ghrib, T.); Rached, A (Rached, A.); Algrafy, E (Algrafy, Eman); Al-nauim, IA (Al-nauim, Ibtessam A.); Albalawi, H (Albalawi, Hind); Ashiq, MGB (Ashiq, M. G. B.); Ul Haq, B (Ul Haq, Bakhtiar); Mahmood, Q (Mahmood, Q.)

**Source:** MATERIALS CHEMISTRY AND PHYSICS **Volume:** 264 **Article Number:** 124435 **DOI:** 10.1016/j.matchemphys.2021.124435 **Early Access Date:** MAR 2021 **Published:** MAY 1 2021

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#### **Record 478 of 1000**

**Title:** Experimental and theoretical insight into resistance to glycation of bovine serum albumin

**Author(s):** Khan, MWA (Khan, Mohd W. A.); Al Otaibi, A (Al Otaibi, Ahmed); Al-Zahrani, SA (Al-Zahrani, Salma A.); Alshammari, EM (Alshammari, Eida M.); Haque, A (Haque, Ashanul); Alouffi, S (Alouffi, Sultan); Khan, WA (Khan, Wahid A.); Khan, SN (Khan, Shahper N.)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1230 **Article Number:** 129645 **DOI:** 10.1016/j.molstruc.2020.129645 **Early Access Date:** FEB 2021 **Published:** APR 15 2021

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#### **Record 479 of 1000**

**Title:** Spectroscopic profiling, DFT computations, molecular docking and molecular dynamic simulation of biologically active 5-isoquinolinesulfonic acid

**Author(s):** Saral, A (Saral, A.); Sudha, P (Sudha, P.); Muthu, S (Muthu, S.); Irfan, A (Irfan, Ahmad)

**Source:** JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS **Volume:** 41 **Issue:** 2 **Pages:** 722-735 **DOI:** 10.1080/07391102.2021.2011417 **Early Access Date:** NOV 2021 **Published:** JAN 22 2023

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#### **Record 480 of 1000**

**Title:** A Systematic and Comparative Analysis of Four Major Classes of DFT Functionals to Compute Linear and Nonlinear Optical Properties of Benchmark Molecules

**Author(s):** Waheed, A (Waheed, Alina); Muhammad, S (Muhammad, Shabbir); Gilani, MA (Gilani, Mazhar Amjad); Adnan, M (Adnan, Muhammad); Aloui, Z (Aloui, Zouhaier)

**Source:** JOURNAL OF COMPUTATIONAL BIOPHYSICS AND CHEMISTRY **Volume:** 20 **Issue:** 5 **Pages:** 517-528 **DOI:** 10.1142/S2737416521500307 **Published:** AUG 2021

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#### **Record 481 of 1000**

**Title:** Synthesis of Diaminopyrimidine Sulfonate Derivatives and Exploration of Their Structural and Quantum Chemical Insights via SC-XRD and the DFT Approach

**Author(s):** Ali, A (Ali, Akbar); Khalid, M (Khalid, Muhammad); Tahir, MN (Tahir, Muhammad Nawaz); Imran, M (Imran, Muhammad); Ashfaq, M (Ashfaq, Muhammad); Hussain, R (Hussain, Riaz); Assiri, MA (Assiri, Mohammed A.); Khan, I (Khan, Imran)

**Source:** ACS OMEGA **Volume:** 6 **Issue:** 10 **Pages:** 7047-7057 **DOI:** 10.1021/acsomega.0c06323 **Early Access Date:** MAR 2021 **Published:** MAR 16 2021

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#### Record 482 of 1000

**Title:** Recyclable polymer microgel stabilized rhodium nanoparticles for reductive degradation of para-nitrophenol

**Author(s):** Iqbal, S (Iqbal, Sadia); Musaddiq, S (Musaddiq, Sara); Begum, R (Begum, Robina); Irfan, A (Irfan, Ahmad); Ahmad, Z (Ahmad, Zahoor); Azam, M (Azam, Muhammad); Nisar, J (Nisar, Jan); Farooqi, ZH (Farooqi, Zahoor H.)

**Source:** ZEITSCHRIFT FUR PHYSIKALISCHE CHEMIE-INTERNATIONAL JOURNAL OF RESEARCH IN PHYSICAL CHEMISTRY & CHEMICAL PHYSICS **Volume:** 235 **Issue:** 12 **Pages:** 1701-1719 **DOI:** 10.1515/zpch-2020-1718 **Published:** DEC 2021

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#### Record 483 of 1000

**Title:** Analysis of entropy generation in a power-law nanofluid flow over a stretchable rotatory porous disk

**Author(s):** Usman (Usman); Ghaffari, A (Ghaffari, Abuzar); Mustafa, I (Mustafa, Irfan); Muhammad, T (Muhammad, Taseer); Altaf, Y (Altaf, Yasir)

**Source:** CASE STUDIES IN THERMAL ENGINEERING **Volume:** 28 **Article Number:** 101370 **DOI:** 10.1016/j.csite.2021.101370 **Early Access Date:** AUG 2021 **Published:** DEC 2021

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#### Record 484 of 1000

**Title:** Distribution of heavy metal and pollution assessment in environmental samples along the coastal area of Ras Tanura

**Author(s):** El-Taher, A (El-Taher, Atef); Massoud, EE (Massoud, E. E.)

**Source:** INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY **Volume:** 103 **Issue:** 18 **Pages:** 6794-6803 **DOI:** 10.1080/03067319.2021.1962317 **Early Access Date:** AUG 2021 **Published:** DEC 22 2023

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#### Record 485 of 1000

**Title:** Construction of Ni doped MoO<sub>3</sub> nanostructures and their application as counter electrode in dye-sensitized solar cells

**Author(s):** Gomathi, K (Gomathi, K.); Padmanathan, S (Padmanathan, S.); Ali, AM (Ali, Atif Mossad); Rajamanickam, AT (Rajamanickam, A. T.)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 135 **Article Number:** 109079 **DOI:** 10.1016/j.inoche.2021.109079 **Early Access Date:** DEC 2021 **Published:** JAN 2022

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#### Record 486 of 1000

**Title:** Molecular Docking and Computational Exploration of Isolated Drugs from *Daphne* Species Against COVID-19

**Author(s):** Irfan, A (Irfan, Ahmad); Imran, M (Imran, Muhammad); Mumtaz, MW (Mumtaz, Muhammad Waseem); Basra, MAR (Raza Basra, Muhammad Asim)

**Source:** IRANIAN JOURNAL OF CHEMISTRY & CHEMICAL ENGINEERING-INTERNATIONAL ENGLISH EDITION **Volume:** 40 **Issue:** 6 **Pages:** 2019-2027 **DOI:** 10.30492/IJCCE.2021.136353.4331 **Published:** NOV-DEC 2021

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#### Record 487 of 1000

**Title:** Polymorphism induced magnetic transitions in Ni(OH)<sub>2</sub> nanostructures

**Author(s):** Gokul, B (Gokul, B.); Matheswaran, P (Matheswaran, P.); Pandian, M (Pandian, M.); Paul, CA (Paul, C. Arun); Ravikumar, K (Ravikumar, K.); Krishnan, VG (Krishnan, V. Gopala); Shkir, M (Shkir, Mohd);

AlFaify, S (AlFaify, S.); Sreedevi, G (Sreedevi, Gedi)

**Source:** JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS **Volume:** 539 **Article Number:** 168364 **DOI:** 10.1016/j.jmmm.2021.168364 **Early Access Date:** AUG 2021 **Published:** DEC 1 2021

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#### Record 488 of 1000

**Title:** Organometallic ruthenium ( $\eta^6$ -cymene) complexes interfering with quorum sensing and biofilm formation: an anti-infective approach to combat multidrug-resistance in bacteria

**Author(s):** Usman, M (Usman, Mohammad); Husain, FM (Husain, Fohad Mabood); Khan, RA (Khan, Rais Ahmad); Alharbi, W (Alharbi, Walaa); Alsalmeh, A (Alsalmeh, Ali); Al-Lohedan, HA (Al-Lohedan, Hamad A.); Tabassum, S (Tabassum, Sartaj)

**Source:** NEW JOURNAL OF CHEMISTRY **Volume:** 45 **Issue:** 4 **Pages:** 2184-2199 **DOI:** 10.1039/d0nj05068g **Published:** JAN 28 2021

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#### Record 489 of 1000

**Title:** Regioselective Synthesis of Novel Functionalized Pyrano[2',3':4,5]pyrimido[1,6-b][1,2,4,5]triazaphosphepines

**Author(s):** Ali, TE (Ali, T. E.); Assiri, MA (Assiri, M. A.); Yahia, IS (Yahia, I. S.); Zahran, HY (Zahran, H. Y.); Meselhy, MH (Meselhy, M. H.); Hussien, MSA (Hussien, M. S. A.)

**Source:** RUSSIAN JOURNAL OF ORGANIC CHEMISTRY **Volume:** 57 **Issue:** 1 **Pages:** 79-84 **DOI:** 10.1134/S1070428021010115 **Published:** JAN 2021

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#### Record 490 of 1000

**Title:** Theoretical Investigation of the  $\text{BeRb}^{2+}$ ,  $\text{BeCs}^{2+}$ , and  $\text{SrRb}^{2+}$  Dications

**Author(s):** Ghanmi, C (Ghanmi, Chedli); Farjallah, M (Farjallah, Mohamed); Alshamrani, R (Alshamrani, Razan); Berriche, H (Berriche, Hamid)

**Source:** RUSSIAN JOURNAL OF PHYSICAL CHEMISTRY A **Volume:** 95 **Issue:** SUPPL 1 **Pages:** S109-S119 **DOI:** 10.1134/S0036024421140077 **Supplement:** 1 **Published:** APR 2021

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#### Record 491 of 1000

**Title:** An all-solid-state potentiometric sensor modified with multi-walled carbon nanotubes (MWCNTs) for silicate assessment and water-quality testing

**Author(s):** Amr, AGE (Amr, Abd El-Galil E.); Kamel, AH (Kamel, Ayman H.); Al-Omar, MA (Al-Omar, Mohamed A.); Elsayed, EA (Elsayed, Elsayed A.); Sayed, AYA (Sayed, Ahmed Y. A.); Abd-Rabboh, HSM (Abd-Rabboh, Hisham S. M.)

**Source:** ANALYTICAL METHODS **Volume:** 13 **Issue:** 12 **Pages:** 1495-1501 **DOI:** 10.1039/d1ay00061f **Published:** MAR 28 2021

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#### Record 492 of 1000

**Title:** The Application of Nanomaterials for the Electrochemical Detection of Antibiotics: A Review

**Author(s):** Alsaiari, NS (Alsaiari, Norah Salem); Katubi, KMM (Katubi, Khadijah Mohammedsaleh M.); Alzahrani, FM (Alzahrani, Fatimah Mohammed); Siddeeg, SM (Siddeeg, Saifeldin M.); Tahoona, MA (Tahoona, Mohamed A.)

**Source:** MICROMACHINES **Volume:** 12 **Issue:** 3 **Article Number:** 308 **DOI:** 10.3390/mi12030308 **Published:** MAR 2021

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#### Record 493 of 1000

**Title:** Innovative Thin-Layer Chromatography/Fluorescence Detection Approach for Sensitive and Specific Determination of Ledipasvir in Rats' Feces and Pharmaceutical Dosage Form

**Author(s):** Abdel-Lateef, MA (Abdel-Lateef, Mohamed A.); Omar, MA (Omar, Mahmoud A.); Ali, R (Ali, Ramadan); Almahri, A (Almahri, Albandary); Derayea, SM (Derayea, Sayed M.)

**Source:** JOURNAL OF CHROMATOGRAPHIC SCIENCE **Volume:** 59 **Issue:** 7 **Pages:** 634-641 **DOI:** 10.1093/chromsci/bmab019 **Early Access Date:** FEB 2021 **Published:** AUG 2021

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### Record 494 of 1000

**Title:** Green synthesis of iron nanoparticles of clove and green coffee origin with an in vivo hepatoprotective investigation

**Author(s):** Mahmoud, R (Mahmoud, Rehab); Kotp, AA (Kotp, Amna A.); El-Ela, FIA (El-Ela, Fatma I. Abo); Farghali, AA (Farghali, Ahmed A.); Moaty, SAA (Moaty, S. A. Abdel); Zahran, HY (Zahran, H. Y.); Amin, R (Amin, Rafat)

**Source:** JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING **Volume:** 9 **Issue:** 6 **Article Number:** 106320 **DOI:** 10.1016/j.jece.2021.106320 **Early Access Date:** SEP 2021 **Published:** DEC 2021

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### Record 495 of 1000

**Title:** The effect of ZrO<sub>2</sub> on the linear and non-linear optical properties of sodium silicate glass

**Author(s):** Wahab, EAA (Wahab, E. A. Abdel); Aboraia, AM (Aboraia, A. M.); Shafey, AME (Shafey, A. M. El); Shaaban, KS (Shaaban, Kh. S.); Soldatov, AV (Soldatov, Alexander V.)

**Source:** OPTICAL AND QUANTUM ELECTRONICS **Volume:** 53 **Issue:** 9 **Article Number:** 504 **DOI:** 10.1007/s11082-021-03164-8 **Published:** SEP 2021

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### Record 496 of 1000

**Title:** Integrated all-solid-state sulfite sensors modified with two different ion-to-electron transducers: rapid assessment of sulfite in beverages (vol 11, pg 3783, 2021)

**Author(s):** Abd-Rabboh, HSM (Abd-Rabboh, Hisham S. M.); Amr, AEGE (El-Galil E. Amr, Abd); Kamel, AH (Kamel, Ayman H.); Al-Omar, MA (Al-Omar, Mohamed A.); Sayed, AYA (Sayed, Ahmed Y. A.)

**Source:** RSC ADVANCES **Volume:** 11 **Issue:** 29 **Pages:** 17537-17537 **DOI:** 10.1039/d1ra90110a **Published:** MAY 27 2021

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### Record 497 of 1000

**Title:** Paper-Based Potentiometric Sensors for Nicotine Determination in Smokers' Sweat

**Author(s):** Amr, AGE (Amr, Abd El-Galil E.); Kamel, AH (Kamel, Ayman H.); Almehizia, AA (Almehizia, Abdulrahman A.); Sayed, AYA (Sayed, Ahmed Y. A.); Elsayed, EA (Elsayed, Elsayed A.); Abd-Rabboh, HSM (Abd-Rabboh, Hisham S. M.)

**Source:** ACS OMEGA **Volume:** 6 **Issue:** 17 **Pages:** 11340-11347 **DOI:** 10.1021/acsomega.1c00301 **Early Access Date:** APR 2021 **Published:** MAY 4 2021

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### Record 498 of 1000

**Title:** Structural, Elastic Moduli, and Radiation Shielding of SiO<sub>2</sub>-TiO<sub>2</sub>-La<sub>2</sub>O<sub>3</sub>-Na<sub>2</sub>O Glasses Containing Y<sub>2</sub>O<sub>3</sub>

**Author(s):** Abd El-Rehim, AF (Abd El-Rehim, A. F.); Zahran, HY (Zahran, H. Y.); Yahia, IS (Yahia, I. S.); Wahab, EAA (Wahab, E. A. Abdel); Shaaban, KS (Shaaban, Kh S.)

**Source:** JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE **Volume:** 30 **Issue:** 3 **Pages:** 1872-1884 **DOI:** 10.1007/s11665-021-05513-w **Early Access Date:** FEB 2021 **Published:** MAR 2021

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### Record 499 of 1000

**Title:** Supercooled nano-droplets of water confined in hydrophobic rubber

**Author(s):** Neffati, R (Neffati, R.); Judeinstein, P (Judeinstein, P.); Rault, J (Rault, J.)

**Source:** PHYSICAL CHEMISTRY CHEMICAL PHYSICS **Volume:** 23 **Issue:** 44 **Pages:** 25347-25355 **DOI:** 10.1039/d1cp03774a **Early Access Date:** OCT 2021 **Published:** NOV 17 2021

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### Record 500 of 1000

**Title:** Trace elements concentration in soil and plant within the vicinity of abandoned tanning sites in Bangladesh: an integrated chemometric approach for health risk assessment

**Author(s):** Islam, MS (Islam, Md. Saiful); Kormoker, T (Kormoker, Tapos); Mazumder, M (Mazumder, Mohini); Anika, SE (Anika, Suraia Easnur); Islam, MT (Islam, Md. Towhidul); Hemy, DH (Hemy, Debolina Halder); Mimi, US (Mimi, Ummah Salma); Proshad, R (Proshad, Ram); Kabir, MH (Kabir, Md. Humayun); Idris, AM (Idris, Abubakr M.)

**Source:** TOXIN REVIEWS **Volume:** 41 **Issue:** 3 **Pages:** 752-767 **DOI:** 10.1080/15569543.2021.1925919 **Early Access Date:** MAY 2021 **Published:** JUL 3 2022

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#### Record 501 of 1000

**Title:** Fluorine doped g-C<sub>3</sub>N<sub>4</sub> coupled NiFe<sub>2</sub>O<sub>4</sub> heterojunction: Consumption of H<sub>2</sub>O<sub>2</sub> for production of hydroxyl radicals towards paracetamol degradation

**Author(s):** Palanivel, B (Palanivel, Baskaran); Hu, CC (Hu, Chechia); Shkir, M (Shkir, Mohd.); AlFaify, S (AlFaify, S.); Ibrahim, FA (Ibrahim, Fatma A.); Hamdy, MS (Hamdy, Mohamed S.); Mani, A (Mani, Alagiri)

**Source:** COLLOID AND INTERFACE SCIENCE COMMUNICATIONS **Volume:** 42 **Article Number:** 100410 **DOI:** 10.1016/j.colcom.2021.100410 **Early Access Date:** APR 2021 **Published:** MAY 2021

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#### Record 502 of 1000

**Title:** MXene (Ti<sub>3</sub>C<sub>2</sub>Tx) supported electrocatalysts for methanol and ethanol electrooxidation: A review

**Author(s):** Peera, SG (Peera, Shaik Gouse); Liu, C (Liu, Chao); Shim, J (Shim, Jaesool); Sahu, AK (Sahu, Akhila Kumar); Lee, TG (Lee, Tae Gwan); Selvaraj, M (Selvaraj, Manickam); Koutavarapu, R (Koutavarapu, Ravindranadh)

**Source:** CERAMICS INTERNATIONAL **Volume:** 47 **Issue:** 20 **Pages:** 28106-28121 **DOI:** 10.1016/j.ceramint.2021.07.075 **Early Access Date:** SEP 2021 **Published:** OCT 15 2021

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#### Record 503 of 1000

**Title:** Biologically Active  $\alpha$ -Amino Amide Analogs and  $\gamma\delta$  T Cells-A Unique Anticancer Approach for Leukemia

**Author(s):** Al Otaibi, A (Al Otaibi, Ahmed); Sherwani, S (Sherwani, Subuhi); Al-Zahrani, SA (Al-Zahrani, Salma Ahmed); Alshammari, EM (Alshammari, Eida Mohammed); Khan, WA (Khan, Wahid Ali); Alsukaibi, AKD (Alsukaibi, Abdulmohsen Khalaf D.); Khan, SN (Khan, Shahper Nazeer); Khan, MWA (Khan, Mohd Wajid Ali)

**Source:** FRONTIERS IN ONCOLOGY **Volume:** 11 **Article Number:** 706586 **DOI:** 10.3389/fonc.2021.706586 **Published:** JUL 12 2021

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#### Record 504 of 1000

**Title:** Insights into the physical aging in chalcogenide glasses: A case study of a first-generation As<sub>2</sub>Se<sub>3</sub> binary glass

**Author(s):** Pal, SK (Pal, Shiv Kumar); Mehta, N (Mehta, Neeraj); Mikla, VI (Mikla, V., I); Horvat, AA (Horvat, A. A.); Minkovich, VV (Minkovich, V. V.); Dahshan, A (Dahshan, A.)

**Source:** COORDINATION CHEMISTRY REVIEWS **Volume:** 442 **Article Number:** 213992 **DOI:** 10.1016/j.ccr.2021.213992 **Early Access Date:** MAY 2021 **Published:** SEP 1 2021

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#### Record 505 of 1000

**Title:** Microwave-assisted synthesis of (3,5-disubstituted isoxazole)-linked benzimidazolone derivatives: DFT calculations and biological activities

**Author(s):** Ibrahim, S (Ibrahim, Sana); Ghabi, A (Ghabi, Ameni); Amiri, N (Amiri, Nesrine); Mtiraoui, H (Mtiraoui, Hasan); Hajji, M (Hajji, Melek); Bel-Hadj-Tahar, R (Bel-Hadj-Tahar, Radhouane); Msaddek, M (Msaddek, Moncef)

**Source:** MONATSHFTE FUR CHEMIE **Volume:** 152 **Issue:** 5 **Pages:** 523-535 **DOI:** 10.1007/s00706-021-02764-0 **Early Access Date:** MAY 2021 **Published:** MAY 2021

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#### Record 506 of 1000

**Title:** Predicted double perovskite material Ca<sub>2</sub>ZrTiO<sub>6</sub> with enhanced n-type thermoelectric performance

**Author(s):** Rahman, AU (Rahman, Altaf Ur); Aurangzeb, M (Aurangzeb, Muhammad); Khan, R (Khan, Rashid); Zhang, QM (Zhang, Qingmin); Dahshan, A (Dahshan, Alaa)

**Source:** JOURNAL OF SOLID STATE CHEMISTRY **Volume:** 305 **Article Number:** 122661 **DOI:** 10.1016/j.jssc.2021.122661 **Early Access Date:** OCT 2021 **Published:** JAN 2022

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### Record 507 of 1000

**Title:** Effective screen-printed potentiometric devices modified with carbon nanotubes for the detection of chlorogenic acid: application to food quality monitoring

**Author(s):** Abd-Rabboh, HSM (Abd-Rabboh, Hisham S. M.); Amr, AE (Amr, Abd El-Galil E.); Naglah, AM (Naglah, Ahmed M.); Almehezia, AA (Almehezia, Abdulrahman A.); Kamel, AH (Kamel, Ayman H.)

**Source:** RSC ADVANCES **Volume:** 11 **Issue:** 61 **Pages:** 38774-38781 **DOI:** 10.1039/d1ra08152g **Published:** DEC 2 2021

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### Record 508 of 1000

**Title:** Nanomaterial-based biosensors for COVID-19 detection

**Author(s):** Al-Douri, Y (Al-Douri, Yarub); Khan, MM (Mansoob Khan, Mohammad); Jennings, JR (Robert Jennings, James); Abd El-Rehim, AF (Abd El-Rehim, Alaa F.)

**Source:** CRITICAL REVIEWS IN SOLID STATE AND MATERIALS SCIENCES **Volume:** 47 **Issue:** 6 **Pages:** 955-978 **DOI:** 10.1080/10408436.2021.1989665 **Early Access Date:** OCT 2021 **Published:** NOV 2 2022

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### Record 509 of 1000

**Title:** Repurposing of pharmaceutical drugs by high-throughput approach for antihypertensive activity as inhibitors of angiotensin-converting enzyme (ACE) using HPLC-ESI-MS/MS method

**Author(s):** Bhatti, MS (Bhatti, Muhammad Salman); Asiri, YI (Asiri, Yahya Ibrahim); Uddin, J (Uddin, Jalal); El-Seedi, HR (El-Seedi, Hesham R.); Musharraf, SG (Musharraf, Syed Ghulam)

**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 14 **Issue:** 8 **Article Number:** 103279 **DOI:** 10.1016/j.arabjc.2021.103279 **Early Access Date:** JUL 2021 **Published:** AUG 2021

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### Record 510 of 1000

**Title:** A study of heat and mass transfer micropolar fluid flow near the stagnation regions of an object

**Author(s):** Salahuddin, T (Salahuddin, T.); Khan, M (Khan, Mair); Al-Mubaddel, FS (Al-Mubaddel, Fahad S.); Alam, MM (Alam, Mohammad Mahtab); Ahmad, I (Ahmad, Irfan)

**Source:** CASE STUDIES IN THERMAL ENGINEERING **Volume:** 26 **Article Number:** 101064 **DOI:** 10.1016/j.csite.2021.101064 **Early Access Date:** MAY 2021 **Published:** AUG 2021

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### Record 511 of 1000

**Title:** Particle induced X-ray emission and Rutherford backscattering spectrometry for testing homogeneity of environmental certified reference material candidates

**Author(s):** Idris, AM (Idris, Abubakr M.); Alkhuraiji, TS (Alkhuraiji, Turki S.); Alnajjar, AO (Alnajjar, Ahmed O.); Fawy, KF (Fawy, Khaled F.); Elgorashe, REE (Elgorashe, Rafea E. E.); Ebrahim, AM (Ebrahim, Ammar M.); Noun, M (Noun, Manale); Srour, A (Srour, Ali); Roumié, M (Roumie, Mohamad); El-Zahhar, AA (El-Zahhar, Adel A.); Ashraf, IM (Ashraf, I. M.)

**Source:** INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY **Volume:** 101 **Issue:** 6 **Pages:** 778-793 **DOI:** 10.1080/03067319.2019.1671979 **Published:** MAY 3 2021

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### Record 512 of 1000

**Title:** Groundwater Quality Studies in the Kingdom of Saudi Arabia: Prevalent Research and Management Dimensions

**Author(s):** Mallick, J (Mallick, Javed); Singh, CK (Singh, Chander Kumar); AlMesfer, MK (AlMesfer, Mohammed K.); Singh, VP (Singh, Vijay P.); Alsubih, M (Alsubih, Majed)

**Source:** WATER **Volume:** 13 **Issue:** 9 **Article Number:** 1266 **DOI:** 10.3390/w13091266 **Published:** MAY 2021

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### Record 513 of 1000

**Title:** *IN-VITRO* ANTIMICROBIAL SCREENING AND COORDINATION BEHAVIOR OF METALS BASED BIDENTATE COMPOUNDS

**Author(s):** Sumrra, SH (Sumrra, Sajjad Hussain); Imran, M (Imran, Muhammad); Ibrahim, M (Ibrahim, Muhammad); Ambreen, S (Ambreen, Sabahat); Mehmood, R (Mehmood, Rashad); Assiri, MA (Assiri, Mohammed Abdullah); Irfan, A (Irfan, Ahmad)

**Source:** JOURNAL OF THE CHILEAN CHEMICAL SOCIETY **Volume:** 66 **Issue:** 1 **Pages:** 5057-5062 **Published:** MAR 2021

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#### **Record 514 of 1000**

**Title:** Analysis of performance parameters during degradation of triple-cation-based organic-inorganic hybrid perovskite solar cells

**Author(s):** Khan, F (Khan, Firoz); Fareed, I (Fareed, Imran); Al-Rasheidi, M (Al-Rasheidi, Masoud); Ahmad, N (Ahmad, Nafis); Al-Ahmed, A (Al-Ahmed, Amir); Ahmed, ZM (Ahmed, Zeyad M.); Shariq, M (Shariq, Mohammad); Zahir, MH (Zahir, Md Hasan)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 135 **Article Number:** 109094 **DOI:** 10.1016/j.inoche.2021.109094 **Early Access Date:** DEC 2021 **Published:** JAN 2022

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#### **Record 515 of 1000**

**Title:** Deposition of nanostructured Sn doped Co<sub>3</sub>O<sub>4</sub> films by a facile nebulizer spray pyrolysis method and fabrication of p-Sn doped Co<sub>3</sub>O<sub>4</sub>/n-Si junction diodes for opto-nanoelectronics

**Author(s):** Albargi, H (Albargi, Hasan); Marnadu, R (Marnadu, R.); Sujithkumar, G (Sujithkumar, G.); Alkorbi, AS (Alkorbi, Ali S.); Algadi, H (Algadi, Hassan); Shkir, M (Shkir, Mohd); Umar, A (Umar, Ahmad); Sreedevi, G (Sreedevi, Gedi)

**Source:** SENSORS AND ACTUATORS A-PHYSICAL **Volume:** 332 **Article Number:** 113067 **DOI:** 10.1016/j.sna.2021.113067 **Early Access Date:** SEP 2021 **Part:** 1 **Published:** DEC 1 2021

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#### **Record 516 of 1000**

**Title:** Metal-organic framework derived CeO<sub>2</sub>/C nanorod arrays directly grown on nickel foam as a highly efficient electrocatalyst for OER

**Author(s):** Nazar, N (Nazar, Nosheen); Manzoor, S (Manzoor, Sumaira); Rehman, YU (Rehman, Yousaf Ur); Bibi, I (Bibi, Ismat); Tyagi, D (Tyagi, Deependra); Chughtai, AH (Chughtai, Adeel Hussain); Gohar, RS (Gohar, Ruqiyah Sehrish); Najam-Ul-Haq, M (Najam-Ul-Haq, Muhammad); Imran, M (Imran, Muhammad); Ashiq, MN (Ashiq, Muhammad Naeem)

**Source:** FUEL **Volume:** 307 **Article Number:** 121823 **DOI:** 10.1016/j.fuel.2021.121823 **Early Access Date:** SEP 2021 **Published:** JAN 1 2022

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#### **Record 517 of 1000**

**Title:** Synthesis, spectral and quantum mechanical studies and molecular docking studies of Schiff base (E)-2-hydroxy-5-(((4-(N-pyrimidin-2-yl)sulfamoyl)phenyl)imino)methyl benzoic acid from 5-formyl salicylic acid and sulfadiazine

**Author(s):** Elangovan, N (Elangovan, N.); Thomas, R (Thomas, Renjith); Sowrirajan, S (Sowrirajan, S.); Irfan, A (Irfan, Ahmad)

**Source:** JOURNAL OF THE INDIAN CHEMICAL SOCIETY **Volume:** 98 **Issue:** 10 **Article Number:** 100144 **DOI:** 10.1016/j.jics.2021.100144 **Early Access Date:** SEP 2021 **Published:** OCT 2021

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#### **Record 518 of 1000**

**Title:** Facile synthesis and characterization of WO<sub>3</sub>/CuWO<sub>4</sub> nanocomposites for the removal of toxic methylene blue dye

**Author(s):** Thiyagarajan, T (Thiyagarajan, Thilagavathi); Deivasigamani, V (Deivasigamani, Venugopal); Raj, M (Raj, Marnadu); Joseph, C (Joseph, Chandrasekaran); Dheivasigamani, T (Dheivasigamani, Thangaraju); Palanivel, B (Palanivel, Baskaran); Hamdy, MS (Hamdy, Mohamed S.); Shkir, M (Shkir, Mohd)

**Source:** KOREAN JOURNAL OF CHEMICAL ENGINEERING **Volume:** 38 **Issue:** 5 **Pages:** 952-965 **DOI:** 10.1007/s11814-021-0756-x **Early Access Date:** APR 2021 **Published:** MAY 2021

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#### **Record 519 of 1000**



**Title:** Oxide-based resistive switching-based devices: fabrication, influence parameters and applications

**Author(s):** Khan, R (Khan, Rajwali); Ilyas, N (Ilyas, Nasir); Shamim, MZM (Shamim, Mohammed Zubair M.); Khan, MI (Khan, Mohammed Ilyas); Sohail, M (Sohail, Mohammad); Rahman, N (Rahman, Nasir); Khan, AA (Khan, Abid Ali); Khan, SN (Khan, Saima Naz); Khan, A (Khan, Aurangzeb)

**Source:** JOURNAL OF MATERIALS CHEMISTRY C **Volume:** 9 **Issue:** 44 **Pages:** 15755-15788 **DOI:** 10.1039/d1tc03420k **Early Access Date:** OCT 2021 **Published:** NOV 18 2021

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#### Record 520 of 1000

**Title:** Experimental and computational study of naphthalimide derivatives: Synthesis, optical, nonlinear optical and antiviral properties

**Author(s):** Kumar, S (Kumar, Santosh); Muhammad, S (Muhammad, Shabbir); Alarfaji, SS (Alarfaji, Saleh S.); Yoon, S (Yoon, Sanghyun); Kim, M (Kim, Minse); Youm, K (Youm, Keechul); Khalid, M (Khalid, Muhammad); Chaudhry, AR (Chaudhry, Aijaz Rasool); Koh, J (Koh, Joonseok)

**Source:** OPTIK **Volume:** 246 **Article Number:** 167748 **DOI:** 10.1016/j.ijleo.2021.167748 **Early Access Date:** AUG 2021 **Published:** NOV 2021

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#### Record 521 of 1000

**Title:** Combining electrochemical, surface topography analysis, and theoretical calculation methods to insight into the anti-corrosion property of *Syzygium samarangense* leaf extract

**Author(s):** Zhou, Y (Zhou, Yang); Zhu, C (Zhu, Chong); Xu, SY (Xu, Shenyong); Xiang, B (Xiang, Bin); Marzouki, R (Marzouki, Riadh)

**Source:** JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY **Volume:** 102 **Pages:** 302-311 **DOI:** 10.1016/j.jiec.2021.07.016 **Early Access Date:** AUG 2021 **Published:** OCT 25 2021

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#### Record 522 of 1000

**Title:** An Efficient Synthesis, Spectroscopic Characterization, and Optical Nonlinearity Response of Novel Salicylaldehyde Thiosemicarbazone Derivatives

**Author(s):** Khalid, M (Khalid, Muhammad); Jawaria, R (Jawaria, Rifat); Khan, MU (Khan, Muhammad Usman); Braga, AAC (Braga, Ataulpa Albert Carmo); Shafiq, Z (Shafiq, Zahid); Imran, M (Imran, Muhammad); Zafar, HMA (Zafar, Hafiz Muhammad Ahmad); Irfan, A (Irfan, Ahmad)

**Source:** ACS OMEGA **Volume:** 6 **Issue:** 24 **Pages:** 16058-16065 **DOI:** 10.1021/acsomega.1c01938 **Early Access Date:** JUN 2021 **Published:** JUN 22 2021

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#### Record 523 of 1000

**Title:** Synthesis, crystal structure, Hirshfeld surface analysis and theoretical investigation of polynuclear coordination polymers of cobalt and manganese complexes with nitrobenzene and pyrazine

**Author(s):** Hasanova, SS (Hasanova, Seadat Suliddin); Mamedova, LN (Mamedova, Lala Nizami); Ashfaq, M (Ashfaq, Muhammad); Munawar, KS (Munawar, Khurram Shahzad); Movsumov, EM (Movsumov, Elman Muhammad); Khalid, M (Khalid, Muhammad); Tahir, MN (Tahir, Muhammad Nawaz); Imran, M (Imran, Muhammad)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1250 **Article Number:** 131851 **DOI:** 10.1016/j.molstruc.2021.131851 **Early Access Date:** DEC 2021 **Part:** 2 **Published:** FEB 15 2022

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#### Record 524 of 1000

**Title:** Cross-Linked Porous Polymers as Heterogeneous Organocatalysts for Task-Specific Applications in Biomass Transformations, CO<sub>2</sub> Fixation, and Asymmetric Reactions

**Author(s):** Modak, A (Modak, Arindam); Ghosh, A (Ghosh, Anindya); Mankar, AR (Mankar, Akshay R.); Pandey, A (Pandey, Ashish); Selvaraj, M (Selvaraj, Manickam); Pant, KK (Pant, Kamal Kishore); Chowdhury, B (Chowdhury, Biswajit); Bhaumik, A (Bhaumik, Asim)

**Source:** ACS SUSTAINABLE CHEMISTRY & ENGINEERING **Volume:** 9 **Issue:** 37 **Pages:** 12431-12460 **DOI:** 10.1021/acssuschemeng.1c01537 **Early Access Date:** AUG 2021 **Published:** SEP 20 2021

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#### Record 525 of 1000

**Title:** Insight role of TiO<sub>2</sub> to improve the photocatalytic performance of WO<sub>3</sub> nanostructures for the efficient degradation of *ciprofloxacin*

**Author(s):** Tahir, MB (Tahir, Muhammad Bilal); Farman, S (Farman, Sohail); Rasheed, A (Rasheed, Adil); Alrobei, H (Alrobei, Hussein); Shahzad, K (Shahzad, Khurram); Ali, AM (Ali, Arshid Mahmood); Muhammad, S (Muhammad, Shabbir)

**Source:** ZEITSCHRIFT FUR PHYSIKALISCHE CHEMIE-INTERNATIONAL JOURNAL OF RESEARCH IN PHYSICAL CHEMISTRY & CHEMICAL PHYSICS **Volume:** 236 **Issue:** 2 **Pages:** 169-180 **DOI:** 10.1515/zpch-2021-3060 **Early Access Date:** JUL 2021 **Published:** FEB 23 2022

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#### Record 526 of 1000

**Title:** Synthesis, characterization, and computational study of copper bipyridine complex [Cu(C<sub>18</sub>H<sub>24</sub>N<sub>2</sub>)<sub>2</sub>] (NO<sub>3</sub>)<sub>2</sub> to explore its functional properties

**Author(s):** Alarfaji, SS (Alarfaji, Saleh S.); Hussain, S (Hussain, Sajjad); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Muhammad, S (Muhammad, Shabbir); Khan, IU (Khan, Islam Ullah); Rabbani, F (Rabbani, Faiz); Gilani, MA (Gilani, Mazhar Amjad); Ullah, H (Ullah, Hamid)

**Source:** ZEITSCHRIFT FUR NATURFORSCHUNG SECTION C-A JOURNAL OF BIOSCIENCES **Volume:** 77 **Issue:** 5-6 **Pages:** 241-251 **DOI:** 10.1515/znc-2021-0248 **Early Access Date:** DEC 2021 **Published:** MAY 25 2022

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#### Record 527 of 1000

**Title:** Molecular engineering of indenoindene-3-ethylrodanine acceptors with A2-A1-D-A1-A2 architecture for promising fullerene-free organic solar cells

**Author(s):** Khalid, M (Khalid, Muhammad); Momina (Momina); Imran, M (Imran, Muhammad); Rehman, MFU (Rehman, Muhammad Fayyaz Ur); Braga, AAC (Braga, Atualpa Albert Carmo); Akram, MS (Akram, Muhammad Safwan)

**Source:** SCIENTIFIC REPORTS **Volume:** 11 **Issue:** 1 **Article Number:** 20320 **DOI:** 10.1038/s41598-021-99308-7 **Published:** OCT 13 2021

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#### Record 528 of 1000

**Title:** Anti-COVID-19 activity of some benzofused 1,2,3-triazolesulfonamide hybrids using *in silico* and *in vitro* analyses

**Author(s):** Alzahrani, AY (Alzahrani, Abdullah Y.); Shaaban, MM (Shaaban, Marwa M.); Elwakil, BH (Elwakil, Bassma H.); Hamed, MT (Hamed, Moaaz T.); Rezki, N (Rezki, Nadjet); Aouad, MR (Aouad, Mohamed R.); Zakaria, MA (Zakaria, Mohamed A.); Hagar, M (Hagar, Mohamed)

**Source:** CHEMOMETRICS AND INTELLIGENT LABORATORY SYSTEMS **Volume:** 217 **Article Number:** 104421 **DOI:** 10.1016/j.chemolab.2021.104421 **Early Access Date:** SEP 2021 **Published:** OCT 15 2021

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#### Record 529 of 1000

**Title:** Geochemical variation and contamination level of potentially toxic elements in land-uses urban soils

**Author(s):** Islamd, MS (Islamd, Md Saiful); Idris, AM (Idris, Abubakr M.); Islam, AMT (Islam, Abu Reza Md Towfiqul); Phoungthong, K (Phoungthong, Khampho); Ali, MM (Ali, Mir Mohammad); Kabir, MH (Kabir, Md Humayun)

**Source:** INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY **Volume:** 103 **Issue:** 19 **Pages:** 7859-7876 **DOI:** 10.1080/03067319.2021.1977286 **Early Access Date:** SEP 2021 **Published:** DEC 26 2023

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#### Record 530 of 1000

**Title:** Synergistic surface basicity enhancement effect for doping of transition metals in nanocrystalline MgO as catalysts towards one pot Wittig reaction

**Author(s):** Moulavi, M (Moulavi, Mansur); Kanade, K (Kanade, Kaluram); Amalnerkar, D (Amalnerkar, Dinesh); Fatehmulla, A (Fatehmulla, Amanullah); Aldhafiri, AM (Aldhafiri, Abdullah M.); Manthrammel, MA (Manthrammel, M. Aslam)

**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 14 **Issue:** 5 **Article Number:** 103134 **DOI:** 10.1016/j.arabjc.2021.103134 **Early Access Date:** APR 2021 **Published:** MAY 2021

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**Record 531 of 1000**

**Title:** Gamma-ray attenuation, fast neutron removal cross-section and build up factor of Cu<sub>2</sub>MnGe[S, Se, Te]<sub>4</sub> semiconductor compounds: Novel approach

**Author(s):** Sabry, N (Sabry, N.); Zahran, HY (Zahran, H. Y.); Yousef, E (Yousef, El Sayed); Algarni, H (Algarni, H.); Umar, A (Umar, Ahmad); Albargi, HB (Albargi, Hasan B.); Yahia, IS (Yahia, I. S.)

**Source:** RADIATION PHYSICS AND CHEMISTRY **Volume:** 179 **Article Number:** 109248 **DOI:** 10.1016/j.radphyschem.2020.109248 **Published:** FEB 2021

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**Record 532 of 1000**

**Title:** Optoelectronic and photocatalytic properties of GaN, GeS and SiS monolayers and their vdW heterostructures

**Author(s):** Abid, A (Abid, Aqsa); Haneef, M (Haneef, Muhammad); Ali, S (Ali, Sajjad); Dahshan, A (Dahshan, A.)

**Source:** JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS **Volume:** 161 **Article Number:** 110433 **DOI:** 10.1016/j.jpcs.2021.110433 **Early Access Date:** OCT 2021 **Published:** FEB 2022

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**Record 533 of 1000**

**Title:** Spatio-temporal analysis and simulation of land cover changes and their impacts on land surface temperature in urban agglomeration of Bisha Watershed, Saudi Arabia

**Author(s):** Mallick, J (Mallick, Javed); Singh, VP (Singh, Vijay P.); Almesfer, MK (Almesfer, Mohammed K.); Talukdar, S (Talukdar, Swapan); Alsubhi, M (Alsubhi, Majed); Ahmed, M (Ahmed, Mohd.); Khan, RA (Khan, Roohul Abad)

**Source:** GEOCATO INTERNATIONAL **Volume:** 37 **Issue:** 25 **Pages:** 7591-7617 **DOI:** 10.1080/10106049.2021.1980616 **Early Access Date:** SEP 2021 **Published:** DEC 13 2022

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**Record 534 of 1000**

**Title:** Chemotherapeutic and chemopreventive potentials of *p*-coumaric acid - Squid chitosan nanogel loaded with *Syzygium aromaticum* essential oil

**Author(s):** Kamal, I (Kamal, Islam); Khedr, AIM (Khedr, Amgad I. M.); Alfaifi, MY (Alfaifi, Mohammad Y.); Elbehairi, SEI (Elbehairi, Serag Eldin, I); Elshaarawy, RFM (Elshaarawy, Reda F. M.); Saad, AS (Saad, Ahmed S.)

**Source:** INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES **Volume:** 188 **Pages:** 523-533 **DOI:** 10.1016/j.ijbiomac.2021.08.038 **Early Access Date:** AUG 2021 **Published:** OCT 1 2021

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**Record 535 of 1000**

**Title:** Insight into the corrosion inhibition property of Artocarpus heterophyllus Lam leaves extract

**Author(s):** He, JH (He, Jiahong); Xu, Q (Xu, Qiang); Li, GQ (Li, Guoqiang); Li, Q (Li, Qiang); Marzouki, R (Marzouki, Riadh); Li, WP (Li, Wenpo)

**Source:** JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY **Volume:** 102 **Pages:** 260-270 **DOI:** 10.1016/j.jiec.2021.07.007 **Early Access Date:** AUG 2021 **Published:** OCT 25 2021

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**Record 536 of 1000**

**Title:** Synthesis and Photoluminescence Properties of MoS<sub>2</sub>/Graphene Heterostructure by Liquid-Phase Exfoliation

**Author(s):** Kandhasamy, DM (Kandhasamy, Durai Murugan); Mareeswaran, PM (Mareeswaran, Paulpandian Muthu); Chellappan, S (Chellappan, Selvaraju); Namasivayam, D (Namasivayam, Dhenadhayalan); Aldahish, A (Aldahish, Afaf); Chidambaram, K (Chidambaram, Kumarappan)

**Source:** ACS OMEGA **Volume:** 7 **Issue:** 1 **Pages:** 629-637 **DOI:** 10.1021/acsomega.1c05250 **Early Access Date:** DEC 2021 **Published:** JAN 11 2022

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**Record 537 of 1000**

**Title:** Well-defined heterointerface over the doped sulfur atoms in NiS@S-rGO nanocomposite improving spatial charge separation with excellent visible-light photocatalytic performance

**Author(s):** Nadeem, S (Nadeem, Sohail); Khushi, HH (Khushi, Hafiza Humaira); Javed, M (Javed, Mohsin); Iqbal, S (Iqbal, Shahid); Alsaab, HO (Alsaab, Hashem O.); Awwad, NS (Awwad, Nasser S.); Ibrahim, HA (Ibrahim, Hala A.); Akhter, T (Akhter, Toheed); Rauf, A (Rauf, Abdul); Raza, H (Raza, Hamid)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1252 **Article Number:** 132191 **DOI:** 10.1016/j.molstruc.2021.132191 **Early Access Date:** DEC 2021 **Published:** MAR 15 2022

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#### **Record 538 of 1000**

**Title:** Instability of magneto-hydro-dynamic flow of thermocapillary liquid layers of shear-thinning nanofluids with oxide nanoparticles in water

**Author(s):** Hussain, Z (Hussain, Zakir); Rehman, AU (Rehman, Asad Ur); Shaikh, AJ (Shaikh, Ahson Jabbar); Hu, KX (Hu, Kai-Xin); Ali, M (Ali, Mehboob); Sultan, F (Sultan, Faisal); Shahzad, M (Shahzad, Muhammad); Altanji, M (Altanji, Mohamed)

**Source:** CASE STUDIES IN THERMAL ENGINEERING **Volume:** 26 **Article Number:** 100998 **DOI:** 10.1016/j.csite.2021.100998 **Early Access Date:** APR 2021 **Published:** AUG 2021

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#### **Record 539 of 1000**

**Title:** All-Solid-State Potentiometric Ion-Sensors Based on Tailored Imprinted Polymers for Pholcodine Determination

**Author(s):** Abd-Rabboh, HSM (Abd-Rabboh, Hisham S. M.); Amr, AE (E. Amr, Abd El-Galil); Almehizia, AA (Almehizia, Abdulrahman A.); Kamel, AH (Kamel, Ayman H.)

**Source:** POLYMERS **Volume:** 13 **Issue:** 8 **Article Number:** 1192 **DOI:** 10.3390/polym13081192 **Published:** APR 2021

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#### **Record 540 of 1000**

**Title:** One-pot flash combustion synthesis of Fe@NiO nanocomposites for supercapacitor applications

**Author(s):** Khan, A (Khan, Aslam); Shkir, M (Shkir, Mohd); Ansari, SA (Ansari, Sajid Ali); Parveen, N (Parveen, Nazish); AlFaify, S (AlFaify, S.); El-Toni, AM (El-Toni, Ahmed Mohamed); Gupta, RK (Gupta, Ravindra Kumar); Adil, SF (Adil, Syed Farooq)

**Source:** CERAMICS INTERNATIONAL **Volume:** 47 **Issue:** 7 **Pages:** 9024-9033 **DOI:** 10.1016/j.ceramint.2020.12.025 **Early Access Date:** FEB 2021 **Part:** A **Published:** APR 1 2021

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#### **Record 541 of 1000**

**Title:** Metal incorporated aminothiazole-derived compounds: synthesis, density function theory analysis, *in vitro* antibacterial and antioxidant evaluation

**Author(s):** Sumrra, SH (Sumrra, Sajjad Hussain); Arshad, Z (Arshad, Zunaira); Zafar, W (Zafar, Wardha); Mahmood, K (Mahmood, Khalid); Ashfaq, M (Ashfaq, Muhammad); Ul Hassan, A (Ul Hassan, Abrar); Mughal, EU (Mughal, Ehsan Ullah); Irfan, A (Irfan, Ahmad); Imran, M (Imran, Muhammad)

**Source:** ROYAL SOCIETY OPEN SCIENCE **Volume:** 8 **Issue:** 9 **Article Number:** 210910 **DOI:** 10.1098/rsos.210910 **Published:** SEP 29 2021

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#### **Record 542 of 1000**

**Title:** Rb(I)/Se(IV) co-dopant into hydroxyapatite; their structural, morphological, and antibacterial effectiveness for biomedical applications

**Author(s):** Awwad, NS (Awwad, N. S.); Ahmed, MK (Ahmed, M. K.); Afifi, M (Afifi, M.); Ibrahim, HA (Ibrahim, Hala A.)

**Source:** APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING **Volume:** 127 **Issue:** 3 **Article Number:** 194 **DOI:** 10.1007/s00339-021-04337-8 **Published:** FEB 20 2021

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#### **Record 543 of 1000**

**Title:** Synthesis of Urease Inhibitory 2, 4-bis (4-cyanobenzyl)glycoluril using Sandmeyer Reaction and Density Functional Theory Investigation

**Author(s):** Yawer, MA (Yawer, Mirza Arfan); Bano, S (Bano, Shehar); Saleem, M (Saleem, Muhammad); Yawer, A (Yawer, Affiefa); Hussain, R (Hussain, Riaz); Imran, M (Imran, Muhammad); Irfan, A (Irfan, Ahmad); Rauf, A (Rauf, Abdur); Abu-Izneid, T (Abu-Izneid, Tareq)

**Source:** CURRENT ORGANIC SYNTHESIS **Volume:** 18 **Issue:** 6 **Pages:** 592-597 **DOI:** 10.2174/1570179418666210113162909 **Published:** 2021

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#### Record 544 of 1000

**Title:** Strong emission at 1000 nm from Pr<sup>3+</sup>/Yb<sup>3+</sup>-codoped multicomponent tellurite glass

**Author(s):** Burtan-Gwizdala, B (Burtan-Gwizdala, Bozena); Reben, M (Reben, Manuela); Cisowski, J (Cisowski, Jan); Yousef, E (Yousef, El Sayed); Lisiecki, R (Lisiecki, Radoslaw); Nosidlak, N (Nosidlak, Natalia)

**Source:** PURE AND APPLIED CHEMISTRY **Volume:** 94 **Issue:** 2 **Pages:** 147-156 **DOI:** 10.1515/pac-2021-0701 **Early Access Date:** AUG 2021 **Published:** FEB 23 2022

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#### Record 545 of 1000

**Title:** Experimental and theoretical investigations on kinetic mechanisms of low-pressure CO<sub>2</sub> adsorption onto Malaysian coals

**Author(s):** Abunowara, M (Abunowara, Mustafa); Sufian, S (Sufian, Suriati); Bustam, MA (Bustam, Mohamad Azmi); Babar, M (Babar, Muhammad); Eldemerdash, U (Eldemerdash, Usama); Bencini, R (Bencini, Roberto); Ullah, S (Ullah, Sami); Assiri, MA (Assiri, Mohammed Ali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Mukhtar, A (Mukhtar, Ahmad)

**Source:** JOURNAL OF NATURAL GAS SCIENCE AND ENGINEERING **Volume:** 88 **Article Number:** 103828 **DOI:** 10.1016/j.jngse.2021.103828 **Early Access Date:** FEB 2021 **Published:** APR 2021

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#### Record 546 of 1000

**Title:** Less is more: Optimising the biocementation of coastal sands by reducing influent urea through response surface method

**Author(s):** Ashraf, MS (Ashraf, Muhammad Sohail); Shah, MU (Shah, Mansoor Ul Hassan); Bokhari, A (Bokhari, Awais); Hasan, M (Hasan, Mudassir)

**Source:** JOURNAL OF CLEANER PRODUCTION **Volume:** 315 **Article Number:** 128208 **DOI:** 10.1016/j.jclepro.2021.128208 **Early Access Date:** JUL 2021 **Published:** SEP 15 2021

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#### Record 547 of 1000

**Title:** A Highly Efficient Environmental-Friendly Adsorbent Based on Schiff Base for Removal of Cu(II) from Aqueous Solutions: A Combined Experimental and Theoretical Study

**Author(s):** Tighadouini, S (Tighadouini, Said); Roby, O (Roby, Othmane); Radi, S (Radi, Smaail); Lakbaibi, Z (Lakbaibi, Zouhair); Saddik, R (Saddik, Rafik); Mabkhot, YN (Mabkhot, Yahia N.); Almarhoon, ZM (Almarhoon, Zainab M.); Garcia, Y (Garcia, Yann)

**Source:** MOLECULES **Volume:** 26 **Issue:** 17 **Article Number:** 5164 **DOI:** 10.3390/molecules26175164 **Published:** SEP 2021

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#### Record 548 of 1000

**Title:** Response to "Comment on 'Insights into the physical aging in chalcogenide glasses: A case study of a first-generation As<sub>2</sub>Se<sub>3</sub> binary glass" [Coord. Chem. Rev. 442 (2021) 213992]

**Author(s):** Pal, SK (Pal, S. K.); Mehta, N (Mehta, N.); Mikla, VI (Mikla, V. I.); Horvat, AA (Horvat, A. A.); Minkovich, VV (Minkovich, V. V.); Dahshan, A (Dahshan, A.)

**Source:** COORDINATION CHEMISTRY REVIEWS **Volume:** 449 **Article Number:** 214205 **DOI:** 10.1016/j.ccr.2021.214205 **Early Access Date:** OCT 2021 **Published:** DEC 15 2021

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#### Record 549 of 1000

**Title:** Insights into the physical aging in chalcogenide glasses: A case study of a first-generation As<sub>2</sub>Se<sub>3</sub> binary glass (vol 442, 213992, 2021)

**Author(s):** Pal, SK (Pal, Shiv Kumar); Mehta, N (Mehta, Neeraj); Mikla, VI (Mikla, V. I.); Horvat, AA (Horvat, A. A.); Minkovich, VV (Minkovich, V. V.); Dahshan, A (Dahshan, A.)

**Record 550 of 1000**

**Title:** Investigation of novel titanate nanotubes modified with Ce, Fe, Zn and Zr for efficient dye degradation performance, inhibition of bacterial and fungal growth and anticorrosion activity in acid medium

**Author(s):** Bouayed, MA (Bouayed, Mounia-aouicha); Ameer, N (Ameer, Nawal); Taieb-Brahimi, F (Taieb-Brahimi, Fawzia); Hidouri, T (Hidouri, Tarek); Naser, S (Naser, Samia); Ghouas, H (Ghouas, Halima); Bedrane, S (Bedrane, Sumeya); Al-Shahri, BM (Al-Shahri, Badria M.); Bachir, R (Bachir, Redouane)

**Source:** REACTION KINETICS MECHANISMS AND CATALYSIS **Volume:** 134 **Issue:** 1 **Pages:** 517-537 **DOI:** 10.1007/s11144-021-02068-8 **Early Access Date:** SEP 2021 **Published:** OCT 2021

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**Record 551 of 1000**

**Title:** ANTI-OXIDANT AND ANTI-INFLAMMATORY POTENTIAL OF SECONDARY METABOLITES FROM *Daphne mucronata* ROYLE AND THEIR FIRST-PRINCIPLES INVESTIGATIONS

**Author(s):** Imran, M (Imran, Muhammad); Irfan, A (Irfan, Ahmad); Hussain, S (Hussain, Sajjad); Assiri, MA (Assiri, Mohammed A.); Uddin, J (Uddin, Jalal); Hussain, A (Hussain, Ajaz); Khalid, N (Khalid, Noreen); Al-Sehemi, AG (Al-Sehemi, Abdullah G.)

**Source:** JOURNAL OF THE CHILEAN CHEMICAL SOCIETY **Volume:** 66 **Issue:** 3 **Pages:** 5300-5306 **Published:** SEP 2021

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**Record 552 of 1000**

**Title:** High surface area microporous activated carbon from Pisum sativum peels for hexavalent chromium removal from aquatic environment

**Author(s):** Sahlabji, T (Sahlabji, Taher); El-Nemr, MA (El-Nemr, Mohamed A.); El Nemr, A (El Nemr, Ahmed); Ragab, S (Ragab, Safaa); Alghamdi, MM (Alghamdi, Majed M.); El-Zahhar, AA (El-Zahhar, Adel A.); Idris, AM (Idris, Abubakr M.); Said, TO (Said, Tarek O.)

**Source:** TOXIN REVIEWS **Volume:** 41 **Issue:** 2 **Pages:** 639-649 **DOI:** 10.1080/15569543.2021.1908361 **Early Access Date:** MAR 2021 **Published:** APR 3 2022

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**Record 553 of 1000**

**Title:** Role of the spacer cation in the growth and crystal orientation of two-dimensional perovskites

**Author(s):** Parikh, N (Parikh, Nishi); Tavakoli, MM (Tavakoli, Mohammad Mahdi); Pandey, M (Pandey, Manoj); Abul Kalam (Abul Kalam); Prochowicz, D (Prochowicz, Daniel); Yadav, P (Yadav, Pankaj)

**Source:** SUSTAINABLE ENERGY & FUELS **Volume:** 5 **Issue:** 5 **Pages:** 1255-1279 **DOI:** 10.1039/d0se01469a **Published:** MAR 7 2021

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**Record 554 of 1000**

**Title:** A novel biocompatible formate bridged 1D-Cu(II) coordination polymer induces apoptosis selectively in human lung adenocarcinoma (A549) cells

**Author(s):** Usman, M (Usman, Mohammad); Khan, RA (Khan, Rais Ahmad); Khan, MR (Khan, Mohammad Rashid); Abul Farah, M (Abul Farah, Mohammad); BinSharfan, II (BinSharfan, Ibtisam I.); Alharbi, W (Alharbi, Walaa); Shaik, JP (Shaik, Jilani. P.); Parine, NR (Parine, Narasimha Reddy); Alsalmeh, A (Alsalmeh, Ali); Tabassum, S (Tabassum, Sartaj)

**Source:** DALTON TRANSACTIONS **Volume:** 50 **Issue:** 6 **Pages:** 2253-2267 **DOI:** 10.1039/d0dt03782f **Published:** FEB 14 2021

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**Record 555 of 1000**

**Title:** Synthesis and characterization for new Zn(II) complexes and their optimizing fertilization performance in planting corn hybrid

**Author(s):** Althagafi, I (Althagafi, Ismail); Morad, M (Morad, Moataz); Al-dawood, AY (Al-dawood, Aisha Y.); Ibraheem, F (Ibraheem, Farag); Yarkandy, N (Yarkandy, Naema); Katouah, HA (Katouah, Hanadi A.); Hossan, AS (Hossan, Aisha S.); Khedr, AM (Khedr, Abdalla M.); El-Metwaly, NM (El-Metwaly, Nashwa M.)

**Record 556 of 1000**

**Title:** Structural, vibrational, morphological, optical and electrical properties of NiS and fabrication of SnS/NiS nanocomposite for photodetector applications

**Author(s):** Abhiram, N (Abhiram, N.); Thangaraju, D (Thangaraju, D.); Marnadu, R (Marnadu, R.); Arputhavalli, GJ (Arputhavalli, G. Johnsy); Gunasekaran, S (Gunasekaran, S.); Vetrivelan, P (Vetrivelan, P.); Devi, NSMPL (Devi, N. S. M. P. Latha); Shkir, M (Shkir, Mohd); Algarni, H (Algarni, H.)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 133 **Article Number:** 108882 **DOI:** 10.1016/j.inoche.2021.108882 **Early Access Date:** SEP 2021 **Published:** NOV 2021

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**Record 557 of 1000**

**Title:** Synthesis of an efficient, and recyclable mesoporous BiVO<sub>4</sub>/TiO<sub>2</sub> direct Z-scheme heterojunction by sonochemical route for photocatalytic hydrogen production and photodegradation of rhodamine B dye in the visible region

**Author(s):** Abd-Rabboh, HSM (Abd-Rabboh, Hisham S. M.); Benaissa, M (Benaissa, Mhamed); Hamdy, MS (Hamdy, Mohamed S.); Ahmed, MA (Ahmed, M. A.); Glal, M (Glal, Maryam)

**Source:** OPTICAL MATERIALS **Volume:** 114 **Article Number:** 110761 **DOI:** 10.1016/j.optmat.2020.110761 **Early Access Date:** MAR 2021 **Published:** APR 2021

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**Record 558 of 1000**

**Title:** Enhanced linear and nonlinear optical response of superhalogen (Al<sub>7</sub>) doped graphitic carbon nitride (g-C<sub>3</sub>N<sub>4</sub>)

**Author(s):** Shehzad, RA (Shehzad, Rao Aqil); Iqbal, J (Iqbal, Javed); Ayub, K (Ayub, Khurshid); Nawaz, F (Nawaz, Faisal); Muhammad, S (Muhammad, Shabbir); Ayub, AR (Ayub, Ali Raza); Iqbal, S (Iqbal, Saleem)

**Source:** OPTIK **Volume:** 226 **Article Number:** 165923 **DOI:** 10.1016/j.ijleo.2020.165923 **Part:** 1 **Published:** JAN 2021

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**Record 559 of 1000**

**Title:** Assessment of new designed surfactants as eco-friendly inhibitors for the corrosion of steel in acidic environment and evaluation of their biological and surface features: thermodynamic, kinetic and mechanistic aspects

**Author(s):** Fawzy, A (Fawzy, Ahmed); El-Sayed, R (El-Sayed, Refat); Al Bahir, A (Al Bahir, Areej); Morad, M (Morad, Moataz); Althagafi, I (Althagafi, Ismail); Althagafy, K (Althagafy, Khalid)

**Source:** JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY **Volume:** 36 **Issue:** 18 **Pages:** 1993-2019 **DOI:** 10.1080/01694243.2021.1997039 **Early Access Date:** OCT 2021 **Published:** SEP 17 2022

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**Record 560 of 1000**

**Title:** An Economic Synthesis of New Thiazole Derivative as a Potent Anticancer, Anti-Antibiotic Resistant Bacteria, and Larvicidal Agent

**Author(s):** Mabkhot, YN (Mabkhot, Yahia N.); Khaled, JMA (Khaled, Jamal M. A.); Alharbi, NSHA (Alharbi, Naiyf S. H. A.); Mohammed, FAN (Mohammed, Fahd Ali Nasr); Almekhlafi, FA (Abdo Almekhlafi, Fahd); Abutaha, NM (Abutaha, Nael Mahmmoud); Kheder, NA (Kheder, Nabila A.); Asiri, YI (Asiri, Yahya I.); Bin Muhsinah, A (Bin Muhsinah, Abdullatif); Alsayari, A (Alsayari, Abdulrhman)

**Source:** POLYCYCLIC AROMATIC COMPOUNDS **Volume:** 42 **Issue:** 9 **Pages:** 6537-6545 **DOI:** 10.1080/10406638.2021.1984952 **Early Access Date:** SEP 2021 **Published:** OCT 21 2022

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**Record 561 of 1000**

**Title:** CdS nanorods supported copper-nickel hydroxide for hydrogen production under direct sunlight irradiation

**Author(s):** Majeed, I (Majeed, Imran); Arif, A (Arif, Ayesha); Faizan, M (Faizan, Muhammad); Khan, MA (Khan, Mohd Adnan); Imran, M (Imran, Muhammad); Ali, H (Ali, Hassan); Nadeem, MA (Nadeem, Muhammad Amtiaz); Nadeem, MA (Nadeem, Muhammad Arif)

**Source:** JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING **Volume:** 9 **Issue:** 4 **Article Number:** 105670 **DOI:** 10.1016/j.jece.2021.105670 **Early Access Date:** JUN 2021 **Published:** AUG 2021

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#### **Record 562 of 1000**

**Title:** Design, synthesis, X-ray analysis, and biological screening of new oxime and enaminone thiazoline-2-thione derivatives

**Author(s):** Asiri, YI (Asiri, Yahya I.); Bin Muhsinah, A (Bin Muhsinah, Abdullatif); Alsayari, A (Alsayari, Abdulrhman); Ghabbour, HA (Ghabbour, Hazem A.); Almarhoon, ZM (Almarhoon, Zainab M.); Al-Aizari, FA (Al-Aizari, Faiz A.); Venkatesan, K (Venkatesan, Kumar); Tasqeeruddin, S (Tasqeeruddin, Syed); Sulthana, SS (Sulthana, Syeda Shaheen); Mabkhot, YN (Mabkhot, Yahia N.)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1223 **Article Number:** 128977 **DOI:** 10.1016/j.molstruc.2020.128977 **Published:** JAN 5 2021

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#### **Record 563 of 1000**

**Title:** Role of the spacer cation in the growth and crystal orientation of two-dimensional perovskites (vol 5, pg 1255, 2021)

**Author(s):** Parikh, N (Parikh, Nishi); Tavakoli, MM (Tavakoli, Mohammad Mahdi); Pandey, M (Pandey, Manoj); Kalam, A (Kalam, Abul); Prochowicz, D (Prochowicz, Daniel); Yadav, P (Yadav, Pankaj)

**Source:** SUSTAINABLE ENERGY & FUELS **Volume:** 5 **Issue:** 7 **Pages:** 2190-2190 **DOI:** 10.1039/d1se90019f **Early Access Date:** MAR 2021 **Published:** APR 7 2021

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#### **Record 564 of 1000**

**Title:** Potential neuroprotective activity of *Mentha longifolia* L. in aluminum chloride-induced rat model of Alzheimer's disease

**Author(s):** Elshamy, S (Elshamy, Salma); Motaal, AA (Motaal, Amira Abdel); Abdel-Halim, M (Abdel-Halim, Mohammad); Medhat, D (Medhat, Dalia); Handoussa, H (Handoussa, Heba)

**Source:** JOURNAL OF FOOD BIOCHEMISTRY **Volume:** 45 **Issue:** 4 **Article Number:** e13644 **DOI:** 10.1111/jfbc.13644 **Early Access Date:** FEB 2021 **Published:** APR 2021

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#### **Record 565 of 1000**

**Title:** Improved photocatalytic degradation of rhodamine B under visible light and magnetic properties using microwave combustion grown Ni doped copper ferrite spinel nanoparticles

**Author(s):** Dhiwahar, AT (Dhiwahar, A. Tony); Maruthamuthu, S (Maruthamuthu, S.); Marnadu, R (Marnadu, R.); Sundararajan, M (Sundararajan, M.); Manthrammel, MA (Manthrammel, M. Aslam); Shkir, M (Shkir, Mohd); Sakthivel, P (Sakthivel, P.); Reddy, VRM (Reddy, Vasudeva Reddy Minnam)

**Source:** SOLID STATE SCIENCES **Volume:** 113 **Article Number:** 106542 **DOI:** 10.1016/j.solidstatesciences.2021.106542 **Early Access Date:** JAN 2021 **Published:** MAR 2021

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#### **Record 566 of 1000**

**Title:** Zn and Mn doped Ba<sub>1-x</sub>Zn<sub>x</sub>Fe<sub>12-y</sub>MnyO<sub>19</sub> as highly photoactive under visible light with enhanced electrochemical and dielectric properties

**Author(s):** Khaliq, N (Khaliq, Naba); Bibi, I (Bibi, Ismat); Majid, F (Majid, Farzana); Sultan, M (Sultan, Misbah); Amami, M (Amami, Mongi); Iqbal, M (Iqbal, Munawar)

**Source:** MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING **Volume:** 139 **Article Number:** 106324 **DOI:** 10.1016/j.mssp.2021.106324 **Early Access Date:** NOV 2021 **Published:** MAR 1 2022

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#### **Record 567 of 1000**

**Title:** Synthesis and characterization of CeO<sub>2</sub> supported ZSM-5 zeolite for organic dye degradation

**Author(s):** Prabhu, S (Prabhu, S.); Elumalai, N (Elumalai, N.); Selvaraj, M (Selvaraj, M.); Harish, S (Harish, S.); Ramesh, R (Ramesh, R.); Silambarasan, A (Silambarasan, A.); Navaneethan, M (Navaneethan, M.); Ramu, P (Ramu, P.)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 33 **Issue:** 12 **Special Issue:** SI **Pages:** 9211-9223 **DOI:** 10.1007/s10854-021-07216-3 **Early Access Date:** OCT 2021 **Published:** APR 2022



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**Record 568 of 1000**

**Title:** Quality and environmental impacts of oil production through pyrolysis of waste tyres

**Author(s):** Yasar, A (Yasar, Abdullah); Rana, S (Rana, Saba); Moniruzzaman, M (Moniruzzaman, Muhammad); Nazar, M (Nazar, Masooma); Tabinda, AB (Tabinda, Amtul Bari); Haider, R (Haider, Rizwan); Ahmad, A (Ahmad, Aqeel); Mukhtar, A (Mukhtar, Ahmad); Qyyum, MA (Qyyum, Muhammad Abdul); Ullah, S (Ullah, Sami)

**Source:** ENVIRONMENTAL TECHNOLOGY & INNOVATION **Volume:** 23 **Article Number:** 101565 **DOI:** 10.1016/j.eti.2021.101565 **Early Access Date:** APR 2021 **Published:** AUG 2021

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**Record 569 of 1000**

**Title:** Novel Structural Hybrids of Pyrrole and Thiazole Moieties: Synthesis and Evaluation of Antibacterial and Antifungal Activities

**Author(s):** Salem, MA (Salem, Mohamed A.); Abbas, SY (Abbas, Samir Y.); El-Sharief, MAM (El-Sharief, Marwa A. M.); Helal, MH (Helal, Mohamed H.); Gouda, MA (Gouda, Moustafa A.); Assiri, MA (Assiri, Mohammed A.); Ali, TE (Ali, Tarik E.)

**Source:** ACTA CHIMICA SLOVENICA **Volume:** 68 **Issue:** 4 **Pages:** 990-996 **DOI:** 10.17344/acsi.2021.6980 **Published:** 2021

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**Record 570 of 1000**

**Title:** Theoretical investigations of optoelectronic and transport properties of  $Rb_{2}YnX_{6}$  ( $X = Cl, Br, I$ ) double perovskite materials for solar cell applications

**Author(s):** Nawaz, PA (Nawaz, Pakeeza Aymen); Mustafa, GM (Mustafa, Ghulam M.); Iqbal, SS (Iqbal, Sadia Sagar); Noor, NA (Noor, N. A.); Ahmad, TS (Ahmad, Tasawer Shahzad); Mahmood, A (Mahmood, Asif); Neffati, R (Neffati, R.)

**Source:** SOLAR ENERGY **Volume:** 231 **Pages:** 586-592 **DOI:** 10.1016/j.solener.2021.11.076 **Early Access Date:** DEC 2021 **Published:** JAN 1 2022

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**Record 571 of 1000**

**Title:** Theoretical conformations studies on 2-Acetyl-gamma-butyrolactone structure and stability in aqueous phase and the solvation effects on electronic properties by quantum computational methods

**Author(s):** Thirunavukkarasu, M (Thirunavukkarasu, M.); Balaji, G (Balaji, G.); Muthu, S (Muthu, S.); Sakthivel, S (Sakthivel, S.); Prabakaran, P (Prabakaran, P.); Irfan, A (Irfan, Ahmad)

**Source:** COMPUTATIONAL AND THEORETICAL CHEMISTRY **Volume:** 1208 **Article Number:** 113534 **DOI:** 10.1016/j.comptc.2021.113534 **Early Access Date:** DEC 2021 **Published:** FEB 2022

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**Record 572 of 1000**

**Title:** Dual-functional single stranded deoxyribonucleic acid for graphene oxide reduction and charge storage enhancement

**Author(s):** Albarqouni, Y (Albarqouni, Yasin); Ali, GAM (Ali, Gomaa A. M.); Lee, SP (Lee, Soon Poh); Mohd-Hairul, A (Mohd-Hairul, Ab Rahim); Algarni, H (Algarni, H.); Chong, KF (Chong, Kwok Feng)

**Source:** ELECTROCHIMICA ACTA **Volume:** 399 **Article Number:** 139366 **DOI:** 10.1016/j.electacta.2021.139366 **Early Access Date:** OCT 2021 **Published:** DEC 10 2021

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**Record 573 of 1000**

**Title:** Flower-like CuO/NiO nanostructures decorated activated carbon nanofiber membranes for flexible, sensitive, and selective enzyme-free glucose detection

**Author(s):** Saravanan, J (Saravanan, J.); Pannipara, M (Pannipara, Mehboobali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Talebi, S (Talebi, Sara); Periasamy, V (Periasamy, Vengadesh); Shah, SS (Shah, Syed Shaheen); Aziz, MA (Aziz, Md. Abdul); Kumar, GG (Gnana Kumar, G.)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 32 **Issue:** 20 **Pages:** 24775-24789 **DOI:** 10.1007/s10854-021-06927-x **Early Access Date:** SEP 2021 **Published:** OCT 2021

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### Record 574 of 1000

**Title:** Bimetallic metal-organic framework derived 3D hierarchical NiO/Co<sub>3</sub>O<sub>4</sub>/C hollow microspheres on biodegradable garbage bag for sensitive, selective, and flexible enzyme-free electrochemical glucose detection

**Author(s):** Vignesh, A (Vignesh, A.); Vajeeston, P (Vajeeston, Ponniah); Pannipara, M (Pannipara, Mehboobali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Xia, Y (Xia, Yang); Kumar, GG (Kumar, G. Gnana)

**Source:** CHEMICAL ENGINEERING JOURNAL **Volume:** 430 **Article Number:** 133157 **DOI:** 10.1016/j.cej.2021.133157 **Early Access Date:** DEC 2021 **Part:** 4 **Published:** FEB 15 2022

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### Record 575 of 1000

**Title:** Synthesis and characterization studies of high-density polyethylene -based nanocomposites with enhanced surface energy, tribological, and electrical properties

**Author(s):** Dabees, S (Dabees, Sameh); Elshalakany, A (Elshalakany, Abou Bakr); Tirth, V (Tirth, Vineet); Kamel, BM (Kamel, Bahaa M.)

**Source:** POLYMER TESTING **Volume:** 98 **Article Number:** 107193 **DOI:** 10.1016/j.polymertesting.2021.107193 **Early Access Date:** APR 2021 **Published:** JUN 2021

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### Record 576 of 1000

**Title:** Investigation on synergistic effect of rGO and carbon quantum dots-embedded ZnO hollow spheres for improved photocatalytic aqueous pollutant removal process

**Author(s):** Elumalai, N (Elumalai, N.); Prabhu, S (Prabhu, S.); Selvaraj, M (Selvaraj, M.); Shanavas, S (Shanavas, S.); Navaneethan, M (Navaneethan, M.); Harish, S (Harish, S.); Ramu, P (Ramu, P.); Ramesh, R (Ramesh, R.)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 32 **Issue:** 24 **Pages:** 28633-28647 **DOI:** 10.1007/s10854-021-07239-w **Early Access Date:** OCT 2021 **Published:** DEC 2021

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### Record 577 of 1000

**Title:** Exploration of efficient electron acceptors for organic solar cells: rational design of indacenodithiophene based non-fullerene compounds

**Author(s):** Khalid, M (Khalid, Muhammad); Khan, MU (Khan, Muhammad Usman); Razia, ET (Razia, Eishatul); Shafiq, Z (Shafiq, Zahid); Alam, MM (Alam, Mohammed Mujahid); Imran, M (Imran, Muhammad); Akram, MS (Akram, Muhammad Safwan)

**Source:** SCIENTIFIC REPORTS **Volume:** 11 **Issue:** 1 **Article Number:** 19931 **DOI:** 10.1038/s41598-021-99254-4 **Published:** OCT 7 2021

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### Record 578 of 1000

**Title:** A Comparative Study on Suitability of Model-Free and Model-Fitting Kinetic Methods to Non-Isothermal Degradation of Lignocellulosic Materials

**Author(s):** Mahmood, H (Mahmood, Hamayoun); Shakeel, A (Shakeel, Ahmad); Abdullah, A (Abdullah, Ammar); Khan, MI (Khan, Muhammad Ilyas); Moniruzzaman, M (Moniruzzaman, Muhammad)

**Source:** POLYMERS **Volume:** 13 **Issue:** 15 **Article Number:** 2504 **DOI:** 10.3390/polym13152504 **Published:** AUG 2021

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### Record 579 of 1000

**Title:** The Pivotal Role of Thermal Annealing of Cadmium Telluride Thin Film in Optimizing the Performance of CdTe/Si Solar Cells

**Author(s):** Alshahrani, B (Alshahrani, B.); Nabil, S (Nabil, Sara); Elsaedy, HI (Elsaedy, H., I); Yakout, HA (Yakout, H. A.); Qasem, A (Qasem, Ammar)

**Source:** JOURNAL OF ELECTRONIC MATERIALS **Volume:** 50 **Issue:** 8 **Pages:** 4586-4598 **DOI:** 10.1007/s11664-021-08989-3 **Early Access Date:** MAY 2021 **Published:** AUG 2021

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### Record 580 of 1000

**Title:** Synthesis and optical analysis of nanostructured F-doped ZnO thin films by spray pyrolysis: Transparent electrode for photocatalytic applications

**Author(s):** Abdel-Galil, A (Abdel-Galil, A.); Hussien, MSA (Hussien, Mai S. A.); Yahia, IS (Yahia, I. S.)

**Source:** OPTICAL MATERIALS **Volume:** 114 **Article Number:** 110894 **DOI:** 10.1016/j.optmat.2021.110894 **Early Access Date:** FEB 2021 **Published:** APR 2021

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#### **Record 581 of 1000**

**Title:** A GIS-Based Approach for the Quantitative Assessment of Soil Quality and Sustainable Agriculture

**Author(s):** Abdellatif, MA (Abdellatif, Mostafa A.); El Baroudy, AA (El Baroudy, Ahmed A.); Arshad, M (Arshad, Muhammad); Mahmoud, EK (Mahmoud, Esawy K.); Saleh, AM (Saleh, Ahmed M.); Moghanm, FS (Moghanm, Farahat S.); Shaltout, KH (Shaltout, Kamal H.); Eid, EM (Eid, Ebrahim M.); Shokr, MS (Shokr, Mohamed S.)

**Source:** SUSTAINABILITY **Volume:** 13 **Issue:** 23 **Article Number:** 13438 **DOI:** 10.3390/su132313438 **Published:** DEC 2021

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#### **Record 582 of 1000**

**Title:** Clinical Significance of miRNA-145 and-126 in Chronic Obstructive Pulmonary Disease with Pulmonary Embolism

**Author(s):** Nafady, A (Nafady, Asmaa); Rashad, A (Rashad, Alaa); Nafady-Hego, H (Nafady-Hego, Hanaa); Nasif, KA (Nasif, Khalid A.); Abbas, AM (Abbas, Amr M.); Ahmed, SA (Ahmed, Shimaa A.); Mostafa, AT (Mostafa, Amr T.); Dongol, EM (Dongol, Eptehal M.)

**Source:** CLINICAL LABORATORY **Volume:** 68 **Issue:** 7 **Pages:** 1435-1442 **DOI:** 10.7754/Clin.Lab.2021.211113 **Early Access Date:** NOV 2021 **Published:** 2022

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#### **Record 583 of 1000**

**Title:** Optimization of the Rheological Properties and Tribological Performance of SAE 5w-30 Base Oil with Added MWCNTs

**Author(s):** Kamel, BM (Kamel, Bahaa M.); Tirth, V (Tirth, Vineet); Algahtani, A (Algahtani, Ali); Shiba, MS (Shiba, Mohamed S.); Mobasher, A (Mobasher, Ahmed); Abu Hashish, H (Abu Hashish, Hassan); Dabees, S (Dabees, Sameh)

**Source:** LUBRICANTS **Volume:** 9 **Issue:** 9 **Article Number:** 94 **DOI:** 10.3390/lubricants9090094 **Published:** SEP 2021

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#### **Record 584 of 1000**

**Title:** Exploration of electronic properties, radical scavenging activity and QSAR of oxadiazole derivatives by molecular docking and first-principles approaches

**Author(s):** Irfan, A (Irfan, Ahmad); Imran, M (Imran, Muhammad); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Shah, AT (Shah, Asma Tufail); Hussien, M (Hussien, Mohamed); Mumtaz, MW (Mumtaz, Muhammad Waseem)

**Source:** SAUDI JOURNAL OF BIOLOGICAL SCIENCES **Volume:** 28 **Issue:** 12 **Pages:** 7416-7421 **DOI:** 10.1016/j.sjbs.2021.08.049 **Early Access Date:** NOV 2021 **Published:** DEC 2021

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#### **Record 585 of 1000**

**Title:** Synthesis, characterization, electrical properties, and Na<sup>+</sup> transport pathways simulation in Na<sub>2</sub>ZnP<sub>1.5</sub>As<sub>0.5</sub>O<sub>7</sub>

**Author(s):** Sallemi, Y (Sallemi, Yossra); Marzouki, R (Marzouki, Riadh); Ben Smida, Y (Ben Smida, Youssef); El-zahhar, AA (El-zahhar, Adel A.); Graia, M (Graia, Mohsen)

**Source:** IONICS **Volume:** 27 **Issue:** 7 **Pages:** 3051-3061 **DOI:** 10.1007/s11581-021-04059-0 **Early Access Date:** APR 2021 **Published:** JUL 2021

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#### **Record 586 of 1000**

**Title:** Annealing effect on photocatalytic activity of ZnO nanostructures for organic dye degradation

**Author(s):** Suguna, A (Suguna, A.); Prabhu, S (Prabhu, S.); Selvaraj, M (Selvaraj, M.); Geerthana, M (Geerthana, M.); Silambarasan, A (Silambarasan, A.); Navaneethan, M (Navaneethan, M.); Ramesh, R (Ramesh, R.); Sridevi, C (Sridevi, C.)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 33 **Issue:** 11 **Special Issue:** SI **Pages:** 8868-8879 **DOI:** 10.1007/s10854-021-06942-y **Early Access Date:** OCT 2021 **Published:** APR 2022

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#### **Record 587 of 1000**

**Title:** Synthesis, characterization and self-assembly of new cholesteryl-substituted *sym*-tetrazine: Fluorescence, gelation and mesogenic properties

**Author(s):** Alsoliemy, A (Alsoliemy, Amerah); Alrefaei, AF (Alrefaei, Abdulmajeed F.); Almehmadi, SJ (Almehmadi, Samah J.); Almehmadi, SJ (Almehmadi, Samar J.); Hossan, A (Hossan, Aisha); Khalifa, ME (Khalifa, Mohamed E.); El-Metwaly, NM (El-Metwaly, Nashwa M.)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 342 **Article Number:** 117543 **DOI:** 10.1016/j.molliq.2021.117543 **Early Access Date:** SEP 2021 **Published:** NOV 15 2021

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#### **Record 588 of 1000**

**Title:** RETRACTED: The Neutrosophic Lognormal Model in Lifetime Data Analysis: Properties and Applications (Retracted Article)

**Author(s):** Salem, S (Salem, Sultan); Khan, Z (Khan, Zahid); Ayed, H (Ayed, Hamdi); Brahmia, A (Brahmia, Ameni); Amin, A (Amin, Adnan)

**Source:** JOURNAL OF FUNCTION SPACES **Volume:** 2021 **Article Number:** 6337759 **DOI:** 10.1155/2021/6337759 **Published:** DEC 2 2021

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#### **Record 589 of 1000**

**Title:** Synthesis, characterization, potential antimicrobial, antioxidant, anticancer, DNA binding, and molecular docking activities and DFT on novel Co(II), Ni(II), VO(II), Cr(III), and La(III) Schiff base complexes

**Author(s):** Abdel-Rahman, LH (Abdel-Rahman, Laila H.); Basha, MT (Basha, Maram T.); Al-Farhan, BS (Al-Farhan, Badriah Saad); Shehata, MR (Shehata, Mohamed R.); Abdalla, EM (Abdalla, Ehab M.)

**Source:** APPLIED ORGANOMETALLIC CHEMISTRY **Volume:** 36 **Issue:** 1 **Article Number:** e6484 **DOI:** 10.1002/aoc.6484 **Early Access Date:** OCT 2021 **Published:** JAN 2022

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#### **Record 590 of 1000**

**Title:** A magnetically separable acid-functionalized nanocatalyst for biodiesel production

**Author(s):** Changmai, B (Changmai, Bishwajit); Wheatley, AEH (Wheatley, Andrew E. H.); Rano, R (Rano, Ruma); Halder, G (Halder, Gopinath); Selvaraj, M (Selvaraj, Manickam); Rashid, U (Rashid, Umer); Rokhum, SL (Rokhum, Samuel Lalthazuala)

**Source:** FUEL **Volume:** 305 **Article Number:** 121576 **DOI:** 10.1016/j.fuel.2021.121576 **Early Access Date:** AUG 2021 **Published:** DEC 1 2021

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#### **Record 591 of 1000**

**Title:** Stabilization of silver nanoparticles in crosslinked polymer colloids through chelation for catalytic degradation of p-nitroaniline in aqueous medium

**Author(s):** Begum, R (Begum, Robina); Ahmad, G (Ahmad, Ghazia); Najeeb, J (Najeeb, Jawayria); Wu, WT (Wu, Weitai); Irfan, A (Irfan, Ahmad); Azam, M (Azam, Muhammad); Nisar, J (Nisar, Jan); Farooqi, ZH (Farooqi, Zahoor H.)

**Source:** CHEMICAL PHYSICS LETTERS **Volume:** 763 **Article Number:** 138263 **DOI:** 10.1016/j.cplett.2020.138263 **Published:** JAN 16 2021

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#### **Record 592 of 1000**

**Title:** Optimization and Development of Ready to Eat Chocolate Coated Roasted Flaked Rice as Instant Breakfast Food

**Author(s):** Kumar, S (Kumar, Shiv); Baniwal, P (Baniwal, Poonam); Nayik, GA (Nayik, Gulzar Ahmad); Prasad, K (Prasad, Kamlesh); Khan, KA (Khan, Khalid Ali); Ghramh, HA (Ghramh, Hamed A.); Kumar, H (Kumar, Harish); Karabagias, IK (Karabagias, Ioannis Konstantinos)

**Source:** FOODS **Volume:** 10 **Issue:** 7 **Article Number:** 1658 **DOI:** 10.3390/foods10071658 **Published:** JUL 2021

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**Record 593 of 1000**

**Title:** Synthesis, single-crystal exploration, and theoretical insights of arylsulfonylated 2-amino-6-methylpyrimidin derivatives

**Author(s):** Ali, A (Ali, Akbar); Kuznetsov, A (Kuznetsov, Aleksey); Ashfaq, M (Ashfaq, Muhammad); Tahir, MN (Tahir, Muhammad Nawaz); Khalid, M (Khalid, Muhammad); Imran, M (Imran, Muhammad); Irfan, A (Irfan, Ahmad)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1243 **Article Number:** 130789 **DOI:** 10.1016/j.molstruc.2021.130789 **Early Access Date:** JUN 2021 **Published:** NOV 5 2021

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**Record 594 of 1000**

**Title:** Tailoring the ultrafast and nonlinear photonics of MXenes through elemental replacement

**Author(s):** Chen, HL (Chen, Hualong); Gao, LF (Gao, Lingfeng); Al-Hartomy, OA (Al-Hartomy, Omar A.); Zhang, F (Zhang, Feng); Al-Ghamdi, A (Al-Ghamdi, Ahmed); Guo, J (Guo, Jia); Song, YF (Song, Yufeng); Wang, ZH (Wang, Zhenhong); Algarni, H (Algarni, H.); Wang, C (Wang, Cong); Wageh, S (Wageh, Swelm); Xu, SX (Xu, Shixiang); Zhang, H (Zhang, Han)

**Source:** NANOSCALE **Volume:** 13 **Issue:** 37 **Pages:** 15891-15898 **DOI:** 10.1039/d1nr04224f **Early Access Date:** AUG 2021 **Published:** OCT 7 2021

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**Record 595 of 1000**

**Title:** Evaluation of hidden H<sub>2</sub>-consuming pathways using metabolic flux-based analysis for a fermentative side-stream dynamic membrane bioreactor using untreated seed sludge

**Author(s):** Saleem, M (Saleem, Mubbshir); Rafieenia, R (Rafieenia, Razieh); Uddin, J (Uddin, Jalal); Lavagnolo, MC (Lavagnolo, Maria Cristina)

**Source:** INTERNATIONAL JOURNAL OF HYDROGEN ENERGY **Volume:** 46 **Issue:** 40 **Pages:** 20871-20881 **DOI:** 10.1016/j.ijhydene.2021.03.251 **Early Access Date:** MAY 2021 **Published:** JUN 11 2021

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**Record 596 of 1000**

**Title:** Investigation on (Zn) doping and anionic surfactant (SDS) effect on SnO<sub>2</sub> nanostructures for enhanced photocatalytic RhB dye degradation

**Author(s):** Keerthana, SP (Keerthana, S. P.); Yuvakkumar, R (Yuvakkumar, R.); Ravi, G (Ravi, G.); Manimegalai, M (Manimegalai, M.); Pannipara, M (Pannipara, Mehboobali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Gopal, RA (Gopal, Ramu Adam); Hanafiah, MM (Hanafiah, Marlia M.); Velauthapillai, D (Velauthapillai, Dhayalan)

**Source:** ENVIRONMENTAL RESEARCH **Volume:** 199 **Article Number:** 111312 **DOI:** 10.1016/j.envres.2021.111312 **Early Access Date:** MAY 2021 **Published:** AUG 2021

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**Record 597 of 1000**

**Title:** The capability of boron carbide nanotube as a nanocarrier for fluorouracil anticancer drug delivery; DFT study

**Author(s):** Cao, Y (Cao, Yan); Alamri, S (Alamri, Sagr); Rajhi, AA (Rajhi, Ali A.); Anqi, AE (Anqi, Ali E.); Derakhshandeh, M (Derakhshandeh, Maryam)

**Source:** MATERIALS CHEMISTRY AND PHYSICS **Volume:** 275 **Article Number:** 125260 **DOI:** 10.1016/j.matchemphys.2021.125260 **Early Access Date:** SEP 2021 **Published:** JAN 1 2022

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**Record 598 of 1000**

**Title:** Fine-tuning of the pharmacological potential of novel thiazolium ionic liquids by anion alteration

**Author(s):** Alfaihi, MY (Alfaihi, Mohammad Y.); Shati, AA (Shati, Ali A.); Elbehairi, SEI (Elbehairi, Serag Eldin, I); Elshaarawy, RFM (Elshaarawy, Reda F. M.); Gad, EM (Gad, Emad M.)

**Source:** RSC ADVANCES **Volume:** 12 **Issue:** 1 **Pages:** 458-469 **DOI:** 10.1039/d1ra07128a **Published:** DEC 20 2021

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**Record 599 of 1000**

**Title:** Electrochemical two-electron O<sub>2</sub> reduction reaction toward H<sub>2</sub>O<sub>2</sub> production: using cobalt porphyrin decorated carbon nanotubes as a nanohybrid catalyst

**Author(s):** Dong, K (Dong, Kai); Liang, J (Liang, Jie); Ren, YC (Ren, Yuchun); Wang, YY (Wang, Yuanyuan); Xu, ZQ (Xu, Zhaoquan); Yue, LC (Yue, Luchao); Li, TS (Li, Tingshuai); Liu, Q (Liu, Qian); Luo, YL (Luo, Yonglan); Liu, Y (Liu, Yang); Gao, SY (Gao, Shuyan); Hamdy, MS (Hamdy, Mohamed S.); Li, Q (Li, Quan); Ma, DW (Ma, Dongwei); Sun, XP (Sun, Xuping)

**Source:** JOURNAL OF MATERIALS CHEMISTRY A **Volume:** 9 **Issue:** 46 **Pages:** 26019-26027 **DOI:** 10.1039/d1ta07989a **Early Access Date:** NOV 2021 **Published:** NOV 30 2021

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#### Record 600 of 1000

**Title:** Enhanced Solar Photocatalytic Reduction of Cr(VI) Using a (ZnO/CuO) Nanocomposite Grafted onto a Polyester Membrane for Wastewater Treatment

**Author(s):** Ashar, A (Ashar, Ambreen); Bhatti, IA (Bhatti, Ijaz Ahmad); Jilani, A (Jilani, Asim); Mohsin, M (Mohsin, Muhammad); Rasul, S (Rasul, Sadia); Iqbal, J (Iqbal, Javed); Shakoor, MB (Shakoor, Muhammad Bilal); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Wageh, S (Wageh, S.); Al-Ghamdi, AA (Al-Ghamdi, Ahmed A.)

**Source:** POLYMERS **Volume:** 13 **Issue:** 22 **Article Number:** 4047 **DOI:** 10.3390/polym13224047 **Published:** NOV 2021

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#### Record 601 of 1000

**Title:** The effective role of dilute Co on SnO<sub>2</sub> nanoparticles: Structural, optical and magnetic characterization properties for spintronics

**Author(s):** Afify, N (Afify, N.); Abbady, G (Abbady, Gh); Hamad, D (Hamad, D.); Abdelbaki, RF (Abdelbaki, R. F.); Yousef, E (Yousef, El Sayed); Shaaban, ER (Shaaban, E. R.); Abd-el Salam, MN (Abd-el Salam, Mohamed N.)

**Source:** SENSORS AND ACTUATORS A-PHYSICAL **Volume:** 331 **Article Number:** 112984 **DOI:** 10.1016/j.sna.2021.112984 **Early Access Date:** AUG 2021 **Published:** NOV 1 2021

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#### Record 602 of 1000

**Title:** Synthesis of porous secondary metal-doped MOFs for removal of Rhodamine B from water: Role of secondary metal on efficiency and kinetics

**Author(s):** Nazir, MA (Nazir, Muhammad Altaf); Bashir, MS (Bashir, Muhammad Sohail); Jamshaid, M (Jamshaid, Muhammad); Anum, A (Anum, Aqsa); Najam, T (Najam, Tayyaba); Shahzad, K (Shahzad, Khurram); Imran, M (Imran, Muhammad); Shah, SSA (Shah, Syed Shoab Ahmad); Rehman, AU (Rehman, Aziz ur)

**Source:** SURFACES AND INTERFACES **Volume:** 25 **Article Number:** 101261 **DOI:** 10.1016/j.surfin.2021.101261 **Early Access Date:** JUN 2021 **Published:** AUG 2021

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#### Record 603 of 1000

**Title:** Organosulphur Compounds Induce Apoptosis and Cell Cycle Arrest in Cervical Cancer Cells *via* Downregulation of HPV E6 and E7 Oncogenes

**Author(s):** Ansari, IA (Ansari, Irfan A.); Ahmad, A (Ahmad, Afza); Imran, MA (Imran, Mohammad A.); Saeed, M (Saeed, Mohd); Ahmad, I (Ahmad, Irfan)

**Source:** ANTI-CANCER AGENTS IN MEDICINAL CHEMISTRY **Volume:** 21 **Issue:** 3 **Pages:** 393-405 **DOI:** 10.2174/1871520620999200818154456 **Published:** 2021

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#### Record 604 of 1000

**Title:** Study of optical and thermoelectric properties of ZYbI<sub>3</sub> (Z = Rb, Cs) for solar cells and renewable energy; Modelling by density functional theory

**Author(s):** Mahmood, Q (Mahmood, Q.); Hani, UE (Hani, Umm-E); Al-Muhimeed, TI (Al-Muhimeed, Tahani, I); AlObaid, AA (AlObaid, Abeer A.); Ul Haq, B (Ul Haq, Bakhtiar); Murtaza, G (Murtaza, G.); Flemban, TH (Flemban, Tahani H.); Althib, H (Althib, Hind)

**Source:** JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS **Volume:** 155 **Article Number:** 110117 **DOI:** 10.1016/j.jpcs.2021.110117 **Early Access Date:** APR 2021 **Published:** AUG 2021

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### Record 605 of 1000

**Title:** Bioactivity Studies of Hesperidin and XAV939

**Author(s):** Fazary, AE (Fazary, Ahmed E.); Alfaifi, MY (Alfaifi, Mohammad Y.); Elbehairi, SEI (Elbehairi, Serag Eldin, I); Amer, ME (Amer, Mohamed E.); Nasr, MSM (Nasr, Mohamed S. M.); Abuamara, TMM (Abuamara, Tamer M. M.); Badr, DA (Badr, Doaa A.); Ju, YH (Ju, Yi-Hsu); Mohamed, AF (Mohamed, Aly F.)

**Source:** ACS OMEGA **Volume:** 6 **Issue:** 30 **Pages:** 20042-20052 **DOI:** 10.1021/acsomega.1c03080 **Early Access Date:** JUL 2021 **Published:** AUG 3 2021

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### Record 606 of 1000

**Title:** Biocidal activity of *citrus limetta* peel extract mediated green synthesized silver quantum dots against MCF-7 cancer cells and pathogenic bacteria

**Author(s):** Pugazhenthiran, N (Pugazhenthiran, N.); Murugesan, S (Murugesan, S.); Muneeswaran, T (Muneeswaran, T.); Suresh, S (Suresh, S.); Kandasamy, M (Kandasamy, M.); Valdés, H (Valdes, H.); Selvaraj, M (Selvaraj, M.); Savariraj, AD (Savariraj, A. Dennyson); Mangalaraja, RV (Mangalaraja, R. V.)

**Source:** JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING **Volume:** 9 **Issue:** 1 **Article Number:** 105089 **DOI:** 10.1016/j.jece.2021.105089 **Early Access Date:** JAN 2021 **Published:** FEB 2021

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### Record 607 of 1000

**Title:** Single-Crystal Investigation, Hirshfeld Surface Analysis, and DFT Study of Third-Order NLO Properties of Unsymmetrical Acyl Thiourea Derivatives

**Author(s):** Ashfaq, M (Ashfaq, Muhammad); Tahir, MN (Tahir, Muhammad Nawaz); Muhammad, S (Muhammad, Shabbir); Munawar, KS (Munawar, Khurram Shahzad); Ali, A (Ali, Akbar); Bogdanov, G (Bogdanov, Georgii); Alarfaji, SS (Alarfaji, Saleh S.)

**Source:** ACS OMEGA **Volume:** 6 **Issue:** 46 **Pages:** 31211-31225 **DOI:** 10.1021/acsomega.1c04884 **Published:** NOV 23 2021

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### Record 608 of 1000

**Title:** Biosimilars: Review of regulatory, manufacturing, analytical aspects and beyond

**Author(s):** Ratih, R (Ratih, Ratih); Asmari, M (Asmari, Mufarreh); Abdel-Megied, AM (Abdel-Megied, Ahmed M.); Elbarbry, F (Elbarbry, Fawzy); El Deeb, S (El Deeb, Sami)

**Source:** MICROCHEMICAL JOURNAL **Volume:** 165 **Article Number:** 106143 **DOI:** 10.1016/j.microc.2021.106143 **Early Access Date:** MAR 2021 **Published:** JUN 2021

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### Record 609 of 1000

**Title:** Heavy metals in sediments of an urban river at the vicinity of tannery industries in Bangladesh: a preliminary study for ecological and human health risk

**Author(s):** Hoque, MMM (Hoque, Mir Md Mozammel); Sarker, A (Sarker, Avilash); Sarker, ME (Sarker, Md Eusuf); Kabir, MH (Kabir, Md Humayun); Ahmed, FT (Ahmed, Farah Tasneem); Yeasmin, M (Yeasmin, Marjana); Islamd, MS (Islamd, Md Saiful); Idris, AM (Idris, Abubakr M.)

**Source:** INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY **Volume:** 103 **Issue:** 19 **Pages:** 7909-7927 **DOI:** 10.1080/03067319.2021.1977288 **Early Access Date:** SEP 2021 **Published:** DEC 26 2023

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### Record 610 of 1000

**Title:** Decorated CuO nanoparticles over chitosan-functionalized magnetic nanoparticles: Investigation of its anti-colon carcinoma and anti-gastric cancer effects

**Author(s):** Wang, YP (Wang, Yuping); El-Kott, AF (El-Kott, Attalla F.); El-Kenawy, AE (El-Kenawy, Ayman E.); Xue, LJ (Xue, Liangjun)

**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 14 **Issue:** 7 **Article Number:** 103201 **DOI:** 10.1016/j.arabjc.2021.103201 **Early Access Date:** MAY 2021 **Published:** JUL 2021

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### Record 611 of 1000

**Title:** Silver nanoparticles supported on smart polymer microgel system for highly proficient catalytic reduction of Cr<sup>+6</sup> to Cr<sup>+3</sup> with formic acid

**Author(s):** Hussain, I (Hussain, Iftikhar); Ali, F (Ali, Faisal); Shahid, M (Shahid, Muhammad); Begum, R (Begum, Robina); Irfan, A (Irfan, Ahmad); Wu, WT (Wu, Weitai); Shaukat, S (Shaukat, Saadia); Farooqi, ZH (Farooqi, Zahoor H.)

**Source:** APPLIED ORGANOMETALLIC CHEMISTRY **Volume:** 35 **Issue:** 11 **Article Number:** e6405 **DOI:** 10.1002/aoc.6405 **Early Access Date:** AUG 2021 **Published:** NOV 2021

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#### **Record 612 of 1000**

**Title:** Non-carboxylic acid inhibitors of aldose reductase based on N-substituted thiazolidinedione derivatives

**Author(s):** Siddique, MUM (Siddique, Mohd Usman Mohd); Thakur, A (Thakur, Abhishek); Shilkar, D (Shilkar, Deepak); Yasmin, S (Yasmin, Sabina); Halakova, D (Halakova, Dominika); Kovacicova, L (Kovacicova, Lucia); Prnova, MS (Prnova, Marta Soltesova); Stefek, M (Stefek, Milan); Acevedo, O (Acevedo, Orlando); Dasararaju, G (Dasararaju, Gayathri); Devadasan, V (Devadasan, Velmurugan); Mondal, SK (Mondal, Susanta Kumar); Jayaprakash, V (Jayaprakash, Venkatesan)

**Source:** EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY **Volume:** 223 **Article Number:** 113630 **DOI:** 10.1016/j.ejmech.2021.113630 **Early Access Date:** JUN 2021 **Published:** NOV 5 2021

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#### **Record 613 of 1000**

**Title:** Spectral, Molecular Modeling, and Biological Activity Studies on New Schiff's Base of Acenaphthaquinone Transition Metal Complexes

**Author(s):** Abou Melha, KS (Abou Melha, Khlood S.); Al-Hazmi, GA (Al-Hazmi, Gamil A.); Althagafi, I (Althagafi, Ismail); Alharbi, A (Alharbi, Arwa); Keshk, AA (Keshk, Ali A.); Shaaban, F (Shaaban, Fathy); El-Metwaly, N (El-Metwaly, Nashwa)

**Source:** BIOINORGANIC CHEMISTRY AND APPLICATIONS **Volume:** 2021 **Article Number:** 6674394 **DOI:** 10.1155/2021/6674394 **Published:** MAR 22 2021

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#### **Record 614 of 1000**

**Title:** Evaluation of electronic and biological interactions between N-[4-(Ethylsulfamoyl)phenyl]acetamide and some polar liquids (IEFPCM solvation model) with Fukui function and molecular docking analysis

**Author(s):** Bharathy, G (Bharathy, G.); Prasana, JC (Prasana, Johanan Christian); Muthu, S (Muthu, S.); Irfan, A (Irfan, Ahmad); Asif, FB (Asif, Fazilath Basha); Saral, A (Saral, A.); Aayisha, S (Aayisha, S.); Devi, RN (Devi, R. Niranjana)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 340 **Article Number:** 117271 **DOI:** 10.1016/j.molliq.2021.117271 **Early Access Date:** AUG 2021 **Published:** OCT 15 2021

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#### **Record 615 of 1000**

**Title:** Synthesis of chitosan-stabilized copper nanoparticles (CS-Cu NPs): Its catalytic activity for C-N and C-O cross-coupling reactions and treatment of bladder cancer

**Author(s):** Zhou, HF (Zhou Hongfeng); El-Kott, A (El-Kott, Attalla); Ahmed, AE (Ahmed, Ahmed Ezzat); Khames, A (Khames, Ahmed)

**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 14 **Issue:** 10 **Article Number:** 103259 **DOI:** 10.1016/j.arabjc.2021.103259 **Early Access Date:** JUL 2021 **Published:** OCT 2021

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#### **Record 616 of 1000**

**Title:** Structure, Electronic, Magnetic, and Thermoelectric Properties of Highly Mg-Rich Intermetallic NdNiMg<sub>15</sub> by Hybrid Density Functional Theory

**Author(s):** Shah, MS (Shah, Muhammad Shakil); Yasmeen, F (Yasmeen, Fareeha); Ejaz, SR (Ejaz, Syeda Rabia); Khosa, RY (Khosa, Rabia Yasmin); Imran, M (Imran, Muhammad); Assiri, MA (Assiri, Mohammed A.); Ahmad, I (Ahmad, Imtiaz); Ahmad, N (Ahmad, Naseeb); Khan, AR (Khan, Abdul Rauf); Farid, HMT (Farid, Hafiz Muhammad Tahir)

**Source:** JOURNAL OF ELECTRONIC MATERIALS **Volume:** 50 **Issue:** 7 **Pages:** 3976-3985 **DOI:** 10.1007/s11664-021-08923-7 **Early Access Date:** APR 2021 **Published:** JUL 2021

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#### **Record 617 of 1000**



**Title:** Upliftment the rectification behavior of PPy-WO<sub>3</sub> nanocomposites for photodetector applications

**Author(s):** Gowtham, B (Gowtham, B.); Ponnuswamy, V (Ponnuswamy, V); Balasubramani, V (Balasubramani, V); Ramanathan, S (Ramanathan, S.); Pradeesh, G (Pradeesh, G.); Massoud, EE (Massoud, Ehab El Sayed); Gedi, S (Gedi, Sreedevi)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 135 **Article Number:** 109105 **DOI:** 10.1016/j.inoche.2021.109105 **Early Access Date:** DEC 2021 **Published:** JAN 2022

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#### Record 618 of 1000

**Title:** The degradation of methylene blue dye using copper-doped hydroxyapatite encapsulated into polycaprolactone nanofibrous membranes

**Author(s):** Alrafai, HA (Alrafai, H. A.); Al-Ahmed, ZA (Al-Ahmed, Zehbah Ali); Ahmed, MK (Ahmed, M. K.); Afifi, M (Afifi, M.); Shoueir, KR (Shoueir, Kamel R.); Abu-Rayyan, A (Abu-Rayyan, Ahmed)

**Source:** NEW JOURNAL OF CHEMISTRY **Volume:** 45 **Issue:** 35 **Pages:** 16143-16154 **DOI:** 10.1039/d1nj01623g **Early Access Date:** JUL 2021 **Published:** SEP 21 2021

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#### Record 619 of 1000

**Title:** Design and preparation of ternary  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub>/SnO<sub>2</sub>/rGO nanocomposite as an electrode material for supercapacitor

**Author(s):** Geerthana, M (Geerthana, M.); Prabhu, S (Prabhu, S.); Harish, S (Harish, S.); Navaneethan, M (Navaneethan, M.); Ramesh, R (Ramesh, R.); Selvaraj, M (Selvaraj, M.)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 33 **Issue:** 11 **Special Issue:** SI **Pages:** 8327-8343 **DOI:** 10.1007/s10854-021-06128-6 **Early Access Date:** MAY 2021 **Published:** APR 2022

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#### Record 620 of 1000

**Title:** INVESTIGATE THE APPROPRIATE MODEL FOR DESCRIBING THE CRYSTALLIZATION PROCESS OF Te<sub>65</sub>Sb<sub>25</sub>Ga<sub>10</sub> THIN FILM

**Author(s):** Abd-El-Salam, MN (Abd-El-Salam, M. N.); Elsaedy, HI (Elsaedy, H., I); Mahmoud, M (Mahmoud, M.); Abdelaal, SA (Abdelaal, S. A.); Yakout, HA (Yakout, H. A.); Shaaban, ER (Shaaban, E. R.)

**Source:** CHALCOGENIDE LETTERS **Volume:** 18 **Issue:** 3 **Pages:** 137-147 **Published:** MAR 2021

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#### Record 621 of 1000

**Title:** Recent trends in transition metal diselenides (XSe<sub>2</sub>: X = Ni, Mn, Co) and their composites for high energy faradic supercapacitors

**Author(s):** Sajjad, M (Sajjad, Muhammad); Amin, M (Amin, Muhammad); Javed, MS (Javed, Muhammad Sufyan); Imran, M (Imran, Muhammad); Hu, WK (Hu, Weikang); Mao, ZY (Mao, Zhiyu); Lu, W (Lu, Wen)

**Source:** JOURNAL OF ENERGY STORAGE **Volume:** 43 **Article Number:** 103176 **DOI:** 10.1016/j.est.2021.103176 **Early Access Date:** SEP 2021 **Published:** NOV 2021

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#### Record 622 of 1000

**Title:** Structural modulation of  $\pi$ -conjugated linkers in D- $\pi$ -A dyes based on triphenylamine dicyanovinylene framework to explore the NLO properties

**Author(s):** Khalid, M (Khalid, Muhammad); Khan, MU (Khan, Muhammad Usman); Shafiq, I (Shafiq, Iqra); Hussain, R (Hussain, Riaz); Ali, A (Ali, Akbar); Imran, M (Imran, Muhammad); Braga, AAC (Braga, Ataulpa A. C.); Rehman, MFU (Rehman, Muhammad Fayyaz Ur); Akram, MS (Akram, Muhammad Safwan)

**Source:** ROYAL SOCIETY OPEN SCIENCE **Volume:** 8 **Issue:** 8 **Article Number:** 210570 **DOI:** 10.1098/rsos.210570 **Published:** AUG 4 2021

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#### Record 623 of 1000

**Title:** Bactericidal activity of a substituted thiazole against multidrug-resistant Eggerthia cateniformis isolated from patients with dental abscess

**Author(s):** Ibrahim, YM (Ibrahim, Yasser Musa); Nasr, T (Nasr, Tamer); Bondock, S (Bondock, Samir); Assar, NH (Assar, Nouran H.)

**Source:** ANAEROBE **Volume:** 69 **Article Number:** 102328 **DOI:** 10.1016/j.anaerobe.2021.102328 **Early Access Date:** FEB 2021 **Published:** JUN 2021

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#### **Record 624 of 1000**

**Title:** Designing a novel visible-light-driven heterostructure Ni-ZnO/S-g-C<sub>3</sub>N<sub>4</sub> photocatalyst for coloured pollutant degradation

**Author(s):** Bahadur, A (Bahadur, Ali); Iqbal, S (Iqbal, Shahid); Alsaab, HO (Alsaab, Hashem O.); Awwad, NS (Awwad, Nasser S.); Ibrahim, HA (Ibrahim, Hala A.)

**Source:** RSC ADVANCES **Volume:** 11 **Issue:** 58 **Pages:** 36518-36527 **DOI:** 10.1039/d0ra09390d **Published:** NOV 12 2021

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#### **Record 625 of 1000**

**Title:** Geochemical speciation and bioaccumulation of trace elements in different tissues of pumpkin in the abandoned soils: Health hazard perspective in a developing country

**Author(s):** Islam, MS (Islam, Md Saiful); Ahmed, MK (Ahmed, Md Kawser); Idris, AM (Idris, Abubakr M.); Phoungthong, K (Phoungthong, Khamphe); Habib, MA (Habib, Md Ahsan); Mustafa, RA (Mustafa, Ramal Ahmed)

**Source:** TOXIN REVIEWS **Volume:** 41 **Issue:** 4 **Pages:** 1124-1138 **DOI:** 10.1080/15569543.2021.1977325 **Early Access Date:** SEP 2021 **Published:** OCT 2 2022

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#### **Record 626 of 1000**

**Title:** Hydrazone-based green corrosion inhibitors for API grade carbon steel in HCl: Insights from electrochemical, XPS, and computational studies

**Author(s):** Khamaysa, OMA (Khamaysa, Oday Mohammad Ahmad); Selatnia, I (Selatnia, Ilhem); Lgaz, H (Lgaz, Hassane); Sid, A (Sid, Assia); Lee, HS (Lee, Han-Seung); Zeghache, H (Zeghache, Hadjer); Benahmed, M (Benahmed, Merzoug); Ali, IH (Ali, Ismat H.); Mosset, P (Mosset, Paul)

**Source:** COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS **Volume:** 626 **Article Number:** 127047 **DOI:** 10.1016/j.colsurfa.2021.127047 **Early Access Date:** JUN 2021 **Published:** OCT 5 2021

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#### **Record 627 of 1000**

**Title:** HPLC-UV Method for the Estimation of Moxifloxacin in Plasma: An Application to Pharmacokinetic Study of Pharmaceuticals in Rats

**Author(s):** Ashfaq, M (Ashfaq, Mehran); Shah, S (Shah, Shahid); Rasul, A (Rasul, Akhtar); Rasool, N (Rasool, Nasir); Shehzad, MA (Shehzad, Muhammad Ahmed); Imran, M (Imran, Muhammad); Iqbal, O (Iqbal, Omeira); Bi, ZB (Bi, Zubaida Bi); Khan, SM (Khan, Sajid Mehmood); Ahmed, MM (Ahmed, Muhammad Masood); Fatima, I (Fatima, Iman); Nisa, Z (Nisa, Zainab); Abbas, G (Abbas, Ghulam)

**Source:** LATIN AMERICAN JOURNAL OF PHARMACY **Volume:** 40 **Issue:** 11 **Pages:** 2611-2616 **Published:** 2021

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#### **Record 628 of 1000**

**Title:** Thermal degradation study of polymethylmethacrylate with Al<sub>3</sub> nanoadditive

**Author(s):** Bahadur, A (Bahadur, Ali); Iqbal, S (Iqbal, Shahid); Alsaab, HO (Alsaab, Hashem O.); Awwad, NS (Awwad, Nasser S.); Ibrahim, HA (Ibrahim, Hala A.)

**Source:** MICROSCOPY RESEARCH AND TECHNIQUE **Volume:** 85 **Issue:** 4 **Pages:** 1494-1501 **DOI:** 10.1002/jemt.24012 **Early Access Date:** DEC 2021 **Published:** APR 2022

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#### **Record 629 of 1000**

**Title:** School-Based Exercise and Life Style Motivation Intervention (SEAL.MI) on Adolescent's Cardiovascular Risk Factors and Academic Performance: Catch Them Young

**Author(s):** Paulsamy, P (Paulsamy, Premalatha); Periannan, K (Periannan, Kalaiselvi); Easwaran, V (Easwaran, Vigneshwaran); Khan, NA (Khan, Noohu Abdulla); Manoharan, V (Manoharan, Vani); Venkatesan, K (Venkatesan, Krishnaraju); Qureshi, AA (Qureshi, Absar Ahmed); Prabahar, K (Prabahar, Kousalya); Kandasamy, G (Kandasamy, Geetha); Vasudevan, R (Vasudevan, Rajalakshimi); Chidambaram, K

(Chidambaram, Kumarappan); Pappiya, EM (Pappiya, Ester Mary); Venkatesan, K (Venkatesan, Kumar); Sethuraj, P (Sethuraj, Pranave)

**Source:** HEALTHCARE **Volume:** 9 **Issue:** 11 **Article Number:** 1549 **DOI:** 10.3390/healthcare9111549 **Published:** NOV 2021

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#### **Record 630 of 1000**

**Title:** Organic Pollutants Removal from Olive Mill Wastewater Using Electrocoagulation Process via Central Composite Design (CCD)

**Author(s):** Shahawy, AE (Shahawy, Abeer El); Ahmed, IA (Ahmed, Inas A.); Nasr, M (Nasr, Mahmoud); Ragab, AH (Ragab, Ahmed H.); Al-Mhyawi, SR (Al-Mhyawi, Saedah R.); Elamin, KMA (Elamin, Khalda M. A.)

**Source:** WATER **Volume:** 13 **Issue:** 24 **Article Number:** 3522 **DOI:** 10.3390/w13243522 **Published:** DEC 2021

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#### **Record 631 of 1000**

**Title:** *Eruca sativa* seed extract modulates oxidative stress and apoptosis and up-regulates the expression of Bcl-2 and Bax genes in acrylamide-induced testicular dysfunction in rats

**Author(s):** Abd-Elsalam, RM (Abd-Elsalam, Reham M.); El Badawy, SA (El Badawy, Shymaa A.); Ogaly, HA (Ogaly, Hanan A.); Ibrahim, FM (Ibrahim, Faten M.); Farag, OM (Farag, Ola M.); Ahmed, KA (Ahmed, Kawkab A.)

**Source:** ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH **Volume:** 28 **Issue:** 38 **Pages:** 53249-53266 **DOI:** 10.1007/s11356-021-14532-y **Early Access Date:** MAY 2021 **Published:** OCT 2021

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#### **Record 632 of 1000**

**Title:** Ecological impacts of Assuit fertiliser factory in Upper Egypt: environmental implications and spatial distribution of natural radionuclides

**Author(s):** Massoud, E (Massoud, Eheb); El-Taher, A (El-Taher, Atef); Najam, LA (Najam, Laith Ahmed); Elsaman, R (Elsaman, Reda)

**Source:** INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY **Volume:** 103 **Issue:** 5 **Pages:** 1039-1052 **DOI:** 10.1080/03067319.2020.1867719 **Early Access Date:** JAN 2021 **Published:** APR 9 2023

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#### **Record 633 of 1000**

**Title:** Advances in the Structural Composition of Biomass: Fundamental and Bioenergy Applications

**Author(s):** Srivastava, N (Srivastava, Neha); Shrivastav, A (Shrivastav, Akshay); Singh, R (Singh, Rajeev); Abohashrh, M (Abohashrh, Mohammed); Srivastava, KR (Srivastava, K. R.); Irfan, S (Irfan, Safia); Srivastava, M (Srivastava, Manish); Mishra, PK (Mishra, P. K.); Gupta, VK (Gupta, Vijai Kumar); Thakur, VK (Thakur, Vijay Kumar)

**Source:** JOURNAL OF RENEWABLE MATERIALS **Volume:** 9 **Issue:** 4 **Special Issue:** SI **Pages:** 615-636 **DOI:** 10.32604/jrm.2021.014374 **Published:** 2021

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#### **Record 634 of 1000**

**Title:** Quantum chemical analysis and molecular dynamics simulations to study the impact of electron-deficient substituents on electronic behavior of small molecule acceptors

**Author(s):** Mahmood, A (Mahmood, Asif); Irfan, A (Irfan, Ahmad); Ahmad, F (Ahmad, Farooq); Janjua, MRSA (Janjua, Muhammad Ramzan Saeed Ashraf)

**Source:** COMPUTATIONAL AND THEORETICAL CHEMISTRY **Volume:** 1204 **Article Number:** 113387 **DOI:** 10.1016/j.comptc.2021.113387 **Early Access Date:** JUL 2021 **Published:** OCT 2021

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#### **Record 635 of 1000**

**Title:** On the Optimization of Fermentation Conditions for Enhanced Bioethanol Yields from Starchy Biowaste via Yeast Co-Cultures

**Author(s):** Hashem, M (Hashem, Mohamed); Alamri, SA (Alamri, Saad A.); Asseri, TAY (Asseri, Tahani A. Y.); Mostafa, YS (Mostafa, Yasser S.); Lyberatos, G (Lyberatos, Gerasimos); Ntaikou, I (Ntaikou, Ioanna)

**Record 636 of 1000**

**Title:** Effects of Steel Fibers (SF) and Ground Granulated Blast Furnace Slag (GGBS) on Recycled Aggregate Concrete

**Author(s):** Ahmad, J (Ahmad, Jawad); Martinez-Garcia, R (Martinez-Garcia, Rebeca); Szelag, M (Szelag, Maciej); de-Prado-Gil, J (de-Prado-Gil, Jesus); Marzouki, R (Marzouki, Riadh); Alqurashi, M (Alqurashi, Muwaffaq); Hussein, EE (Hussein, Enas E.)

**Source:** MATERIALS **Volume:** 14 **Issue:** 24 **Article Number:** 7497 **DOI:** 10.3390/ma14247497 **Published:** DEC 2021

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**Record 637 of 1000**

**Title:** First-principles prediction of the ground-state crystal structure of double-perovskite halides Cs<sub>2</sub>AgCrX<sub>6</sub> (X = Cl, Br, and I)

**Author(s):** Saeed, M (Saeed, Muhammad); Ul Haq, I (Ul Haq, Izaz); Saleemi, AS (Saleemi, Awais Siddique); Rehman, SU (Rehman, Shafiq Ur); Ul Haq, B (Ul Haq, Bakhtiar); Chaudhry, AR (Chaudhry, Aijaz Rasool); Khan, I (Khan, Imad)

**Source:** JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS **Volume:** 160 **Article Number:** 110302 **DOI:** 10.1016/j.jpcs.2021.110302 **Early Access Date:** AUG 2021 **Published:** JAN 2022

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**Record 638 of 1000**

**Title:** Synthesis and characterization of ferrocene-based thiosemicarbazones along with their computational studies for potential as inhibitors for SARS-CoV-2

**Author(s):** Jawaria, R (Jawaria, Rifat); Khan, MU (Khan, Muhammad Usman); Hussain, M (Hussain, Mazhar); Muhammad, S (Muhammad, Shabbir); Sagir, M (Sagir, Muhammad); Hussain, A (Hussain, Amjad); Al-Sehemi, AG (Al-Sehemi, Abdullah G.)

**Source:** JOURNAL OF THE IRANIAN CHEMICAL SOCIETY **Volume:** 19 **Issue:** 3 **Pages:** 839-846 **DOI:** 10.1007/s13738-021-02346-1 **Early Access Date:** JUL 2021 **Published:** MAR 2022

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**Record 639 of 1000**

**Title:** The corrosion inhibition and adsorption behavior of mercaptobenzimidazole and bis-mercaptobenzimidazole on carbon steel in 1.0 M HCl: Experimental and computational insights

**Author(s):** Damej, M (Damej, M.); Kaya, S (Kaya, S.); EL Ibrahim, B (EL Ibrahim, B.); Lee, HS (Lee, H-S.); Molhi, A (Molhi, A.); Serdaroglu, G (Serdaroglu, G.); Benmessaoud, M (Benmessaoud, M.); Ali, IH (Ali, I. H.); El Hajjaji, S (El Hajjaji, S.); Lgaz, H (Lgaz, H.)

**Source:** SURFACES AND INTERFACES **Volume:** 24 **Article Number:** 101095 **DOI:** 10.1016/j.surfin.2021.101095 **Early Access Date:** APR 2021 **Published:** JUN 2021

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**Record 640 of 1000**

**Title:** Deeper Insights on *Cnesmone javanica* Blume Leaves Extract: Chemical Profiles, Biological Attributes, Network Pharmacology and Molecular Docking

**Author(s):** Obaidullah, AJ (Obaidullah, Ahmad J.); Alanazi, MM (Alanazi, Mohammed M.); Alsaif, NA (Alsaif, Nawaf A.); Mahdi, WA (Mahdi, Wael A.); Fantoukh, OI (Fantoukh, Omer I.); Tareq, A (Tareq, Abu Montakim); Sami, SA (Sami, Saad Ahmed); Alqahtani, AM (Alqahtani, Ali M.); Bin Emran, T (Emran, Talha Bin)

**Source:** PLANTS-BASEL **Volume:** 10 **Issue:** 4 **Article Number:** 728 **DOI:** 10.3390/plants10040728 **Published:** APR 2021

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**Record 641 of 1000**

**Title:** Tuning optical and electronic properties of graphene oxide by surface adsorption of molecular halogens (X<sub>2</sub> = I<sub>2</sub>, Br<sub>2</sub>, Cl<sub>2</sub>, and F<sub>2</sub>) for light harvesting

**Author(s):** Mersal, AMG (Mersal, A. M. Gaber); Yahia, IS (Yahia, I. S.); El-Sheshtawy, SH (El-Sheshtawy, S. Hamdy)

**Source:** COMPUTATIONAL AND THEORETICAL CHEMISTRY **Volume:** 1204 **Article Number:** 113379 **DOI:** 10.1016/j.comptc.2021.113379 **Early Access Date:** JUL 2021 **Published:** OCT 2021

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#### **Record 642 of 1000**

**Title:** Adsorption mechanism of 3-(1,4-disubstituted-1,2,3-triazolyl) uridine nucleosides against the corrosion of mild steel in HCl

**Author(s):** Chafiq, M (Chafiq, Maryam); Chaouiki, A (Chaouiki, Abdelkarim); Salghi, R (Salghi, Rachid); Tachallait, H (Tachallait, Hamza); Bougrin, K (Bougrin, Khalid); Ali, IH (Ali, Ismat H.); Sijaj, M (Sijaj, Mohamed)

**Source:** MATERIALS CHEMISTRY AND PHYSICS **Volume:** 268 **Article Number:** 124742 **DOI:** 10.1016/j.matchemphys.2021.124742 **Early Access Date:** MAY 2021 **Published:** AUG 1 2021

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#### **Record 643 of 1000**

**Title:** A review on the waste biomass derived catalysts for biodiesel production

**Author(s):** Hamza, M (Hamza, Muhammad); Ayoub, M (Ayoub, Muhammad); Bin Shamsuddin, R (Bin Shamsuddin, Rashid); Mukhtar, A (Mukhtar, Ahmad); Saqib, S (Saqib, Sidra); Zahid, I (Zahid, Imtisal); Ameen, M (Ameen, Mariam); Ullah, S (Ullah, Sami); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Ibrahim, M (Ibrahim, Muhammad)

**Source:** ENVIRONMENTAL TECHNOLOGY & INNOVATION **Volume:** 21 **Article Number:** 101200 **DOI:** 10.1016/j.eti.2020.101200 **Early Access Date:** FEB 2021 **Published:** FEB 2021

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#### **Record 644 of 1000**

**Title:** Effect of nonlinear radiation on flow and heat transfer of dusty fluid over a stretching cylinder with Cattaneo-Christov heat flux

**Author(s):** Alhumade, H (Alhumade, Hesham); Radhika, M (Radhika, M.); Sowmya, G (Sowmya, G.); Manjunatha, PT (Manjunatha, P. T.); Alam, MM (Alam, Mohammad Mahtab); Ahmad, I (Ahmad, Irfan); Gorji, MR (Gorji, M. R.); Prasannakumara, BC (Prasannakumara, B. C.)

**Source:** INTERNATIONAL JOURNAL OF MODERN PHYSICS C **Volume:** 32 **Issue:** 12 **Article Number:** 2150156 **DOI:** 10.1142/S0129183121501564 **Published:** DEC 2021

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#### **Record 645 of 1000**

**Title:** Thermal distribution through a moving longitudinal trapezoidal fin with variable temperature-dependent thermal properties using DTM-Pade approximant

**Author(s):** Jayaprakash, MC (Jayaprakash, M. C.); Alzahrani, HAH (Alzahrani, Hassan A. H.); Sowmya, G (Sowmya, G.); Kumar, RSV (Kumar, R. S. Varun); Malik, MY (Malik, M. Y.); Alsaiani, A (Alsaiani, Abdulmohsen); Prasannakumara, BC (Prasannakumara, B. C.)

**Source:** CASE STUDIES IN THERMAL ENGINEERING **Volume:** 28 **Article Number:** 101697 **DOI:** 10.1016/j.csite.2021.101697 **Published:** DEC 2021

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#### **Record 646 of 1000**

**Title:** Impact of Big Data Analysis on Nanosensors for Applied Sciences Using Neural Networks

**Author(s):** Shitharth, S (Shitharth, S.); Meshram, P (Meshram, Pratiksha); Kshirsagar, PR (Kshirsagar, Pravin R.); Manoharan, H (Manoharan, Hariprasath); Tirth, V (Tirth, Vineet); Sundramurthy, VP (Sundramurthy, Venkatesa Prabhu)

**Source:** JOURNAL OF NANOMATERIALS **Volume:** 2021 **Article Number:** 4927607 **DOI:** 10.1155/2021/4927607 **Published:** SEP 21 2021

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#### **Record 647 of 1000**

**Title:** Effective role of temperature in improving the structural, optical and photovoltaic characteristics for  $\text{Zn}_{0.5}\text{Cd}_{0.5}\text{Te}/\text{CdTe}$  solar cells

**Author(s):** Qasem, A (Qasem, Ammar); Mahmoud, M (Mahmoud, Mona); Elsaedy, HI (Elsaedy, H. I.); Mostafa, MS (Mostafa, Mohamed S.); Shaaban, ER (Shaaban, E. R.)

**Source:** OPTICAL MATERIALS **Volume:** 122 **Article Number:** 111746 **DOI:** 10.1016/j.optmat.2021.111746 **Early Access Date:** DEC 2021 **Part:** B **Published:** DEC 2021

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**Record 648 of 1000**

**Title:** Effective role of cadmium doping in controlling the linear and nonlinear optical properties of non-crystalline Cd-Se-S thin films

**Author(s):** Qasem, A (Qasem, Ammar); Hassan, AA (Hassan, Abeer A.); Rajhi, FY (Rajhi, F. Y.); Abbas, HAS (Abbas, Hebat-Allah S.); Shaaban, ER (Shaaban, E. R.)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 33 **Issue:** 4 **Pages:** 1953-1965 **DOI:** 10.1007/s10854-021-07400-5 **Early Access Date:** NOV 2021 **Published:** FEB 2022

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**Record 649 of 1000**

**Title:** Synergistic effect of Cu<sub>x</sub>/Mg<sub>x</sub> and Zn<sub>1-x</sub>O for enhanced photocatalytic degradation and antibacterial activity

**Author(s):** Naz, G (Naz, Gul); Shabbir, M (Shabbir, Maryam); Ramzan, M (Ramzan, Muhammad); Ul Haq, B (Ul Haq, Bakhtiar); Arshad, M (Arshad, Muhammad); Tahir, MB (Tahir, Muhammad Bilal); Hasan, M (Hasan, Murtaza); Ahmed, R (Ahmed, Rashid)

**Source:** PHYSICA B-CONDENSED MATTER **Volume:** 624 **Article Number:** 413396 **DOI:** 10.1016/j.physb.2021.413396 **Early Access Date:** SEP 2021 **Published:** JAN 1 2022

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**Record 650 of 1000**

**Title:** Immunoinformatics-guided design of a multi-epitope vaccine based on the structural proteins of severe acute respiratory syndrome coronavirus 2

**Author(s):** Obaidullah, AJ (Obaidullah, Ahmad J.); Alanazi, MM (Alanazi, Mohammed M.); Alsaif, NA (Alsaif, Nawaf A.); Albassam, H (Albassam, Hussam); Almehizia, AA (Almehizia, Abdulrahman A.); Alqahtani, AM (Alqahtani, Ali M.); Mahmud, S (Mahmud, Shafi); Sami, SA (Sami, Saad Ahmed); Bin Emran, T (Bin Emran, Talha)

**Source:** RSC ADVANCES **Volume:** 11 **Issue:** 29 **Pages:** 18103-18121 **DOI:** 10.1039/d1ra02885e **Published:** MAY 27 2021

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**Record 651 of 1000**

**Title:** 5-minute synthesis of gelatinous silver nanoparticles using microwave radiation: Plasmonic optical spectroscopy and antimicrobial activity

**Author(s):** Albulym, O (Albulym, Obaid); Hussien, MSA (Hussien, Mai S. A.); Kilany, M (Kilany, Mona); Zahran, HY (Zahran, H. Y.); Eid, RA (Eid, Refaat A.); Yahia, IS (Yahia, I. S.); Abutalib, MM (Abutalib, M. M.)

**Source:** OPTIK **Volume:** 228 **Article Number:** 166139 **DOI:** 10.1016/j.ijleo.2020.166139 **Published:** FEB 2021

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**Record 652 of 1000**

**Title:** PEM fuel cell cathode-side flow field design optimization based on multi-criteria analysis of liquid-slug dynamics

**Author(s):** Cao, Y (Cao, Yan); Ayed, H (Ayed, Hamdi); Jafarmadar, S (Jafarmadar, Samad); Abdollahi, MAA (Abdollahi, Mir Ali Asghar); Farag, A (Farag, Ahmed); Wae-hayee, M (Wae-hayee, Makatar); Hashemian, M (Hashemian, Mehran)

**Source:** JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY **Volume:** 98 **Pages:** 397-412 **DOI:** 10.1016/j.jiec.2021.03.024 **Early Access Date:** APR 2021 **Published:** JUN 25 2021

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**Record 653 of 1000**

**Title:** Amorphous alloys with high Fe content for radiation shielding applications

**Author(s):** Alshahrani, B (Alshahrani, B.); Olarinoye, IO (Olarinoye, I. O.); Mutuwong, C (Mutuwong, C.); Sriwunkum, C (Sriwunkum, Chahkrit); Yakout, HA (Yakout, H. A.); Tekin, HO (Tekin, H. O.); Al-Buriah, MS (Al-Buriah, M. S.)

**Source:** RADIATION PHYSICS AND CHEMISTRY **Volume:** 183 **Article Number:** 109386 **DOI:** 10.1016/j.radphyschem.2021.109386 **Early Access Date:** FEB 2021 **Published:** JUN 2021

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### Record 654 of 1000

**Title:** Acute Respiratory Distress Syndrome and COVID-19: A Literature Review

**Author(s):** Hussain, M (Hussain, Musaddique); Syed, SK (Syed, Shahzada Khurram); Fatima, M (Fatima, Mobeen); Shaukat, S (Shaukat, Saira); Saadullah, M (Saadullah, Malik); Alqahtani, AM (Alqahtani, Ali M.); Alqahtani, T (Alqahtani, Taha); Bin Emran, T (Bin Emran, Talha); Alamri, AH (Alamri, Ali H.); Barkat, MQ (Barkat, Muhammad Qasim); Wu, XM (Wu, Ximei)

**Source:** JOURNAL OF INFLAMMATION RESEARCH **Volume:** 14 **Pages:** 7225-7242 **DOI:** 10.2147/JIR.S334043 **Published:** 2021

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### Record 655 of 1000

**Title:** Investigations of crystallization kinetics and phase transformation of 1000 nm of Ge<sub>20</sub>Sb<sub>20</sub>Te<sub>60</sub> thin film from electrical measurements

**Author(s):** Shaaban, ER (Shaaban, E. R.); Elsaedy, HI (Elsaedy, H., I); Mahmoud, M (Mahmoud, Mona); Abdelaal, SA (Abdelaal, Said A.); Yakout, HA (Yakout, H. A.); Aboraia, AM (Aboraia, Abdelaziz M.)

**Source:** CHALCOGENIDE LETTERS **Volume:** 18 **Issue:** 4 **Pages:** 215-224 **Published:** APR 2021

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### Record 656 of 1000

**Title:** Comparative structural, linear-non-linear optical, laser damage threshold, dielectric and thermal analysis of pristine and L-cysteine influenced KH<sub>2</sub>PO<sub>4</sub> crystal for NLO applications

**Author(s):** Anis, M (Anis, Mohd); Azher, SM (Azher, S. M.); Shirsat, MD (Shirsat, M. D.); Anees, MI (Anees, Mohammed Imran); Mukhtar, M (Mukhtar, Mohammed); Baig, MI (Baig, M., I); Somaily, HH (Somaily, H. H.)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 134 **Article Number:** 109019 **DOI:** 10.1016/j.inoche.2021.109019 **Early Access Date:** NOV 2021 **Published:** DEC 2021

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### Record 657 of 1000

**Title:** Facile synthesis of reduced graphene oxide aerogel in soft drink as supercapacitor electrode

**Author(s):** Albarqouni, YMY (Albarqouni, Yasin M. Y.); Lee, SP (Lee, Soon Poh); Ali, GAM (Ali, Gomaa A. M.); Ethiraj, AS (Ethiraj, Anita Sagadevan); Algarni, H (Algarni, H.); Chong, KF (Chong, Kwok Feng)

**Source:** JOURNAL OF NANOSTRUCTURE IN CHEMISTRY **Volume:** 12 **Issue:** 3 **Pages:** 417-427 **DOI:** 10.1007/s40097-021-00424-7 **Early Access Date:** JUL 2021 **Published:** JUN 2022

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### Record 658 of 1000

**Title:** Synthesis of New Chiral Triazoles Linked 1,5-Benzodiazepine Conjugates via Copper-Catalyzed 1,3-Dipolar Cycloaddition Reaction

**Author(s):** Haouas, A (Haouas, Amel); Mtiraoui, H (Mtiraoui, Hasan); Bouzayani, N (Bouzayani, Nadia); Ibrahim, S (Ibrahim, Sana); Marque, S (Marque, Sylvain); Hajji, M (Hajji, Melek); Bel-Hadj-Tahar, R (Bel-Hadj-Tahar, Radhouane); Msaddek, M (Msaddek, Moncef)

**Source:** CHEMISTRYSELECT **Volume:** 6 **Issue:** 3 **Pages:** 419-424 **DOI:** 10.1002/slct.202004276 **Published:** JAN 20 2021

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### Record 659 of 1000

**Title:** Dye sensitized solar cell-based optoelectronic device using novel [Ru(L1)(L2)(NCS)<sub>2</sub>] complex

**Author(s):** Dayan, O (Dayan, Osman); Imer, AG (Imer, Arife Gencer); Tercan, M (Tercan, Melek); Dere, A (Dere, Aysegul); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Al-Ghamdi, AA (Al-Ghamdi, Ahmed A.); Yakuphanoglu, F (Yakuphanoglu, Fahrettin)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1238 **Article Number:** 130464 **DOI:** 10.1016/j.molstruc.2021.130464 **Early Access Date:** APR 2021 **Published:** AUG 15 2021

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### Record 660 of 1000

**Title:** Nanobiocatalysts for Biodiesel Synthesis through Transesterification-A Review

**Author(s):** Najeeb, J (Najeeb, Jawayria); Akram, S (Akram, Sadia); Mumtaz, MW (Mumtaz, Muhammad Waseem); Danish, M (Danish, Muhammad); Irfan, A (Irfan, Ahmad); Touqeer, T (Touqeer, Tooba); Rashid, U

(Rashid, Umer); Ghani, WAWA (Ghani, Wan Azlina Wan Ab Karim); Choong, TSY (Choong, Thomas Shean Yaw)

**Source:** CATALYSTS **Volume:** 11 **Issue:** 2 **Article Number:** 171 **DOI:** 10.3390/catal11020171 **Published:** FEB 2021

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#### Record 661 of 1000

**Title:** Exploring the optoelectronic and third-order nonlinear optical susceptibility of cross-shaped molecules: insights from molecule to material level

**Author(s):** Shehzad, RA (Shehzad, Rao Aqil); Muhammad, S (Muhammad, Shabbir); Iqbal, J (Iqbal, Javed); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Yaseen, M (Yaseen, Muhammad); Aloui, Z (Aloui, Zouhaier); Khalid, M (Khalid, Muhammad)

**Source:** JOURNAL OF MOLECULAR MODELING **Volume:** 27 **Issue:** 1 **Article Number:** 12 **DOI:** 10.1007/s00894-020-04619-7 **Published:** JAN 5 2021

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#### Record 662 of 1000

**Title:** Effects of expandable graphite on char morphology and pyrolysis of epoxy based intumescent fire-retardant coating

**Author(s):** Ullah, S (Ullah, Sami); Ahmad, F (Ahmad, Faiz); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Raza, MR (Raza, Muhammad Rafi); Assiri, MA (Assiri, Mohammed Ali); Irfan, A (Irfan, Ahmad); Oñate, E (Onate, Eugenio); Yeoh, GH (Yeoh, Guan Heng)

**Source:** JOURNAL OF APPLIED POLYMER SCIENCE **Volume:** 138 **Issue:** 41 **Article Number:** e51206 **DOI:** 10.1002/app.51206 **Early Access Date:** JUN 2021 **Published:** NOV 5 2021

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#### Record 663 of 1000

**Title:** Optimization of different temperature annealed nanostructured CdSe thin film for photodetector applications

**Author(s):** Alagarasan, D (Alagarasan, Devarajan); Varadharajaperumal, S (Varadharajaperumal, S.); Kumar, KDA (Kumar, K. Deva Arun); Naik, R (Naik, R.); Arunkumar, A (Arunkumar, A.); Ganesan, R (Ganesan, R.); Hegde, G (Hegde, Gopalkrishna); Massoud, EE (Massoud, Ehab El Sayed)

**Source:** OPTICAL MATERIALS **Volume:** 122 **Article Number:** 111706 **DOI:** 10.1016/j.optmat.2021.111706 **Early Access Date:** NOV 2021 **Part:** B **Published:** DEC 2021

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#### Record 664 of 1000

**Title:** In<sub>x</sub>Ga<sub>1-x</sub>N/GaN double heterojunction solar cell optimization for high temperature operation

**Author(s):** Chouchen, B (Chouchen, Bilel); Ducroquet, F (Ducroquet, Frederique); Nasr, S (Nasr, Samia); Alzahrani, AYA (Alzahrani, Abdullah Y. A.); Hajjiah, AT (Hajjiah, Ali T.); Gazzah, MH (Gazzah, Mohamed Hichem)

**Source:** SOLAR ENERGY MATERIALS AND SOLAR CELLS **Volume:** 234 **Article Number:** 111446 **DOI:** 10.1016/j.solmat.2021.111446 **Early Access Date:** OCT 2021 **Published:** JAN 2022

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#### Record 665 of 1000

**Title:** Enhancement of photoluminescence of Cd<sub>0.95</sub>Eu<sub>0.05</sub>SiO<sub>3</sub> phosphor using Na<sup>+</sup> and K<sup>+</sup> charge compensators

**Author(s):** Shivakumara, J (Shivakumara, J.); Manjunatha, C (Manjunatha, C.); Krishna, RH (Krishna, R. Hari); Ashoka, S (Ashoka, S.); Chikkahanumantharayappa (Chikkahanumantharayappa); Selvaraj, M (Selvaraj, Manickam); Sillanpää, M (Sillanpää, Mika)

**Source:** CHEMICAL PHYSICS **Volume:** 551 **Article Number:** 111319 **DOI:** 10.1016/j.chemphys.2021.111319 **Early Access Date:** SEP 2021 **Published:** NOV 1 2021

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#### Record 666 of 1000

**Title:** Gum Arabic-Magnetite Nanocomposite as an Eco-Friendly Adsorbent for Removal of Lead(II) Ions from Aqueous Solutions: Equilibrium, Kinetic and Thermodynamic Studies



**Author(s):** Ali, IH (Ali, Ismat H.); Bani-Fwaz, MZ (Bani-Fwaz, Mutasem Z.); El-Zahhar, AA (El-Zahhar, Adel A.); Marzouki, R (Marzouki, Riadh); Jemmali, M (Jemmali, Mosbah); Ebraheem, SM (Ebraheem, Sara M.)

**Source:** SEPARATIONS **Volume:** 8 **Issue:** 11 **Article Number:** 224 **DOI:** 10.3390/separations8110224 **Published:** NOV 2021

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#### **Record 667 of 1000**

**Title:** Insighting role of activated carbon based nanostructures for complete photocatalytic degradation of hazardous pharmaceutical compound

**Author(s):** Tahir, MB (Tahir, M. B.); Ashraf, M (Ashraf, Maria); Iqbal, T (Iqbal, Tahir); Sagir, M (Sagir, M.); Alrobei, H (Alrobei, Hussein); Shahzad, K (Shahzad, Khurram); Ali, AM (Ali, Arshid Mahmood); Muhammad, S (Muhammad, Shabbir)

**Source:** APPLIED NANOSCIENCE **Volume:** 11 **Issue:** 4 **Pages:** 1117-1126 **DOI:** 10.1007/s13204-021-01752-4 **Early Access Date:** MAR 2021 **Published:** APR 2021

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#### **Record 668 of 1000**

**Title:** Kinetics, thermodynamics, equilibrium, surface modelling, and atomic absorption analysis of selective Cu(II) removal from aqueous solutions and rivers water using silica-2-(pyridin-2-ylmethoxy) ethan-1-ol hybrid material

**Author(s):** Tighadouini, S (Tighadouini, Said); Radi, S (Radi, Smaail); Roby, O (Roby, Othmane); Hammoudan, I (Hammoudan, Imad); Saddik, R (Saddik, Rafik); Garcia, Y (Garcia, Yann); Almarhoon, ZM (Almarhoon, Zainab M.); Mabkhot, YN (Mabkhot, Yahia N.)

**Source:** RSC ADVANCES **Volume:** 12 **Issue:** 1 **Pages:** 611-625 **DOI:** 10.1039/d1ra06640d **Published:** DEC 20 2021

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#### **Record 669 of 1000**

**Title:** Enhancing the structural, optical, electrical, properties and photocatalytic applications of ZnO/PMMA nanocomposite membranes: towards multifunctional membranes

**Author(s):** Mohammed, MI (Mohammed, M., I); Khafagy, RM (Khafagy, R. M.); Hussien, MSA (Hussien, Mai S. A.); Sakr, GB (Sakr, G. B.); Ibrahim, MA (Ibrahim, Medhat A.); Yahia, IS (Yahia, I. S.); Zahran, HY (Zahran, H. Y.)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 33 **Issue:** 4 **Pages:** 1977-2002 **DOI:** 10.1007/s10854-021-07402-3 **Early Access Date:** NOV 2021 **Published:** FEB 2022

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#### **Record 670 of 1000**

**Title:** Plant-microbe-metal interactions for heavy metal bioremediation: a review

**Author(s):** Islam, MS (Islam, Md Saiful); Kormoker, T (Kormoker, Tapos); Idris, AM (Idris, Abubakr M.); Proshad, R (Proshad, Ram); Kabir, MH (Kabir, Md Humayun); Ustaoglu, F (Ustaoglu, Fikret)

**Source:** CROP & PASTURE SCIENCE **Volume:** 73 **Issue:** 2 **Pages:** 181-201 **DOI:** 10.1071/CP21322 **Early Access Date:** JUL 2021 **Published:** 2022

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#### **Record 671 of 1000**

**Title:** Isolation of phytochemicals from *Malva neglecta* Wallr and their quantum chemical, molecular docking exploration as active drugs against COVID-19

**Author(s):** Irfan, A (Irfan, Ahmad); Imran, M (Imran, Muhammad); Khalid, N (Khalid, Noreen); Hussain, R (Hussain, Riaz); Basra, MAR (Basra, Muhammad Asim Raza); Khaliq, T (Khaliq, Tanwir); Shahzad, M (Shahzad, Mohsin); Hussien, M (Hussien, Mohamed); Shah, AT (Shah, Asma Tufail); Qayyum, MA (Qayyum, Muhammad Abdul); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Assiri, MA (Assiri, Mohammed A.)

**Source:** JOURNAL OF SAUDI CHEMICAL SOCIETY **Volume:** 25 **Issue:** 12 **Article Number:** 101358 **DOI:** 10.1016/j.jscs.2021.101358 **Early Access Date:** NOV 2021 **Published:** DEC 2021

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#### **Record 672 of 1000**

**Title:** Paper-Based Potentiometric Device for Rapid and Selective Determination of Salicylhydroxamate as a Urinary Struvite Stone Inhibitor

**Author(s):** Abd-Rabboh, HSM (Abd-Rabboh, Hisham S. M.); Amr, AE (Amr, Abd El-Galil E.); Almhizia, AA (Almhizia, Abdulrahman A.); Kamel, AH (Kamel, Ayman H.)

**Source:** ACS OMEGA **Volume:** 6 **Issue:** 42 **Pages:** 27755-27762 **DOI:** 10.1021/acsomega.1c03135 **Early Access Date:** OCT 2021 **Published:** OCT 26 2021

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#### Record 673 of 1000

**Title:** Decorated Cu NPs on Lignin coated magnetic nanoparticles: Its performance in the reduction of nitroarenes and investigation of its anticancer activity in A549 lung cancer cells

**Author(s):** Huang, YJ (Huang, Yongjie); Kang, Y (Kang, Yan); El-kott, A (El-kott, Attalla); Ahmed, AE (Ahmed, Ahmed Ezzat); Khames, A (Khames, Ahmed); Zein, MA (Zein, Mohamed Abdellatif)

**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 14 **Issue:** 8 **Article Number:** 103299 **DOI:** 10.1016/j.arabjc.2021.103299 **Early Access Date:** JUL 2021 **Published:** AUG 2021

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#### Record 674 of 1000

**Title:** Apoptotic and anti-angiogenic effects of propolis against human bladder cancer: molecular docking and in vitro screening

**Author(s):** Mehany, ABM (Mehany, Ahmed B. M.); Belal, A (Belal, Amany); Mohamed, AF (Mohamed, Aly Fahmy); Shaaban, S (Shaaban, Salwa); Abdelhamid, G (Abdelhamid, Ghada)

**Source:** BIOMARKERS **Volume:** 27 **Issue:** 2 **Pages:** 138-150 **DOI:** 10.1080/1354750X.2021.2020903 **Early Access Date:** DEC 2021 **Published:** FEB 17 2022

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#### Record 675 of 1000

**Title:** Neutral nickel(II) complex bearing hemilabile N,S-donor ligands - structural, Hirshfeld surfaces and DFT studies

**Author(s):** Belkhiria, M (Belkhiria, Marwa); Hajji, M (Hajji, Melek); Mechria, A (Mechria, Ali); Elmgirhi, SMH (Elmgirhi, Salima Moftah H.); Habib, MA (Habib, Mohamed A.); Cruz, TFC (Cruz, Tiago F. C.); Gomes, CSB (Gomes, Clara S. B.); Gomes, PT (Gomes, Pedro T.); Bel-Hadj-Tahar, R (Bel-Hadj-Tahar, Radhouane); Guerfel, T (Guerfel, Taha); Msaddek, M (Msaddek, Moncef)

**Source:** MOLECULAR CRYSTALS AND LIQUID CRYSTALS **Volume:** 709 **Issue:** 1 **Pages:** 98-110 **DOI:** 10.1080/15421406.2020.1829311 **Published:** JAN 29 2021

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#### Record 676 of 1000

**Title:** Synthesis, antioxidant, antimicrobial and antiviral docking studies of ethyl 2-(2-(arylidene)hydrazinyl)thiazole-4-carboxylates

**Author(s):** Haroon, M (Haroon, Muhammad); Akhtar, T (Akhtar, Tashfeen); Khalid, M (Khalid, Muhammad); Ali, S (Ali, Shehbaz); Zahra, S (Zahra, Saniya); ul Haq, I (ul Haq, Ihsan); Alhujaily, M (Alhujaily, Muhanad); Dias, MCHD (de B. Dias, Mabilly C. H.); Leite, ACL (Leite, Ana Cristina Lima); Muhammad, S (Muhammad, Shabbir)

**Source:** ZEITSCHRIFT FUR NATURFORSCHUNG SECTION C-A JOURNAL OF BIOSCIENCES **Volume:** 76 **Issue:** 11-12 **Pages:** 467-480 **DOI:** 10.1515/znc-2021-0042 **Published:** NOV 2021

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#### Record 677 of 1000

**Title:** Enhancing the Inhibition Effect and Adsorption Efficiency of Ethoxylated Dodecyl Alcohols on Corrosion of 316 Stainless Steels in 2M HCl

**Author(s):** Abdallah, M (Abdallah, M.); Alfakeer, M (Alfakeer, M.); Al-Gorair, AS (Al-Gorair, Arej S.); Al Bahir, A (Al Bahir, A.); Sobhi, M (Sobhi, M.)

**Source:** INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE **Volume:** 16 **Issue:** 6 **Article Number:** 210622 **DOI:** 10.20964/2021.06.09 **Published:** JUN 2021

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#### Record 678 of 1000

**Title:** Transport Properties of Ce-Doped Cd Ferrites  $CdFe_{2-x}Ce_xO_4$

**Author(s):** Amin, N (Amin, Nasir); Razaq, A (Razaq, Abdul); Rehman, AU (Rehman, Atta Ur); Hussain, K (Hussain, Khalid); Nabi, MAU (Nabi, M. Ajaz Un); Morley, NA (Morley, N. A.); Amami, M (Amami, Mongi);

Bibi, A (Bibi, Aisha); Arshad, MI (Arshad, Muhammad Imran); Mahmood, K (Mahmood, Khalid); Fatima, M (Fatima, Muneeba); Akhtar, M (Akhtar, Maria); Akbar, S (Akbar, Sofia); Manzoor, A (Manzoor, Alina); Ali, HT (Ali, Hafiz T.); Yusuf, M (Yusuf, Mohammad); Amin, S (Amin, Sana)

**Source:** JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM **Volume:** 34 **Issue:** 11 **Pages:** 2945-2955 **DOI:** 10.1007/s10948-021-06053-z **Early Access Date:** OCT 2021 **Published:** NOV 2021

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#### **Record 679 of 1000**

**Title:** Synergistic effect of 4-dimethylaminopyridine with sodium dodecyl sulfonate and potassium bromide on the corrosion inhibition of mild steel in HCl medium: a collective experimental and computational investigation

**Author(s):** Zhu, MY (Zhu, Mengyue); Guo, L (Guo, Lei); Chang, J (Chang, Jun); He, ZY (He, Zhongyi); Yao, YY (Yao, Yuanyong); Zhang, RH (Zhang, Renhui); Zheng, XW (Zheng, Xingwen); Marzouki, R (Marzouki, Riadh)

**Source:** JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY **Volume:** 36 **Issue:** 22 **Pages:** 2462-2477 **DOI:** 10.1080/01694243.2021.2017657 **Early Access Date:** DEC 2021 **Published:** NOV 17 2022

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#### **Record 680 of 1000**

**Title:** Lymphocyte Phenotyping and HLA-DR Expression over the Course of COVID-19 Infection in Patients with Different Disease Severity

**Author(s):** Asmaa-Nafady (Asmaa-Nafady); Alaa-Rashad (Alaa-Rashad); Nafady-Hego, H (Nafady-Hego, Hanaa); Nasif, KA (Nasif, Khalid-Ali); Ebtessam-Elgezawy (Ebtessam-Elgezawy); Abd Elrahman, NH (Abd Elrahman, Nehad-Hassan); Osman, HA (Osman, Heba-Ahmed)

**Source:** CLINICAL LABORATORY **DOI:** 10.7754/Clin.Lab.2021.211017) **Early Access Date:** OCT 2021

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#### **Record 681 of 1000**

**Title:** Synthesis, structural, and opto-electrochemical properties of cobalt aluminate type spinel and its use with ZnO for Cr(VI) photoreduction

**Author(s):** Bouallouch, R (Bouallouch, Rachida); Kebir, M (Kebir, Mohammed); Nasrallah, N (Nasrallah, Nouredine); Saib, F (Saib, Faouzi); El Jery, A (El Jery, Atef); Khezami, L (Khezami, Lotfi); Trari, M (Trari, Mohamed)

**Source:** ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH **Volume:** 29 **Issue:** 8 **Pages:** 12237-12248 **DOI:** 10.1007/s11356-021-16625-0 **Early Access Date:** SEP 2021 **Published:** FEB 2022

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#### **Record 682 of 1000**

**Title:** Fabrication and Characterization of Steel-Base Metal Matrix Composites Reinforced by Ytria Nanoparticles through Friction Stir Processing

**Author(s):** Mahmoud, ERI (Mahmoud, Essam R. I.); Almohamadi, H (Almohamadi, Hamad); Aljabri, A (Aljabri, Abdulrahman); Khan, SZ (Khan, Sohaib Z.); Saquib, AN (Saquib, Ahmad N.); Farhan, M (Farhan, Mohammed); Elkotb, MAG (Elkotb, Mohammed Abdel-Ghani)

**Source:** MATERIALS **Volume:** 14 **Issue:** 24 **Article Number:** 7611 **DOI:** 10.3390/ma14247611 **Published:** DEC 2021

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#### **Record 683 of 1000**

**Title:** A UPLC-DAD-Based Bio-Screening Assay for the Evaluation of the Angiotensin Converting Enzyme Inhibitory Potential of Plant Extracts and Compounds: Pyrroquinazoline Alkaloids from *Adhatoda vasica* as a Case Study

**Author(s):** Tehreem, S (Tehreem, Syeda); Rahman, S (Rahman, Saeedur); Bhatti, MS (Bhatti, Muhammad Salman); Uddin, R (Uddin, Reaz); Khan, MN (Khan, Muhammad Noman); Tauseef, S (Tauseef, Saba); El-Seedi, HR (El-Seedi, Hesham R.); Bin Muhsinah, A (Bin Muhsinah, Abdullatif); Uddin, J (Uddin, Jalal); Musharraf, SG (Musharraf, Syed Ghulam)

**Source:** MOLECULES **Volume:** 26 **Issue:** 22 **Article Number:** 6971 **DOI:** 10.3390/molecules26226971 **Published:** NOV 2021

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#### **Record 684 of 1000**

**Title:** Evaluation of spectral, optoelectrical, dielectric, magnetic, and morphological properties of RE<sup>3+</sup> (La<sup>3+</sup>, and Ce<sup>3+</sup>) and Co<sup>2+</sup> co-doped Zn<sub>0.75</sub>Cu<sub>0.25</sub>Fe<sub>2</sub>O<sub>4</sub> ferrites

**Author(s):** Rehman, AU (Rehman, Atta Ur); Amin, N (Amin, Nasir); Tahir, MB (Tahir, Muhammad Bilal); Nabi, MAU (Nabi, Muhammad Ajaz Un); Morley, NA (Morley, N. A.); Alzaid, M (Alzaid, Meshal); Amami, M (Amami, Mongi); Akhtar, M (Akhtar, Maria); Arshad, MI (Arshad, Muhammad Imran)

**Source:** MATERIALS CHEMISTRY AND PHYSICS **Volume:** 275 **Article Number:** 125301 **DOI:** 10.1016/j.matchemphys.2021.125301 **Early Access Date:** OCT 2021 **Published:** JAN 1 2022

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#### Record 685 of 1000

**Title:** Ru-embedded 3D g-C<sub>3</sub>N<sub>4</sub> hollow nanosheets (3D CNHNS) with proficient charge transfer for stimulating photocatalytic H<sub>2</sub> production

**Author(s):** Tahir, B (Tahir, Beenish); Tahir, M (Tahir, Muhammad); Nawawai, MGM (Nawawai, Mohd Ghazali Mohd); Khoja, AH (Khoja, Asif Hussain); Ul Haq, B (Ul Haq, Bakhtiar); Farooq, W (Farooq, Wasif)

**Source:** INTERNATIONAL JOURNAL OF HYDROGEN ENERGY **Volume:** 46 **Issue:** 55 **Pages:** 27997-28010 **DOI:** 10.1016/j.ijhydene.2021.06.037 **Early Access Date:** JUL 2021 **Published:** AUG 10 2021

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#### Record 686 of 1000

**Title:** A DFT plus U study of the effect of transition metal replacements on optoelectronic and elastic properties of TmCu<sub>3</sub>S<sub>4</sub> (Tm = V, Ta, Nb)

**Author(s):** Abbas, Z (Abbas, Zeesham); Fatima, K (Fatima, Kisa); Abubakr, M (Abubakr, Muhammad); Gorczyca, I (Gorczyca, Izabela); Alshahrani, T (Alshahrani, Thamraa); Muhammad, S (Muhammad, Shabbir); Al-Sehemi, AG (Al-Sehemi, Abdullah G.)

**Source:** OPTIK **Volume:** 250 **Article Number:** 168289 **DOI:** 10.1016/j.ijleo.2021.168289 **Early Access Date:** NOV 2021 **Part:** 1 **Published:** JAN 2022

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#### Record 687 of 1000

**Title:** Scalable Synthesis of Sm<sub>2</sub>O<sub>3</sub>/Fe<sub>2</sub>O<sub>3</sub> Hierarchical Oxygen Vacancy-Based Gyroid-Inspired Morphology: With Enhanced Electrocatalytic Activity for Oxygen Evolution Performance

**Author(s):** Abid, AG (Abid, Abdul Ghafoor); Manzoor, S (Manzoor, Sumaira); Usman, M (Usman, Muhammad); Munawar, T (Munawar, Tauseef); Nisa, MU (Nisa, Mehar Un); Iqbal, F (Iqbal, Faisal); Ashiq, MN (Ashiq, Muhammad Naeem); Najam-ul-Haq, M (Najam-ul-Haq, Muhammad); Shah, A (Shah, Afzal); Imran, M (Imran, Muhammad)

**Source:** ENERGY & FUELS **Volume:** 35 **Issue:** 21 **Pages:** 17820-17832 **DOI:** 10.1021/acs.energyfuels.1c01790 **Early Access Date:** OCT 2021 **Published:** NOV 4 2021

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#### Record 688 of 1000

**Title:** Multicomponent Synthesis of Novel Functionalized Pyrano[2',3':4,5]pyrimido[1,6-b][1,2,4,5]triazaphosphinines

**Author(s):** Ali, TE (Ali, T. E.); Bakhotmah, DA (Bakhotmah, D. A.); Assiri, MA (Assiri, M. A.); Yahia, IS (Yahia, I. S.); Zahran, HY (Zahran, H. Y.)

**Source:** RUSSIAN JOURNAL OF ORGANIC CHEMISTRY **Volume:** 57 **Issue:** 3 **Pages:** 469-475 **DOI:** 10.1134/S1070428021030209 **Published:** MAR 2021

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#### Record 689 of 1000

**Title:** A Study on the Fiber YAG Laser Welding of 304L Stainless Steel

**Author(s):** Mahmoud, ERI (Mahmoud, Essam R. I.); Almohamadi, H (Almohamadi, Hamad); Aljabri, A (Aljabri, Abdulrahman); Elkotb, MA (Elkotb, Mohamed Abdelghany)

**Source:** METALS **Volume:** 11 **Issue:** 12 **Article Number:** 2022 **DOI:** 10.3390/met11122022 **Published:** DEC 2021

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#### Record 690 of 1000

**Title:** Synthesis and characterization of Cu(II)-pyrazole complexes for possible anticancer agents; conformational studies as well as compatible *in-silico* and *in-vitro* assays

**Author(s):** Aljuhani, E (Aljuhani, Enas); Aljohani, MM (Aljohani, Meshari M.); Alsoliemy, A (Alsoliemy, Amerah); Shah, R (Shah, Reem); Abumelha, HM (Abumelha, Hana M.); Saad, FA (Saad, Fawaz A.); Hossan, A (Hossan, Aisha); Al-Ahmed, ZA (Al-Ahmed, Zehbah A.); Alharbi, A (Alharbi, Ahmed); El-Metwaly, NM (El-Metwaly, Nashwa M.)

**Source:** HELIYON **Volume:** 7 **Issue:** 11 **Article Number:** e08485 **DOI:** 10.1016/j.heliyon.2021.e08485 **Published:** NOV 2021

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#### Record 691 of 1000

**Title:** Tunable electronic and magnetic properties of single layer CdS via Li substitutional doping: A first-principle study

**Author(s):** Rahman, AU (Rahman, Altaf Ur); Sadiq, T (Sadiq, Talha); Khan, R (Khan, Rashid); Anwar, R (Anwar, Rimsha); Gul, B (Gul, Banat); Dahshan, A (Dahshan, Alaa)

**Source:** JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS **Volume:** 161 **Article Number:** 110380 **DOI:** 10.1016/j.jpcs.2021.110380 **Early Access Date:** SEP 2021 **Published:** FEB 2022

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#### Record 692 of 1000

**Title:** Green synthesis of gold nanoparticles (Au NPs) using *Tribulus terrestris* extract: Investigation of its catalytic activity in the oxidation of sulfides to sulfoxides and study of its anti-acute leukemia activity

**Author(s):** Zhao, P (Zhao, Peng); El-kott, A (El-kott, Attalla); Ahmed, AE (Ahmed, Ahmed Ezzat); Khames, A (Khames, Ahmed); Zein, MA (Zein, Mohamed Abdellatif)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 131 **Article Number:** 108781 **DOI:** 10.1016/j.inoche.2021.108781 **Early Access Date:** JUL 2021 **Published:** SEP 2021

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#### Record 693 of 1000

**Title:** Gastroprotective effects and metabolomic profiling of Chasteberry fruits against indomethacin-induced gastric injury in rats

**Author(s):** Ogaly, HA (Ogaly, Hanan A.); Alsherbiny, MA (Alsherbiny, Muhammad A.); El Badawy, SA (El Badawy, Shymaa A.); Abd-Elsalam, RM (Abd-Elsalam, Reham M.); Li, CG (Li, Chun Guang); Azouz, AA (Azouz, Asmaa A.)

**Source:** JOURNAL OF FUNCTIONAL FOODS **Volume:** 86 **Article Number:** 104732 **DOI:** 10.1016/j.jff.2021.104732 **Early Access Date:** SEP 2021 **Published:** NOV 2021

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#### Record 694 of 1000

**Title:** Dielectric and electrical properties of synthesized PBGO/Fe<sub>3</sub>O<sub>4</sub> nanocomposite

**Author(s):** Ali, MD (Ali, Muhammad Danish); Majid, F (Majid, Farzana); Aslam, A (Aslam, Ammara); Malik, A (Malik, Abdul); Wahid, I (Wahid, Iqra); Dildar, S (Dildar, Seemab); Waseem, S (Waseem, Salma); Dahshan, A (Dahshan, A.)

**Source:** CERAMICS INTERNATIONAL **Volume:** 47 **Issue:** 18 **Pages:** 26224-26232 **DOI:** 10.1016/j.ceramint.2021.06.030 **Early Access Date:** JUL 2021 **Published:** SEP 15 2021

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#### Record 695 of 1000

**Title:** Influence of van der waals heterostructures of 2D materials on catalytic performance of ZnO and its applications in energy: A review

**Author(s):** Fatima, N (Fatima, Nisar); Tahir, MB (Tahir, Muhammad Bilal); Noor, A (Noor, Asma); Sagir, M (Sagir, M.); Tahir, MS (Tahir, M. Suleman); Alrobei, H (Alrobei, Hussein); Fatima, U (Fatima, Urooj); Shahzad, K (Shahzad, Khurram); Ali, AM (Ali, Arshid Mahmood); Muhammad, S (Muhammad, Shabbir)

**Source:** INTERNATIONAL JOURNAL OF HYDROGEN ENERGY **Volume:** 46 **Issue:** 50 **Pages:** 25413-25423 **DOI:** 10.1016/j.ijhydene.2021.05.086 **Early Access Date:** JUL 2021 **Published:** JUL 21 2021

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#### Record 696 of 1000

**Title:** Detailed Structural Examination, Quantum Mechanical Studies of the Aromatic Compound Solarimfetol and Formation of Inclusion Compound with Cucurbituril

**Author(s):** Pooventhiran, T (Pooventhiran, T.); Cheriet, M (Cheriet, Mouna); Bhattacharyya, U (Bhattacharyya, Utsab); Irfan, A (Irfan, Ahmad); Puchta, R (Puchta, Ralph); Sowrirajan, S (Sowrirajan, S.); Thomas, R (Thomas, Renjith)

**Source:** POLYCYCLIC AROMATIC COMPOUNDS **Volume:** 42 **Issue:** 8 **Pages:** 5443-5455 **DOI:** 10.1080/10406638.2021.1937238 **Early Access Date:** JUN 2021 **Published:** SEP 14 2022

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#### Record 697 of 1000

**Title:** Medicinal plants used against hepatic disorders in Bangladesh: A comprehensive review

**Author(s):** Das, R (Das, Rajib); Mitra, S (Mitra, Saikat); Tareq, A (Tareq, Abu Montakim); Bin Emran, T (Bin Emran, Talha); Hossain, MJ (Hossain, Md. Jamal); Alqahtani, AM (Alqahtani, Ali M.); Alghazwani, Y (Alghazwani, Yahia); Dhama, K (Dhama, Kuldeep); Simal-Gandara, J (Simal-Gandara, Jesus)

**Source:** JOURNAL OF ETHNOPHARMACOLOGY **Volume:** 282 **Article Number:** 114588 **DOI:** 10.1016/j.jep.2021.114588 **Early Access Date:** OCT 2021 **Published:** JAN 10 2022

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#### Record 698 of 1000

**Title:** Receptor model-based source apportionment and ecological risk of metals in sediments of an urban river in Bangladesh

**Author(s):** Proshad, R (Proshad, Ram); Kormoker, T (Kormoker, Tapos); Al, MA (Al, Mamun Abdullah); Islam, MS (Islam, Md Saiful); Khadka, S (Khadka, Sujan); Idris, AM (Idris, Abubakr M.)

**Source:** JOURNAL OF HAZARDOUS MATERIALS **Volume:** 423 **Article Number:** 127030 **DOI:** 10.1016/j.jhazmat.2021.127030 **Early Access Date:** SEP 2021 **Part:** A **Published:** FEB 5 2022

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#### Record 699 of 1000

**Title:** Effect of Annealing on Structure and Physicochemical Properties of  $(\text{Ge}_{20}\text{Se}_{18}\text{Te}_{62})_{100-x}\text{I}_x$ , Where  $x=0, 8$

**Author(s):** Hegazy, HH (Hegazy, H. H.); Jaafari, MA (Jaafari, M. A.); Pankaj, S (Pankaj, Sharma)

**Source:** GLASS PHYSICS AND CHEMISTRY **Volume:** 47 **Issue:** 3 **Pages:** 245-252 **DOI:** 10.1134/S1087659621030032 **Published:** MAY 2021

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#### Record 700 of 1000

**Title:** Green synthesis of silver nanoparticles using plant extracts and their antimicrobial activities: a review of recent literature

**Author(s):** Vanlalveni, C (Vanlalveni, Chhangte); Lallianrawna, S (Lallianrawna, Samuel); Biswas, A (Biswas, Ayushi); Selvaraj, M (Selvaraj, Manickam); Changmai, B (Changmai, Bishwajit); Rokhum, SL (Rokhum, Samuel Lalthazuala)

**Source:** RSC ADVANCES **Volume:** 11 **Issue:** 5 **Pages:** 2804-2837 **DOI:** 10.1039/d0ra09941d **Published:** JAN 22 2021

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#### Record 701 of 1000

**Title:** Exploration of promising optical and electronic properties of (non-polymer) small donor molecules for organic solar cells

**Author(s):** Khalid, M (Khalid, Muhammad); Khan, MU (Khan, Muhammad Usman); Ahmed, S (Ahmed, Saeed); Shafiq, Z (Shafiq, Zahid); Alam, MM (Alam, Mohammed Mujahid); Imran, M (Imran, Muhammad); Braga, AAC (Braga, Atualpa Albert Carmo); Akram, MS (Akram, Muhammad Safwan)

**Source:** SCIENTIFIC REPORTS **Volume:** 11 **Issue:** 1 **Article Number:** 21540 **DOI:** 10.1038/s41598-021-01070-3 **Published:** NOV 2 2021

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#### Record 702 of 1000

**Title:** Natural Bioactive Molecules: An Alternative Approach to the Treatment and Control of COVID-19

**Author(s):** Islam, F (Islam, Fahadul); Bibi, S (Bibi, Shabana); Meem, AFK (Meem, Atkia Farzana Khan); Islam, MM (Islam, Md. Mohaimenul); Rahaman, MS (Rahaman, Md. Saidur); Bepary, S (Bepary, Sristy); Rahman, MM (Rahman, Md. Mizanur); Rahman, MM (Rahman, Md. Mominur); Elzaki, A (Elzaki, Amin); Kajoak, S

(Kajoak, Samih); Osman, H (Osman, Hamid); ElSamani, M (ElSamani, Mohamed); Khandaker, MU (Khandaker, Mayeen Uddin); Idris, AM (Idris, Abubakr M.); Emran, TB (Emran, Talha Bin)

**Source:** INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES **Volume:** 22 **Issue:** 23 **Article Number:** 12638 **DOI:** 10.3390/ijms222312638 **Published:** DEC 2021

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#### Record 703 of 1000

**Title:** Lone pair Halogen ( $X_{2}$ )  $\cdots \pi$  Interactions Stabilizes Molecular Halogens ( $X_{2}$  =  $I_{2}$ ,  $Br_{2}$ ,  $Cl_{2}$ , and  $F_{2}$ ) on Reduced Graphene Oxide surface: Structural, Solvent Effect and optical properties

**Author(s):** Mersal, GAM (Mersal, Gaber A. M.); Yahia, IS (Yahia, I. S.); El-Sheshtawy, HS (El-Sheshtawy, Hamdy S.)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1244 **Article Number:** 130963 **DOI:** 10.1016/j.molstruc.2021.130963 **Early Access Date:** JUL 2021 **Published:** NOV 15 2021

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#### Record 704 of 1000

**Title:** Structural, optical, and magnetic properties of nanostructured Ag-substituted Co-Zn ferrites: insights on anticancer and antiproliferative activities

**Author(s):** Alshahrani, B (Alshahrani, B.); ElSaeedy, HI (ElSaeedy, H. I.); Fares, S (Fares, S.); Korna, AH (Korna, A. H.); Yakout, HA (Yakout, H. A.); Ashour, AH (Ashour, A. H.); Fahim, RA (Fahim, Ramy Amer); Kodous, AS (Kodous, Ahmad S.); Gobara, M (Gobara, Mohamed); Maksoud, MIAA (Maksoud, M. I. A. Abdel)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 32 **Issue:** 9 **Pages:** 12383-12401 **DOI:** 10.1007/s10854-021-05870-1 **Early Access Date:** APR 2021 **Published:** MAY 2021

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#### Record 705 of 1000

**Title:** A review of the recent progress on heterogeneous catalysts for Knoevenagel condensation

**Author(s):** Appaturi, JN (Appaturi, Jimmy Nelson); Ratti, R (Ratti, Rajni); Phoon, BL (Phoon, Bao Lee); Batagarawa, SM (Batagarawa, Samaila Muazu); Din, IU (Din, Israf Ud); Selvaraj, M (Selvaraj, Manickam); Ramalingam, RJ (Ramalingam, Rajabathar Jothi)

**Source:** DALTON TRANSACTIONS **Volume:** 50 **Issue:** 13 **Pages:** 4445-4469 **DOI:** 10.1039/d1dt00456e **Published:** APR 7 2021

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#### Record 706 of 1000

**Title:**  $ZnCl_{2}$  catalyzed new coumarinyl-chalcones as cytotoxic agents

**Author(s):** Kumar, KS (Kumar, Konidala Sathish); Kotra, V (Kotra, Vijay); Kola, PK (Kola, Phani Kumar); Devi, CBP (Devi, Ch B. Praveena); Anusha, N (Anusha, Nutakki); Babu, BH (Babu, Bollikolla Hari); Adil, SF (Adil, Syed Farooq); Shaik, MR (Shaik, Mohammed Rafi); Khan, M (Khan, Mujeeb); Al-Warthan, A (Al-Warthan, Abdulrahman); Alduhaish, O (Alduhaish, Osamah); Alam, MM (Alam, M. Mujahid)

**Source:** SAUDI JOURNAL OF BIOLOGICAL SCIENCES **Volume:** 28 **Issue:** 1 **Pages:** 386-394 **DOI:** 10.1016/j.sjbs.2020.10.020 **Published:** JAN 2021

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#### Record 707 of 1000

**Title:** Role of surfactant in tailoring the properties of  $Bi_{2}S_{3}$  nanoparticles for photocatalytic degradation of methylene blue dye

**Author(s):** Arumugam, J (Arumugam, J.); George, A (George, Amal); Raj, AD (Raj, A. Dhayal); Selvaraj, M (Selvaraj, M.); Irudayaraj, AA (Irudayaraj, A. Albert); Pazhanivel, T (Pazhanivel, T.); Josephine, RL (Josephine, R. L.); Bhuvaneswari, K (Bhuvaneswari, K.)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 33 **Issue:** 11 **Special Issue:** SI **Pages:** 8946-8957 **DOI:** 10.1007/s10854-021-07007-w **Early Access Date:** OCT 2021 **Published:** APR 2022

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#### Record 708 of 1000

**Title:** Catalytic Oxidation of Toluene into Benzaldehyde and Benzyl Alcohol Using Molybdenum-Incorporated Manganese Oxide Nanomaterials

**Author(s):** Shoukat, H (Shoukat, Hamza); Altaf, AA (Altaf, Ataf Ali); Hamayun, M (Hamayun, Muhammad); Ullah, S (Ullah, Shaheed); Kausar, S (Kausar, Samia); Hamza, M (Hamza, Muhammad); Muhammad, S (Muhammad, Shabbir); Badshah, A (Badshah, Amin); Rasool, N (Rasool, Nasir); Imran, M (Imran, Muhammad)  
**Source:** ACS OMEGA **Volume:** 6 **Issue:** 30 **Pages:** 19606-19615 **DOI:** 10.1021/acsomega.1c02163 **Early Access Date:** JUL 2021 **Published:** AUG 3 2021

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#### Record 709 of 1000

**Title:** Synthesis, Crystal Structure, Hirshfeld Surface Analysis, and Computational Study of a Novel Organic Salt Obtained from Benzylamine and an Acidic Component

**Author(s):** Ashfaq, M (Ashfaq, Muhammad); Munawar, KS (Munawar, Khurram Shahzad); Tahir, MN (Tahir, Muhammad Nawaz); Dege, N (Dege, Necmi); Yaman, M (Yaman, Mavise); Muhammad, S (Muhammad, Shabbir); Alarfaji, SS (Alarfaji, Saleh S.); Kargar, H (Kargar, Hadi); Arshad, MU (Arshad, Muhammad Umar)

**Source:** ACS OMEGA **Volume:** 6 **Issue:** 34 **Pages:** 22357-22366 **DOI:** 10.1021/acsomega.1c03078 **Early Access Date:** AUG 2021 **Published:** AUG 31 2021

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#### Record 710 of 1000

**Title:** Nutritional Profile and Potential Health Benefits of Super Foods: A Review

**Author(s):** Jagdale, YD (Jagdale, Yash D.); Mahale, SV (Mahale, Saurabh V.); Zohra, B (Zohra, Beenish); Nayik, GA (Nayik, Gulzar Ahmad); Dar, AH (Dar, Aamir Hussain); Khan, KA (Khan, Khalid Ali); Abdi, G (Abdi, Gholamreza); Karabagias, IK (Karabagias, Ioannis K.)

**Source:** SUSTAINABILITY **Volume:** 13 **Issue:** 16 **Article Number:** 9240 **DOI:** 10.3390/su13169240 **Published:** AUG 2021

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#### Record 711 of 1000

**Title:** Poly(styrene@N-isopropylmethacrylamide-co-methacrylic acid)@Ag hybrid particles with excellent catalytic potential

**Author(s):** Hussain, I (Hussain, Iftikhar); Farooqi, ZH (Farooqi, Zahoor H.); Ali, F (Ali, Faisal); Begum, R (Begum, Robina); Irfan, A (Irfan, Ahmad); Wu, WT (Wu, Weitai); Wang, XF (Wang, Xiaofei); Shahid, M (Shahid, Muhammad); Nisar, J (Nisar, Jan)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 335 **Article Number:** 116106 **DOI:** 10.1016/j.molliq.2021.116106 **Early Access Date:** APR 2021 **Published:** AUG 1 2021

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#### Record 712 of 1000

**Title:** Synthesis of arylidene-based benzoxazine derivatives as promising antimicrobial materials

**Author(s):** Musa, A (Musa, Abdulrahman); Alamry, KA (Alamry, Khalid A.); Hussein, MA (Hussein, Mahmoud A.); Elfaky, MA (Elfaky, Mahmoud A.); Alzahrani, AY (Alzahrani, Abdullah Y.); Al-Ghamdi, YO (Al-Ghamdi, Youssef O.); Hussien, MA (Hussien, Mostafa A.)

**Source:** JOURNAL OF HETEROCYCLIC CHEMISTRY **Volume:** 59 **Issue:** 4 **Pages:** 720-728 **DOI:** 10.1002/jhet.4411 **Early Access Date:** DEC 2021 **Published:** APR 2022

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#### Record 713 of 1000

**Title:** Magnetic Nitrogen-Doped Porous Carbon Nanocomposite for Pb(II) Adsorption from Aqueous Solution

**Author(s):** Alzahrani, FM (Alzahrani, Fatimah Mohammed); Alsaiari, NS (Alsaiari, Norah Salem); Katubi, KM (Katubi, Khadijah Mohammedsaleh); Amari, A (Amari, Abdelfattah); Elkhaleefa, AM (Elkhaleefa, Abubakr M.); Ben Rebah, F (Ben Rebah, Faouzi); Tahoona, MA (Tahoona, Mohamed A.)

**Source:** MOLECULES **Volume:** 26 **Issue:** 16 **Article Number:** 4809 **DOI:** 10.3390/molecules26164809 **Published:** AUG 2021

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#### Record 714 of 1000

**Title:** Crystal structure optimization, ultrasonic properties and morphology of Mg/Se co-dopant into annealed hydroxyapatite for biomedical applications

**Author(s):** Ahmed, MK (Ahmed, M. K.); Afifi, M (Afifi, M.); Mostafa, MS (Mostafa, Mervat S.); El-kott, AF (El-kott, Attalla Farag); Ibrahim, HA (Ibrahim, Hala A.); Awwad, NS (Awwad, Nasser S.)



**Source:** JOURNAL OF MATERIALS RESEARCH **Volume:** 36 **Issue:** 7 **Pages:** 1425-1436 **DOI:** 10.1557/s43578-021-00148-y **Early Access Date:** MAR 2021 **Published:** APR 14 2021

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#### **Record 715 of 1000**

**Title:** In Silico Evaluation of Prospective Anti-COVID-19 Drug Candidates as Potential SARS-CoV-2 Main Protease Inhibitors

**Author(s):** Ibrahim, MAA (Ibrahim, Mahmoud A. A.); Abdelrahman, AHM (Abdelrahman, Alaa H. M.); Allemailem, KS (Allemailem, Khaled S.); Almatroudi, A (Almatroudi, Ahmad); Moustafa, MF (Moustafa, Mahmoud F.); Hegazy, MEF (Hegazy, Mohamed-Elamir F.)

**Source:** PROTEIN JOURNAL **Volume:** 40 **Issue:** 3 **Special Issue:** SI **Pages:** 296-309 **DOI:** 10.1007/s10930-020-09945-6 **Early Access Date:** JAN 2021 **Published:** JUN 2021

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#### **Record 716 of 1000**

**Title:** *Aegle marmelos* Leaf Extract Phytochemical Analysis, Cytotoxicity, In Vitro Antioxidant and Antidiabetic Activities

**Author(s):** Ahmad, W (Ahmad, Wasim); Amir, M (Amir, Mohd); Ahmad, A (Ahmad, Adil); Ali, A (Ali, Abuzer); Ali, A (Ali, Amena); Wahab, S (Wahab, Shadma); Barkat, HA (Barkat, Harshita Abul); Ansari, MA (Ansari, Mohammad Azam); Sarafroz, M (Sarafroz, Mohammad); Ahmad, A (Ahmad, Ayaz); Barkat, MA (Barkat, Md. Abul); Alam, P (Alam, Prawez)

**Source:** PLANTS-BASEL **Volume:** 10 **Issue:** 12 **Article Number:** 2573 **DOI:** 10.3390/plants10122573 **Published:** DEC 2021

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#### **Record 717 of 1000**

**Title:** Fabrication and characterization of high-performance photodetectors based on Au/CdS/Au and Au/Ni:CdS/Au junctions

**Author(s):** Albargi, H (Albargi, Hasan); Khan, ZR (Khan, Z. R.); Marnadu, R (Marnadu, R.); Ammar, HY (Ammar, H. Y.); Algadi, H (Algadi, Hassan); Umar, A (Umar, Ahmad); Ashraf, IM (Ashraf, I. M.); Shkir, M (Shkir, Mohd)

**Source:** JOURNAL OF KING SAUD UNIVERSITY SCIENCE **Volume:** 33 **Issue:** 8 **Article Number:** 101638 **DOI:** 10.1016/j.jksus.2021.101638 **Early Access Date:** OCT 2021 **Published:** DEC 2021

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#### **Record 718 of 1000**

**Title:** Antioxidant potential in the leaves of grape varieties (*Vitis vinifera* L.) grown in different soil compositions

**Author(s):** Khan, Y (Khan, Yaseen); Khan, SM (Khan, Shujaul Mulk); ul Haq, I (ul Haq, Ihsan); Farzana, F (Farzana, Farzana); Abdullah, A (Abdullah, Abdullah); Abbasi, AM (Abbasi, Arshad Mehmood); Alamri, S (Alamri, Saad); Hashem, M (Hashem, Mohamed); Sakhi, S (Sakhi, Shazia); Asif, M (Asif, Muhammad); Shah, H (Shah, Hussain)

**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 14 **Issue:** 11 **Article Number:** 103412 **DOI:** 10.1016/j.arabjc.2021.103412 **Early Access Date:** SEP 2021 **Published:** NOV 2021

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#### **Record 719 of 1000**

**Title:** Magnetic Metal Organic Framework Immobilized Laccase for Wastewater Decolorization

**Author(s):** Amari, A (Amari, Abdelfattah); Alzahrani, FM (Alzahrani, Fatimah Mohammed); Alsaiari, NS (Alsaiari, Norah Salem); Katubi, KM (Katubi, Khadijah Mohammedsaleh); Ben Rebah, F (Rebah, Faouzi Ben); Tahoona, MA (Tahoona, Mohamed A.)

**Source:** PROCESSES **Volume:** 9 **Issue:** 5 **Article Number:** 774 **DOI:** 10.3390/pr9050774 **Published:** MAY 2021

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#### **Record 720 of 1000**

**Title:** Investigation on mesoporous bimetallic tungstate nanostructure for high-performance solid-state supercapattery

**Author(s):** Prabhu, S (Prabhu, S.); Balaji, C (Balaji, C.); Navaneethan, M (Navaneethan, M.); Selvaraj, M (Selvaraj, M.); Anandhan, N (Anandhan, N.); Sivaganesh, D (Sivaganesh, D.); Saravanakumar, S

(Saravanakumar, S.); Sivakumar, P (Sivakumar, Periyasamy); Ramesh, R (Ramesh, R.)

**Source:** JOURNAL OF ALLOYS AND COMPOUNDS **Volume:** 875 **Article Number:** 160066 **DOI:** 10.1016/j.jallcom.2021.160066 **Early Access Date:** APR 2021 **Published:** SEP 15 2021

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#### Record 721 of 1000

**Title:** Synthesis and characterization for pharmaceutical models from Co(II), Ni (II) and Cu(II)-thiophene complexes; apoptosis, various theoretical studies and pharmacophore modeling

**Author(s):** Abumelha, HM (Abumelha, Hana M.); Alkhatib, F (Alkhatib, Fatmah); Alzahrani, S (Alzahrani, Seraj); Abualnaja, M (Abualnaja, Matokah); Alsaigh, S (Alsaigh, Sohaib); Alfaifi, MY (Alfaifi, Mohammad Y.); Althagafi, I (Althagafi, Ismail); El-Metwaly, N (El-Metwaly, Nashwa)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 328 **Article Number:** 115483 **DOI:** 10.1016/j.molliq.2021.115483 **Early Access Date:** FEB 2021 **Published:** APR 15 2021

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#### Record 722 of 1000

**Title:** Synthesis, Characterization, and Biological Evaluation of Some Novel Pyrazolo[5,1-*b*]thiazole Derivatives as Potential Antimicrobial and Anticancer Agents

**Author(s):** Alsayari, A (Alsayari, Abdulrhman); Bin Muhsinah, A (Bin Muhsinah, Abdullatif); Asiri, YI (Asiri, Yahya, I); Al-aizari, FA (Al-aizari, Faiz A.); Kheder, NA (Kheder, Nabila A.); Almarhoon, ZM (Almarhoon, Zainab M.); Ghabbour, HA (Ghabbour, Hazem A.); Mabkhot, YN (Mabkhot, Yahia N.)

**Source:** MOLECULES **Volume:** 26 **Issue:** 17 **Article Number:** 5383 **DOI:** 10.3390/molecules26175383 **Published:** SEP 2021

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#### Record 723 of 1000

**Title:** Electrical, kinetic and photoelectrical properties of CuAlMnMg shape memory alloy/n-Si Schottky diode

**Author(s):** Canbay, CA (Canbay, C. Aksu); Tataroglu, A (Tataroglu, A.); Dere, A (Dere, A.); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Karabulut, A (Karabulut, Abdulkerim); Al-Ghamdi, AA (Al-Ghamdi, Ahmed A.); Yakuphanoglu, F (Yakuphanoglu, F.)

**Source:** JOURNAL OF ALLOYS AND COMPOUNDS **Volume:** 888 **Article Number:** 161600 **DOI:** 10.1016/j.jallcom.2021.161600 **Early Access Date:** AUG 2021 **Published:** DEC 25 2021

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#### Record 724 of 1000

**Title:** Biosynthesis of Zinc Oxide Nanoparticles Using Leaf Extract of *Prosopis juliflora* as Potential Photocatalyst for the Treatment of Paper Mill Effluent

**Author(s):** Abbas, AM (Abbas, Ahmed M.); Hammad, SA (Hammad, Sabah A.); Sallam, H (Sallam, Heba); Mahfouz, L (Mahfouz, Lamiaa); Ahmed, MK (Ahmed, Mohamed K.); Abboudy, SM (Abboudy, Sayed M.); Ahmed, AE (Ahmed, Ahmed Ezzat); Alhag, SK (Alhag, Sadeq K.); Taher, MA (Taher, Mostafa A.); Alrumman, SA (Alrumman, Sulaiman A.); Alshehri, MA (Alshehri, Mohammed A.); Soliman, WS (Soliman, Wagdi S.); Abbasi, T (Abbasi, Tabassum); Mostafa, M (Mostafa, Massaud)

**Source:** APPLIED SCIENCES-BASEL **Volume:** 11 **Issue:** 23 **Article Number:** 11394 **DOI:** 10.3390/app112311394 **Published:** DEC 2021

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#### Record 725 of 1000

**Title:** BIOACTIVITIES OF HOLMIUM(III) AND GADOLINIUM(III) COMPLEXES OF THYMOQUINONE

**Author(s):** Awwad, NS (Awwad, Nasser S.); Ibrahim, HA (Ibrahim, Hala A.); Shati, AA (Shati, Ali A.); Alshehri, MA (Alshehri, Mohammed A.); Al-Syaad, KM (Al-Syaad, Khalid M.); Alfaifi, MY (Alfaifi, Mohammad Y.); Mujallid, MI (Mujallid, Mohammad, I); Bani-Fwaz, MZ (Bani-Fwaz, Mutasem Z.); Abd-Rabboh, HSM (Abd-Rabboh, Hisham S. M.); Ju, YH (Ju, Yi-Hsu); Fazary, AE (Fazary, Ahmed E.)

**Source:** BULLETIN OF THE CHEMICAL SOCIETY OF ETHIOPIA **Volume:** 35 **Issue:** 1 **Pages:** 87-96 **DOI:** 10.4314/bcse.v35i1.7 **Published:** 2021

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#### Record 726 of 1000

**Title:** Synthesis, spectral characterization, DFT calculations, pharmacological studies, CT-DNA binding and molecular docking of potential N, O-multidentate chelating ligand and its VO(II), Zn(II) and ZrO(II) chelates

**Author(s):** Abdel-Rahman, LH (Abdel-Rahman, Laila H.); Al-Farhan, BS (Al-Farhan, Badriah Saad); Al Zamil, NO (Al Zamil, Noura O.); Noamaan, MA (Noamaan, Mahmoud A.); Ahmed, HES (Ahmed, Hanan El-Sayed); Adam, MSS (Adam, Mohamed Shaker S.)

**Source:** BIOORGANIC CHEMISTRY **Volume:** 114 **Article Number:** 105106 **DOI:** 10.1016/j.bioorg.2021.105106 **Early Access Date:** JUN 2021 **Published:** SEP 2021

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#### Record 727 of 1000

**Title:** Designing Ag<sup>2+</sup> modified g-C<sub>3</sub>N<sub>4</sub>/TiO<sub>2</sub> ternary nanocomposites for photocatalytic organic pollutants degradation performance under visible light: Synergistic mechanism insight

**Author(s):** Rajendran, R (Rajendran, Renji); Vignesh, S (Vignesh, Shanmugam); Sasireka, A (Sasireka, Asokan); Suganthi, S (Suganthi, Sanjeevamuthu); Raj, V (Raj, Vairamuthu); Baskaran, P (Baskaran, P.); Shkir, M (Shkir, Mohd); AlFaify, S (AlFaify, S.)

**Source:** COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS **Volume:** 629 **Article Number:** 127472 **DOI:** 10.1016/j.colsurfa.2021.127472 **Early Access Date:** SEP 2021 **Published:** NOV 20 2021

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#### Record 728 of 1000

**Title:** Wear performance and mechanical properties of MWCNT/HDPE nanocomposites for gearing applications

**Author(s):** Dabees, S (Dabees, Sameh); Tirth, V (Tirth, Vineet); Mohamed, A (Mohamed, Alaa); Kamel, BM (Kamel, Bahaa M.)

**Source:** JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T **Volume:** 12 **Pages:** 2476-2488 **DOI:** 10.1016/j.jmrt.2020.09.129 **Early Access Date:** MAY 2021 **Published:** MAY-JUN 2021

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#### Record 729 of 1000

**Title:** Synthesis, Characterization and Application of Polypyrrole Functionalized Nanocellulose for the Removal of Cr(VI) from Aqueous Solution

**Author(s):** Alsaiani, NS (Alsaiani, Norah Salem); Katubi, KM (Katubi, Khadijah Mohammedsaleh); Alzahrani, FM (Alzahrani, Fatimah Mohammed); Amari, A (Amari, Abdelfattah); Osman, H (Osman, Haitham); Ben Rebah, F (Ben Rebah, Faouzi); Tahoon, MA (Tahoon, Mohamed A.)

**Source:** POLYMERS **Volume:** 13 **Issue:** 21 **Article Number:** 3691 **DOI:** 10.3390/polym13213691 **Published:** NOV 2021

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#### Record 730 of 1000

**Title:** Effect of electric field on two-dimensional honeycomb structures from group (III-V)

**Author(s):** Kanwal, A (Kanwal, Arooba); Jalil, A (Jalil, Abdul); Ilyas, SZ (Ilyas, Syed Zafar); Ahmed, S (Ahmed, Sarfraz); Agathopoulos, S (Agathopoulos, S.); Znaidia, S (Znaidia, Sami)

**Source:** JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS **Volume:** 162 **Article Number:** 110507 **DOI:** 10.1016/j.jpics.2021.110507 **Early Access Date:** DEC 2021 **Published:** MAR 2022

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#### Record 731 of 1000

**Title:** Ameliorative effect of ethoxylated chalcone-based MAO-B inhibitor on behavioural predictors of haloperidol-induced Parkinsonism in mice: evidence of its antioxidative role against Parkinson's diseases

**Author(s):** Maliyakkal, N (Maliyakkal, Naseer); Saleem, U (Saleem, Uzma); Anwar, F (Anwar, Fareeha); Shah, MA (Shah, Muhammad Ajmal); Ahmad, B (Ahmad, Bashir); Umer, F (Umer, Filzah); Almoyad, MAA (Almoyad, Mohammad Ali Abdullah); Parambi, DT (Parambi, Della Grace Thomas); Beeran, AA (Beeran, Asmy Appadath); Nath, LR (Nath, Lekshmi R.); Aleya, L (Aleya, Lotfi); Mathew, B (Mathew, Bijo)

**Source:** ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH **Volume:** 29 **Issue:** 5 **Pages:** 7271-7282 **DOI:** 10.1007/s11356-021-15955-3 **Early Access Date:** SEP 2021 **Published:** JAN 2022

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#### Record 732 of 1000

**Title:** The Recent Progress on Silver Nanoparticles: Synthesis and Electronic Applications

**Author(s):** Bouafia, A (Bouafia, Abderrhmane); Laouini, SE (Laouini, Salah Eddine); Ahmed, ASA (Ahmed, Abdelaal S. A.); Soldatov, AV (Soldatov, Alexander V.); Algarni, H (Algarni, Hamed); Chong, KF (Feng Chong,

Kwok); Ali, GAM (Ali, Gomaa A. M.)

**Source:** NANOMATERIALS **Volume:** 11 **Issue:** 9 **Article Number:** 2318 **DOI:** 10.3390/nano11092318 **Published:** SEP 2021

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### **Record 733 of 1000**

**Title:** Polyethylenimine-Modified Magnetic Chitosan for the Uptake of Arsenic from Water

**Author(s):** Alsaiani, NS (Alsaiani, Norah Salem); Alzahrani, FM (Alzahrani, Fatimah Mohammed); Katubi, KM (Katubi, Khadijah Mohammedsaleh); Amari, A (Amari, Abdelfattah); Ben Rebah, F (Ben Rebah, Faouzi); Tahoon, MA (Tahoon, Mohamed A.)

**Source:** APPLIED SCIENCES-BASEL **Volume:** 11 **Issue:** 12 **Article Number:** 5630 **DOI:** 10.3390/app11125630 **Published:** JUN 2021

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### **Record 734 of 1000**

**Title:** Clay-Polymer Nanocomposites: Preparations and Utilization for Pollutants Removal

**Author(s):** Amari, A (Amari, Abdelfattah); Alzahrani, FM (Mohammed Alzahrani, Fatimah); Katubi, KM (Mohammedsaleh Katubi, Khadijah); Alsaiani, NS (Salem Alsaiani, Norah); Tahoon, MA (Tahoon, Mohamed A.); Ben Rebah, F (Ben Rebah, Faouzi)

**Source:** MATERIALS **Volume:** 14 **Issue:** 6 **Article Number:** 1365 **DOI:** 10.3390/ma14061365 **Published:** MAR 2021

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### **Record 735 of 1000**

**Title:** Comparative Study of the Mechanical and Water Absorption Behaviour of Basalt Fiber Reinforced Polymer Matrix Composites with Different Epoxies as Matrix for Biomedical Applications

**Author(s):** Rao, RR (Rao, R. Raghavendra); Pradeep, S (Pradeep, S.); Hasan, N (Hasan, Nasim); Shivashankara, BS (Shivashankara, B. S.); Elkotb, MA (Elkotb, Mohamed Abdelghany); Saleel, CA (Saleel, C. Ahamed); Afzal, A (Afzal, Asif); Saleh, B (Saleh, B.); Ravichandran, M (Ravichandran, M.)

**Source:** ADVANCES IN MATERIALS SCIENCE AND ENGINEERING **Volume:** 2021 **Article Number:** 3499645 **DOI:** 10.1155/2021/3499645 **Published:** DEC 22 2021

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### **Record 736 of 1000**

**Title:** Investigations of the physical behavior of novel polymorphs of indium phosphide from a first-principles perspective

**Author(s):** Ul Haq, B (Ul Haq, Bakhtiar); AlFaify, S (AlFaify, S.); Ahmed, R (Ahmed, R.); Kalam, A (Kalam, Abul); Khan, MH (Khan, Muhammad Haider); Taib, MFM (Taib, M. F. M.); Chaudhry, AR (Chaudhry, Aijaz Rasool); Goumri-Said, S (Goumri-Said, Souraya)

**Source:** EUROPEAN PHYSICAL JOURNAL PLUS **Volume:** 137 **Issue:** 1 **Article Number:** 26 **DOI:** 10.1140/epjp/s13360-021-02270-6 **Published:** DEC 15 2021

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### **Record 737 of 1000**

**Title:** A review of the recent progress on heterogeneous catalysts for Knoevenagel condensation (vol 50, pg 4445, 2021)

**Author(s):** Appaturi, JN (Appaturi, Jimmy Nelson); Ratti, R (Ratti, Rajni); Phoon, BL (Phoon, Bao Lee); Batagarawa, SM (Batagarawa, Samaila Muazu); Din, IU (Ud Din, Israfi); Selvaraj, M (Selvaraj, Manickam); Ramalingam, RJ (Jothi Ramalingam, Rajabathar)

**Source:** DALTON TRANSACTIONS **Volume:** 50 **Issue:** 15 **Pages:** 5370-5370 **DOI:** 10.1039/d1dt90055b **Early Access Date:** APR 2021 **Published:** APR 21 2021

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### **Record 738 of 1000**

**Title:** Development of all-inorganic lead halide perovskites for carbon dioxide photoreduction

**Author(s):** Trivedi, S (Trivedi, S.); Prochowicz, D (Prochowicz, D.); Kalam, A (Kalam, A.); Tavakoli, MM (Tavakoli, M. M.); Yadav, P (Yadav, P.)

**Source:** RENEWABLE & SUSTAINABLE ENERGY REVIEWS **Volume:** 145 **Article Number:** 111047 **DOI:** 10.1016/j.rser.2021.111047 **Early Access Date:** APR 2021 **Published:** JUL 2021

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### Record 739 of 1000

**Title:** Sublethal effects of bistrifluron on key biological traits, macronutrients contents and vitellogenin (<i>SeVg</i>) expression in<i> Spodoptera exigua</i> (Hubner)

**Author(s):** Hafeez, M (Hafeez, Muhammad); Li, XW (Li, Xiaowei); Yousaf, HK (Yousaf, Hafiz Kamran); Khan, MM (Khan, Muhammad Musa); Imran, M (Imran, Muhammad); Zhang, ZJ (Zhang, Zhijun); Huang, J (Huang, Jun); Zhang, JM (Zhang, Jinming); Shah, S (Shah, Sakhawat); Wang, LK (Wang, Likun); Fernández-Grandon, GM (Fernandez-Grandon, G. Mandela); Ali, S (Ali, Sajjad); Lu, YB (Lu, Yaobin)

**Source:** PESTICIDE BIOCHEMISTRY AND PHYSIOLOGY **Volume:** 174 **Article Number:** 104802 **DOI:** 10.1016/j.pestbp.2021.104802 **Early Access Date:** APR 2021 **Published:** MAY 2021

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### Record 740 of 1000

**Title:** Fabrication of rGO/SrSeO<sub>4</sub> nanocomposite as an electrode material with enhanced specific power for supercapacitor applications

**Author(s):** Gohar, RS (Gohar, Ruqiya Sehrish); Ahmad, Z (Ahmad, Zahoor); Zaki, ZI (Zaki, Zaki Ismail); Imran, M (Imran, Muhammad); Ashiq, MN (Ashiq, Muhammad Naeem); Shafqat, M (Shafqat, Madeeha); Najam-Ul-Haq, M (Najam-Ul-Haq, Muhammad); Khan, WQ (Khan, Waheed Qamar); Shah, A (Shah, Afzal); Nisar, J (Nisar, Jan)

**Source:** JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE **Volume:** 15 **Issue:** 1 **Pages:** 357-366 **DOI:** 10.1080/16583655.2021.1978831 **Published:** JAN 1 2021

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### Record 741 of 1000

**Title:** First-principles study of opto-electronic and thermoelectric properties of SrCdSnX<sub>4</sub> (X=S, Se, Te) alkali metal chalcogenides

**Author(s):** Irfan, M (Irfan, Muhammad); Azam, S (Azam, Sikander); Dahshan, A (Dahshan, Alaa); El Bakkali, I (El Bakkali, Issam); Nouneh, K (Nouneh, Khalid)

**Source:** COMPUTATIONAL CONDENSED MATTER **Volume:** 30 **Article Number:** e00625 **DOI:** 10.1016/j.cocom.2021.e00625 **Early Access Date:** DEC 2021 **Published:** MAR 2022

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### Record 742 of 1000

**Title:** 2-Amino-6-methylpyridine based co-crystal salt formation using succinic acid: Single-crystal analysis and computational exploration

**Author(s):** Ali, A (Ali, Akbar); Kuznetsov, A (Kuznetsov, Aleksey); Khan, MU (Khan, Muhammad Usman); Tahir, MN (Tahir, Muhammad Nawaz); Ashfaq, M (Ashfaq, Muhammad); Raza, AR (Raza, Abdul Rauf); Muhammad, S (Muhammad, Shabbir)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1230 **Article Number:** 129893 **DOI:** 10.1016/j.molstruc.2021.129893 **Early Access Date:** JAN 2021 **Published:** APR 15 2021

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### Record 743 of 1000

**Title:** Synthesis, characterization and DFT calculated properties of electron-rich hydrazinylthiazoles: Experimental and computational synergy

**Author(s):** Mehmood, H (Mehmood, Hasnain); Khalid, M (Khalid, Muhammad); Haroon, M (Haroon, Muhammad); Akhtar, T (Akhtar, Tashfeen); Ashfaq, M (Ashfaq, Muhammad); Tahir, MN (Tahir, Muhammad Nawaz); Khan, MU (Khan, Muhammad Usman); Imran, M (Imran, Muhammad); Braga, AAC (Braga, Ataulpa Albert Carmo); Woodward, S (Woodward, Simon)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1245 **Article Number:** 131043 **DOI:** 10.1016/j.molstruc.2021.131043 **Early Access Date:** JUL 2021 **Published:** DEC 5 2021

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### Record 744 of 1000

**Title:** Optimizing Reduced Graphene Oxide Aerogel for a Supercapacitor

**Author(s):** Lee, SP (Lee, Soon Poh); Ali, GAM (Ali, Gomaa A. M.); Hegazy, HH (Hegazy, H. H.); Lim, HN (Lim, Hong Ngee); Chong, KF (Chong, Kwok Feng)

**Source:** ENERGY & FUELS **Volume:** 35 **Issue:** 5 **Pages:** 4559-4569 **DOI:** 10.1021/acs.energyfuels.0c04126 **Early Access Date:** FEB 2021 **Published:** MAR 4 2021

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### Record 745 of 1000

**Title:** Combinatorial synthesis of tin antimony sulfide thin films for solar cell application

**Author(s):** Ali, N (Ali, Nisar); Jabeen, M (Jabeen, Musarrat); Khesro, A (Khesro, Amir); Ahmed, R (Ahmed, R.); Alrobei, H (Alrobei, H.); Kalam, A (Kalam, Abul); Al-Sehemi, AG (Al-Sehemi, Abdullah G.)

**Source:** INTERNATIONAL JOURNAL OF ENERGY RESEARCH **Volume:** 45 **Issue:** 15 **Pages:** 21527-21533 **DOI:** 10.1002/er.7180 **Early Access Date:** AUG 2021 **Published:** DEC 2021

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### Record 746 of 1000

**Title:** Counteraction of Biofilm Formation and Antimicrobial Potential of *Terminalia catappa* Functionalized Silver Nanoparticles against *Candida albicans* and Multidrug-Resistant Gram-Negative and Gram-Positive Bacteria

**Author(s):** Ansari, MA (Ansari, Mohammad Azam); Kalam, A (Kalam, Abul); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Alomary, MN (Alomary, Mohammad N.); AlYahya, S (AlYahya, Sami); Aziz, MK (Aziz, Mohammad Kashif); Srivastava, S (Srivastava, Shekhar); Alghamdi, S (Alghamdi, Saad); Akhtar, S (Akhtar, Sultan); Almalki, HD (Almalki, Hussain D.); Adil, SF (Adil, Syed F.); Khan, M (Khan, Mujeeb); Hatshan, MR (Hatshan, Mohammad R.)

**Source:** ANTIBIOTICS-BASEL **Volume:** 10 **Issue:** 6 **Article Number:** 725 **DOI:** 10.3390/antibiotics10060725 **Published:** JUN 2021

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### Record 747 of 1000

**Title:** Mechanical performance, water and chloride permeability of hybrid steel-polypropylene fiber-reinforced recycled aggregate concrete

**Author(s):** El Ouni, MH (Ouni, Mohamed Hechmi El); Shah, SHA (Shah, Syed Haroon Ali); Ali, A (Ali, Asif); Muhammad, S (Muhammad, Shoaib); Mahmood, MS (Mahmood, Muhammad Sarmad); Ali, B (Ali, Babar); Marzouki, R (Marzouki, Riadh); Raza, A (Raza, Ali)

**Source:** CASE STUDIES IN CONSTRUCTION MATERIALS **Volume:** 16 **Article Number:** e00831 **DOI:** 10.1016/j.cscm.2021.e00831 **Early Access Date:** DEC 2021 **Published:** JUN 2022

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### Record 748 of 1000

**Title:** Exploring the impact of HgI<sub>2</sub> doping on optical, structural and morphological properties of pure CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub> perovskite

**Author(s):** Kumar, A (Kumar, Ashwani); Shkir, M (Shkir, Mohd); Singh, KL (Singh, K. L.); Tripathi, SK (Tripathi, S. K.)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 132 **Article Number:** 108851 **DOI:** 10.1016/j.inoche.2021.108851 **Early Access Date:** AUG 2021 **Published:** OCT 2021

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### Record 749 of 1000

**Title:** *Artemisia judaica* L. diminishes diabetes-induced reproductive dysfunction in male rats via activation of Nrf2/HO-1-mediated antioxidant responses

**Author(s):** Saeedan, AS (Saeedan, Abdulaziz S.); Soliman, GA (Soliman, Gamal A.); Abdel-Rahman, RF (Abdel-Rahman, Rehab F.); Abd-Elsalam, RM (Abd-Elsalam, Reham M.); Ogaly, HA (Ogaly, Hanan A.); Foudah, AI (Foudah, Ahmed I.); Abdel-Kader, MS (Abdel-Kader, Maged S.)

**Source:** SAUDI JOURNAL OF BIOLOGICAL SCIENCES **Volume:** 28 **Issue:** 3 **Pages:** 1713-1722 **DOI:** 10.1016/j.sjbs.2020.12.013 **Early Access Date:** MAR 2021 **Published:** MAR 2021

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### Record 750 of 1000

**Title:** Study of structural, optoelectronic and magnetic properties of Half-Heusler compounds QEuPa (Q= Ba, be, Mg, Sr) using first-principles method

**Author(s):** Abubakr, M (Abubakr, Muhammad); Fatima, K (Fatima, Kisa); Abbas, Z (Abbas, Zeesham); Gorczyca, I (Gorczyca, Izabela); Irfan, M (Irfan, Muhammad); Muhammad, S (Muhammad, Shabbir); Khan, MA (Khan, Muhammad Asad); Alarfaji, SS (Alarfaji, Saleh S.)

**Source:** JOURNAL OF SOLID STATE CHEMISTRY **Volume:** 304 **Article Number:** 122612 **DOI:** 10.1016/j.jssc.2021.122612 **Early Access Date:** OCT 2021 **Published:** DEC 2021

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### Record 751 of 1000

**Title:** Synthesis and characterization for new Mn(II) complexes; conductometry, DFT, antioxidant activity <i>via</i> enhancing superoxide dismutase enzymes that confirmed by in-silico and in-vitro ways

**Author(s):** Alzahrani, R (Alzahrani, Reem); Althagafi, I (Althagafi, Ismail); Alsoliemy, A (Alsoliemy, Amerah); Abou-Melha, KS (Abou-Melha, Khlood S.); Alrefaei, AF (Alrefaei, Abdulmajeed F.); Mersal, GAM (Mersal, Gaber A. M.); El-Metwaly, N (El-Metwaly, Nashwa)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1243 **Article Number:** 130855 **DOI:** 10.1016/j.molstruc.2021.130855 **Early Access Date:** JUN 2021 **Published:** NOV 5 2021

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### Record 752 of 1000

**Title:** Innovative Magnetite Based Polymeric Nanocomposite for Simultaneous Removal of Methyl Orange and Hexavalent Chromium from Water

**Author(s):** Alsaiari, NS (Alsaiari, Norah Salem); Amari, A (Amari, Abdelfattah); Katubi, KM (Katubi, Khadijah Mohammedsaleh); Alzahrani, FM (Alzahrani, Fatimah Mohammed); Ben Rebah, F (Ben Rebah, Faouzi); Tahoon, MA (Tahoon, Mohamed A.)

**Source:** PROCESSES **Volume:** 9 **Issue:** 4 **Article Number:** 576 **DOI:** 10.3390/pr9040576 **Published:** APR 2021

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### Record 753 of 1000

**Title:** Metabolomic Profiling and Neuroprotective Effects of Purslane Seeds Extract Against Acrylamide Toxicity in Rat's Brain

**Author(s):** Farag, OM (Farag, Ola M.); Abd-Elsalam, RM (Abd-Elsalam, Reham M.); Ogaly, HA (Ogaly, Hanan A.); Ali, SE (Ali, Sara E.); El Badawy, SA (El Badawy, Shymaa A.); Alsherbiny, MA (Alsherbiny, Muhammed A.); Li, CG (Li, Chun Guang); Ahmed, KA (Ahmed, Kawkab A.)

**Source:** NEUROCHEMICAL RESEARCH **Volume:** 46 **Issue:** 4 **Pages:** 819-842 **DOI:** 10.1007/s11064-020-03209-6 **Early Access Date:** JAN 2021 **Published:** APR 2021

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### Record 754 of 1000

**Title:** Antiproliferative Isoprenoid Derivatives from the Red Sea Alcyonacean <i>Xenia umbellata</i>

**Author(s):** Althagbi, HI (Althagbi, Hanan I.); Budiyanto, F (Budiyanto, Fitri); Abdel-Lateff, A (Abdel-Lateff, Ahmed); Al-Footy, KO (Al-Footy, Khalid O.); Bawakid, NO (Bawakid, Nahed O.); Ghandourah, MA (Ghandourah, Mohamed A.); Alfaifi, MY (Alfaifi, Mohammad Y.); Elbehairi, SEI (Elbehairi, Serag Eldin I.); Alarif, WM (Alarif, Walied M.)

**Source:** MOLECULES **Volume:** 26 **Issue:** 5 **Article Number:** 1311 **DOI:** 10.3390/molecules26051311 **Published:** MAR 2021

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### Record 755 of 1000

**Title:** Forging of nicotine for the effective management of diabetic wounds: A hybrid of scaffold hopping and molecular dynamics simulation approaches

**Author(s):** Sanapalli, BKR (Sanapalli, Bharat Kumar Reddy); Yele, V (Yele, Vidyasrilekha); Sigalapalli, DK (Sigalapalli, Dilep Kumar); Gadewal, N (Gadewal, Nikhil); Shaik, AB (Shaik, Afzal B.); Bhandare, RR (Bhandare, Richie R.); Annadurai, S (Annadurai, Sivakumar); Karri, VVSR (Karri, Veera Venkata Satyanarayana Reddy)

**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 15 **Issue:** 2 **Article Number:** 103585 **DOI:** 10.1016/j.arabjc.2021.103585 **Early Access Date:** DEC 2021 **Published:** FEB 2022

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### Record 756 of 1000

**Title:** Novel thiazolium ionic liquids-tagged bicyclo-palladium(II) Schiff base complexes; Synthesis, characterization and <i>in</i><i>vitro</i> cytotoxicity toward ovarian cancer

**Author(s):** Alfaifi, MY (Alfaifi, Mohammad Y.); Elbehairi, SEI (Elbehairi, Serag Eldin, I); Elshaarawy, RFM (Elshaarawy, Reda F. M.); Zein, MAE (Zein, Mohamed A-E)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1249 **Article Number:** 131594 **DOI:** 10.1016/j.molstruc.2021.131594 **Early Access Date:** OCT 2021 **Published:** FEB 5 2022

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### Record 757 of 1000

**Title:** Metal Halide Perovskites for Energy Storage Applications

**Author(s):** Narayanan, S (Narayanan, Saranya); Parikh, N (Parikh, Nishi); Tavakoli, MM (Tavakoli, Mohammad Mahdi); Pandey, M (Pandey, Manoj); Kumar, M (Kumar, Manoj); Kalam, A (Kalam, Abul); Trivedi, S (Trivedi, Suverna); Prochowicz, D (Prochowicz, Daniel); Yadav, P (Yadav, Pankaj)

**Source:** EUROPEAN JOURNAL OF INORGANIC CHEMISTRY **Volume:** 2021 **Issue:** 13 **Pages:** 1201-1212 **DOI:** 10.1002/ejic.202100015 **Early Access Date:** FEB 2021 **Published:** APR 8 2021

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### Record 758 of 1000

**Title:** Investigating the Bulk Level Optoelectronic Characteristics of 10-(1,3-Dithiol-2-Ylidene)Anthracene Based Light Harvesters

**Author(s):** Irfan, A (Irfan, Ahmad); Imran, M (Imran, Muhammad); Thomas, R (Thomas, Renjith); Mumtaz, MW (Mumtaz, Muhammad Waseem); Shah, AT (Shah, Asma Tufail); Qayyum, MA (Qayyum, Muhammad Abdul); Hussien, M (Hussien, Mohamed); Ullah, S (Ullah, Sami); Assiri, MA (Assiri, Mohammed A.); Al-Sehemi, AG (Al-Sehemi, Abdullah G.)

**Source:** POLYCYCLIC AROMATIC COMPOUNDS **Volume:** 42 **Issue:** 9 **Pages:** 6686-6695 **DOI:** 10.1080/10406638.2021.1988995 **Early Access Date:** OCT 2021 **Published:** OCT 21 2022

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### Record 759 of 1000

**Title:** Sustainable functionalized metal-organic framework NH<sub>2</sub>-MIL-101(Al) for CO<sub>2</sub> separation under cryogenic conditions

**Author(s):** Babar, M (Babar, Muhammad); Mubashir, M (Mubashir, Muhammad); Mukhtar, A (Mukhtar, Ahmad); Saqib, S (Saqib, Sidra); Ullah, S (Ullah, Sami); Bustam, MA (Bustam, Mohamad Azmi); Show, PL (Show, Pau Loke)

**Source:** ENVIRONMENTAL POLLUTION **Volume:** 279 **Article Number:** 116924 **DOI:** 10.1016/j.envpol.2021.116924 **Early Access Date:** MAR 2021 **Published:** JUN 15 2021

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### Record 760 of 1000

**Title:** Effect of thickness on structural and optical characteristics of Indium Phthalocyanine Chloride thin films for photodiode devices

**Author(s):** Alfadhli, S (Alfadhli, S.); Ali, HAM (Ali, H. A. M.); El-Zaidia, EFM (El-Zaidia, E. F. M.); Alatawi, RAS (Alatawi, Raedah A. S.); Darwish, AAA (Darwish, A. A. A.); Yahia, IS (Yahia, I. S.)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 32 **Issue:** 2 **Pages:** 1907-1917 **DOI:** 10.1007/s10854-020-04959-3 **Early Access Date:** JAN 2021 **Published:** JAN 2021

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### Record 761 of 1000

**Title:** Decorated silver nanoparticles on biodegradable magnetic chitosan/starch composite: Investigation of its cytotoxicity, antioxidant and anti-human breast cancer properties

**Author(s):** He, CY (He, Chenyang); Guo, Y (Guo, Yu); Karmakar, B (Karmakar, Bikash); El -kott, A (El -kott, Attalla); Ahmed, AE (Ahmed, Ahmed Ezzat); Khames, A (Khames, Ahmed)

**Source:** JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING **Volume:** 9 **Issue:** 6 **Article Number:** 106393 **DOI:** 10.1016/j.jece.2021.106393 **Early Access Date:** SEP 2021 **Published:** DEC 2021

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### Record 762 of 1000

**Title:** Recent developments in fluorescent and colorimetric chemosensors based on schiff bases for metallic cations detection: A review

**Author(s):** Khan, S (Khan, Sikandar); Chen, XJ (Chen, Xiaojing); Almahri, A (Almahri, Albandary); Allehyani, ES (Allehyani, Esam S.); Alhumaydhi, FA (Alhumaydhi, Fahad A.); Ibrahim, MM (Ibrahim, Munjed M.); Ali, S (Ali, Shujat)

**Source:** JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING **Volume:** 9 **Issue:** 6 **Article Number:** 106381 **DOI:** 10.1016/j.jece.2021.106381 **Early Access Date:** SEP 2021 **Published:** DEC 2021

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### Record 763 of 1000



**Title:** The Biocatalytic Degradation of Organic Dyes Using Laccase Immobilized Magnetic Nanoparticles

**Author(s):** Alsaiani, NS (Alsaiani, Norah Salem); Amari, A (Amari, Abdelfattah); Katubi, KM (Katubi, Khadijah Mohammedsaleh); Alzahrani, FM (Alzahrani, Fatimah Mohammed); Harharah, HN (Harharah, Hamed N.); Ben Rebah, F (Ben Rebah, Faouzi); Tahoon, MA (Tahoon, Mohamed A.)

**Source:** APPLIED SCIENCES-BASEL **Volume:** 11 **Issue:** 17 **Article Number:** 8216 **DOI:** 10.3390/app11178216 **Published:** SEP 2021

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#### **Record 764 of 1000**

**Title:** A novel, eco-friendly multi-walled carbon nanotubes functionalized copper metal-organic framework for ultrasensitive potentiometric detection of cadmium ions

**Author(s):** Singh, S (Singh, Sima); Numan, A (Numan, Arshid); Somaily, HH (Somaily, H. H.); Dawsari, MMA (Dawsari, Mona M. A.); Alqarni, MHS (Alqarni, Mohammed Hamed Saeed); Alam, A (Alam, Aftab); Kumar, P (Kumar, Piyush)

**Source:** JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING **Volume:** 9 **Issue:** 6 **Article Number:** 106534 **DOI:** 10.1016/j.jece.2021.106534 **Early Access Date:** NOV 2021 **Published:** DEC 2021

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#### **Record 765 of 1000**

**Title:** Multivariate statistics and entropy theory for irrigation water quality and entropy-weighted index development in a subtropical urban river, Bangladesh

**Author(s):** Siddique, MA (Siddique, Md Abu Bakar); Islam, AMT (Islam, Abu Reza Md Towfiqul); Hossain, MS (Hossain, Md Saddam); Khan, R (Khan, Rahat); Akbor, MA (Akbor, Md Ahedul); Hasanuzzaman, M (Hasanuzzaman, Md); Sajid, MWM (Sajid, Md Wasiq Mamun); Mia, MY (Mia, Md Younus); Mallick, J (Mallick, Javed); Rahman, MS (Rahman, M. Safiur); Rahman, MM (Rahman, Md Mostafizur); Bodrud-Doza, M (Bodrud-Doza, Md)

**Source:** ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH **Volume:** 29 **Issue:** 6 **Pages:** 8577-8596 **DOI:** 10.1007/s11356-021-16343-7 **Early Access Date:** SEP 2021 **Published:** FEB 2022

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#### **Record 766 of 1000**

**Title:** *Aloe vera* as Promising Material for Water Treatment: A Review

**Author(s):** Katubi, KM (Katubi, Khadijah Mohammedsaleh); Amari, A (Amari, Abdelfattah); Harharah, HN (Harharah, Hamed N.); Eldirderi, MM (Eldirderi, Moutaz M.); Tahoon, MA (Tahoon, Mohamed A.); Ben Rebah, F (Ben Rebah, Faouzi)

**Source:** PROCESSES **Volume:** 9 **Issue:** 5 **Article Number:** 782 **DOI:** 10.3390/pr9050782 **Published:** MAY 2021

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#### **Record 767 of 1000**

**Title:** Suspended graphene arrays for gas sensing applications

**Author(s):** Gupta, RK (Gupta, Rakesh K.); Alqahtani, FH (Alqahtani, Faisal H.); Dawood, OM (Dawood, Omar M.); Carini, M (Carini, Marco); Criado, A (Criado, Alejandro); Prato, M (Prato, Maurizio); Garlapati, SK (Garlapati, Suresh K.); Jones, G (Jones, Gareth); Sexton, J (Sexton, James); Persaud, KC (Persaud, Krishna C.); Dang, C (Dang, Caroline); Monteverde, U (Monteverde, Umberto); Missous, M (Missous, Mohamed); Young, RJ (Young, Robert J.); Boulton, S (Boulton, Stephen); Dixon, N (Dixon, Neil); Majewski, L (Majewski, Leszek); Migliorato, MA (Migliorato, Max A.)

**Source:** 2D MATERIALS **Volume:** 8 **Issue:** 2 **Article Number:** 025006 **DOI:** 10.1088/2053-1583/abcf11 **Published:** APR 2021

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#### **Record 768 of 1000**

**Title:** Machine learning-based modeling of thermoelectric materials and air-cooling system developed for a humid environment

**Author(s):** Irfan, SA (Irfan, Sayed Ameenuddin); Irshad, K (Irshad, Kashif); Alqahtani, A (Alqahtani, Ali); Azeem, B (Azeem, Babar); Tirth, V (Tirth, Vineet); Algarni, S (Algarni, Salem); Islam, S (Islam, Saiful); Abdelmohimen, MAH (Abdelmohimen, Mostafa A. H.)

**Source:** MATERIALS EXPRESS **Volume:** 11 **Issue:** 2 **Pages:** 153-165 **DOI:** 10.1166/mex.2021.1909 **Published:** FEB 2021

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### Record 769 of 1000

**Title:** Magnesium doped TiO<sub>2</sub> as an efficient electron transport layer in perovskite solar cells

**Author(s):** Arshad, Z (Arshad, Zafar); Khoja, AH (Khoja, Asif Hussain); Shakir, S (Shakir, Sehar); Afzal, A (Afzal, Asif); Mujtaba, MA (Mujtaba, M. A.); Soudagar, MEM (Soudagar, Manzoore Elahi M.); Fayaz, H (Fayaz, H.); Saleel, CA (Saleel, C. Ahamed); Farukh, S (Farukh, Sarah); Saeed, M (Saeed, Mudassar)

**Source:** CASE STUDIES IN THERMAL ENGINEERING **Volume:** 26 **Article Number:** 101101 **DOI:** 10.1016/j.csite.2021.101101 **Early Access Date:** MAY 2021 **Published:** AUG 2021

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### Record 770 of 1000

**Title:** Synthesis and investigation of anti-COVID19 ability of ferrocene Schiff-base derivatives by quantum chemical and molecular docking

**Author(s):** Abbas, G (Abbas, Ghulam); Irfan, A (Irfan, Ahmad); Ahmed, I (Ahmed, Ishtiaq); Al-Zeidaneen, FK (Al-Zeidaneen, Firas Khalil); Muthu, S (Muthu, S.); Fuhr, O (Fuhr, Olaf); Thomas, R (Thomas, Renjith)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1253 **Article Number:** 132242 **DOI:** 10.1016/j.molstruc.2021.132242 **Early Access Date:** DEC 2021 **Published:** APR 5 2022

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### Record 771 of 1000

**Title:** Flow and heat transfer analysis of elastoviscoplastic generalized non-Newtonian fluid with hybrid nano structures and dust particles

**Author(s):** Cheng, L (Cheng, Liang); Nawaz, M (Nawaz, M.); Kaneez, H (Kaneez, Hajra); Alaoui, MK (Alaoui, M. Kbir); Selmi, A (Selmi, Abdellatif); Li, CX (Li, Chuanxi); Assilzadeh, H (Assilzadeh, Hamid)

**Source:** INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER **Volume:** 126 **Article Number:** 105275 **DOI:** 10.1016/j.icheatmasstransfer.2021.105275 **Early Access Date:** JUN 2021 **Published:** JUL 2021

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### Record 772 of 1000

**Title:** A correlational study: Establishing the link between quantum parameters and particle dynamics around Schwarzschild black hole

**Author(s):** Saeed, M (Saeed, Muhammad); Khan, IA (Khan, Israr Ali); Khan, AS (Khan, Amir Sultan); Jan, SQ (Jan, Shah Qasim); Islam, S (Islam, Saeed); Alarfaji, SS (Alarfaji, Saleh S.); Chaudhry, AR (Chaudhry, Aijaz Rasool)

**Source:** RESULTS IN PHYSICS **Volume:** 26 **Article Number:** 104346 **DOI:** 10.1016/j.rinp.2021.104346 **Early Access Date:** JUN 2021 **Published:** JUL 2021

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### Record 773 of 1000

**Title:** Partially Reduced Graphene Oxide Modified with Polyacrylonitrile for the Removal of Sm<sup>3+</sup> from Water

**Author(s):** Katubi, KM (Katubi, Khadijah Mohammedsah); Alzahrani, FM (Alzahrani, Fatimah Mohammed); Alsaiani, NS (Alsaiani, Norah Salem); Amari, A (Amari, Abdelfattah); Ben Rebah, F (Ben Rebah, Faouzi); Tahoon, MA (Tahoon, Mohamed A.)

**Source:** PROCESSES **Volume:** 9 **Issue:** 5 **Article Number:** 818 **DOI:** 10.3390/pr9050818 **Published:** MAY 2021

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### Record 774 of 1000

**Title:** Investigation of three synthesized propane bis-oxindoline derivatives as inhibitors for the corrosion of mild steel in sulfuric acid solutions

**Author(s):** Fawzy, A (Fawzy, Ahmed); Farghaly, TA (Farghaly, Thoraya A.); Al Bahir, AA (Al Bahir, Areej A.); Hameed, AM (Hameed, Ahmed M.); Alharbi, A (Alharbi, Ahmed); El-Ossaily, YA (El-Ossaily, Yasser A.)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1223 **Article Number:** 129318 **DOI:** 10.1016/j.molstruc.2020.129318 **Published:** JAN 5 2021

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### Record 775 of 1000

**Title:** Dielectric and electrical properties of La@NiO SNPs for high-performance optoelectronic applications

**Author(s):** Shkir, M (Shkir, Mohd); Khan, A (Khan, Aslam); Chandekar, KV (Chandekar, Kamlesh, V); Sayed, MA (Sayed, M. A.); El-Toni, AM (El-Toni, Ahmed Mohamed); Ansari, AA (Ansari, Anees A.); Adil, SF (Adil, Syed F.); Ghaithan, H (Ghaithan, Hamid); Algarni, H (Algarni, H.); AlFaify, S (AlFaify, S.)

**Source:** CERAMICS INTERNATIONAL **Volume:** 47 **Issue:** 11 **Pages:** 15611-15621 **DOI:** 10.1016/j.ceramint.2021.02.131 **Early Access Date:** APR 2021 **Published:** JUN 1 2021

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#### **Record 776 of 1000**

**Title:** Comprehensive DFT investigation of Cd-based spinel chalcogenides for spintronic and solar cells devices

**Author(s):** Sohaib, MU (Sohaib, M. U.); Abid, K (Abid, Kamran); Noor, NA (Noor, N. A.); Khan, MA (Khan, M. Aslam); Neffati, R (Neffati, R.); Abdel-Hafez, SH (Abdel-Hafez, Shams H.); Hussein, EE (Hussein, Enas E.)

**Source:** JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T **Volume:** 15 **Pages:** 4683-4693 **DOI:** 10.1016/j.jmrt.2021.10.057 **Early Access Date:** NOV 2021 **Published:** NOV-DEC 2021

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#### **Record 777 of 1000**

**Title:** Facile Synthesis of Diversely Functionalized Peptoids, Spectroscopic Characterization, and DFT-Based Nonlinear Optical Exploration

**Author(s):** Concepcion, O (Concepcion, Odette); Ali, A (Ali, Akbar); Khalid, M (Khalid, Muhammad); de la Torre, AF (de la Torre, Alexander F.); Khan, MU (Khan, Muhammad Usman); Raza, AR (Raza, Abdul Rauf); Kamal, GM (Kamal, Ghulam Mustafa); Rehman, MFU (Rehman, Muhammad Fayyaz Ur); Alam, MM (Alam, Mohammed Mujahid); Imran, M (Imran, Muhammad); Braga, AAC (Carmo Braga, Atualpa Albert);ertino, MW (ertino, Mariano W.)

**Source:** ACS OMEGA **Volume:** 6 **Issue:** 40 **Pages:** 26016-26025 **DOI:** 10.1021/acsomega.1c02962 **Early Access Date:** SEP 2021 **Published:** OCT 12 2021

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#### **Record 778 of 1000**

**Title:** Theoretical Investigation of the Adsorption of Cadmium Iodide from Water Using Polyaniline Polymer Filled with TiO<sub>2</sub> and ZnO Nanoparticles

**Author(s):** Mahdhi, N (Mahdhi, Nouredine); Alsaiari, NS (Alsaiari, Norah Salem); Alzahrani, FM (Alzahrani, Fatimah Mohammed); Katubi, KM (Katubi, Khadijah Mohammedsaleh); Amari, A (Amari, Abdelfattah); Hammami, S (Hammami, Saber)

**Source:** WATER **Volume:** 13 **Issue:** 18 **Article Number:** 2591 **DOI:** 10.3390/w13182591 **Published:** SEP 2021

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#### **Record 779 of 1000**

**Title:** Puerarin dry powder inhaler formulations for pulmonary delivery: Development and characterization

**Author(s):** Rashid, MA (Rashid, Md Abdur); Muneer, S (Muneer, Saiqa); Wang, T (Wang, Tony); Alhamhoom, Y (Alhamhoom, Yahya); Rintoul, L (Rintoul, Llew); Izake, EL (Izake, Emad L.); Islam, N (Islam, Nazrul)

**Source:** PLOS ONE **Volume:** 16 **Issue:** 4 **Article Number:** e0249683 **DOI:** 10.1371/journal.pone.0249683 **Published:** APR 13 2021

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#### **Record 780 of 1000**

**Title:** Exploring the new potential antiviral constituents of Moringa oliefera for SARS-COV-2 pathogenesis: An *in silico* molecular docking and dynamic studies

**Author(s):** Muhammad, S (Muhammad, Shabbir); Hassan, SH (Hassan, Sayyeda Hira); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Shakir, HA (Shakir, Hafiz Abdullah); Khan, M (Khan, Muhammad); Irfan, M (Irfan, Muhammad); Iqbal, J (Iqbal, Javed)

**Source:** CHEMICAL PHYSICS LETTERS **Volume:** 767 **Article Number:** 138379 **DOI:** 10.1016/j.cplett.2021.138379 **Early Access Date:** FEB 2021 **Published:** MAR 16 2021

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#### **Record 781 of 1000**

**Title:** Binary Co@ZF/S@GCN S-scheme heterojunction enriching spatial charge carrier separation for efficient removal of organic pollutants under sunlight irradiation

**Author(s):** Iqbal, S (Iqbal, Shahid); Javed, M (Javed, Mohsin); Hassan, SS (Hassan, Syeda Saba); Nadeem, S (Nadeem, Sohail); Akbar, A (Akbar, Ali); Alotaibi, MT (Alotaibi, Mohammed T.); Alzhrani, RM (Alzhrani, Rami

M.); Awwad, NS (Awwad, Nasser S.); Ibrahim, HA (Ibrahim, Hala A.); Mohyuddin, A (Mohyuddin, Ayesha)  
**Source:** COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS **Volume:**  
636 **Article Number:** 128177 **DOI:** 10.1016/j.colsurfa.2021.128177 **Early Access Date:** DEC 2021  
**Published:** MAR 5 2022

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#### **Record 782 of 1000**

**Title:** Kinetic and Isothermal Studies on the Adsorptive Removal of Direct Yellow 12 Dye from Wastewater Using Propionic Acid Treated Bagasse

**Author(s):** Nadeem, S (Nadeem, Sohail); Iqbal, S (Iqbal, Shahid); Javed, M (Javed, Mohsin); Ahmad, MN (Ahmad, Mirza Nadeem); Alsaab, HO (Alsaab, Hashem O.); Awwad, NS (Awwad, Nasser S.); Ibrahim, HA (Ibrahim, Hala A.); Ibrar, A (Ibrar, Aliya); Mohyuddin, A (Mohyuddin, Ayesha); Haroon, SM (Haroon, Shah Muhammad); Ali, L (Ali, Liaquat)

**Source:** CHEMISTRYSELECT **Volume:** 6 **Issue:** 43 **Pages:** 12146-12152 **DOI:**  
10.1002/slct.202103509 **Published:** NOV 22 2021

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#### **Record 783 of 1000**

**Title:** Binder-less and free-standing Co-Fe metal nanoparticles-decorated PVdF-HFP nanofiber membrane as an electrochemical probe for enzyme-less glucose sensors

**Author(s):** Saravanan, J (Saravanan, J.); Vignesh, A (Vignesh, A.); Shah, SS (Shah, Syed Shaheen); Aziz, MA (Aziz, Md. Abdul); Pannipara, M (Pannipara, Mehboobali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Phang, SM (Phang, Siew-Moi); Ng, FL (Ng, Fong-Lee); Abdul, BAA (Abdul, Bakrudeen Ali Ahmed); Kumar, GG (Kumar, G. Gnana)

**Source:** RESEARCH ON CHEMICAL INTERMEDIATES **Volume:** 48 **Issue:** 1 **Pages:** 101-116 **DOI:**  
10.1007/s11164-021-04553-0 **Early Access Date:** AUG 2021 **Published:** JAN 2022

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#### **Record 784 of 1000**

**Title:** Current Progress in Quinazoline Derivatives as Acetylcholinesterase and Monoamine Oxidase Inhibitors

**Author(s):** Rehuman, NA (Rehuman, Nisha Abdul); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Parambi, DT (Parambi, Della Grace Thomas); Rangarajan, TM (Rangarajan, T. M.); Nicolotti, O (Nicolotti, Orazio); Kim, H (Kim, Hoon); Mathew, B (Mathew, Bijo)

**Source:** CHEMISTRYSELECT **Volume:** 6 **Issue:** 28 **Pages:** 7162-7182 **DOI:**  
10.1002/slct.202101077 **Published:** JUL 27 2021

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#### **Record 785 of 1000**

**Title:** Effect of the Active Layer Thickness of Pentacene Thin Film Transistor; Illumination Effect

**Author(s):** Yousfi, Y (Yousfi, Y.); Jouili, A (Jouili, A.); Mansouri, S (Mansouri, S.); El Mir, L (El Mir, L.); Al-Ghamdi, A (Al-Ghamdi, Ahmed); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Yakuphanoglu, F (Yakuphanoglu, F.)

**Source:** JOURNAL OF ELECTRONIC MATERIALS **Volume:** 50 **Issue:** 10 **Pages:** 5701-5712 **DOI:**  
10.1007/s11664-021-09101-5 **Early Access Date:** JUL 2021 **Published:** OCT 2021

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#### **Record 786 of 1000**

**Title:** Synthesis of Polymer-Based Magnetic Nanocomposite for Multi-Pollutants Removal from Water

**Author(s):** Alzahrani, FM (Alzahrani, Fatimah Mohammed); Alsaiani, NS (Alsaiani, Norah Salem); Katubi, KM (Katubi, Khadijah Mohammedsaleh); Amari, A (Amari, Abdelfattah); Ben Rebah, F (Ben Rebah, Faouzi); Tahoon, MA (Tahoon, Mohamed A.)

**Source:** POLYMERS **Volume:** 13 **Issue:** 11 **Article Number:** 1742 **DOI:**  
10.3390/polym13111742 **Published:** JUN 2021

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#### **Record 787 of 1000**

**Title:** Synthesis, Characterization and Bioactivity Profiling of Gold Nanoparticles of *Trachyspermum ammi* Crude Extract

**Author(s):** Bawazeer, S (Bawazeer, Saud); Rauf, A (Rauf, Abdur); Naz, H (Naz, Humaira); Shah, SUA (Shah, Syed Uzair Ali); Waggas, DS (Waggas, Dania Saad); Ali, J (Ali, Jawad); Mabkhot, YN (Mabkhot, Yahia N.);

Faryal (Faryal); Ramadan, MF (Ramadan, Mohamed Fawzy)

**Source:** JOURNAL OF PURE AND APPLIED MICROBIOLOGY **Volume:** 15 **Issue:** 2 **Pages:** 667-676 **Article Number:** 6819 **DOI:** 10.22207/JPAM.15.2.11 **Published:** JUN 2021

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#### Record 788 of 1000

**Title:** Borax-catalyzed valorization of waste rubber and polyethylene using pyrolysis and copyrolysis reactions

**Author(s):** Hussain, Z (Hussain, Zahid); Khan, A (Khan, Ajmal); Naz, MY (Naz, Mohammad Yasin); Jan, MR (Jan, Mohammad Rasul); Khan, KM (Khan, Khalid Mohammed); Perveen, S (Perveen, Shahnaz); Ullah, S (Ullah, Sami); Shukrullah, S (Shukrullah, Shazia)

**Source:** ASIA-PACIFIC JOURNAL OF CHEMICAL ENGINEERING **Volume:** 16 **Issue:** 5 **Article Number:** e2696 **DOI:** 10.1002/apj.2696 **Early Access Date:** AUG 2021 **Published:** SEP 2021

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#### Record 789 of 1000

**Title:** Exploring biologically active hybrid pharmacophore *N*-substituted hydrazine-carbothioamides for urease inhibition: *In vitro* and *in silico* approach

**Author(s):** Naseem, S (Naseem, Saira); Ashraf, M (Ashraf, Muhammad); Khan, S (Khan, Samra); Rafiq, M (Rafiq, Muhammad); Kashif, M (Kashif, Muhammad); Rahman, J (Rahman, Jameel); Rauf, MK (Rauf, Muhammad Khawar); Halim, SA (Halim, Sobia Ahsan); Uddin, J (Uddin, Jalal); Khan, A (Khan, Ajmal); Al-Harrasi, A (Al-Harrasi, Ahmed); Shafiq, Z (Shafiq, Zahid)

**Source:** INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES **Volume:** 182 **Pages:** 534-544 **DOI:** 10.1016/j.ijbiomac.2021.04.036 **Early Access Date:** APR 2021 **Published:** JUL 1 2021

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#### Record 790 of 1000

**Title:** Sol-gel synthesis, characterization, dielectric and anti-bacterial properties of soft ferromagnetic oxide system  $Gd_{4-x}Sr_{1+x}Fe_5-xZn_xO_{14+\delta}$  [ $0 \leq x \leq 0.45$ ]

**Author(s):** Thangaraj, V (Thangaraj, Venkatesan); Chang, JH (Chang, Jih-Hsing); Shkir, M (Shkir, Mohd); Mohanraj, K (Mohanraj, K.); Thirumalai, K (Thirumalai, K.); Swaminathan, M (Swaminathan, M.); Sumathi, S (Sumathi, S.); Valarmathi, N (Valarmathi, N.); Rajendran, C (Rajendran, C.); Arun, A (Arun, Araichimani)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 125 **Article Number:** 108432 **DOI:** 10.1016/j.inoche.2020.108432 **Early Access Date:** JAN 2021 **Published:** MAR 2021

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#### Record 791 of 1000

**Title:** Improvement of physicochemical properties of ternary nanocomposites based on hydroxyapatite/CuO/graphene oxide for biomedical usages

**Author(s):** Afifi, M (Afifi, M.); Ahmed, MK (Ahmed, M. K.); Ibrahim, HA (Ibrahim, Hala A.); Awwad, NS (Awwad, Nasser S.); Abdel-Fattah, E (Abdel-Fattah, E.); Alshahrani, MY (Alshahrani, Mohammad Y.)

**Source:** CERAMICS INTERNATIONAL **Volume:** 48 **Issue:** 3 **Pages:** 3993-4004 **DOI:** 10.1016/j.ceramint.2021.10.186 **Early Access Date:** DEC 2021 **Published:** FEB 1 2022

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#### Record 792 of 1000

**Title:** Extraction of Value-Added Minerals from Various Agricultural, Industrial and Domestic Wastes

**Author(s):** Yadav, VK (Yadav, Virendra Kumar); Yadav, KK (Yadav, Krishna Kumar); Tirth, V (Tirth, Vineet); Gnanamoorthy, G (Gnanamoorthy, Govindhan); Gupta, N (Gupta, Nitin); Algahtani, A (Algahtani, Ali); Islam, S (Islam, Saiful); Choudhary, N (Choudhary, Nisha); Modi, S (Modi, Shreya); Jeon, BH (Jeon, Byong-Hun)

**Source:** MATERIALS **Volume:** 14 **Issue:** 21 **Article Number:** 6333 **DOI:** 10.3390/ma14216333 **Published:** NOV 2021

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#### Record 793 of 1000

**Title:**  $\beta$ -Hydroxy Carbonyl compounds via aldol reaction: Single crystal investigation and quantum chemical exploration for the unveiling of supramolecular behavior

**Author(s):** Khalid, M (Khalid, Muhammad); Ali, A (Ali, Akbar); Din, ZU (Din, Zia Ud); Tahir, MN (Tahir, Muhammad Nawaz); Morais, SFD (de Alcantara Morais, Sara Figueiredo); Braga, AAC (Carmo Braga, Atualpa

Albert); Akhtar, MN (Akhtar, Muhammad Nadeem); Imran, M (Imran, Muhammad); Rodrigues-Filho, E (Rodrigues-Filho, Edson)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1241 **Article Number:** 130650 **DOI:** 10.1016/j.molstruc.2021.130650 **Early Access Date:** MAY 2021 **Published:** OCT 5 2021

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#### **Record 794 of 1000**

**Title:** Synthesis and Properties of p-Si/n-Cd<sub>1-x</sub>Ag<sub>x</sub>O Heterostructure for Transparent Photodiode Devices

**Author(s):** Anitha, M (Anitha, Mannarsamy); Kumar, KDA (Deva Arun Kumar, Karuppiah); Mele, P (Mele, Paolo); Anitha, N (Anitha, Nagarajan); Saravanakumar, K (Saravanakumar, Karunamoorthy); Sayed, MA (Sayed, Mahmoud Ahmed); Ali, AM (Ali, Atif Mossad); Amalraj, L (Amalraj, Lourdasamy)

**Source:** COATINGS **Volume:** 11 **Issue:** 4 **Article Number:** 425 **DOI:** 10.3390/coatings11040425 **Published:** APR 2021

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#### **Record 795 of 1000**

**Title:** Corrosion Inhibition of N80 Steel by Newly Synthesized Imidazoline Based Ionic Liquid in 15% HCl Medium: Experimental and Theoretical Investigations

**Author(s):** Guo, L (Guo, Lei); Zhu, MY (Zhu, Mengyue); Chan, J (Chan, Jun); Thomas, R (Thomas, Renjith); Zhang, RH (Zhang, Renhui); Wang, PJ (Wang, Pengjie); Zheng, XW (Zheng, Xingwen); Lin, YH (Lin, Yuanhua); Marzouki, R (Marzouki, Riadh)

**Source:** INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE **Volume:** 16 **Issue:** 11 **Article Number:** 211139 **DOI:** 10.20964/2021.11.15 **Published:** NOV 2021

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#### **Record 796 of 1000**

**Title:** Dispersion Parameters, Polarizability, and Basicity of Lithium Phosphate Glasses

**Author(s):** Sayed, MA (Sayed, M. A.); Ali, AM (Ali, Atif Mossad); Abd El-Rehim, AF (Abd El-Rehim, A. F.); Wahab, EAA (Abdel Wahab, E. A.); Shaaban, KS (Shaaban, Kh. S.)

**Source:** JOURNAL OF ELECTRONIC MATERIALS **Volume:** 50 **Issue:** 6 **Special Issue:** SI **Pages:** 3116-3128 **DOI:** 10.1007/s11664-021-08921-9 **Early Access Date:** APR 2021 **Published:** JUN 2021

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#### **Record 797 of 1000**

**Title:** Mathematical assessment of constant and time-dependent control measures on the dynamics of the novel coronavirus: An application of optimal control theory

**Author(s):** Zhang, L (Zhang, Lei); Ullah, S (Ullah, Saif); Al Alwan, B (Al Alwan, Basem); Alshehri, A (Alshehri, Ahmed); Sumelka, W (Sumelka, Wojciech)

**Source:** RESULTS IN PHYSICS **Volume:** 31 **Article Number:** 104971 **DOI:** 10.1016/j.rinp.2021.104971 **Early Access Date:** NOV 2021 **Published:** DEC 2021

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#### **Record 798 of 1000**

**Title:** Fabrication of natural dye-sensitized solar cells with bulk TiO<sub>2</sub> instead of nano-sized

**Author(s):** Sowmya, S (Sowmya, S.); Prakash, P (Prakash, Pooja); Ruba, N (Ruba, N.); Prabu, AN (Prabu, A. Nagamani); Janarthanan, B (Janarthanan, B.); Reddy, VRM (Reddy, Vasudeva Reddy Minnam); Hegazy, HH (Hegazy, H. H.)

**Source:** OPTIK **Volume:** 242 **Article Number:** 166205 **DOI:** 10.1016/j.ijleo.2020.166205 **Early Access Date:** MAY 2021 **Published:** SEP 2021

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#### **Record 799 of 1000**

**Title:** Adapting the structural, optical and thermoelectrical properties of thermally annealed silver selenide (AgSe) thin films for improving the photovoltaic characteristics of the fabricated n-AgSe/p-CdTe solar cells

**Author(s):** Qasem, A (Qasem, Ammar); Alrafai, HA (Alrafai, H. A.); Alshahrani, B (Alshahrani, B.); Said, NM (Said, Nejla Mahjoub); Hassan, AA (Hassan, Abeer A.); Yakout, HA (Yakout, H. A.); Shaaban, ER (Shaaban, E. R.)

**Source:** JOURNAL OF ALLOYS AND COMPOUNDS **Volume:** 899 **Article Number:** 163374 **DOI:** 10.1016/j.jallcom.2021.163374 **Early Access Date:** DEC 2021 **Published:** APR 5 2022

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**Record 800 of 1000**

**Title:** g-C<sub>3</sub>N<sub>4</sub>/TiO<sub>2</sub>/CuO S-scheme heterostructure photocatalysts for enhancing organic pollutant degradation

**Author(s):** Rajendran, R (Rajendran, Renji); Vignesh, S (Vignesh, Shanmugam); Suganthi, S (Suganthi, Sanjeevamuthu); Raj, V (Raj, Vairamuthu); Kavitha, G (Kavitha, G.); Palanivel, B (Palanivel, Baskaran); Shkir, M (Shkir, Mohd); Algarni, H (Algarni, H.)

**Source:** JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS **Volume:** 161 **Article Number:** 110391 **DOI:** 10.1016/j.jpcs.2021.110391 **Early Access Date:** SEP 2021 **Published:** FEB 2022

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**Record 801 of 1000**

**Title:** *In Silico* Targeting Human Multidrug Transporter ABCG2 in Breast Cancer: Database Screening, Molecular Docking, and Molecular Dynamics Study

**Author(s):** Ibrahim, MAA (Ibrahim, Mahmoud A. A.); Badr, EAA (Badr, Esraa A. A.); Abdelrahman, AHM (Abdelrahman, Alaa H. M.); Almansour, NM (Almansour, Nahlah Makki); Mekhemer, GAH (Mekhemer, Gamal A. H.); Shawky, AM (Shawky, Ahmed M.); Moustafa, MF (Moustafa, Mahmoud F.); Atia, MAM (Atia, Mohamed A. M.)

**Source:** MOLECULAR INFORMATICS **Volume:** 41 **Issue:** 2 **Article Number:** 2060039 **DOI:** 10.1002/minf.202060039 **Early Access Date:** SEP 2021 **Published:** FEB 2022

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**Record 802 of 1000**

**Title:** Influence of nanostructured SnS thin films for visible light photo detection

**Author(s):** Alagarasan, D (Alagarasan, Devarajan); Varadharajaperumal, S (Varadharajaperumal, S.); Kumar, KDA (Kumar, K. Deva Arun); Naik, R (Naik, R.); Umrao, S (Umrao, Sima); Shkir, M (Shkir, Mohd); AIFaify, S (AIFaify, S.); Ganesan, R (Ganesan, R.)

**Source:** OPTICAL MATERIALS **Volume:** 121 **Article Number:** 111489 **DOI:** 10.1016/j.optmat.2021.111489 **Early Access Date:** AUG 2021 **Published:** NOV 2021

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**Record 803 of 1000**

**Title:** Preparation of CuO nanoparticles via organometallic chelate for the removal of acid red 57 from aqueous solutions

**Author(s):** Abou-Melha, KS (Abou-Melha, Khlood S.); Al-Hazmi, GAA (Al-Hazmi, Gamil A. A.); Althagafi, I (Althagafi, Ismail); Shah, R (Shah, Reem); Shaaban, F (Shaaban, Fathy); El-Metwaly, NM (El-Metwaly, Nashwa M.); El-Bindary, AA (El-Bindary, Ashraf A.)

**Source:** DESALINATION AND WATER TREATMENT **Volume:** 222 **Pages:** 282-294 **DOI:** 10.5004/dwt.2021.27067 **Published:** MAY 2021

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**Record 804 of 1000**

**Title:** Applying iron coating on the Saudi Arabia volcanic tuff for enhancing mercury adsorption from synthetic wastewater

**Author(s):** Elboughdiri, N (Elboughdiri, Noureddine); Ghernaout, D (Ghernaout, Djamel); Abdelfattah, A (Abdelfattah, Amari); Khan, MI (Khan, Muhammad Imran); Salih, AA (Salih, Alsamani Ahmed); Matouq, M (Matouq, Mohammed)

**Source:** DESALINATION AND WATER TREATMENT **Volume:** 241 **Pages:** 171-182 **DOI:** 10.5004/dwt.2021.27828 **Published:** NOV 2021

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**Record 805 of 1000**

**Title:** Antitumor and hepatoprotective effect of *Cuscuta reflexa* Roxb. in a murine model of colon cancer

**Author(s):** Mishra, S (Mishra, Shobhit); Alhodieb, FS (Alhodieb, Fahad Saad); Abul Barkat, M (Abul Barkat, Md.); Hassan, MZ (Hassan, Mohd. Zaheen); Abul Barkat, H (Abul Barkat, Harshita); Ali, R (Ali, Raisuddin); Alam, P (Alam, Perwaiz); Alam, O (Alam, Ozair)

**Source:** JOURNAL OF ETHNOPHARMACOLOGY **Volume:** 282 **Article Number:** 114597 **DOI:** 10.1016/j.jep.2021.114597 **Early Access Date:** SEP 2021 **Published:** JAN 10 2022

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### Record 806 of 1000

**Title:** Novel, facile and first time synthesis of zinc oxide nanoparticles using leaves extract of *Citrus reticulata* for photocatalytic and antibacterial activity

**Author(s):** Rafique, M (Rafique, Muhammad); Sohaib, M (Sohaib, Muhammad); Tahir, R (Tahir, Rabbia); Tahir, MB (Tahir, M. Bilal); Khalid, NR (Khalid, N. R.); Shakil, M (Shakil, M.); Gillani, SSA (Gillani, S. S. A.); Khan, MI (Khan, M. Isa); Alrobei, H (Alrobei, Hussein); Shahzad, K (Shahzad, Khurram); Ali, AM (Ali, Arshid Mahmood); Muhammad, S (Muhammad, Shabbir)

**Source:** OPTIK **Volume:** 243 **Article Number:** 167495 **DOI:** 10.1016/j.ijleo.2021.167495 **Early Access Date:** JUN 2021 **Published:** OCT 2021

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### Record 807 of 1000

**Title:** Insight into the anti-corrosion performance of two food flavors as eco-friendly and ultra-high performance inhibitors for copper in sulfuric acid medium

**Author(s):** Tan, BC (Tan, Bochuan); Zhang, ST (Zhang, Shengtao); Cao, XL (Cao, Xianlong); Fu, AQ (Fu, Anqing); Guo, L (Guo, Lei); Marzouki, R (Marzouki, Riadh); Li, WP (Li, Wenpo)

**Source:** JOURNAL OF COLLOID AND INTERFACE SCIENCE **Volume:** 609 **Pages:** 838-851 **DOI:** 10.1016/j.jcis.2021.11.085 **Early Access Date:** DEC 2021 **Published:** MAR 2022

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### Record 808 of 1000

**Title:** Tuning structural, optical, electrical and photovoltaic characteristics of  $n$ -type CdS<sub>1-x</sub>Sb<sub>x</sub> layers for optimizing the performance of  $n$ -(CdS:Sb)/ $p$ -Si solar cells

**Author(s):** Qasem, A (Qasem, Ammar); Alshahrani, B (Alshahrani, B.); Yakout, HA (Yakout, H. A.); Abbas, HAS (Abbas, Hebat-Allah S.); Shaaban, ER (Shaaban, E. R.)

**Source:** APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING **Volume:** 127 **Issue:** 11 **Article Number:** 849 **DOI:** 10.1007/s00339-021-04999-4 **Published:** NOV 2021

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### Record 809 of 1000

**Title:** Adsorption and electrochemical facet of polymer precursor to yield mesoporous carbon ceramic

**Author(s):** Idrees, M (Idrees, Muhammad); Batool, S (Batool, Saima); Javed, MS (Javed, Muhammad Sufyan); Ahmad, M (Ahmad, Mahtab); Khan, QU (Khan, Qudrat Ullah); Imran, M (Imran, Muhammad); Rasaki, SA (Rasaki, Sefiu Abolaji); Mwizerwa, JP (Mwizerwa, Jean Pierre); Chen, ZW (Chen, Zhangwei)

**Source:** SEPARATION AND PURIFICATION TECHNOLOGY **Volume:** 275 **Article Number:** 119199 **DOI:** 10.1016/j.seppur.2021.119199 **Early Access Date:** JUL 2021 **Published:** NOV 15 2021

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### Record 810 of 1000

**Title:** Fabrication of Cu/ZnO system: A dual performer as photocatalyst and luminescent material

**Author(s):** Arunpandian, M (Arunpandian, M.); Marnadu, R (Marnadu, R.); Kannan, R (Kannan, R.); Kannan, SK (Kannan, S. Karthik); Arputhavalli, GJ (Arputhavalli, G. Johnsy); Arockiam, SI (Arockiam, S. Ignatius); Mahmoud, ZMM (Mahmoud, Zakaria M. M.); Shkir, M (Shkir, Mohd); AlFaify, S (AlFaify, S.); Sreedevi, G (Sreedevi, Gedi)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 134 **Article Number:** 109022 **DOI:** 10.1016/j.inoche.2021.109022 **Early Access Date:** NOV 2021 **Published:** DEC 2021

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### Record 811 of 1000

**Title:** Effective Poly (Cyclotriphosphazene-Co-4,4'-Sulfonyldiphenol)<sub>r</sub>GO Sheets for Tetracycline Adsorption: Fabrication, Characterization, Adsorption Kinetics and Thermodynamics

**Author(s):** Ahmad, M (Ahmad, Muhammad); Nawaz, T (Nawaz, Tehseen); Alam, MM (Alam, Mohammad Mujahid); Abbas, Y (Abbas, Yasir); Ali, S (Ali, Shafqat); Imran, M (Imran, Muhammad); Zhang, SK (Zhang, Shuangkun); Wu, ZP (Wu, Zhanpeng)

**Source:** NANOMATERIALS **Volume:** 11 **Issue:** 6 **Article Number:** 1540 **DOI:** 10.3390/nano11061540 **Published:** JUN 2021

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### Record 812 of 1000



**Title:** Synthesis, characterization, DFT calculation, DNA binding and antimicrobial activities of metal complexes of dimedone arylhydrazone

**Author(s):** Abou-Melha, KS (Abou-Melha, Khlood S.); Al-Hazmi, GA (Al-Hazmi, Gamil A.); Althagafi, I (Althagafi, Ismail); Alharbi, A (Alharbi, Arwa); Shaaban, F (Shaaban, Fathy); El-Metwaly, NM (El-Metwaly, Nashwa M.); El-Bindary, AA (El-Bindary, Ashraf A.); El-Bindary, MA (El-Bindary, Mohamed A.)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 334 **Article Number:** 116498 **DOI:** 10.1016/j.molliq.2021.116498 **Early Access Date:** MAY 2021 **Published:** JUL 15 2021

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#### Record 813 of 1000

**Title:** Facile hydrothermal synthesis of nickel tungstate (NiWO<sub>4</sub>) nanostructures with pronounced supercapacitor and electrochemical sensing activities

**Author(s):** Ikram, M (Ikram, Muhammad); Javed, Y (Javed, Yasir); Shad, NA (Shad, Naveed Akhtar); Sajid, MM (Sajid, Muhammad Munir); Irfan, M (Irfan, Muhammad); Munawar, A (Munawar, Anam); Hussain, T (Hussain, Tousif); Imran, M (Imran, Muhammad); Hussain, D (Hussain, Dilshad)

**Source:** JOURNAL OF ALLOYS AND COMPOUNDS **Volume:** 878 **Article Number:** 160314 **DOI:** 10.1016/j.jallcom.2021.160314 **Early Access Date:** MAY 2021 **Published:** OCT 15 2021

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#### Record 814 of 1000

**Title:** Corrosion Inhibition Properties of Thiazolidinedione Derivatives for Copper in 3.5 wt.% NaCl Medium

**Author(s):** Lgaz, H (Lgaz, Hassane); Saha, SK (Saha, Sourav Kr.); Lee, HS (Lee, Han-seung); Kang, N (Kang, Namhyun); Thari, FZ (Thari, Fatima Zahra); Karrouchi, K (Karrouchi, Khalid); Salghi, R (Salghi, Rachid); Bougrin, K (Bougrin, Khalid); Ali, IH (Ali, Ismat Hassan)

**Source:** METALS **Volume:** 11 **Issue:** 11 **Article Number:** 1861 **DOI:** 10.3390/met11111861 **Published:** NOV 2021

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#### Record 815 of 1000

**Title:** Exploration of structural, electronic and third order nonlinear optical properties of crystalline chalcone systems: Monoarylidene and unsymmetrical diarylidene cycloalkanones

**Author(s):** Ali, A (Ali, Akbar); Khalid, M (Khalid, Muhammad); Din, ZU (Din, Zia Ud); Asif, HM (Asif, Hafiz Muhammad); Imran, M (Imran, Muhammad); Tahir, MN (Tahir, Muhammad Nawaz); Ashfaq, M (Ashfaq, Muhammad); Rodrigues, E (Rodrigues-Filho, Edson)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1241 **Article Number:** 130685 **DOI:** 10.1016/j.molstruc.2021.130685 **Early Access Date:** MAY 2021 **Published:** OCT 5 2021

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#### Record 816 of 1000

**Title:** Simultaneous removal of antibiotics and inactivation of antibiotic-resistant bacteria by photocatalysis: A review

**Author(s):** Baaloudj, O (Baaloudj, Oussama); Assadi, I (Assadi, Imen); Nasrallah, N (Nasrallah, Nouredine); El Jery, A (El Jery, Atef); Khezami, L (Khezami, Lotfi); Assadi, AA (Assadi, Aymen Amin)

**Source:** JOURNAL OF WATER PROCESS ENGINEERING **Volume:** 42 **Article Number:** 102089 **DOI:** 10.1016/j.jwpe.2021.102089 **Published:** AUG 2021

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#### Record 817 of 1000

**Title:** Klein-Nishina formula and Monte Carlo method for evaluating the gamma attenuation properties of Zn, Ba, Te and Bi elements

**Author(s):** Al-Buriahi, MS (Al-Buriahi, M. S.); Alrowaili, ZA (Alrowaili, Z. A.); Ezzine, S (Ezzine, Safa); Olarinoye, IO (Olarinoye, I. O.); Alomairy, S (Alomairy, Sultan); Mutuwong, C (Mutuwong, C.); Tonguç, BT (Tonguç, B. T.)

**Source:** MATERIALS SCIENCE-POLAND **Volume:** 39 **Issue:** 2 **Pages:** 219-226 **DOI:** 10.2478/msp-2021-0019 **Published:** JUN 1 2021

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#### Record 818 of 1000

**Title:** Electrospun nanofibrous scaffolds of *e*-polycaprolactone containing graphene oxide and encapsulated with magnetite nanoparticles for wound healing utilizations

**Author(s):** Al-Ahmed, ZA (Al-Ahmed, Zehbah Ali); Al Jahdaly, BA (Al Jahdaly, Badreah A.); Radwan, HA (Radwan, Hyam A.); Hassana, AA (Hassana, Abeer A.); Almahri, A (Almahri, Albandary); Ahmed, MK (Ahmed, M. K.); Taher, MM (Taher, Mohamed M.)

**Source:** MATERIALS RESEARCH EXPRESS **Volume:** 8 **Issue:** 2 **Article Number:** 025013 **DOI:** 10.1088/2053-1591/abe42b **Published:** FEB 2021

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#### Record 819 of 1000

**Title:** Functionalized silica nanotubes with azo-chromophore for enhanced Pd<sup>2+</sup> and Co<sup>2+</sup> ions monitoring in E-wastes

**Author(s):** Abou-Melha, KS (Abou-Melha, Khlood S.); Al-Hazmi, GAA (Al-Hazmi, Gamil A. A.); Habeebullah, TM (Habeebullah, Turki M.); Althagafi, I (Althagafi, Ismail); Othman, A (Othman, Abdullah); El-Metwaly, NM (El-Metwaly, Nashwa M.); Shaaban, F (Shaaban, Fathy); Shahat, A (Shahat, Ahmed)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 329 **Article Number:** 115585 **DOI:** 10.1016/j.molliq.2021.115585 **Early Access Date:** FEB 2021 **Published:** MAY 1 2021

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#### Record 820 of 1000

**Title:** Half metallic ferromagnetism and optoelectronic characteristics of V doped BaTiO<sub>3</sub> compound: a DFT study

**Author(s):** Sohail, A (Sohail, A.); Aldaghfag, SA (Aldaghfag, S. A.); Butt, MK (Butt, M. K.); Zahid, M (Zahid, M.); Yaseen, M (Yaseen, M.); Iqbal, J (Iqbal, J.); Misbah (Misbah); Ishfaq, M (Ishfaq, M.); Dahshan, A (Dahshan, A.)

**Source:** JOURNAL OF OVONIC RESEARCH **Volume:** 17 **Issue:** 5 **Pages:** 461-469 **Published:** SEP-OCT 2021

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#### Record 821 of 1000

**Title:** WO<sub>3</sub>/CoWO<sub>4</sub> nanocomposite synthesis using a facile co-precipitation method for enhanced photocatalytic applications

**Author(s):** Thilagavathi, T (Thilagavathi, T.); Venugopal, D (Venugopal, D.); Marnadu, R (Marnadu, R.); Chandrasekaran, J (Chandrasekaran, J.); Thangaraju, D (Thangaraju, D.); Palanivel, B (Palanivel, Baskaran); Hamdy, MS (Hamdy, Mohamed S.); Shkir, M (Shkir, M.); Ali, HE (Ali, H. Elhosiny)

**Source:** JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS **Volume:** 154 **Article Number:** 110066 **DOI:** 10.1016/j.jpcs.2021.110066 **Early Access Date:** MAR 2021 **Published:** JUL 2021

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#### Record 822 of 1000

**Title:** The Transmission Dynamics of Hepatitis B Virus via the Fractional-Order Epidemiological Model

**Author(s):** Khan, T (Khan, Tahir); Qian, ZS (Qian, Zi-Shan); Ullah, R (Ullah, Roman); Al Alwan, B (Al Alwan, Basem); Zaman, G (Zaman, Gul); Al-Mdallal, QM (Al-Mdallal, Qasem M.); El Khatib, Y (El Khatib, Youssef); Kheder, K (Kheder, Khaled)

**Source:** COMPLEXITY **Volume:** 2021 **Article Number:** 8752161 **DOI:** 10.1155/2021/8752161 **Published:** DEC 27 2021

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#### Record 823 of 1000

**Title:** Improved photoabsorption and refined electrochemical properties of pseudocapacitive Cu<sub>x</sub>O thin film electrode with Zn incorporation for applications in optoelectronic and charge storage

**Author(s):** Adewinbi, SA (Adewinbi, Saheed A.); Maphiri, VM (Maphiri, Vusani M.); Taleatu, BA (Taleatu, Bidini A.); Marnadu, R (Marnadu, R.); Manthrammel, MA (Manthrammel, M. Aslam); Gedi, S (Gedi, Sreedevi)

**Source:** JOURNAL OF ALLOYS AND COMPOUNDS **Volume:** 897 **Article Number:** 163151 **DOI:** 10.1016/j.jallcom.2021.163151 **Early Access Date:** DEC 2021 **Published:** MAR 15 2022

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#### Record 824 of 1000

**Title:** Synthesis of β-Enaminonitrile-Linked 8-Methoxy-1*H*-Benzo[*f*]Chromene Moieties and Analysis of Their Antitumor Mechanisms

**Author(s):** Elgaafary, M (Elgaafary, Menna); Fouda, AM (Fouda, Ahmed M.); Mohamed, HM (Mohamed, Hany M.); Hamed, A (Hamed, Abdelaaty); El-Mawgoud, HKA (El-Mawgoud, Heba K. A.); Jin, L (Jin, Lu); Ulrich, J

(Ulrich, Judith); Simmet, T (Simmet, Thomas); Syrovets, T (Syrovets, Tatiana); El-Agrody, AM (El-Agrody, Ahmed M.)

**Source:** FRONTIERS IN CHEMISTRY **Volume:** 9 **Article Number:** 759148 **DOI:** 10.3389/fchem.2021.759148 **Published:** NOV 22 2021

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#### Record 825 of 1000

**Title:** Preparation, Characterization, and Pharmacological Investigation of Withaferin-A Loaded Nanosponges for Cancer Therapy; In Vitro, In Vivo and Molecular Docking Studies

**Author(s):** Shah, HS (Shah, Hamid Saeed); Nasrullah, U (Nasrullah, Usman); Zaib, S (Zaib, Sumera); Usman, F (Usman, Faisal); Khan, A (Khan, Ajmal); Gohar, UF (Gohar, Umar Farooq); Uddin, J (Uddin, Jalal); Khan, I (Khan, Imtiaz); Al-Harrasi, A (Al-Harrasi, Ahmed)

**Source:** MOLECULES **Volume:** 26 **Issue:** 22 **Article Number:** 6990 **DOI:** 10.3390/molecules26226990 **Published:** NOV 2021

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#### Record 826 of 1000

**Title:** Chemically Modified Quinoidal Oligothiophenes for Enhanced Linear and Third-Order Nonlinear Optical Properties

**Author(s):** Bibi, A (Bibi, Amna); Muhammad, S (Muhammad, Shabbir); UrRehman, S (UrRehman, Shafiq); Bibi, S (Bibi, Shamsa); Bashir, S (Bashir, Shahid); Ayub, K (Ayub, Khurshid); Adnan, M (Adnan, Muhammad); Khalid, M (Khalid, Muhammad)

**Source:** ACS OMEGA **Volume:** 6 **Issue:** 38 **Pages:** 24602-24613 **DOI:** 10.1021/acsomega.1c03218 **Early Access Date:** SEP 2021 **Published:** SEP 28 2021

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#### Record 827 of 1000

**Title:** Biological Insights of Fluoroaryl-2,2'-Bichalcophene Compounds on Multi-Drug Resistant *Staphylococcus aureus*

**Author(s):** Elmogy, S (Elmogy, Sally); Ismail, MA (Ismail, Mohamed A.); Hassan, RYA (Hassan, Rabeay Y. A.); Nouraldeen, A (Nouraldeen, Ahmed); Darwish, H (Darwish, Hadeer); Fayad, E (Fayad, Eman); Elsaid, F (Elsaid, Fahmy); Elsayed, A (Elsayed, Ashraf)

**Source:** MOLECULES **Volume:** 26 **Issue:** 1 **Article Number:** 139 **DOI:** 10.3390/molecules26010139 **Published:** JAN 2021

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#### Record 828 of 1000

**Title:** Comprehensive evaluation of chemical properties and toxic metals in the surface water of Louhajang River, Bangladesh

**Author(s):** Proshad, R (Proshad, Ram); Zhang, D (Zhang, Dan); Idris, AM (Idris, Abubakr Mustafa); Islam, MS (Islam, Md Saiful); Kormoker, T (Kormoker, Tapos); Sarker, MNI (Sarker, Md Nazirul Islam); Khadka, S (Khadka, Sujan); Abu Sayeed (Abu Sayeed); Islam, M (Islam, Maksudul)

**Source:** ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH **Volume:** 28 **Issue:** 35 **Pages:** 49191-49205 **DOI:** 10.1007/s11356-021-14160-6 **Published:** SEP 2021

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#### Record 829 of 1000

**Title:** A Review of the Use of Semiconductors as Catalysts in the Photocatalytic Inactivation of Microorganisms

**Author(s):** Elgohary, EA (Elgohary, Elzahraa A.); Mohamed, YMA (Mohamed, Yasser Mahmoud A.); El Nazer, HA (El Nazer, Hossam A.); Baaloudj, O (Baaloudj, Oussama); Alyami, MSS (Alyami, Mohammed S. S.); El Jery, A (El Jery, Atef); Assadi, AA (Assadi, Aymen Amine); Amrane, A (Amrane, Abdeltif)

**Source:** CATALYSTS **Volume:** 11 **Issue:** 12 **Article Number:** 1498 **DOI:** 10.3390/catal11121498 **Published:** DEC 2021

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#### Record 830 of 1000

**Title:** Functionalized role of highly porous activated carbon in bismuth vanadate nanomaterials for boosted photocatalytic hydrogen evolution and synchronous activity in water

**Author(s):** Tahir, MB (Tahir, Muhammad Bilal); Nawaz, T (Nawaz, Tasmia); Sagir, M (Sagir, Muhammad); Alzaid, M (Alzaid, Meshal); Alrobei, H (Alrobei, Hussein); Shahzad, K (Shahzad, Khurram); Ali, AM (Ali,

Arshid Mahmood); Muhammad, S (Muhammad, Shabbir)

**Source:** INTERNATIONAL JOURNAL OF HYDROGEN ENERGY **Volume:** 46 **Issue:** 80 **Pages:** 39778-39785 **DOI:** 10.1016/j.ijhydene.2021.09.187 **Early Access Date:** NOV 2021 **Published:** NOV 18 2021

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### Record 831 of 1000

**Title:** Carbon dioxide capture over amine functionalized styrene divinylbenzene copolymer: An experimental batch and continuous studies

**Author(s):** Ansari, KB (Ansari, Khursheed B.); Gaikar, VG (Gaikar, Vilas G.); Trinh, QT (Trinh, Quang Thang); Khan, MS (Khan, Mohd Shariq); Banerjee, A (Banerjee, Arghya); Kanchan, DR (Kanchan, Dipika Rajendra); Al Mesfer, MK (Al Mesfer, Mohammed K.); Danish, M (Danish, Mohd)

**Source:** JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING **Volume:** 10 **Issue:** 1 **Article Number:** 106910 **DOI:** 10.1016/j.jece.2021.106910 **Early Access Date:** DEC 2021 **Published:** FEB 2022

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### Record 832 of 1000

**Title:** Nanobioremediation: A sustainable approach towards the degradation of sodium dodecyl sulfate in the environment and simulated conditions

**Author(s):** Yadav, VK (Yadav, Virendra K.); Khan, SH (Khan, Samreen H.); Choudhary, N (Choudhary, Nisha); Tirth, V (Tirth, Vineet); Kumar, P (Kumar, Pankaj); Ravi, RK (Ravi, Raman K.); Modi, S (Modi, Shreya); Khayal, A (Khayal, Areeba); Shah, MP (Shah, Maulin P.); Sharma, P (Sharma, Purva); Godha, M (Godha, Meena)

**Source:** JOURNAL OF BASIC MICROBIOLOGY **Volume:** 62 **Issue:** 3-4 **Special Issue:** SI **Pages:** 348-360 **DOI:** 10.1002/jobm.202100217 **Early Access Date:** SEP 2021 **Published:** MAR 2022

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### Record 833 of 1000

**Title:** Quaternized Diaminobutane/Poly(vinyl alcohol) Cross-Linked Membranes for Acid Recovery via Diffusion Dialysis

**Author(s):** Ashraf, MA (Ashraf, Muhammad Adnan); Islam, A (Islam, Atif); Butt, MA (Butt, Muhammad Arif); Mannan, HA (Mannan, Hafiz Abdul); Khan, RU (Khan, Rafi Ullah); Kamran, K (Kamran, Kashif); Bashir, S (Bashir, Shahid); Iqbal, J (Iqbal, Javed); Al-Ghamdi, AA (Al-Ghamdi, Ahmed A.); Al-Sehemi, AG (Al-Sehemi, Abdullah G.)

**Source:** MEMBRANES **Volume:** 11 **Issue:** 10 **Article Number:** 786 **DOI:** 10.3390/membranes11100786 **Published:** OCT 2021

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### Record 834 of 1000

**Title:** Microwave-Assisted One Pot Three-Component Synthesis of Novel Bioactive Thiazolyl-Pyridazinediones as Potential Antimicrobial Agents against Antibiotic-Resistant Bacteria

**Author(s):** Abu-Melha, S (Abu-Melha, Saraa); Gomha, SM (Gomha, Sobhi M.); Abouzied, AS (Abouzied, Amr S.); Edrees, MM (Edrees, Mastoura M.); Dena, ASA (Abo Dena, Ahmed S.); Muhammad, ZA (Muhammad, Zeinab A.)

**Source:** MOLECULES **Volume:** 26 **Issue:** 14 **Article Number:** 4260 **DOI:** 10.3390/molecules26144260 **Published:** JUL 2021

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### Record 835 of 1000

**Title:** Recent Progress in Growth of Single-Crystal Perovskites for Photovoltaic Applications

**Author(s):** Trivedi, S (Trivedi, Suverna); Prochowicz, D (Prochowicz, Daniel); Parikh, N (Parikh, Nishi); Mahapatra, A (Mahapatra, Apurba); Pandey, MK (Pandey, Manoj Kumar); Kalam, A (Kalam, Abul); Tavakoli, MM (Tavakoli, Mohammad Mahdi); Yadav, P (Yadav, Pankaj)

**Source:** ACS OMEGA **Volume:** 6 **Issue:** 2 **Pages:** 1030-1042 **DOI:** 10.1021/acsomega.0c04593 **Early Access Date:** JAN 2021 **Published:** JAN 19 2021

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### Record 836 of 1000

**Title:** Antimicrobial, anti-inflammatory and antioxidant activities of natural organic matter extracted from cretaceous shales in district Nowshera-Pakistan

**Author(s):** Khuda, F (Khuda, Fazli); Anjum, M (Anjum, Madiha); Khan, S (Khan, Suleman); Khan, H (Khan, Hamayun); Sahibzada, MUK (Sahibzada, Muhammad Umar Khayam); Khusro, A (Khusro, Ameer); Jan, A (Jan, Asif); Ullah, N (Ullah, Naveed); Shah, Y (Shah, Yasar); Zakiullah (Zakiullah); Abbas, M (Abbas, Muhammad); Iftikhar, T (Iftikhar, Tayyaba); Idris, AM (Idris, Abubakr M.); Khandaker, MU (Khandaker, Mayeen Uddin); Bin Emran, T (Bin Emran, Talha)

**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 15 **Issue:** 2 **Article Number:** 103633 **DOI:** 10.1016/j.arabjc.2021.103633 **Early Access Date:** DEC 2021 **Published:** FEB 2022

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#### **Record 837 of 1000**

**Title:** Contamination and ecological risk assessment of heavy metals in water and sediment from hubs of fish resource river in a developing country

**Author(s):** Ali, MM (Ali, Mir Mohammad); Ali, ML (Ali, Mohammad Lokman); Rakib, MRJ (Rakib, Md Refat Jahan); Islam, MS (Islam, Md Saiful); Habib, A (Habib, Ahasan); Hossen, S (Hossen, Shaharior); Ibrahim, KA (Ibrahim, Khalid A.); Idris, AM (Idris, Abubakr M.); Phoungthong, K (Phoungthong, Khampho)

**Source:** TOXIN REVIEWS **Volume:** 41 **Issue:** 4 **Pages:** 1253-1268 **DOI:** 10.1080/15569543.2021.2001829 **Early Access Date:** NOV 2021 **Published:** OCT 2 2022

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#### **Record 838 of 1000**

**Title:** Ultra Performance Liquid Chromatography (Mini-Review)

**Author(s):** Basharat, R (Basharat, Rabia); Kotra, V (Kotra, Vijay); Loong, LY (Loong, Lean Yen); Mathews, A (Mathews, Allan); Kanakal, MM (Kanakal, Mahibub Mahamadsa); Dev, CBP (Dev, Ch B. Praveena); Nyamathulla, S (Nyamathulla, Shaik); Varala, R (Varala, Ravi); Ming, LC (Ming, Long Chiau); Rao, KS (Rao, Krs Sambasiva); Babu, BH (Babu, B. Hari); Alam, MM (Alam, M. Mujahid)

**Source:** ORIENTAL JOURNAL OF CHEMISTRY **Volume:** 37 **Issue:** 4 **Pages:** 847-857 **DOI:** 10.13005/ojc/370411 **Published:** AUG 2021

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#### **Record 839 of 1000**

**Title:** Analytical investigation of magnetized 2D hybrid nanofluid (GO plus ZnO plus blood) flow through a perforated capillary

**Author(s):** Ullah, I (Ullah, Ikram); Ullah, A (Ullah, Asad); Selim, MM (Selim, Mahmoud M.); Khan, MI (Khan, M. Ijaz); Saima (Saima); Khan, AA (Khan, Abid Ali); Malik, MY (Malik, M. Y.)

**Source:** COMPUTER METHODS IN BIOMECHANICS AND BIOMEDICAL ENGINEERING **Volume:** 25 **Issue:** 13 **Pages:** 1531-1543 **DOI:** 10.1080/10255842.2021.2021194 **Early Access Date:** DEC 2021 **Published:** OCT 3 2022

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#### **Record 840 of 1000**

**Title:** Enhanced structural, optical, and photocatalytic activities of Cd-Co doped Zn ferrites for degrading methyl orange dye under irradiation by visible light

**Author(s):** Shakil, M (Shakil, M.); Inayat, U (Inayat, Usama); Khalid, NR (Khalid, N. R.); Tanveer, M (Tanveer, Muhammad); Gillani, SSA (Gillani, S. S. A.); Tariq, NH (Tariq, N. H.); Shah, A (Shah, Attaullah); Mahmood, A (Mahmood, Arshad); Dahshan, A (Dahshan, A.)

**Source:** JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS **Volume:** 161 **Article Number:** 110419 **DOI:** 10.1016/j.jpcs.2021.110419 **Early Access Date:** OCT 2021 **Published:** FEB 2022

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#### **Record 841 of 1000**

**Title:** Regulation of miR-126 and miR-122 Expression and Response of Imatinib Treatment on Its Expression in Chronic Myeloid Leukemia Patients

**Author(s):** Beg, MMA (Ali Beg, Mirza Masroor); Guru, SA (Guru, Sameer Ahmad); Abdullah, SM (Abdullah, Saleh Mohammed); Ahmad, I (Ahmad, Irfan); Rizvi, A (Rizvi, Aliya); Akhter, J (Akhter, Juheb); Goyal, Y (Goyal, Yamini); Verma, AK (Verma, Amit K.)

**Source:** ONCOLOGY RESEARCH AND TREATMENT **Volume:** 44 **Issue:** 10 **Pages:** 530-536 **DOI:** 10.1159/000518722 **Early Access Date:** AUG 2021 **Published:** OCT 2021

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#### **Record 842 of 1000**

**Title:** Synthesis and reactivity of thieno[2,3-*b*]quinoline derivatives (Part II)

**Author(s):** Salem, MA (Salem, Mohammed A.); Abu-Hashem, AA (Abu-Hashem, Ameen A.); Abdelgawad, AAM (Abdelgawad, Ahmed A. M.); Gouda, MA (Gouda, Moustafa A.)

**Source:** JOURNAL OF HETEROCYCLIC CHEMISTRY **Volume:** 58 **Issue:** 9 **Pages:** 1705-1740 **DOI:** 10.1002/jhet.4269 **Early Access Date:** APR 2021 **Published:** SEP 2021

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#### Record 843 of 1000

**Title:** Optoelectronic properties of Nd<sup>3+</sup> doped CaTa<sub>2</sub>O<sub>6</sub>: Insights from the GGA plus U calculations

**Author(s):** Azam, S (Azam, Sikander); Irfan, M (Irfan, Muhammad); Abbas, Z (Abbas, Zeesham); Khan, SA (Khan, Saleem Ayaz); Khenata, R (Khenata, Rabah); Muhammad, S (Muhammad, Shabbir); Siddeeg, SM (Siddeeg, Saifeldin M.); Naqib, SH (Naqib, S. H.); Wang, XT (Wang, Xiaotian)

**Source:** OPTIK **Volume:** 225 **Article Number:** 165270 **DOI:** 10.1016/j.ijleo.2020.165270 **Published:** JAN 2021

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#### Record 844 of 1000

**Title:** Effect of S, Se and Te replacement on structural, optoelectronic and transport properties of SrXO<sub>4</sub> (X= S, Se, Te) for energy applications: A first principles study

**Author(s):** Abubakr, M (Abubakr, Muhammad); Fatima, K (Fatima, Kisa); Abbas, Z (Abbas, Zeesham); Hussain, A (Hussain, Ahmad); Jabeen, N (Jabeen, Nawishta); Raza, HH (Raza, Hafiz Hamid); Chaib, Y (Chaib, Youness); Muhammad, S (Muhammad, Shabbir); Siddeeg, SM (Siddeeg, Saifeldin M.); Gorczyca, I (Gorczyca, Izabela)

**Source:** JOURNAL OF SOLID STATE CHEMISTRY **Volume:** 305 **Article Number:** 122689 **DOI:** 10.1016/j.jssc.2021.122689 **Early Access Date:** NOV 2021 **Published:** JAN 2022

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#### Record 845 of 1000

**Title:** Inhaled Edoxaban dry powder inhaler formulations: Development, characterization and their effects on the coagulopathy associated with COVID-19 infection

**Author(s):** Rashid, MA (Rashid, Md Abdur); Muneer, S (Muneer, Saiqa); Mendhi, J (Mendhi, Jayanti); Sabuj, MZR (Sabuj, Mohammad Zaidur Rahman); Alhamhoom, Y (Alhamhoom, Yahya); Xiao, Y (Xiao, Yin); Wang, T (Wang, Tony); Izake, EL (Izake, Emad L.); Islam, N (Islam, Nazrul)

**Source:** INTERNATIONAL JOURNAL OF PHARMACEUTICS **Volume:** 608 **Article Number:** 121122 **DOI:** 10.1016/j.ijpharm.2021.121122 **Early Access Date:** SEP 2021 **Published:** OCT 25 2021

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#### Record 846 of 1000

**Title:**  $\pi$ -hole interactions of group III-VI elements with  $\pi$ -systems and Lewis bases: a comparative study

**Author(s):** Ibrahim, MAA (Ibrahim, Mahmoud A. A.); Rady, ASSM (Rady, Al-shimaa S. M.); Soliman, MES (Soliman, Mahmoud E. S.); Moustafa, MF (Moustafa, Mahmoud F.); Abd El-Mageed, HR (Abd El-Mageed, H. R.); Moussa, NAM (Moussa, Nayra A. M.)

**Source:** STRUCTURAL CHEMISTRY **Volume:** 33 **Issue:** 1 **Pages:** 9-21 **DOI:** 10.1007/s11224-021-01817-8 **Early Access Date:** AUG 2021 **Published:** FEB 2022

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#### Record 847 of 1000

**Title:** Insights into the newly synthesized N-doped carbon dots for Q235 steel corrosion retardation in acidizing media: A detailed multidimensional study

**Author(s):** Zhu, MY (Zhu, Mengyue); Guo, L (Guo, Lei); He, ZY (He, Zhongyi); Marzouki, R (Marzouki, Riadh); Zhang, RH (Zhang, Renhui); Berdimurodov, E (Berdimurodov, Elyor)

**Source:** JOURNAL OF COLLOID AND INTERFACE SCIENCE **Volume:** 608 **Pages:** 2039-2049 **DOI:** 10.1016/j.jcis.2021.10.160 **Early Access Date:** NOV 2021 **Part:** 2 **Published:** FEB 15 2022

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#### Record 848 of 1000

**Title:** Photocatalytic Treatment of Wastewater Containing Simultaneous Organic and Inorganic Pollution: Competition and Operating Parameters Effects

**Author(s):** Azzaz, AA (Azzaz, Ahmed Amine); Jellali, S (Jellali, Salah); Hamed, NB (Hamed, Nasser Ben Harharah); El Jery, A (El Jery, Atef); Khezami, L (Khezami, Lotfi); Assadi, AA (Assadi, Aymen Amine); Amrane, A (Amrane, Abdeltif)

**Source:** CATALYSTS **Volume:** 11 **Issue:** 7 **Article Number:** 855 **DOI:** 10.3390/catal11070855 **Published:** JUL 2021

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#### **Record 849 of 1000**

**Title:** Band alignment and carrier recombination roles on the open circuit voltage of ETL-passivated perovskite photovoltaics

**Author(s):** Chavan, RD (Chavan, Rohit D.); Parikh, N (Parikh, Nishi); Tavakoli, MM (Tavakoli, Mohammad Mahdi); Prochowicz, D (Prochowicz, Daniel); Kalam, A (Kalam, Abul); Bhoite, PH (Bhoite, Pravin H.); Yadav, P (Yadav, Pankaj); Hong, CK (Hong, Chang Kook)

**Source:** INTERNATIONAL JOURNAL OF ENERGY RESEARCH **Volume:** 46 **Issue:** 5 **Pages:** 6022-6030 **DOI:** 10.1002/er.7542 **Early Access Date:** DEC 2021 **Published:** APR 2022

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#### **Record 850 of 1000**

**Title:** Effect of External Electric Field on Tetrel Bonding Interactions in (FTF<sub>3</sub>•••FH) Complexes (T = C, Si, Ge, and Sn)

**Author(s):** Ibrahim, MAA (Ibrahim, Mahmoud A. A.); Kamel, AAK (Kamel, Afnan A. K.); Soliman, MES (Soliman, Mahmoud E. S.); Moustafa, MF (Moustafa, Mahmoud F.); Abd El-Mageed, HR (Abd El-Mageed, H. R.); Taha, F (Taha, Fouad); Mohamed, LA (Mohamed, Lamiaa A.); Moussa, NAM (Moussa, Nayra A. M.)

**Source:** ACS OMEGA **Volume:** 6 **Issue:** 39 **Pages:** 25476-25485 **DOI:** 10.1021/acsomega.1c03461 **Early Access Date:** SEP 2021 **Published:** OCT 5 2021

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#### **Record 851 of 1000**

**Title:** Experimental assessment on machinability performance of CNT and DLC coated HSS tools for hard turning

**Author(s):** Chenrayan, V (Chenrayan, Venkatesh); Manivannan, C (Manivannan, Chandru); Velappan, S (Velappan, Selladurai); Shahapurkar, K (Shahapurkar, Kiran); Soudagar, MEM (Soudagar, Manzoore Elahi M.); Khan, TMY (Khan, T. M. Yunus); Elfasakhany, A (Elfasakhany, Ashraf); Kumar, R (Kumar, Ravinder); Pruncu, CI (Pruncu, Catalin I.)

**Source:** DIAMOND AND RELATED MATERIALS **Volume:** 119 **Article Number:** 108568 **DOI:** 10.1016/j.diamond.2021.108568 **Early Access Date:** AUG 2021 **Published:** NOV 2021

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#### **Record 852 of 1000**

**Title:** The Ameliorative Role of *Acacia senegal* Gum against the Oxidative Stress and Genotoxicity Induced by the Radiographic Contrast Medium (Ioxitalamate) in Albino Rats

**Author(s):** El-Garawani, I (El-Garawani, Islam); El-Nabi, SH (Hassab El-Nabi, Sobhy); El Kattan, A (El Kattan, Ahmed); Sallam, A (Sallam, Azza); Elballat, S (Elballat, Sabha); Abou-Ghanima, S (Abou-Ghanima, Shaimaa); El Azab, IH (El Azab, Islam H.); El-Seedi, HR (R. El-Seedi, Hesham); Khalifa, SAM (A. M. Khalifa, Shaden); El-Shamy, S (El-Shamy, Sawsan)

**Source:** ANTIOXIDANTS **Volume:** 10 **Issue:** 2 **Article Number:** 221 **DOI:** 10.3390/antiox10020221 **Published:** FEB 2021

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#### **Record 853 of 1000**

**Title:** Preparation and Characterization of Silymarin-Conjugated Gold Nanoparticles with Enhanced Anti-Fibrotic Therapeutic Effects against Hepatic Fibrosis in Rats: Role of MicroRNAs as Molecular Targets

**Author(s):** Abdullah, AS (Abdullah, Abdullah Saad); El Sayed, IE (El Sayed, Ibrahim El Tantawy); El-Torgoman, AMA (El-Torgoman, Abdel Moneim A.); Alghamdi, NA (Alghamdi, Noweir Ahmad); Ullah, S (Ullah, Sami); Wageh, S (Wageh, S.); Kamel, MA (Kamel, Maher A.)

**Source:** BIOMEDICINES **Volume:** 9 **Issue:** 12 **Article Number:** 1767 **DOI:** 10.3390/biomedicines9121767 **Published:** DEC 2021

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#### **Record 854 of 1000**

**Title:** Inductive effect in Mn-doped ZnO nanoribbon arrays grown on Ni foam: A promising key for boosted capacitive and high specific energy supercapacitors

**Author(s):** Rashid, AR (Rashid, Abdul Rasheed); Abid, AG (Abid, Abdul Ghafoor); Manzoor, S (Manzoor, Sumaira); Mera, A (Mera, Abeer); Al-Muhimeed, TI (Al-Muhimeed, Tahani, I); AlObaid, AA (AlObaid, Abeer A.); Shah, SN (Shah, Syed Nasir); Ashiq, MN (Ashiq, Muhammad Naeem); Imran, M (Imran, Muhammad); Najam-Ul-Haq, M (Najam-Ul-Haq, Muhammad)

**Source:** CERAMICS INTERNATIONAL **Volume:** 47 **Issue:** 20 **Pages:** 28338-28347 **DOI:** 10.1016/j.ceramint.2021.06.251 **Early Access Date:** SEP 2021 **Published:** OCT 15 2021

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#### Record 855 of 1000

**Title:** Determination of in vivo biological activities of *Dodonaea viscosa* flowers against CCL<sub>4</sub> toxicity in albino mice with bioactive compound detection

**Author(s):** Tong, ZW (Tong, Zhao-Wei); Gul, H (Gul, Hina); Awais, M (Awais, Muhammad); Saddick, S (Saddick, Salina); Khan, FS (Khan, Falak Sher); Gulfraz, M (Gulfraz, Muhammad); Afzal, U (Afzal, Umara); Nazir, K (Nazir, Khizar); Malik, MY (Malik, M. Y.); Khan, SU (Khan, Sami Ullah); Khan, MI (Khan, M. Ijaz)

**Source:** SCIENTIFIC REPORTS **Volume:** 11 **Issue:** 1 **Article Number:** 13336 **DOI:** 10.1038/s41598-021-92638-6 **Published:** JUN 25 2021

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#### Record 856 of 1000

**Title:** A comprehensive assessment of heavy metal contamination in road dusts along a hectic national highway of Bangladesh: spatial distribution, sources of contamination, ecological and human health risks

**Author(s):** Kabir, MH (Kabir, Md. Humayun); Kormoker, T (Kormoker, Tapos); Shammi, RS (Shammi, Rifat Shahid); Tusher, TR (Tusher, Tanmoy Roy); Islam, MS (Islam, Md. Saiful); Khan, R (Khan, Rahat); Omor, MZU (Omor, Md. Zohir Uddin); Sarker, ME (Sarker, Md. Eusuf); Yeasmin, M (Yeasmin, Marjana); Idris, AM (Idris, Abubakr M.)

**Source:** TOXIN REVIEWS **Volume:** 41 **Issue:** 3 **Pages:** 860-879 **DOI:** 10.1080/15569543.2021.1952436 **Early Access Date:** AUG 2021 **Published:** JUL 3 2022

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#### Record 857 of 1000

**Title:** Hybrid organoruthenium(II) complexes with thiophene- $\beta$ -diketo-benzazole ligands: Synthesis, optical properties, CT-DNA interactions and anticancer activity

**Author(s):** Ismail, LA (Ismail, Lamia A.); Alfaifi, MY (Alfaifi, Mohammad Y.); Elbehairi, SEI (Elbehairi, Serag Eldin, I); Elshaarawy, RFM (Elshaarawy, Reda F. M.); Gad, EM (Gad, Emad M.); El-Sayed, WN (El-Sayed, W. N.)

**Source:** JOURNAL OF ORGANOMETALLIC CHEMISTRY **Volume:** 949 **Article Number:** 121960 **DOI:** 10.1016/j.jorgchem.2021.12.1960 **Published:** SEP 15 2021

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#### Record 858 of 1000

**Title:** Mitigation of CO<sub>2</sub> emissions by transforming to biofuels: Optimization of biofuels production processes

**Author(s):** Mukhtar, A (Mukhtar, Ahmad); Saqib, S (Saqib, Sidra); Mubashir, M (Mubashir, Muhammad); Ullah, S (Ullah, Sami); Inayat, A (Inayat, Abrar); Mahmood, A (Mahmood, Abid); Ibrahim, M (Ibrahim, Muhammad); Show, PL (Show, Pau Loke)

**Source:** RENEWABLE & SUSTAINABLE ENERGY REVIEWS **Volume:** 150 **Article Number:** 111487 **DOI:** 10.1016/j.rser.2021.111487 **Early Access Date:** JUL 2021 **Published:** OCT 2021

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#### Record 859 of 1000

**Title:** *Cassia fistula* Leaves; UHPLC-QTOF-MS/MS Based Metabolite Profiling and Molecular Docking Insights to Explore Bioactives Role towards Inhibition of Pancreatic Lipase

**Author(s):** Aabideen, ZU (Aabideen, Zain Ul); Mumtaz, MW (Mumtaz, Muhammad Waseem); Akhtar, MT (Akhtar, Muhammad Tayyab); Raza, MA (Raza, Muhammad Asam); Mukhtar, H (Mukhtar, Hamid); Irfan, A (Irfan, Ahmad); Raza, SA (Raza, Syed Ali); Touqeer, T (Touqeer, Tooba); Nadeem, M (Nadeem, Muhammad); Saari, N (Saari, Nazamid)



**Source:** PLANTS-BASEL **Volume:** 10 **Issue:** 7 **Article Number:** 1334 **DOI:** 10.3390/plants10071334 **Published:** JUL 2021

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### **Record 860 of 1000**

**Title:** Selective synthesis of triacetyl glyceride biofuel additive *via* acetylation of glycerol over NiO-supported TiO<sub>2</sub> catalyst enhanced by non-microwave instant heating

**Author(s):** Appaturi, JN (Appaturi, Jimmy Nelson); Ramalingam, RJ (Ramalingam, R. Jothi); Selvaraj, M (Selvaraj, Manickam); Chia, SP (Chia, Stephen); Tan, SH (Tan, Soon Huat); Khoerunnisa, F (Khoerunnisa, Fitri); Ling, TC (Ling, Tau Chuan); Ng, EP (Ng, Eng-Poh)

**Source:** APPLIED SURFACE SCIENCE **Volume:** 545 **Article Number:** 149017 **DOI:** 10.1016/j.apsusc.2021.149017 **Early Access Date:** JAN 2021 **Published:** APR 15 2021

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### **Record 861 of 1000**

**Title:** Electronic and optical properties of nitrogen and sulfur doped strontium titanate as efficient photocatalyst for water splitting: A DFT study

**Author(s):** Rehman, JU (Rehman, Jalil Ur); Rehman, MA (Rehman, M. Awais); Tahir, MB (Tahir, M. Bilal); Hussain, A (Hussain, Abid); Iqbal, T (Iqbal, Tahir); Sagir, M (Sagir, Muhammad); Usman, M (Usman, Muhammad); Kebaili, I (Kebaili, Imen); Alrobei, H (Alrobei, Hussein); Alzaid, M (Alzaid, Meshal)

**Source:** INTERNATIONAL JOURNAL OF HYDROGEN ENERGY **Volume:** 47 **Issue:** 3 **Pages:** 1605-1612 **DOI:** 10.1016/j.ijhydene.2021.10.133 **Early Access Date:** DEC 2021 **Published:** JAN 8 2022

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### **Record 862 of 1000**

**Title:** Identification of 3-((1-(Benzyl(2-hydroxy-2-phenylethyl)amino)-1-oxo-3-phenylpropan-2-yl)carbamoyl)pyrazine-2-carboxylic Acid as a Potential Inhibitor of Non-Nucleosidase Reverse Transcriptase Inhibitors through InSilico Ligand- and Structure-Based Approaches

**Author(s):** Mathpal, D (Mathpal, Deepti); Almeleebia, TM (Almeleebia, Tahani M.); Alshahrani, KM (Alshahrani, Kholoud M.); Alshahrani, MY (Alshahrani, Mohammad Y.); Ahmad, I (Ahmad, Irfan); Asiri, M (Asiri, Mohammed); Kamal, M (Kamal, Mehnaz); Jawaid, T (Jawaid, Talha); Srivastava, SP (Srivastava, Swayam Prakash); Saeed, M (Saeed, Mohd); Balaramnavar, VM (Balaramnavar, Vishal M.)

**Source:** MOLECULES **Volume:** 26 **Issue:** 17 **Article Number:** 5262 **DOI:** 10.3390/molecules26175262 **Published:** SEP 2021

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### **Record 863 of 1000**

**Title:** Synthesis and Molecular Docking Studies of New Dispiropyrrolidines on West Nile Virus NS2B-NS3 Protease

**Author(s):** Yusoff, NM (Yusoff, Nadia Mohamed); Osman, H (Osman, Hasnah); Hassan, MZ (Hassan, Mohd. Zaheen); Ali, MA (Ali, Mohamed Ashraf); Yoon, YK (Yoon, Yeong Keng); Kamarulzaman, EE (Kamarulzaman, Ezatul Ezleen); Abd Ghani, MS (Abd Ghani, Muhammad Solehin); Supratman, U (Supratman, Unang); Taib, MNAM (Taib, Mohamad Nurul Azmi Mohamad)

**Source:** INDONESIAN JOURNAL OF CHEMISTRY **Volume:** 21 **Issue:** 6 **Pages:** 1431-1442 **DOI:** 10.22146/ijc.66017 **Published:** DEC 2021

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### **Record 864 of 1000**

**Title:** Recent Advances on MXene-Based Electrocatalysts toward Oxygen Reduction Reaction: A Focused Review

**Author(s):** Peera, SG (Peera, Shaik Gouse); Liu, C (Liu, Chao); Sahu, AK (Sahu, Akhila Kumar); Selvaraj, M (Selvaraj, Manickam); Rao, MC (Rao, M. C.); Lee, TG (Lee, Tae Gwan); Koutavarapu, R (Koutavarapu, Ravindranadh); Shim, J (Shim, Jaesool); Singh, L (Singh, Lakhveer)

**Source:** ADVANCED MATERIALS INTERFACES **Volume:** 8 **Issue:** 23 **Article Number:** 2100975 **DOI:** 10.1002/admi.202100975 **Early Access Date:** NOV 2021 **Published:** DEC 2021

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### **Record 865 of 1000**

**Title:** Facile construction of novel ZnO and TiO<sub>2</sub> combined g-C<sub>3</sub>N<sub>4</sub> nanocomposite for superior visible-light photocatalytic organic pollutant degradation

**Author(s):** Rajendran, R (Rajendran, Renji); Vignesh, S (Vignesh, Shanmugam); Sasireka, A (Sasireka, Asokan); Sundar, JK (Sundar, Jeyaperumal Kalyana); Manickam, S (Manickam, Srinivasan); Chandrasekaran, S (Chandrasekaran, Sharmila); Shkir, M (Shkir, Mohd); AlFaify, S (AlFaify, S.); Palanivel, B (Palanivel, Baskaran); Arumugam, E (Arumugam, Elangovan); Vairamuthu, R (Vairamuthu, Raj)

**Source:** MATERIALS TECHNOLOGY **Volume:** 37 **Issue:** 11 **Pages:** 1651-1664 **DOI:** 10.1080/10667857.2021.1968232 **Early Access Date:** AUG 2021 **Published:** SEP 19 2022

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### Record 866 of 1000

**Title:** Exploration of carbonic anhydrase inhibition of bioactive metabolites from *Pistacia integerrima* by molecular docking and first-principles investigations

**Author(s):** Irfan, A (Irfan, Ahmad); Imran, M (Imran, Muhammad); Sumrra, SH (Sumrra, Sajjad H.); Qaisar, MN (Qaisar, Muhammad Naeem); Khalid, N (Khalid, Noreen); Basra, MAR (Basra, Muhammad Asim Raza); Shah, AT (Shah, Asma Tufail); Hussien, M (Hussien, Mohamed); Assiri, MA (Assiri, Mohammed A.); Al-Sehemi, AG (Al-Sehemi, Abdullah G.)

**Source:** JOURNAL OF SAUDI CHEMICAL SOCIETY **Volume:** 25 **Issue:** 10 **Article Number:** 101324 **DOI:** 10.1016/j.jscs.2021.101324 **Early Access Date:** AUG 2021 **Published:** OCT 2021

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### Record 867 of 1000

**Title:** Glycerol Conversion to Solketal: Catalyst and Reactor Design, and Factors Affecting the Yield

**Author(s):** Zahid, I (Zahid, Imtisal); Ayoub, M (Ayoub, Muhammad); Abdullah, BB (Abdullah, Bawadi B.); Mukhtar, A (Mukhtar, Ahmad); Saqib, S (Saqib, Sidra); Rafiq, S (Rafiq, Sikander); Ullah, S (Ullah, Sami); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Farrukh, S (Farrukh, Sarah); Danish, M (Danish, Mohammed)

**Source:** CHEMBIOENG REVIEWS **Volume:** 8 **Issue:** 3 **Pages:** 227-238 **DOI:** 10.1002/cben.202000015 **Early Access Date:** APR 2021 **Published:** JUN 2021

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### Record 868 of 1000

**Title:** Spectroscopic and Attenuation Shielding Studies on B<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub>-LiF- ZnO-TiO<sub>2</sub> Glasses

**Author(s):** Shaaban, KS (Shaaban, Kh S.); Boukhris, I (Boukhris, Imed); Kebaili, I (Kebaili, Imen); Al-Buriahi, MS (Al-Buriahi, M. S.)

**Source:** SILICON **Volume:** 14 **Issue:** 6 **Pages:** 3091-3100 **DOI:** 10.1007/s12633-021-01080-w **Early Access Date:** APR 2021 **Published:** APR 2022

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### Record 869 of 1000

**Title:** Linear and nonlinear optical characteristics of manganese phthalocyanine chloride/polyacetate sheet: Towards flexible optoelectronic devices

**Author(s):** Darwish, AAA (Darwish, A. A. A.); Ali, HAM (Ali, H. A. M.); El-Zaidia, EFM (El-Zaidia, E. F. M.); Alfadhli, S (Alfadhli, S.); El-Bashir, BO (El-Bashir, B. O.); Alatawi, RAS (Alatawi, Raedah A. S.); Eisa, AAA (Eisa, Amir A. A.); Yahia, IS (Yahia, I. S.)

**Source:** OPTICAL MATERIALS **Volume:** 114 **Article Number:** 110988 **DOI:** 10.1016/j.optmat.2021.110988 **Early Access Date:** MAR 2021 **Published:** APR 2021

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### Record 870 of 1000

**Title:** Dietary Phytochemicals in Cancer Signalling Pathways: Role of miRNA targeting

**Author(s):** Shoaib, A (Shoaib, Ambreen); Tabish, M (Tabish, Mohammad); Ali, S (Ali, Shafat); Arafah, A (Arafah, Azher); Wahab, S (Wahab, Shadma); Almarshad, FM (Almarshad, Feras M.); Rashid, S (Rashid, Summya); Rehman, MU (Rehman, Muneeb U.)

**Source:** CURRENT MEDICINAL CHEMISTRY **Volume:** 28 **Issue:** 39 **Pages:** 8036-8067 **DOI:** 10.2174/0929867328666210420101605 **Published:** 2021

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### Record 871 of 1000

**Title:** Non-uniform heat source/sink applications for the radiative flow of Brinkman micropolar nanofluid with microorganisms

**Author(s):** Al-Khaled, K (Al-Khaled, Kamel); Khan, MI (Khan, M. Ijaz); Khan, SU (Khan, Sami Ullah); Malik, MY (Malik, M. Y.); Qayyum, S (Qayyum, Sumaira)

**Source:** COMPUTATIONAL AND THEORETICAL CHEMISTRY **Volume:** 1203 **Article Number:** 113330 **DOI:** 10.1016/j.comptc.2021.113330 **Early Access Date:** JUL 2021 **Published:** SEP 2021

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#### **Record 872 of 1000**

**Title:** First-principles calculations of structural, electronic, magnetic, thermoelectric, and thermodynamic properties of BaMn<sub>2</sub>P<sub>2</sub> in the Anti and ferromagnetic phase

**Author(s):** Bibi, R (Bibi, Robeen); Zada, Z (Zada, Zeshan); Khan, AA (Khan, Abdul Ahad); Azam, S (Azam, Sikander); Irfan, M (Irfan, Muhammad); Ismail, M (Ismail, Muhammad); Ul Haq, B (Ul Haq, Bakhtiar); Ahmad, M (Ahmad, Manzoor); Khan, SA (Khan, Saleem Ayaz)

**Source:** JOURNAL OF SOLID STATE CHEMISTRY **Volume:** 302 **Article Number:** 122388 **DOI:** 10.1016/j.jssc.2021.122388 **Early Access Date:** JUL 2021 **Published:** OCT 2021

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#### **Record 873 of 1000**

**Title:** Analysis of non-Newtonian magnetic Casson blood flow in an inclined stenosed artery using Caputo-Fabrizio fractional derivatives

**Author(s):** Jamil, DF (Jamil, Dzuliana Fatin); Saleem, S (Saleem, S.); Roslan, R (Roslan, Rozaini); Al-Mubaddel, FS (Al-Mubaddel, Fahad S.); Rahimi-Gorji, M (Rahimi-Gorji, Mohammad); Issakhov, A (Issakhov, Alibek); Din, SU (Din, Salah Ud)

**Source:** COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE **Volume:** 203 **Article Number:** 106044 **DOI:** 10.1016/j.cmpb.2021.106044 **Early Access Date:** MAR 2021 **Published:** MAY 2021

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#### **Record 874 of 1000**

**Title:** Macro marine litter survey of sandy beaches along the Cox's Bazar Coast of Bay of Bengal, Bangladesh: Land-based sources of solid litter pollution

**Author(s):** Rakib, MRJ (Rakib, Md Refat Jahan); Ertas, A (Ertas, Alperen); Walker, TR (Walker, Tony R.); Rule, MJ (Rule, Michael J.); Khandaker, MU (Khandaker, Mayeen Uddin); Idris, AM (Idris, Abubakr M.)

**Source:** MARINE POLLUTION BULLETIN **Volume:** 174 **Article Number:** 113246 **DOI:** 10.1016/j.marpolbul.2021.113246 **Early Access Date:** DEC 2021 **Published:** JAN 2022

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#### **Record 875 of 1000**

**Title:** Wet chemical development of CuO/GO nanocomposites: its augmented antimicrobial, antioxidant, and anticancerous activity

**Author(s):** Biswas, K (Biswas, Kunal); Mohanta, YK (Mohanta, Yugal Kishore); Mishra, AK (Mishra, Awdhesh Kumar); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Pannipara, M (Pannipara, Mehboobali); Sett, A (Sett, Avik); Bratovcic, A (Bratovcic, Amra); De, D (De, Debashis); Panda, BP (Panda, Bibhu Prasad); Avula, SK (Avula, Satya Kumar); Mohanta, TK (Mohanta, Tapan Kumar); Al-Harrasi, A (Al-Harrasi, Ahmed)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN MEDICINE **Volume:** 32 **Issue:** 12 **Article Number:** 151 **DOI:** 10.1007/s10856-021-06612-9 **Published:** DEC 2021

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#### **Record 876 of 1000**

**Title:** Ag nanoparticles immobilized on guanidine modified-KIT-5 mesoporous nanostructure: Evaluation of its catalytic activity for synthesis of propargylamines and investigation of its antioxidant and anti-lung cancer effects

**Author(s):** Wang, XF (Wang, Xifang); Liu, ZH (Liu, Zhihong); Bani-Fwaz, MZ (Bani-Fwaz, Mutasem Z.); Marzouki, R (Marzouki, Riadh); Ali, IH (Ali, Ismat H.); El-kott, AF (El-kott, Attalla F.); Alhomid, FA (Alhomid, Fatimah A.)

**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 15 **Issue:** 2 **Article Number:** 103548 **DOI:** 10.1016/j.arabjc.2021.103548 **Early Access Date:** NOV 2021 **Published:** FEB 2022

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#### **Record 877 of 1000**

**Title:** Enhanced Nanofiltration Process of Thin Film Composite Membrane Using Dodecyl Phenol Ethoxylate and Oleic Acid Ethoxylate for Oilfield Calcite Scale Control

**Author(s):** Al-Mhyawi, SR (Al-Mhyawi, Saedah R.); Mubarak, MF (Mubarak, Mahmoud F.); Hosny, R (Hosny, Rasha); Amine, M (Amine, Manal); Abdelraheem, OH (Abdelraheem, Omnia H.); Zayed, MA (Zayed, M. A.); Ragab, AH (Ragab, Ahmed H.); El Shahawy, A (El Shahawy, Abeer)

**Source:** MEMBRANES **Volume:** 11 **Issue:** 11 **Article Number:** 855 **DOI:** 10.3390/membranes11110855 **Published:** NOV 2021

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### Record 878 of 1000

**Title:** Mechanical, Fracture, and Microstructural Assessment of Carbon-Fiber-Reinforced Geopolymer Composites Containing Na<sub>2</sub>O

**Author(s):** Rashedi, A (Rashedi, Ahmad); Marzouki, R (Marzouki, Riadh); Raza, A (Raza, Ali); Rawi, NFM (Rawi, Nurul Fazita Mohammad); Naveen, J (Naveen, J.)

**Source:** POLYMERS **Volume:** 13 **Issue:** 21 **Article Number:** 3852 **DOI:** 10.3390/polym13213852 **Published:** NOV 2021

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### Record 879 of 1000

**Title:** Thermo-economic analysis of working fluids for a ground source heat pump for domestic uses

**Author(s):** Pishkariahmadabad, M (Pishkariahmadabad, Mohammadreza); Ayed, H (Ayed, Hamdi); Xia, WF (Xia, Wei-Feng); Aryanfar, Y (Aryanfar, Yashar); Almutlaq, AM (Almutlaq, Abdulaziz M.); Bouallegue, B (Bouallegue, Belgacem)

**Source:** CASE STUDIES IN THERMAL ENGINEERING **Volume:** 27 **Article Number:** 101330 **DOI:** 10.1016/j.csite.2021.101330 **Early Access Date:** AUG 2021 **Published:** OCT 2021

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### Record 880 of 1000

**Title:** Thermal and entropy analyses on buoyancy-driven flow of nanofluid inside a porous enclosure with two square cylinders: Finite element method

**Author(s):** Dogonchi, AS (Dogonchi, A. Sattar); Mishra, SR (Mishra, S. R.); Chamkha, AJ (Chamkha, Ali J.); Ghodrat, M (Ghodrat, M.); Elmasry, Y (Elmasry, Yasser); Alhumade, H (Alhumade, Hesham)

**Source:** CASE STUDIES IN THERMAL ENGINEERING **Volume:** 27 **Article Number:** 101298 **DOI:** 10.1016/j.csite.2021.101298 **Early Access Date:** AUG 2021 **Published:** OCT 2021

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### Record 881 of 1000

**Title:** Structural and computational analyses of a 2-propanolammonium-chlorocadmate(II) assembly: Pivotal role of hydrogen bonding and H-H interactions

**Author(s):** Hajji, M (Hajji, Melek); Al-Otaibi, JS (Al-Otaibi, Jamelah S.); Belkhiria, M (Belkhiria, Marwa); Dhifaoui, S (Dhifaoui, Selma); Habib, MA (Habib, Mohamed A.); Elmgirhi, SMH (Elmgirhi, Salima Moftah H.); Mtiraoui, H (Mtiraoui, Hasan); Bel-Hadj-Tahar, R (Bel-Hadj-Tahar, Radhouane); Msaddek, M (Msaddek, Moncef); Guerfel, T (Guerfel, Taha)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1223 **Article Number:** 128998 **DOI:** 10.1016/j.molstruc.2020.128998 **Published:** JAN 5 2021

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### Record 882 of 1000

**Title:** Hierarchical MnS@MoS<sub>2</sub> architectures on tea bag filter paper for flexible, sensitive, and selective non-enzymatic hydrogen peroxide sensors

**Author(s):** Priyanga, N (Priyanga, N.); Raja, AS (Raja, A. Sahaya); Pannipara, M (Pannipara, Mehboobali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Phang, SM (Phang, Siew-Moi); Xia, Y (Xia, Yang); Tsai, SY (Tsai, Shu-Yi); Annaraj, J (Annaraj, J.); Sambathkumar, S (Sambathkumar, S.); Kumar, GG (Kumar, G. Gnana)

**Source:** JOURNAL OF ALLOYS AND COMPOUNDS **Volume:** 855 **Article Number:** 157103 **DOI:** 10.1016/j.jallcom.2020.157103 **Part:** 1 **Published:** FEB 25 2021

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### Record 883 of 1000

**Title:** Application of Green Synthesized MMT/Ag Nanocomposite for Removal of Methylene Blue from Aqueous Solution

**Author(s):** Choudhary, N (Choudhary, Nisha); Yadav, VK (Yadav, Virendra Kumar); Yadav, KK (Yadav, Krishna Kumar); Almohana, AI (Almohana, Abdulaziz Ibrahim); Almojil, SF (Almojil, Sattam Fahad); Gnanamoorthy, G

(Gnanamoorthy, Govhindhan); Kim, D (Kim, Do-Hyeon); Islam, S (Islam, Saiful); Kumar, P (Kumar, Pankaj); Jeon, BH (Jeon, Byong-Hun)

**Source:** WATER **Volume:** 13 **Issue:** 22 **Article Number:** 3206 **DOI:** 10.3390/w13223206 **Published:** NOV 2021

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#### Record 884 of 1000

**Title:** Plasmon-Based Label-Free Biosensor Using Gold Nanosphere for Dengue Detection

**Author(s):** Mahmood, HZ (Mahmood, Hafiz Zeeshan); Jilani, A (Jilani, Asim); Farooq, S (Farooq, Sajid); Javed, Y (Javed, Yasir); Jamil, Y (Jamil, Yasir); Iqbal, J (Iqbal, Javed); Ullah, S (Ullah, Sami); Wageh, S (Wageh, Swelm)

**Source:** CRYSTALS **Volume:** 11 **Issue:** 11 **Article Number:** 1340 **DOI:** 10.3390/cryst11111340 **Published:** NOV 2021

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#### Record 885 of 1000

**Title:** NLO potential exploration for D- $\pi$ -A heterocyclic organic compounds by incorporation of various  $\pi$ -linkers and acceptor units

**Author(s):** Khalid, M (Khalid, Muhammad); Khan, MU (Khan, Muhammad Usman); Shafiq, I (Shafiq, Iqra); Hussain, R (Hussain, Riaz); Mahmood, K (Mahmood, Khalid); Hussain, A (Hussain, Ajaz); Jawaria, R (Jawaria, Rifat); Hussain, A (Hussain, Amjad); Imran, M (Imran, Muhammad); Assiri, MA (Assiri, Mohammed A.); Ali, A (Ali, Akbar); Rehman, MFU (Ur Rehman, Muhammad Fayyaz); Sun, KY (Sun, Keyu); Li, YZ (Li, Yuzhen)

**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 14 **Issue:** 8 **Article Number:** 103295 **DOI:** 10.1016/j.arabjc.2021.103295 **Early Access Date:** JUL 2021 **Published:** AUG 2021

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#### Record 886 of 1000

**Title:** Optoelectronic and thermoelectric properties of double perovskite Rb<sub>2</sub>PtX<sub>6</sub> (X = Cl, Br) for energy harvesting: First-principles investigations

**Author(s):** Mahmood, Q (Mahmood, Q.); Hassan, M (Hassan, M.); Flemban, TH (Flemban, Tahani H.); Ul Haq, B (Ul Haq, Bakhtiar); AlFaify, S (AlFaify, S.); Kattan, NA (Kattan, Nessrin A.); Laref, A (Laref, A.)

**Source:** JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS **Volume:** 148 **Article Number:** 109665 **DOI:** 10.1016/j.jpcs.2020.109665 **Published:** JAN 2021

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#### Record 887 of 1000

**Title:** ZnO coupled F-doped g-C<sub>3</sub>N<sub>4</sub>: Z-scheme heterojunction for visible-light driven photocatalytic degradation reaction

**Author(s):** Kalisamy, P (Kalisamy, Periyathambi); Hossain, MS (Hossain, Md Shahadat); Macadangdang, RR (Macadangdang, Romulo R., Jr.); Madhubala, V (Madhubala, V); Palanivel, B (Palanivel, Baskaran); Venkatachalam, M (Venkatachalam, Munusamy); Massoud, EE (Massoud, Ehab El Sayed); Sreedevi, G (Sreedevi, Gedi)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 135 **Article Number:** 109102 **DOI:** 10.1016/j.inoche.2021.109102 **Early Access Date:** DEC 2021 **Published:** JAN 2022

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#### Record 888 of 1000

**Title:** Surfactant effects on structural, optical and morphological characteristics of microwave irradiated CdO nanostructures

**Author(s):** Prakash, T (Prakash, T.); Kumar, ER (Kumar, E. Ranjith); Murugesan, D (Murugesan, D.); Alkhamis, K (Alkhamis, Kholood); Al-Ahmed, ZA (Al-Ahmed, Zehba A.); Saad, F (Saad, Fawaz); Mersal, GAM (Mersal, Gaber A. M.); El-Metwaly, NM (El-Metwaly, Nashwa M.)

**Source:** CERAMICS INTERNATIONAL **Volume:** 47 **Issue:** 19 **Pages:** 27274-27284 **DOI:** 10.1016/j.ceramint.2021.06.149 **Early Access Date:** AUG 2021 **Published:** OCT 1 2021

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#### Record 889 of 1000

**Title:** Zinc Ferrite Nanostructure/Multi-Walled Carbon Nanotubes (ZFO/MWCNTs) Nanocomposite as Sensor for Homovanillic Acid Detection in Urine Samples for Cancer Therapy Monitoring

**Author(s):** Abu Al-Ola, K (Abu Al-Ola, Khulood); Alfi, AA (Alfi, Alia Abdulaziz); Hameed, A (Hameed, Ahmed); Munshi, AM (Munshi, Alaa M.); Al-Ahmed, ZA (Al-Ahmed, Zehba A.); Keshk, AA (Keshk, Ali A.); Khalifa, ME (Khalifa, Mohamed E.); El-Metwaly, NM (El-Metwaly, Nashwa M.)

**Source:** INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE **Volume:** 16 **Issue:** 8 **Article Number:** 210838 **DOI:** 10.20964/2021.08.09 **Published:** AUG 2021

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#### **Record 890 of 1000**

**Title:** Numerical, Approximate Solutions, and Optimal Control on the Deathly Lassa Hemorrhagic Fever Disease in Pregnant Women

**Author(s):** Higazy, M (Higazy, M.); El-Mesady, A (El-Mesady, A.); Mahdy, AMS (Mahdy, A. M. S.); Ullah, S (Ullah, Sami); Al-Ghamdi, A (Al-Ghamdi, A.)

**Source:** JOURNAL OF FUNCTION SPACES **Volume:** 2021 **Article Number:** 2444920 **DOI:** 10.1155/2021/2444920 **Published:** DEC 15 2021

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#### **Record 891 of 1000**

**Title:** MFC-driven H<sub>2</sub>S electro-oxidation based on Fe nanoparticles anchored on carbon aerogel-ZIF-8: a combined experimental and DFT study

**Author(s):** Sanaei, D (Sanaei, Daryoush); Massoudinejad, M (Massoudinejad, Mohamadreza); Javed, MS (Javed, Muhammad Sufyan); Zarandi, SM (Zarandi, Saeed Motesaddi); Rezaee, A (Rezaee, Abbas); Sharifan, H (Sharifan, Hamidreza); Imran, M (Imran, Muhammad)

**Source:** JOURNAL OF MATERIALS CHEMISTRY C **Volume:** 10 **Issue:** 4 **Pages:** 1421-1435 **DOI:** 10.1039/d1tc03877j **Early Access Date:** DEC 2021 **Published:** JAN 27 2022

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#### **Record 892 of 1000**

**Title:** Unusual chalcogen ••• chalcogen interactions in like ••• like and unlike YQCQY ••• YQCQY complexes (Y = O, S, and Se)

**Author(s):** Ibrahim, MAA (Ibrahim, Mahmoud A. A.); Shehata, MNI (Shehata, Mohammed N., I); Soliman, MES (Soliman, Mahmoud E. S.); Moustafa, MF (Moustafa, Mahmoud F.); Abd El-Mageed, HR (Abd El-Mageed, H. R.); Moussa, NAM (Moussa, Nayra A. M.)

**Source:** PHYSICAL CHEMISTRY CHEMICAL PHYSICS **Volume:** 24 **Issue:** 5 **Pages:** 3386-3399 **DOI:** 10.1039/d1cp02706a **Early Access Date:** NOV 2021 **Published:** FEB 2 2022

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#### **Record 893 of 1000**

**Title:** Gastroprotection against Rat Ulcers by *Nephthea* Sterol Derivative

**Author(s):** Mohamed, TA (Mohamed, Tarik A.); Elshamy, AI (Elshamy, Abdelsamed, I); Ibrahim, MAA (Ibrahim, Mahmoud A. A.); Atia, MAM (Atia, Mohamed A. M.); Ahmed, RF (Ahmed, Rania F.); Ali, SK (Ali, Sherin K.); Mahdy, KA (Mahdy, Karam A.); Alshammari, SO (Alshammari, Shifaa O.); Al-Abd, AM (Al-Abd, Ahmed M.); Moustafa, MF (Moustafa, Mahmoud F.); Farrag, ARH (Farrag, Abdel Razik H.); Hegazy, MEF (Hegazy, Mohamed-Elamir F.)

**Source:** BIOMOLECULES **Volume:** 11 **Issue:** 8 **Article Number:** 1247 **DOI:** 10.3390/biom11081247 **Published:** AUG 2021

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#### **Record 894 of 1000**

**Title:** Synthesis, physical properties, and gamma-ray shielding capacity of different Ni-based super alloys

**Author(s):** Ekinci, N (Ekinci, N.); El-Agawany, FI (El-Agawany, F., I); Mahmoud, KA (Mahmoud, K. A.); Karabulut, A (Karabulut, A.); Aygün, B (Aygün, Bunyamin); Yousef, E (Yousef, E.); Rammah, YS (Rammah, Y. S.)

**Source:** RADIATION PHYSICS AND CHEMISTRY **Volume:** 186 **Article Number:** 109483 **DOI:** 10.1016/j.radphyschem.2021.109483 **Early Access Date:** MAY 2021 **Published:** SEP 2021

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#### **Record 895 of 1000**

**Title:** RETRACTED: Deep placement of nitrogen fertilizer improves yield, nitrogen use efficiency and economic returns of transplanted fine rice (Retracted Article)

**Author(s):** Khalofah, A (Khalofah, Ahlam); Khan, MI (Khan, Muhammad Ifnan); Arif, M (Arif, Muhammad); Hussain, A (Hussain, Ansar); Ullah, R (Ullah, Rehmat); Irfan, M (Irfan, Muhammad); Mahpara, S (Mahpara, Shahzadi); Shah, RU (Shah, Rahmat Ullah); Ansari, MJ (Ansari, Mohammad Javed); Kintl, A (Kintl, Antonin); Brtnicky, M (Brtnicky, Martin); Danish, S (Danish, Subhan); Datta, R (Datta, Rahul)

**Source:** PLOS ONE **Volume:** 16 **Issue:** 2 **Article Number:** e0247529 **DOI:** 10.1371/journal.pone.0247529 **Published:** FEB 25 2021

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### Record 896 of 1000

**Title:** A joint experimental and theoretical investigation of the corrosion inhibition behavior and mechanism of hydrazone derivatives for mild steel in HCl solution

**Author(s):** Chafiq, M (Chafiq, Maryam); Chaouiki, A (Chaouiki, Abdelkarim); Al-Hadeethi, MR (Al-Hadeethi, Mustafa R.); Salghi, R (Salghi, Rachid); Ismat, HA (Ismat, Ali H.); Shaaban, KM (Shaaban, Mohamed K.); Chung, IM (Chung, Ill-Min)

**Source:** COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS **Volume:** 610 **Article Number:** 125744 **DOI:** 10.1016/j.colsurfa.2020.125744 **Published:** FEB 5 2021

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### Record 897 of 1000

**Title:** Investigating the Antioxidant and Cytocompatibility of *Mimusops elengi* Linn Extract over Human Gingival Fibroblast Cells

**Author(s):** Bhavikatti, SK (Bhavikatti, Shaeesta Khaleelahmed); Karobari, MI (Karobari, Mohmed Isaqali); Zainuddin, SLA (Zainuddin, Siti Lailatul Akmar); Marya, A (Marya, Anand); Nadaf, SJ (Nadaf, Sameer J.); Sawant, VJ (Sawant, Vijay J.); Patil, SB (Patil, Sandeep B.); Venugopal, A (Venugopal, Adith); Messina, P (Messina, Pietro); Scardina, GA (Scardina, Giuseppe Alessandro)

**Source:** INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH **Volume:** 18 **Issue:** 13 **Article Number:** 7162 **DOI:** 10.3390/ijerph18137162 **Published:** JUL 2021

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### Record 898 of 1000

**Title:** Enhancing the inhibition and adsorption performance of SABIC iron corrosion in sulfuric acid by expired vitamins. Experimental and computational approach

**Author(s):** Abdallah, M (Abdallah, M.); Soliman, KA (Soliman, K. A.); Al-Gorair, AS (Al-Gorair, Arej S.); Al Bahir, A (Al Bahir, A.); Al-Fahemi, JH (Al-Fahemi, Jabir H.); Motawea, MS (Motawea, M. S.); Al-Juaid, SS (Al-Juaid, Salih S.)

**Source:** RSC ADVANCES **Volume:** 11 **Issue:** 28 **Pages:** 17092-17107 **DOI:** 10.1039/d1ra01010g **Published:** MAY 20 2021

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### Record 899 of 1000

**Title:** The photo-electrical performance of the novel CuAlMnFe shape memory alloy film in the diode application

**Author(s):** Canbay, CA (Canbay, C. Aksu); Tataroglu, A (Tataroglu, A.); Dere, A (Dere, A.); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Karabulut, A (Karabulut, Abdulkerim); Bektas, A (Bektas, A.); Al-Ghamdi, AA (Al-Ghamdi, Ahmed A.); Yakuphanoglu, F (Yakuphanoglu, F.)

**Source:** MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS **Volume:** 264 **Article Number:** 114931 **DOI:** 10.1016/j.mseb.2020.114931 **Published:** FEB 2021

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### Record 900 of 1000

**Title:** Mathematical modeling and numerical solution of cross-flow of non-Newtonian fluid: Effects of viscous dissipation and slip boundary conditions

**Author(s):** Hussain, F (Hussain, Farooq); Saleem, S (Saleem, S.); Nazeer, M (Nazeer, Mubbashar); Al-Mubaddel, FS (Al-Mubaddel, Fahad S.); Ali, A (Ali, Aamir); Saleem, A (Saleem, Adila); Saleem, M (Saleem, Maira)

**Source:** ZAMM-ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND MECHANIK **Volume:** 102 **Issue:** 3 **Article Number:** e202100130 **DOI:** 10.1002/zamm.202100130 **Early Access Date:** NOV 2021 **Published:** MAR 2022

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**Record 901 of 1000**

**Title:** Voltammetric Behavior of Acidic Catecholamine Metabolites in Presence of Cationic Surfactants

**Author(s):** Al-nami, SY (Al-nami, Samar Y.); Azher, OA (Azher, Omer A.); Aljuhani, E (Aljuhani, Enas); Shah, R (Shah, Reem); Al-Qahtani, SD (Al-Qahtani, Salhah D.); Khalifa, ME (Khalifa, Mohamed E.); El-Metwaly, NM (El-Metwaly, Nashwa M.)

**Source:** JOURNAL OF THE ELECTROCHEMICAL SOCIETY **Volume:** 168 **Issue:** 10 **Article Number:** 106507 **DOI:** 10.1149/1945-7111/ac2dce **Published:** OCT 1 2021

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**Record 902 of 1000**

**Title:** A Review on Battery Modelling Techniques

**Author(s):** Tamilselvi, S (Tamilselvi, S.); Gunasundari, S (Gunasundari, S.); Karuppiah, N (Karuppiah, N.); Rk, AR (Rk, Abdul Razak); Madhusudan, S (Madhusudan, S.); Nagarajan, VM (Nagarajan, Vikas Madhav); Sathish, T (Sathish, T.); Shamim, MZM (Shamim, Mohammed Zubair M.); Saleel, CA (Saleel, C. Ahamed); Afzal, A (Afzal, Asif)

**Source:** SUSTAINABILITY **Volume:** 13 **Issue:** 18 **Article Number:** 10042 **DOI:** 10.3390/su131810042 **Published:** SEP 2021

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**Record 903 of 1000**

**Title:** Efficient tuning of small acceptor chromophores with A<sub>1</sub>- $\pi$ -A<sub>2</sub>- $\pi$ -A<sub>1</sub> configuration for high efficacy of organic solar cells *via* end group manipulation

**Author(s):** Khalid, M (Khalid, Muhammad); Shafiq, I (Shafiq, Iqra); Zhu, MY (Zhu, Meiyang); Khan, MU (Khan, Muhammad Usman); Shafiq, Z (Shafiq, Zahid); Iqbal, J (Iqbal, Javed); Alam, MM (Alam, Mohammed Mujahid); Braga, AAC (Braga, Ataulpa Albert Carmo); Imran, M (Imran, Muhammad)

**Source:** JOURNAL OF SAUDI CHEMICAL SOCIETY **Volume:** 25 **Issue:** 8 **Article Number:** 101305 **DOI:** 10.1016/j.jscs.2021.101305 **Early Access Date:** JUL 2021 **Published:** AUG 2021

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**Record 904 of 1000**

**Title:** Extended anisotropic phonon dispersion and optical properties of two-dimensional ternary SnSSe

**Author(s):** Usman, M (Usman, Muhammad); Muhammad, Z (Muhammad, Zahir); Dastgeer, G (Dastgeer, Ghulam); Zawadzka, N (Zawadzka, Natalia); Niu, YJ (Niu, Yijie); Imran, M (Imran, Muhammad); Molas, MR (Molas, Maciej R.); Rui, H (Rui, Hu)

**Source:** INORGANIC CHEMISTRY FRONTIERS **Volume:** 9 **Issue:** 2 **Pages:** 294-301 **DOI:** 10.1039/d1qi01141c **Early Access Date:** OCT 2021 **Published:** JAN 18 2022

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**Record 905 of 1000**

**Title:** Effect of the decrease of Pb concentration on the properties of pentarnary mixed-halide perovskites CsPb<sub>8-x</sub>Sn<sub>x</sub>IBr<sub>2</sub> and CsPb<sub>8-x</sub>Sn<sub>x</sub>I<sub>2</sub>Br (1≤x≤7) for solar-cell applications: A DFT study

**Author(s):** Ahmed, H (Ahmed, Hussain); Jalil, A (Jalil, Abdul); Ilyas, SZ (Ilyas, Syed Zafar); Agathopoulos, S (Agathopoulos, Simeon); Ahmed, I (Ahmed, Ishaq); Zhao, T (Zhao, Tingkai); Dahshan, A (Dahshan, A.)

**Source:** JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS **Volume:** 161 **Article Number:** 110429 **DOI:** 10.1016/j.jpcs.2021.110429 **Early Access Date:** OCT 2021 **Published:** FEB 2022

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**Record 906 of 1000**

**Title:** Enhanced adsorption of CO<sub>2</sub> on cellulose and chitosan surface by H<sub>2</sub>O Co-adsorption

**Author(s):** Mersal, GAM (Mersal, Gaber A. M.); El-Sheshtawy, HS (El-Sheshtawy, Hamdy S.); Yahia, IS (Yahia, I. S.); Assaf, KI (Assaf, Khaleel I.)

**Source:** COMPUTATIONAL AND THEORETICAL CHEMISTRY **Volume:** 1204 **Article Number:** 113413 **DOI:** 10.1016/j.comptc.2021.113413 **Early Access Date:** AUG 2021 **Published:** OCT 2021

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**Record 907 of 1000**



**Title:** Mesoscopic TiO<sub>2</sub>/Nb<sub>2</sub>O<sub>5</sub> Electron Transfer Layer for Efficient and Stable Perovskite Solar Cells

**Author(s):** Chavan, RD (Chavan, Rohit D.); Parikh, N (Parikh, Nishi); Tavakoli, MM (Tavakoli, Mohammad Mahdi); Prochowicz, D (Prochowicz, Daniel); Kalam, A (Kalam, Abul); Yadav, P (Yadav, Pankaj); Bhoite, PH (Bhoite, Pravin H.); Hong, CK (Hong, Chang Kook)

**Source:** ADVANCED MATERIALS INTERFACES **Volume:** 8 **Issue:** 10 **Article Number:** 2100177 **DOI:** 10.1002/admi.202100177 **Early Access Date:** MAR 2021 **Published:** MAY 2021

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#### Record 908 of 1000

**Title:** Sensing behavior of pure and Ni-doped BC<sub>3</sub> to chlorine trifluoride: A computational survey

**Author(s):** Cao, Y (Cao, Yan); Farouk, N (Farouk, Naeim); Issakhov, A (Issakhov, Alibek); Anqi, AE (Anqi, Ali E.); Ebadi, AG (Ebadi, Abdol Ghaffar)

**Source:** JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS **Volume:** 163 **Article Number:** 110530 **DOI:** 10.1016/j.jpcs.2021.110530 **Early Access Date:** DEC 2021 **Published:** APR 2022

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#### Record 909 of 1000

**Title:** Possible Synergistic Antidiabetic Effects of Quantified *Artemisia judaica* Extract and Glyburide in Streptozotocin-Induced Diabetic Rats via Restoration of PPAR- $\alpha$  mRNA Expression

**Author(s):** Saeedan, AS (Saeedan, Abdulaziz S.); Soliman, GA (Soliman, Gamal A.); Abdel-Rahman, RF (Abdel-Rahman, Rehab F.); Abd-Elsalam, RM (Abd-Elsalam, Reham M.); Ogaly, HA (Ogaly, Hanan A.); Alharthy, KM (Alharthy, Khalid M.); Abdel-Kader, MS (Abdel-Kader, Maged S.)

**Source:** BIOLOGY-BASEL **Volume:** 10 **Issue:** 8 **Article Number:** 796 **DOI:** 10.3390/biology10080796 **Published:** AUG 2021

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#### Record 910 of 1000

**Title:** Isolation, purification and structure elucidation of three new bioactive secondary metabolites from *Streptomyces lividans* AM

**Author(s):** El-Metwally, M (El-Metwally, Mohammad); Abdel-Mogib, M (Abdel-Mogib, Mamdouh); Elfedawy, M (Elfedawy, Manal); Sohsah, G (Sohsah, Gaad); Rezk, A (Rezk, Ahmed); Moustafa, M (Moustafa, Mahmoud); Shaaban, M (Shaaban, Mohamed)

**Source:** BIOCELL **Volume:** 45 **Issue:** 5 **Pages:** 1263-1271 **DOI:** 10.32604/biocell.2021.013198 **Published:** 2021

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#### Record 911 of 1000

**Title:** Design a novel g-C<sub>3</sub>N<sub>4</sub> based Ce<sub>2</sub>O<sub>3</sub>/CuO ternary photocatalysts for superior photo-degradation performance of organic mixed pollutants: Insights of Z-scheme charge transfer mechanism

**Author(s):** Vignesh, S (Vignesh, Shanmugam); Suganthi, S (Suganthi, Sanjeevamuthu); Palanivel, B (Palanivel, Baskaran); Ali, AM (Ali, Atif Mossad); Shkir, M (Shkir, Mohd); Algarni, H (Algarni, H.); Sreedevi, G (Sreedevi, Gedi)

**Source:** JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS **Volume:** 162 **Article Number:** 110514 **DOI:** 10.1016/j.jpcs.2021.110514 **Early Access Date:** DEC 2021 **Published:** MAR 2022

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#### Record 912 of 1000

**Title:** Progress and challenges of contaminate removal from wastewater using microalgae biomass

**Author(s):** Ahmed, SF (Ahmed, Shams Forruque); Mofijur, M (Mofijur, M.); Parisa, TA (Parisa, Tahlil Ahmed); Islam, N (Islam, Nafisa); Kusumo, F (Kusumo, F.); Inayat, A (Inayat, Abrar); Le, VG (Van Giang Le); Badruddin, IA (Badruddin, Irfan Anjum); Khan, TMY (Khan, T. M. Yunus); Ong, HC (Ong, Hwai Chyuan)

**Source:** CHEMOSPHERE **Volume:** 286 **Article Number:** 131656 **DOI:** 10.1016/j.chemosphere.2021.131656 **Early Access Date:** JUL 2021 **Part:** 1 **Published:** JAN 2022

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#### Record 913 of 1000

**Title:** Effect of Nb, Ta and V replacements on electronic, optical and elastic properties of NbCu<sub>3</sub>Se<sub>4</sub>: A GGA+U study

**Author(s):** Abbas, Z (Abbas, Zeesham); Jabeen, N (Jabeen, Nawishta); Hussain, A (Hussain, Ahmad); Kabir, F (Kabir, Faisal); Alshahrani, T (Alshahrani, Thamraa); Raza, HH (Raza, Hafiz Hamid); Muhammad, S (Muhammad, Shabbir); Azam, S (Azam, Sikander); Gorczyca, I (Gorczyca, Izabela)

**Source:** JOURNAL OF SOLID STATE CHEMISTRY **Volume:** 301 **Article Number:** 122338 **DOI:** 10.1016/j.jssc.2021.122338 **Early Access Date:** JUN 2021 **Published:** SEP 2021

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#### **Record 914 of 1000**

**Title:** Free convection and second law scrutiny of NEPCM suspension inside a wavy-baffle-equipped cylinder under altered Fourier theory

**Author(s):** Nayak, MK (Nayak, M. K.); Dogonchi, AS (Dogonchi, A. Sattar); Elmasry, Y (Elmasry, Yasser); Karimi, N (Karimi, Nader); Chamkha, AJ (Chamkha, Ali J.); Alhumade, H (Alhumade, Hesham)

**Source:** JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS **Volume:** 128 **Pages:** 288-300 **DOI:** 10.1016/j.jtice.2021.06.021 **Early Access Date:** OCT 2021 **Published:** NOV 2021

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#### **Record 915 of 1000**

**Title:** Effect of Cu<sub>2</sub>O nano-particles on the temperature sensing and optical switching of poly-(dioctyl-flourene)

**Author(s):** Ahmad, A (Ahmad, A.); Zaman, A (Zaman, A.); Akhtar, N (Akhtar, N.); Kamran, M (Kamran, M.); Nazir, N (Nazir, N.); Ben Farhat, L (Ben Farhat, L.); Ali, A (Ali, A.); Mushtaq, M (Mushtaq, M.); Sultana, F (Sultana, F.); Lal, M (Lal, M.); Althubeiti, K (Althubeiti, K.)

**Source:** DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES **Volume:** 16 **Issue:** 4 **Pages:** 1277-1285 **Published:** OCT-DEC 2021

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#### **Record 916 of 1000**

**Title:** Nanofibers of polycaprolactone containing hydroxyapatite doped with aluminum/vanadate ions for wound healing applications

**Author(s):** Ashraf, S (Ashraf, Sherif); Ahmed, MK (Ahmed, M. K.); Ibrahim, HA (Ibrahim, Hala A.); Awwad, NS (Awwad, Nasser S.); Abdel-Fattah, E (Abdel-Fattah, E.); Ghoniem, MG (Ghoniem, M. G.)

**Source:** NEW JOURNAL OF CHEMISTRY **Volume:** 45 **Issue:** 48 **Pages:** 22610-22620 **DOI:** 10.1039/d1nj03455c **Early Access Date:** SEP 2021 **Published:** DEC 13 2021

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#### **Record 917 of 1000**

**Title:** Exploration of CHMIDLINE HORIZONTAL ELLIPSISF & CFMIDLINE HORIZONTAL ELLIPSISH mediated supramolecular arrangements into fluorinated terphenyls and theoretical prediction of their third-order nonlinear optical response

**Author(s):** Adeel, M (Adeel, Muhammad); Khalid, M (Khalid, Muhammad); Ullah, MA (Ullah, Malik Aman); Muhammad, S (Muhammad, Shabbir); Khan, MU (Khan, Muhammad Usman); Tahir, MN (Tahir, Muhammad Nawaz); Khan, I (Khan, Ilham); Asghar, M (Asghar, Muhammad); Mughal, KS (Mughal, Khawar Shahzad)

**Source:** RSC ADVANCES **Volume:** 11 **Issue:** 14 **Pages:** 7766-7778 **DOI:** 10.1039/d0ra08528f **Published:** MAR 3 2021

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#### **Record 918 of 1000**

**Title:** Social Support, Self-Care Behaviour and Self-Efficacy in Patients with Type 2 Diabetes during the COVID-19 Pandemic: A Cross-Sectional Study

**Author(s):** Paulsamy, P (Paulsamy, Premalatha); Ashraf, R (Ashraf, Rizwan); Alshahrani, SH (Alshahrani, Shadia Hamoud); Periannan, K (Periannan, Kalaiselvi); Qureshi, AA (Qureshi, Absar Ahmed); Venkatesan, K (Venkatesan, Krishnaraju); Manoharan, V (Manoharan, Vani); Govindasamy, N (Govindasamy, Natarajan); Prabahar, K (Prabahar, Kousalya); Arumugam, T (Arumugam, Tamilselvi); Venkatesan, K (Venkatesan, Kumar); Chidambaram, K (Chidambaram, Kumarappan); Kandasamy, G (Kandasamy, Geetha); Vasudevan, R (Vasudevan, Rajalakshimi); Krishnaraju, K (Krishnaraju, Kalpana)

**Source:** HEALTHCARE **Volume:** 9 **Issue:** 11 **Article Number:** 1607 **DOI:** 10.3390/healthcare9111607 **Published:** NOV 2021

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#### **Record 919 of 1000**

**Title:** Enhancing the electrical, optical, and structure morphology using Pr<sub>2</sub>O<sub>3</sub>-ZnO nanocomposites: Towards electronic varistors and environmental photocatalytic activity

**Author(s):** AlAbdulaal, TH (AlAbdulaal, T. H.); AlShadidi, M (AlShadidi, M.); Hussien, MSA (Hussien, Mai S. A.); Vanga, G (Vanga, G.); Bouzidi, A (Bouzidi, A.); Rafique, S (Rafique, Saqib); Algarni, H (Algarni, H.); Zahran, HY (Zahran, H. Y.); Abdel-wahab, MS (Abdel-wahab, M. Sh.); Yahia, IS (Yahia, I. S.)

**Source:** JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY **Volume:** 418 **Article Number:** 113399 **DOI:** 10.1016/j.jphotochem.2021.113399 **Early Access Date:** JUN 2021  
**Published:** SEP 1 2021

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#### Record 920 of 1000

**Title:** Investigation of structural, morphological and optical properties of co-doped gold/selenite-hydroxyapatite

**Author(s):** Ahmed, MK (Ahmed, M. K.); Afifi, M (Afifi, M.); Ibrahim, HA (Ibrahim, Hala A.); Awwad, NS (Awwad, N. S.); Shati, AA (Shati, Ali A.); Abdel-Fattah, E (Abdel-Fattah, E.)

**Source:** APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING **Volume:** 127 **Issue:** 10 **Article Number:** 740 **DOI:** 10.1007/s00339-021-04805-1 **Published:** OCT 2021

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#### Record 921 of 1000

**Title:** Electrospun Polycaprolactone Nanofibrous Webs Containing Cu-Magnetite/Graphene Oxide for Cell Viability, Antibacterial Performance, and Dye Decolorization from Aqueous Solutions

**Author(s):** Radwan, HA (Radwan, Hyam A.); Ismail, RA (Ismail, Rabab A.); Abdelaal, SA (Abdelaal, Said A.); Al Jahdaly, BA (Al Jahdaly, Badreah A.); Almahri, A (Almahri, Albandary); Ahmed, MK (Ahmed, M. K.); Shoueir, K (Shoueir, Kamel)

**Source:** ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING **Volume:** 47 **Issue:** 1 **Pages:** 303-318 **DOI:** 10.1007/s13369-021-05363-7 **Early Access Date:** FEB 2021 **Published:** JAN 2022

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#### Record 922 of 1000

**Title:** *Digera muricata* (L.) Mart. mediated synthesis of antimicrobial and enzymatic inhibitory zinc oxide bionanoparticles

**Author(s):** Ashraf, N (Ashraf, Naheed); Sumrra, SH (Sumrra, Sajjad H.); Assiri, MA (Assiri, Mohammed A.); Usman, M (Usman, Muhammad); Hussain, R (Hussain, Riaz); Aziz, F (Aziz, Farooq); Hussain, A (Hussain, Ajaz); Ghaffari, MA (Ghaffari, Muhammad Abuzar); Qaisar, MN (Qaisar, Muhammad Naeem); Imran, M (Imran, Muhammad); Irfan, A (Irfan, Ahmad)

**Source:** GREEN PROCESSING AND SYNTHESIS **Volume:** 10 **Issue:** 1 **Pages:** 476-484 **DOI:** 10.1515/gps-2021-0044 **Published:** AUG 6 2021

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#### Record 923 of 1000

**Title:** Synthesis of gemifloxacin conjugated silver nanoparticles, their amplified bacterial efficacy against human pathogen and their morphological study *via* TEM analysis

**Author(s):** Ahmad, T (Ahmad, Touqeer); Mahbood, F (Mahbood, Fazal); Sarwar, R (Sarwar, Rizwana); Iqbal, A (Iqbal, Ayesha); Khan, M (Khan, Majid); Muhammad, S (Muhammad, Sayyar); AL-Riyami, K (AL-Riyami, Khamis); Hussain, N (Hussain, Nusrat); Uddin, J (Uddin, Jalal); Khan, A (Khan, Ajmal); Al-Harrasi, A (Al-Harrasi, Ahmed)

**Source:** ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY **Volume:** 49 **Issue:** 1 **Pages:** 661-671 **DOI:** 10.1080/21691401.2021.2003805 **Published:** JAN 1 2021

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#### Record 924 of 1000

**Title:** Mechanistic investigation of Mg<sup>2+</sup>-ion-induced ZnO nanorods for enhanced photocatalytic performance

**Author(s):** Khalid, NR (Khalid, N. R.); Ahmed, A (Ahmed, Adeel); Tahir, MB (Tahir, M. B.); Nabi, G (Nabi, G.); Rafique, M (Rafique, M.); Ahmad, M (Ahmad, M.); Alrobei, H (Alrobei, Hussein); Shahzad, K (Shahzad, Khurram); Ali, AM (Ali, Arshid Mahmood); Muhammad, S (Muhammad, Shabbir)

**Source:** APPLIED NANOSCIENCE **Volume:** 11 **Issue:** 6 **Pages:** 1917-1927 **DOI:** 10.1007/s13204-021-01891-8 **Early Access Date:** MAY 2021 **Published:** JUN 2021

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### Record 925 of 1000

**Title:** Recent Progress of Light Intensity-Modulated Small Perturbation Techniques in Perovskite Solar Cells

**Author(s):** Parikh, N (Parikh, Nishi); Narayanan, S (Narayanan, Saranya); Kumari, H (Kumari, Hemant); Prochowicz, D (Prochowicz, Daniel); Kalam, A (Kalam, Abul); Satapathi, S (Satapathi, Soumitra); Akin, S (Akin, Seckin); Tavakoli, MM (Tavakoli, Mohammad Mahdi); Yadav, P (Yadav, Pankaj)

**Source:** PHYSICA STATUS SOLIDI-RAPID RESEARCH LETTERS **Volume:** 16 **Issue:** 4 **Article Number:** 2100510 **DOI:** 10.1002/pssr.202100510 **Early Access Date:** DEC 2021 **Published:** APR 2022

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### Record 926 of 1000

**Title:** Synthesis, crystal structure, DFT,  $\alpha$ -glucosidase and  $\alpha$ -amylase inhibition and molecular docking studies of (E)-*N*-(4-chlorobenzylidene)-5-phenyl-1H-pyrazole-3-carbohydrazide

**Author(s):** Karrouchi, K (Karrouchi, Khalid); Fettach, S (Fettach, Saad); Anouar, E (Anouar, El Hassane); Tüzün, B (Tuzun, Burak); Radi, S (Radi, Smaail); Alharthi, AI (Alharthi, Abdulrahman I.); Ghabbour, HA (Ghabbour, Hazem A.); Mabkhot, YN (Mabkhot, Yahia N.); Faouzi, ME (Faouzi, My El Abbes); Ansar, M (Ansar, M'hammed); Garcia, Y (Garcia, Yann)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1245 **Article Number:** 131067 **DOI:** 10.1016/j.molstruc.2021.131067 **Early Access Date:** JUL 2021 **Published:** DEC 5 2021

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### Record 927 of 1000

**Title:** Association of Maternal Observation and Motivation (MOM) Program with m-Health Support on Maternal and Newborn Health

**Author(s):** Paulsamy, P (Paulsamy, Premalatha); Easwaran, V (Easwaran, Vigneshwaran); Ashraf, R (Ashraf, Rizwan); Alshahrani, SH (Alshahrani, Shadia Hamoud); Venkatesan, K (Venkatesan, Krishnaraju); Qureshi, AA (Qureshi, Absar Ahmed); Arrab, MM (Arrab, Mervat Moustafa); Prabahar, K (Prabahar, Kousalya); Periannan, K (Periannan, Kalaiselvi); Vasudevan, R (Vasudevan, Rajalakshimi); Kandasamy, G (Kandasamy, Geetha); Chidambaram, K (Chidambaram, Kumarappan); Pappiya, EM (Pappiya, Ester Mary); Venkatesan, K (Venkatesan, Kumar); Manoharan, V (Manoharan, Vani)

**Source:** HEALTHCARE **Volume:** 9 **Issue:** 12 **Article Number:** 1629 **DOI:** 10.3390/healthcare9121629 **Published:** DEC 2021

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### Record 928 of 1000

**Title:** Single crystal inspection, Hirshfeld surface investigation and DFT study of a novel derivative of 4-fluoroaniline: 4-((4-fluorophenyl)amino)-4-oxobutanoic acid (BFAOB)

**Author(s):** Ashfaq, M (Ashfaq, Muhammad); Munawar, KS (Munawar, Khurram Shahzad); Bogdanov, G (Bogdanov, Georgii); Ali, A (Ali, Akbar); Tahir, MN (Tahir, Muhammad Nawaz); Ahmed, G (Ahmed, Gulzar); Ramalingam, A (Ramalingam, Arulraj); Alam, MM (Alam, Mohammed Mujahid); Imran, M (Imran, Muhammad); Sambandam, S (Sambandam, Sivakumar); Munir, B (Munir, Budar)

**Source:** JOURNAL OF THE IRANIAN CHEMICAL SOCIETY **Volume:** 19 **Issue:** 5 **Pages:** 1953-1961 **DOI:** 10.1007/s13738-021-02432-4 **Early Access Date:** OCT 2021 **Published:** MAY 2022

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### Record 929 of 1000

**Title:** Physical, optical, and ionizing radiation shielding parameters of Al(PO<sub>3</sub>)<sub>3</sub>-doped PbO-Bi<sub>2</sub>O<sub>3</sub>-B<sub>2</sub>O<sub>3</sub> glass system

**Author(s):** Alothman, MA (Alothman, Miyyoon A.); Al-Baradi, AM (Al-Baradi, Ateyyah M.); Ben Ahmed, S (Ben Ahmed, Samia); Kurtulus, R (Kurtulus, Recep); Olarinoye, IO (Olarinoye, I. O.); Kavas, T (Kavas, Taner); Al-Buriahi, MS (Al-Buriahi, M. S.)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 32 **Issue:** 23 **Pages:** 27744-27761 **DOI:** 10.1007/s10854-021-07157-x **Early Access Date:** OCT 2021 **Published:** DEC 2021

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### Record 930 of 1000

**Title:** Proteome Based Approach Defines Candidates for Designing a Multitope Vaccine against the Nipah Virus

**Author(s):** Soltan, MA (Soltan, Mohamed A.); Eldeen, MA (Eldeen, Muhammad Alaa); Elbassiouny, N (Elbassiouny, Nada); Mohamed, I (Mohamed, Ibrahim); El-damasy, DA (El-damasy, Dalia A.); Fayad, E (Fayad,

Eman); Abu Ali, OA (Abu Ali, Ola A.); Raafat, N (Raafat, Nermin); Eid, RA (Eid, Refaat A.); Al-Karmalawy, AA (Al-Karmalawy, Ahmed A.)

**Source:** INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES **Volume:** 22 **Issue:** 17 **Article Number:** 9330 **DOI:** 10.3390/ijms22179330 **Published:** SEP 2021

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#### **Record 931 of 1000**

**Title:** Potentially toxic elements in street dust from an urban city of a developing country: ecological and probabilistic health risks assessment

**Author(s):** Kabir, MH (Kabir, Md. Humayun); Kormoker, T (Kormoker, Tapos); Islam, MS (Islam, Md. Saiful); Khan, R (Khan, Rahat); Shammi, RS (Shammi, Rifat Shahid); Tusher, TR (Tusher, Tanmoy Roy); Proshad, R (Proshad, Ram); Islam, MS (Islam, Md Shafiqul); Idris, AM (Idris, Abubakr M.)

**Source:** ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH **Volume:** 28 **Issue:** 40 **Pages:** 57126-57148 **DOI:** 10.1007/s11356-021-14581-3 **Early Access Date:** JUN 2021 **Published:** OCT 2021

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#### **Record 932 of 1000**

**Title:** Waste Animal Bones as Catalysts for Biodiesel Production; A Mini Review

**Author(s):** Hussain, F (Hussain, Fayaz); Alshahrani, S (Alshahrani, Saad); Abbas, MM (Abbas, Muhammad Mujtaba); Khan, HM (Khan, Haris Mahmood); Jamil, A (Jamil, Asif); Yaqoob, H (Yaqoob, Haseeb); Soudagar, MEM (Soudagar, Manzoore Elahi M.); Imran, M (Imran, Muhammad); Ahmad, M (Ahmad, Mushtaq); Munir, M (Munir, Mamoon)

**Source:** CATALYSTS **Volume:** 11 **Issue:** 5 **Article Number:** 630 **DOI:** 10.3390/catal11050630 **Published:** MAY 2021

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#### **Record 933 of 1000**

**Title:** Iron-Zinc Co-Doped Titania Nanocomposite: Photocatalytic and Photobiocidal Potential in Combination with Molecular Docking Studies

**Author(s):** Riaz, N (Riaz, Nadia); Fen, DACS (Fen, Debra Adelina Chia Siew); Khan, MS (Khan, Muhammad Saqib); Naz, S (Naz, Sadia); Sarwar, R (Sarwar, Rizwana); Farooq, U (Farooq, Umar); Bustam, MA (Bustam, Mohamad Azmi); Batiha, GES (Batiha, Gaber El-Saber); El Azab, IH (El Azab, Islam H.); Uddin, J (Uddin, Jalal); Khan, A (Khan, Ajmal)

**Source:** CATALYSTS **Volume:** 11 **Issue:** 9 **Article Number:** 1112 **DOI:** 10.3390/catal11091112 **Published:** SEP 2021

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#### **Record 934 of 1000**

**Title:** Synergistic effect of reduced graphene oxide layers wrapped in polyaniline sheets to porous blades for boosted oxygen evolution reaction

**Author(s):** Abbas, S (Abbas, Sajid); Yasmeen, G (Yasmeen, Ghazala); Manzoor, S (Manzoor, Suryyia); Manzoor, S (Manzoor, Sumaira); Hussain, D (Hussain, Dilshad); Yousaf, A (Yousaf, Ammar); Al-Buriahi, MS (Al-Buriahi, M. S.); Alshahrani, B (Alshahrani, B.); Ashiq, MN (Ashiq, Muhammad Naeem)

**Source:** JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE **Volume:** 15 **Issue:** 1 **Pages:** 960-970 **DOI:** 10.1080/16583655.2021.2013650 **Published:** JAN 1 2021

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#### **Record 935 of 1000**

**Title:** Magnetic and optical characteristics of Fe doped SrTiO<sub>3</sub> perovskite compound: a first principle study

**Author(s):** Shafique, H (Shafique, H.); Aldaghfag, SA (Aldaghfag, S. A.); Kashif, M (Kashif, M.); Zahid, M (Zahid, M.); Yaseen, M (Yaseen, M.); Iqbal, J (Iqbal, J.); Misban (Misban); Neffati, R (Neffati, R.)

**Source:** CHALCOGENIDE LETTERS **Volume:** 18 **Issue:** 10 **Pages:** 589-599 **Published:** OCT 2021

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#### **Record 936 of 1000**

**Title:** Synthesis and Characterization of Yttrium-Doped Hydroxyapatite Nanoparticles and Their Potential Antimicrobial Activity

**Author(s):** Albulym, O (Albulym, Obaid); Kaygili, O (Kaygili, Omer); Hussien, MSA (Hussien, Mai S. A.); Zahran, HY (Zahran, H. Y.); Kilany, M (Kilany, Mona); Darwish, R (Darwish, R.); Bulut, N (Bulut, Niyazi);

Alshahrie, A (Alshahrie, Ahmed); Yahia, IS (Yahia, I. S.)

**Source:** JOURNAL OF BIOMATERIALS AND TISSUE ENGINEERING **Volume:** 11 **Issue:** 11 **Pages:** 2087-2096 **DOI:** 10.1166/jbt.2021.2758 **Published:** NOV 2021

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#### **Record 937 of 1000**

**Title:** Treatment of Hospital wastewater with submerged aerobic fixed film reactor coupled with tube-settler

**Author(s):** Khan, NA (Khan, Nadeem A.); Bokhari, A (Bokhari, Awais); Mubashir, M (Mubashir, Muhammad); Klemes, JJ (Klemes, Jiri Jaromir); El Morabet, R (El Morabet, Rachida); Khan, RA (Khan, Roohul Abad); Alsubih, M (Alsubih, Majed); Azam, M (Azam, Mudassar); Saqib, S (Saqib, Sidra); Mukhtar, A (Mukhtar, Ahmad); Koyande, A (Koyande, Apurav); Show, PL (Show, Pau Loke)

**Source:** CHEMOSPHERE **Volume:** 286 **Article Number:** 131838 **DOI:** 10.1016/j.chemosphere.2021.131838 **Early Access Date:** AUG 2021 **Part:** 3 **Published:** JAN 2022

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#### **Record 938 of 1000**

**Title:** Metabolomic profiling, biological evaluation of *Aspergillus awamori*, the river Nile-derived fungus using epigenetic and OSMAC approaches

**Author(s):** Lotfy, MM (Lotfy, Momen M.); Sayed, AM (Sayed, Ahmed M.); AboulMagd, AM (AboulMagd, Asmaa M.); Hassan, HM (Hassan, Hossam M.); El Amir, D (El Amir, Dalia); Abouzid, SF (Abouzid, Sameh F.); El-Gendy, AO (El-Gendy, Ahmed O.); Rateb, ME (Rateb, Mostafa E.); Abdelmohsen, UR (Abdelmohsen, Usama R.); Alhadrami, H (Alhadrami, Hani); Mohammed, R (Mohammed, Rabab)

**Source:** RSC ADVANCES **Volume:** 11 **Issue:** 12 **Pages:** 6709-6719 **DOI:** 10.1039/d0ra07578g **Published:** FEB 20 2021

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#### **Record 939 of 1000**

**Title:** A facile co-precipitation synthesis of novel WO<sub>3</sub>/NiWO<sub>4</sub> nanocomposite with improved photocatalytic activity

**Author(s):** Thilagavathi, T (Thilagavathi, T.); Venugopal, D (Venugopal, D.); Thangaraju, D (Thangaraju, D.); Marnadu, R (Marnadu, R.); Palanivel, B (Palanivel, Baskaran); Imran, M (Imran, Mohd); Shkir, M (Shkir, Mohd); Ubaidullah, M (Ubaidullah, Mohd); AlFaify, S (AlFaify, S.)

**Source:** MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING **Volume:** 133 **Article Number:** 105970 **DOI:** 10.1016/j.mssp.2021.105970 **Early Access Date:** JUN 2021 **Published:** OCT 2021

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#### **Record 940 of 1000**

**Title:** Structural and magnetic properties of erbium substituted spinel ferrites for microwave absorptions

**Author(s):** Shah, MS (Shah, Muhammad Shakil); Al-Buriah, MS (Al-Buriah, M. S.); Alrowaili, ZA (Alrowaili, Z. A.); Alharbi, AN (Alharbi, Abdulaziz N.); Mahmoud, ZMM (Mahmoud, Zakaria M. M.); Khosa, RY (Khosa, Rabia Yasmin); Alsufyani, SJ (Alsufyani, Sultan J.); Farid, HMT (Farid, Hafiz Muhammad Tahir)

**Source:** JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE **Volume:** 15 **Issue:** 1 **Pages:** 769-780 **DOI:** 10.1080/16583655.2021.2005320 **Published:** JAN 1 2021

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#### **Record 941 of 1000**

**Title:** A comprehensive analysis of PV cell parameters with varying halides stoichiometry in mixed halide perovskite solar cells

**Author(s):** Khan, F (Khan, Firoz); Khan, MT (Khan, Mohd Taukeer); Alshahrani, T (Alshahrani, Thamraa); Ahmad, N (Ahmad, Nafis); Alshehri, AM (Alshehri, A. M.); Fareed, I (Fareed, Imran); Elhassan, MS (Elhassan, Mustafa S.); Shariq, M (Shariq, Mohammad)

**Source:** OPTICAL MATERIALS **Volume:** 123 **Article Number:** 111905 **DOI:** 10.1016/j.optmat.2021.111905 **Early Access Date:** DEC 2021 **Published:** JAN 2022

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#### **Record 942 of 1000**

**Title:** Optoelectronic investigation of Cu<sub>2</sub>FeSn<sub>4</sub> quaternary functional photodiodes with IR detection capabilities

**Author(s):** Koç, MM (Koc, Mumin Mehmet); Dere, A (Dere, Aysegul); Özdere, A (Ozdere, Alper); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Coskun, B (Coskun, Burhan); Al-Ghamdi, AA (Al-Ghamdi, Ahmed A.); Erkovan,

M (Erkovan, Mustafa); Yakuphanoglu, F (Yakuphanoglu, Fahrettin)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1246 **Article Number:** 131265 **DOI:** 10.1016/j.molstruc.2021.131265 **Early Access Date:** AUG 2021 **Published:** DEC 15 2021

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#### Record 943 of 1000

**Title:** Structural, electronic, optical and thermodynamical properties of Cu<sub>3</sub>Se<sub>2</sub> and [Cu<sub>3</sub>Se<sub>2</sub>]:Zn compounds: Using DFT

**Author(s):** Saeed, M (Saeed, Muhammad); Qayyum, A (Qayyum, Azhar); Azam, S (Azam, Sikander); Akbar, J (Akbar, Jahan); Irfan, M (Irfan, Muhammad); Ul Haq, B (Ul Haq, Bakhtiar); Muhammad, S (Muhammad, Saleh); Ullah, S (Ullah, Saif); Laref, A (Laref, A.)

**Source:** JOURNAL OF SOLID STATE CHEMISTRY **Volume:** 298 **Article Number:** 122125 **DOI:** 10.1016/j.jssc.2021.122125 **Early Access Date:** MAR 2021 **Published:** JUN 2021

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#### Record 944 of 1000

**Title:** Evaluating the Spatio-Temporal Distribution of Irrigation Water Components for Water Resources Management Using Geo-Informatics Approach

**Author(s):** Waqas, MM (Waqas, Muhammad Mohsin); Waseem, M (Waseem, Muhammad); Ali, S (Ali, Sikandar); Leta, MK (Leta, Megersa Kebede); Shah, AN (Shah, Adnan Noor); Awan, UK (Awan, Usman Khalid); Shah, SHH (Shah, Syed Hamid Hussain); Yang, T (Yang, Tao); Ullah, S (Ullah, Sami)

**Source:** SUSTAINABILITY **Volume:** 13 **Issue:** 15 **Article Number:** 8607 **DOI:** 10.3390/su13158607 **Published:** AUG 2021

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#### Record 945 of 1000

**Title:** Electrochemical and Optical Properties of Tellurium Dioxide (TeO<sub>2</sub>) Nanoparticles

**Author(s):** Amari, A (Amari, Abdelfattah); Al Mesfer, MK (Al Mesfer, Mohammed K.); Alsaiari, NS (Alsaiari, Norah Salem); Danish, M (Danish, Mohd); Alshahrani, AM (Alshahrani, Ali M.); Tagoon, MA (Tagoon, Mohamed A.); Ben Rebah, F (Ben Rebah, Faouzi)

**Source:** INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE **Volume:** 16 **Issue:** 2 **Article Number:** 210235 **DOI:** 10.20964/2021.02.13 **Published:** FEB 2021

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#### Record 946 of 1000

**Title:** In the Quest of Low-Frequency Impedance Spectra of Efficient Perovskite Solar Cells

**Author(s):** Prochowicz, D (Prochowicz, Daniel); Trivedi, S (Trivedi, Suverna); Parikh, N (Parikh, Nishi); Saliba, M (Saliba, Michael); Kalam, A (Kalam, Abul); Tavakoli, MM (Mahdi Tavakoli, Mohammad); Yadav, P (Yadav, Pankaj)

**Source:** ENERGY TECHNOLOGY **Volume:** 9 **Issue:** 7 **Article Number:** 2100229 **DOI:** 10.1002/ente.202100229 **Early Access Date:** MAY 2021 **Published:** JUL 2021

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#### Record 947 of 1000

**Title:** Enriched Catalytic Activity of TiO<sub>2</sub> Nanoparticles Supported by Activated Carbon for Noxious Pollutant Elimination

**Author(s):** Rajendran, S (Rajendran, Suriyaprabha); Inwati, GK (Inwati, Gajendra Kumar); Yadav, VK (Yadav, Virendra Kumar); Choudhary, N (Choudhary, Nisha); Solanki, MB (Solanki, Mitesh B.); Abdellattif, MH (Abdellattif, Magda H.); Yadav, KK (Yadav, Krishna Kumar); Gupta, N (Gupta, Neha); Islam, S (Islam, Saiful); Jeon, BH (Jeon, Byong-Hun)

**Source:** NANOMATERIALS **Volume:** 11 **Issue:** 11 **Article Number:** 2808 **DOI:** 10.3390/nano11112808 **Published:** NOV 2021

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#### Record 948 of 1000

**Title:** A Short Review on the Utilization of Incense Sticks Ash as an Emerging and Overlooked Material for the Synthesis of Zeolites

**Author(s):** Yadav, VK (Yadav, Virendra Kumar); Choudhary, N (Choudhary, Nisha); Tirth, V (Tirth, Vineet); Kalasariya, H (Kalasariya, Haresh); Gnanamoorthy, G (Gnanamoorthy, Govindhan); Algahtani, A (Algahtani,

Ali); Yadav, KK (Yadav, Krishna Kumar); Soni, S (Soni, Sunil); Islam, S (Islam, Saiful); Yadav, S (Yadav, Shalini); Jeon, BH (Jeon, Byong-Hun)

**Source:** CRYSTALS **Volume:** 11 **Issue:** 10 **Article Number:** 1255 **DOI:** 10.3390/cryst11101255 **Published:** OCT 2021

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#### Record 949 of 1000

**Title:** Synthesis, crystal structure, spectroscopic characterization,  $\alpha$ -glucosidase inhibition and computational studies of (E)-5-methyl- N'-(pyridin-2-ylmethylene)-1H-pyrazole-3-carbohydrazide

**Author(s):** Karrouchi, K (Karrouchi, Khalid); Fettach, S (Fettach, Saad); Tamer, Ö (Tamer, Omer); Avci, D (Avci, Davut); Basoglu, A (Basoglu, Adil); Atalay, Y (Atalay, Yusuf); Ayaz, Z (Ayaz, Zeynep); Radi, S (Radi, Smaail); Ghabbour, HA (Ghabbour, Hazem A.); Mabkhot, YN (Mabkhot, Yahia N.); Faouzi, ME (Faouzi, My El Abbes); Ansar, M (Ansar, M'hammed)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1248 **Article Number:** 131506 **DOI:** 10.1016/j.molstruc.2021.131506 **Early Access Date:** SEP 2021 **Published:** JAN 15 2022

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#### Record 950 of 1000

**Title:** Multifunctional and smart Er<sub>2</sub>O<sub>3</sub>-ZnO nanocomposites for electronic ceramic varistors and visible light degradation of wastewater treatment

**Author(s):** AlAbdulaal, T (AlAbdulaal, Thekayat); AlShadidi, M (AlShadidi, Manal); Hussien, M (Hussien, Mai); Ganesh, V (Ganesh, Vanga); Bouzidi, AF (Bouzidi, Abdel-Fatah); Rafique, S (Rafique, Saqib); Algarni, H (Algarni, Hamed); Zahran, H (Zahran, Heba); Abdel-wahab, M (Abdel-wahab, Mohamed); Yahia, I (Yahia, Ibrahim)

**Source:** ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH **Volume:** 29 **Issue:** 13 **Pages:** 19109-19131 **DOI:** 10.1007/S11356-021-16754-6 **Early Access Date:** OCT 2021 **Published:** MAR 2022

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#### Record 951 of 1000

**Title:** Entropy production rate in ciliary induced flows through cylindrical tubules under the consequences of Hall effect

**Author(s):** Farooq, AA (Farooq, A. A.); Kahshan, M (Kahshan, M.); Saleem, S (Saleem, S.); Rahimi-Gorji, M (Rahimi-Gorji, Mohammad); Al-Mubaddel, FS (Al-Mubaddel, Fahad S.)

**Source:** JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS **Volume:** 120 **Pages:** 207-217 **DOI:** 10.1016/j.jtice.2021.03.024 **Early Access Date:** APR 2021 **Published:** MAR 2021

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#### Record 952 of 1000

**Title:** Selenium nanoparticles synthesized using an eco-friendly method: dye decolorization from aqueous solutions, cell viability, antioxidant, and antibacterial effectiveness

**Author(s):** Al Jahdaly, BA (Al Jahdaly, Badreah A.); Al-Radadi, NS (Al-Radadi, Najlaa S.); Eldin, GMG (Eldin, Ghada M. G.); Almahri, A (Almahri, Albandary); Ahmed, MK (Ahmed, M. K.); Shoueir, K (Shoueir, Kamel); Janowska, I (Janowska, Izabela)

**Source:** JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T **Volume:** 11 **Pages:** 85-97 **DOI:** 10.1016/j.jmrt.2020.12.098 **Early Access Date:** JAN 2021 **Published:** MAR-APR 2021

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#### Record 953 of 1000

**Title:** Energy and exergy and economic (3E) analysis of a two-stage organic Rankine cycle for single flash geothermal power plant exhaust exergy recovery

**Author(s):** Fan, GL (Fan, Guangli); Gao, YJ (Gao, Yingjie); Ayed, H (Ayed, Hamdi); Marzouki, R (Marzouki, Riadh); Aryanfar, Y (Aryanfar, Yashar); Jarad, F (Jarad, Fahd); Guo, PX (Guo, Peixi)

**Source:** CASE STUDIES IN THERMAL ENGINEERING **Volume:** 28 **Article Number:** 101554 **DOI:** 10.1016/j.csite.2021.101554 **Early Access Date:** OCT 2021 **Published:** DEC 2021

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#### Record 954 of 1000

**Title:** Evaluation of gas sensor behaviour of Sm<sup>3+</sup> doped TiO<sub>2</sub> nanoparticles

**Author(s):** Nithya, N (Nithya, N.); Kumar, ER (Kumar, E. Ranjith); Magesh, G (Magesh, G.); Arun, AP (Arun, A. P.); Abou-Melha, KS (Abou-Melha, Khlood S.); Badr, G (Badr, Gamila); El-Metwaly, NM (El-Metwaly,



Nashwa M.); Mersal, GAM (Mersal, Gaber A. M.); Rahale, CS (Rahale, C. Sharmila)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 32 **Issue:** 12 **Pages:** 16854-16865 **DOI:** 10.1007/s10854-021-06246-1 **Early Access Date:** MAY 2021 **Published:** JUN 2021

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#### Record 955 of 1000

**Title:** Synthesis of novel hybrid quinoxaline containing triazole and acetamide moieties by azide-alkyne click chemistry: Experimental and theoretical characterization

**Author(s):** Missioui, M (Missioui, Mohcine); Lgaz, H (Lgaz, Hassane); Guerrab, W (Guerrab, Walid); Lee, HS (Lee, Han-seung); Warad, I (Warad, Ismail); Mague, JT (Mague, Joel T.); Ali, IH (Ali, Ismat H.); Essassi, E (Essassi, El Mokhtar); Ramli, Y (Ramli, Youssef)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1253 **Article Number:** 132132 **DOI:** 10.1016/j.molstruc.2021.132132 **Early Access Date:** DEC 2021 **Published:** APR 5 2022

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#### Record 956 of 1000

**Title:** Sol-Gel Auto-combustion Preparation of  $M^{2+} = Mg^{2+}, Mn^{2+}, Cd^{2+}$  Substituted

$M_{0.25}Ni_{0.15}Cu_{0.25}Co_{0.35}Fe_2O_4$  Ferrites and Their Characterizations

**Author(s):** Aslam, A (Aslam, Asma); Rehman, AU (Rehman, Atta Ur); Amin, N (Amin, Nasir); Amami, M (Amami, Mongi); Nabi, MAU (Nabi, M. Ajaz Un); Alrobei, H (Alrobei, Hussein); Asghar, M (Asghar, M.); Morley, NA (Morley, N. A.); Akhtar, M (Akhtar, Maria); Arshad, MI (Arshad, Muhammad Imran); Maraj, M (Maraj, Mudassar); Abbas, K (Abbas, Kamran)

**Source:** JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM **Volume:** 35 **Issue:** 2 **Pages:** 473-483 **DOI:** 10.1007/s10948-021-06085-5 **Early Access Date:** NOV 2021 **Published:** FEB 2022

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#### Record 957 of 1000

**Title:** Therapeutic potential of indole alkaloids in respiratory diseases: A comprehensive review

**Author(s):** Mitra, S (Mitra, Saikat); Prova, SR (Prova, Shajuthi Rahman); Sultana, SA (Sultana, Sifat Ara); Das, R (Das, Rajib); Nainu, F (Nainu, Firzan); Bin Emran, T (Bin Emran, Talha); Tareq, A (Tareq, Abu Montakim); Uddin, MS (Uddin, Md Sahab); Alqahtani, AM (Alqahtani, Ali M.); Dhama, K (Dhama, Kuldeep); Simal-Gandara, J (Simal-Gandara, Jesus)

**Source:** PHYTOMEDICINE **Volume:** 90 **Article Number:** 153649 **DOI:** 10.1016/j.phymed.2021.153649 **Early Access Date:** AUG 2021 **Published:** SEP 2021

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#### Record 958 of 1000

**Title:** Morphological behaviors of brushite/vivianite nanocomposites and their potency for Se(IV) and Cd(II) removal from aqueous solutions

**Author(s):** Ahmed, MK (Ahmed, M. K.); Afifi, M (Afifi, M.); Mansour, SF (Mansour, S. F.); Ibrahim, HA (Ibrahim, Hala A.); Abdulmani, SAA (Abdulmani, Sharah A. A.); Awwad, NS (Awwad, N. S.)

**Source:** MATERIALS CHEMISTRY AND PHYSICS **Volume:** 259 **Article Number:** 124057 **DOI:** 10.1016/j.matchemphys.2020.124057 **Published:** FEB 1 2021

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#### Record 959 of 1000

**Title:** Green synthesis and biomedical applications of silver and gold nanoparticles functionalized with methanolic extract of *Mentha longifolia*

**Author(s):** Rauf, A (Rauf, Abdur); Ahmad, T (Ahmad, Touqeer); Khan, A (Khan, Ajmal); Maryam (Maryam); Uddin, G (Uddin, Ghias); Ahmad, B (Ahmad, Bashir); Mabkhot, YN (Mabkhot, Yahia Nasser); Bawazeer, S (Bawazeer, Sami); Riaz, N (Riaz, Nadia); Malikovna, BK (Malikovna, Bates Kudaibergenova); Almarhoon, ZM (Almarhoon, Zainab M.); Al-Harrasi, A (Al-Harrasi, Ahmed)

**Source:** ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY **Volume:** 49 **Issue:** 1 **Pages:** 194-203 **DOI:** 10.1080/21691401.2021.1890099 **Published:** JAN 1 2021

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#### Record 960 of 1000

**Title:** Synthesis, physical, optical, structural and radiation shielding characterization of borate glasses: A focus on the role of SrO/Al<sub>2</sub>O<sub>3</sub> substitution

**Author(s):** Ahmed, MR (Ahmed, Mohamad Raheem); Sekhar, KC (Sekhar, K. Chandra); Ahammed, S (Ahammed, Sheik); Sathe, V (Sathe, Vasant); Alrowaili, ZA (Alrowaili, Z. A.); Amami, M (Amami, Mongi); Olarinoye, IO (Olarinoye, I. O.); Al-Buriah, MS (Al-Buriah, M. S.); Tonguc, BT (Tonguc, B. T.); Shareefuddin, M (Shareefuddin, Md.)

**Source:** CERAMICS INTERNATIONAL **Volume:** 48 **Issue:** 2 **Pages:** 2124-2137 **DOI:** 10.1016/j.ceramint.2021.09.301 **Early Access Date:** NOV 2021 **Published:** JAN 15 2022

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#### Record 961 of 1000

**Title:** Recent Advances in Methods for Recovery of Cenospheres from Fly Ash and Their Emerging Applications in Ceramics, Composites, Polymers and Environmental Cleanup

**Author(s):** Yadav, VK (Yadav, Virendra Kumar); Yadav, KK (Yadav, Krishna Kumar); Tirth, V (Tirth, Vineet); Jangid, A (Jangid, Ashok); Gnanamoorthy, G (Gnanamoorthy, G.); Choudhary, N (Choudhary, Nisha); Islam, S (Islam, Saiful); Gupta, N (Gupta, Neha); Son, CT (Son, Cao Truong); Jeon, BH (Jeon, Byong-Hun)

**Source:** CRYSTALS **Volume:** 11 **Issue:** 9 **Article Number:** 1067 **DOI:** 10.3390/cryst11091067 **Published:** SEP 2021

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#### Record 962 of 1000

**Title:** One-spot fabrication and in-vivo toxicity evaluation of core-shell magnetic nanoparticles

**Author(s):** Chandekar, KV (Chandekar, Kamlesh V.); Shkir, M (Shkir, Mohd.); Alshahrani, T (Alshahrani, Thamraa); Ibrahim, EH (Ibrahim, Essam H.); Kilany, M (Kilany, Mona); Ahmad, Z (Ahmad, Zubair); Manthrammel, MA (Manthrammel, M. Aslam); AlFaify, S (AlFaify, S.); Kateb, B (Kateb, Babak); Kaushik, A (Kaushik, Ajeet)

**Source:** MATERIALS SCIENCE AND ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS **Volume:** 122 **Article Number:** 111898 **DOI:** 10.1016/j.msec.2021.111898 **Early Access Date:** FEB 2021 **Published:** MAR 2021

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#### Record 963 of 1000

**Title:** Naproxen Based 1,3,4-Oxadiazole Derivatives as EGFR Inhibitors: Design, Synthesis, Anticancer, and Computational Studies

**Author(s):** Alam, MM (Alam, Mohammad Mahboob); Nazreen, S (Nazreen, Syed); Almalki, ASA (Almalki, Abdulraheem S. A.); Elhenawy, AA (Elhenawy, Ahmed A.); Alsenani, NI (Alsenani, Nawaf, I); Elbehairi, SEI (Elbehairi, Serag Eldin, I); Malebari, AM (Malebari, Azizah M.); Alfaifi, MY (Alfaifi, Mohammad Y.); Alsharif, MA (Alsharif, Meshari A.); Alfaifi, SYM (Alfaifi, Sulaiman Y. M.)

**Source:** PHARMACEUTICALS **Volume:** 14 **Issue:** 9 **Article Number:** 870 **DOI:** 10.3390/ph14090870 **Published:** SEP 2021

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#### Record 964 of 1000

**Title:** Prospective Drug Candidates as Human Multidrug Transporter ABCG2 Inhibitors: an In Silico Drug Discovery Study

**Author(s):** Ibrahim, MAA (Ibrahim, Mahmoud A. A.); Badr, EAA (Badr, Esraa A. A.); Abdelrahman, AHM (Abdelrahman, Alaa H. M.); Almansour, NM (Almansour, Nahlah Makki); Shawky, AM (Shawky, Ahmed M.); Mekhemer, GAH (Mekhemer, Gamal A. H.); Alrumaihi, F (Alrumaihi, Faris); Moustafa, MF (Moustafa, Mahmoud F.); Atia, MAM (Atia, Mohamed A. M.)

**Source:** CELL BIOCHEMISTRY AND BIOPHYSICS **Volume:** 79 **Issue:** 2 **Pages:** 189-200 **DOI:** 10.1007/s12013-021-00985-y **Early Access Date:** MAY 2021 **Published:** JUN 2021

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#### Record 965 of 1000

**Title:** Two dimensional graphitic carbon nitride Nanosheets as prospective material for photocatalytic degradation of nitrogen oxides

**Author(s):** Rehman, ZU (Rehman, Zia Ur); Butt, FK (Butt, Faheem K.); Balayeva, NO (Balayeva, Narmina O.); Idrees, F (Idrees, Faryal); Hou, JH (Hou, Jianhua); Tariq, Z (Tariq, Zeeshan); Rehman, SU (Rehman, Sajid Ur); Ul Haq, B (Ul Haq, Bakhtiar); Alfaify, S (Alfaify, Salem); Ali, S (Ali, Saif); Zaman, S (Zaman, Sher)

**Source:** DIAMOND AND RELATED MATERIALS **Volume:** 120 **Article Number:** 108650 **DOI:** 10.1016/j.diamond.2021.108650 **Early Access Date:** DEC 2021 **Published:** DEC 2021

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#### **Record 966 of 1000**

**Title:** Evaluation the potential of carboxyl functionalized BC<sub>2</sub>N nanotubes as a drug delivery vehicle for chlormethine anti-cancer drug

**Author(s):** Cao, Y (Cao, Yan); Farouk, N (Farouk, Naeim); Anqi, AE (Anqi, Ali E.); Issakhov, A (Issakhov, Alibek); Xu, NY (Xu, Nai-Yuan); Sarkar, A (Sarkar, A.)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 342 **Article Number:** 117521 **DOI:** 10.1016/j.molliq.2021.117521 **Early Access Date:** SEP 2021 **Published:** NOV 15 2021

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#### **Record 967 of 1000**

**Title:** Key Electronic, Linear and Nonlinear Optical Properties of Designed Disubstituted Quinoline with Carbazole Compounds

**Author(s):** Ali, B (Ali, Bakhat); Khalid, M (Khalid, Muhammad); Asim, S (Asim, Sumreen); Khan, MU (Usman Khan, Muhammad); Iqbal, Z (Iqbal, Zahid); Hussain, A (Hussain, Ajaz); Hussain, R (Hussain, Riaz); Ahmed, S (Ahmed, Sarfraz); Ali, A (Ali, Akbar); Hussain, A (Hussain, Amjad); Imran, M (Imran, Muhammad); Assiri, MA (Assiri, Mohammed A.); Rehman, MFU (Fayyaz Ur Rehman, Muhammad); Wang, CX (Wang, Chenxi); Lu, CR (Lu, Changrui)

**Source:** MOLECULES **Volume:** 26 **Issue:** 9 **Article Number:** 2760 **DOI:** 10.3390/molecules26092760 **Published:** MAY 2021

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#### **Record 968 of 1000**

**Title:** Thermal, hydraulic, exergetic and economic evaluation of a flat tube heat exchanger equipped with a plain and modified conical turbulator

**Author(s):** Chen, H (Chen, Heng); Ayed, H (Ayed, Hamdi); Marzouki, R (Marzouki, Riadh); Emami, F (Emami, Faezeh); Mahariq, I (Mahariq, Ibrahim); Jarad, F (Jarad, Fahd)

**Source:** CASE STUDIES IN THERMAL ENGINEERING **Volume:** 28 **Article Number:** 101587 **DOI:** 10.1016/j.csite.2021.101587 **Early Access Date:** OCT 2021 **Published:** DEC 2021

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#### **Record 969 of 1000**

**Title:** A facile strategy for the preparation of bismuth ferrite nanoparticles: Influence of calcination temperature on structural, dielectric, and morphological characteristics

**Author(s):** Ahmad, J (Ahmad, Jamshed); Khalid, M (Khalid, Muhammad); Mustafa, G (Mustafa, Ghulam); AlObaid, AA (AlObaid, Abeer A.); Al-Muhimeed, TI (Al-Muhimeed, Tahani, I); Akhtar, MS (Akhtar, Muhammad Saeed); Azam, AA (Azam, Arif Akhtar); Nazir, G (Nazir, Ghazanfar); Abd-Rabboh, HSM (Abd-Rabboh, Hisham S. M.)

**Source:** COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS **Volume:** 628 **Article Number:** 127328 **DOI:** 10.1016/j.colsurfa.2021.127328 **Early Access Date:** AUG 2021 **Published:** NOV 5 2021

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#### **Record 970 of 1000**

**Title:** Is machine learning redefining the perovskite solar cells?

**Author(s):** Parikh, N (Parikh, Nishi); Karamta, M (Karamta, Meera); Yadav, N (Yadav, Neha); Tavakoli, MM (Tavakoli, Mohammad Mahdi); Prochowicz, D (Prochowicz, Daniel); Akin, S (Akin, Seckin); Kalam, A (Kalam, Abul); Satapathi, S (Satapathi, Soumitra); Yadav, P (Yadav, Pankaj)

**Source:** JOURNAL OF ENERGY CHEMISTRY **Volume:** 66 **Pages:** 74-90 **DOI:** 10.1016/j.jechem.2021.07.020 **Early Access Date:** AUG 2021 **Published:** MAR 2022

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#### **Record 971 of 1000**

**Title:** Advances in the Methods for the Synthesis of Carbon Dots and Their Emerging Applications

**Author(s):** Khayal, A (Khayal, Areeba); Dawane, V (Dawane, Vinars); Amin, MA (Amin, Mohammed A.); Tirth, V (Tirth, Vineet); Yadav, VK (Yadav, Virendra Kumar); Algahtani, A (Algahtani, Ali); Khan, SH (Khan, Samreen Heena); Islam, S (Islam, Saiful); Yadav, KK (Yadav, Krishna Kumar); Jeon, BH (Jeon, Byong-Hun)

**Source:** POLYMERS **Volume:** 13 **Issue:** 18 **Article Number:** 3190 **DOI:** 10.3390/polym13183190 **Published:** SEP 2021

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#### **Record 972 of 1000**

**Title:** Phenolic and flavonoid contents in *Malva sylvestris* and exploration of active drugs as antioxidant and anti-COVID19 by quantum chemical and molecular docking studies

**Author(s):** Irfan, A (Irfan, Ahmad); Imran, M (Imran, Muhammad); Khalid, M (Khalid, Muhammad); Ullah, MS (Ullah, Muhammad Sami); Khalid, N (Khalid, Noreen); Assiri, MA (Assiri, Mohammed A.); Thomas, R (Thomas, Renjith); Muthu, S (Muthu, S.); Basra, MAR (Basra, Muhammad Asim Raza); Hussein, M (Hussein, Mohammed); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Shahzad, M (Shahzad, Mohsin)

**Source:** JOURNAL OF SAUDI CHEMICAL SOCIETY **Volume:** 25 **Issue:** 8 **Article Number:** 101277 **DOI:** 10.1016/j.jscs.2021.101217 **Published:** AUG 2021

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#### **Record 973 of 1000**

**Title:** Spinel oxide incorporated photoanode for better power conversion efficiency in dye-sensitized solar cells

**Author(s):** Fegade, U (Fegade, Umesh); Lin, YC (Lin, Yu-Chen); Lin, CC (Lin, Chia-Ching); Inamuddin (Inamuddin); Wu, RJ (Wu, Ren-Jang); Alshahrani, B (Alshahrani, Badriah); Alshahrani, T (Alshahrani, Thamraa); Al-Ahmed, A (Al-Ahmed, Amir); Khan, F (Khan, Firoz); Khan, MT (Khan, Mohd Taukeer); Ahmad, N (Ahmad, Nafis)

**Source:** OPTIK **Volume:** 247 **Article Number:** 167976 **DOI:** 10.1016/j.ijleo.2021.167976 **Early Access Date:** SEP 2021 **Published:** DEC 2021

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#### **Record 974 of 1000**

**Title:** On the Potentiality of X-T-X<sub>3</sub> Compounds (T = C, Si, and Ge, and X = F, Cl, and Br) as Tetrel- and Halogen-Bond Donors

**Author(s):** Ibrahim, MAA (Ibrahim, Mahmoud A. A.); Moussa, NAM (Moussa, Nayra A. M.); Soliman, MES (Soliman, Mahmoud E. S.); Moustafa, MF (Moustafa, Mahmoud F.); Al-Fahemi, JH (Al-Fahemi, Jabir H.); Abd El-Mageed, HR (Abd El-Mageed, H. R.)

**Source:** ACS OMEGA **Volume:** 6 **Issue:** 29 **Pages:** 19330-19341 **DOI:** 10.1021/acsomega.1c03183 **Early Access Date:** JUL 2021 **Published:** JUL 27 2021

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#### **Record 975 of 1000**

**Title:** Structure, thermal stability and electrical properties of cellulose-6-phosphate: development of a novel fast Na-ionic conductor

**Author(s):** Marzouki, R (Marzouki, Riadh); Brahmia, A (Brahmia, Ameni); Alsulami, QA (Alsulami, Qana A.); Keshk, SMAS (Keshk, Sherif M. A. S.); Emwas, AH (Emwas, Abdul-Hamid); Jaremko, M (Jaremko, Mariusz); Zid, MF (Zid, Mohamed F.); Heinze, T (Heinze, Thomas)

**Source:** POLYMER INTERNATIONAL **Volume:** 70 **Issue:** 9 **Pages:** 1290-1297 **DOI:** 10.1002/pi.6198 **Early Access Date:** FEB 2021 **Published:** SEP 2021

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#### **Record 976 of 1000**

**Title:** Multivariate Investigation of Toxic and Essential Metals in the Serum from Various Types and Stages of Colorectal Cancer Patients

**Author(s):** Mahmood, MHR (Mahmood, Mian H. R.); Qayyum, MA (Qayyum, Muhammad Abdul); Yaseen, F (Yaseen, Farhan); Farooq, T (Farooq, Tahir); Farooq, Z (Farooq, Zahid); Yaseen, M (Yaseen, Muhammad); Irfan, A (Irfan, Ahmad); Muddassir, K (Muddassir, Khawaja); Zafar, MN (Zafar, Muhammad Nadeem); Qamar, MT (Qamar, Muhammad Tariq); Abbasi, AM (Abbasi, Arshad Mehmood); Liu, HY (Liu, Hai-Yang)

**Source:** BIOLOGICAL TRACE ELEMENT RESEARCH **Volume:** 200 **Issue:** 1 **Pages:** 31-48 **DOI:** 10.1007/s12011-021-02632-2 **Early Access Date:** FEB 2021 **Published:** JAN 2022

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#### **Record 977 of 1000**

**Title:** First-principles investigations of ZnO monolayers derived from zinc-blende and 5-5 phases for advanced thermoelectric applications

**Author(s):** Ul Haq, B (Ul Haq, Bakhtiar); AlFaify, S (AlFaify, S.); Al-shahrani, T (Al-shahrani, Thamraa); Al-Qaisi, S (Al-Qaisi, Samah); Ahmed, R (Ahmed, R.); Laref, A (Laref, A.); Tahir, SA (Tahir, S. A.)

**Source:** JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS **Volume:** 149 **Article Number:** 109780 **DOI:** 10.1016/j.jpcs.2020.109780 **Published:** FEB 2021

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#### **Record 978 of 1000**

**Title:** Enhanced Magneto-Optical, Morphological, and Photocatalytic Properties of Nickel-Substituted SnO<sub>2</sub> Nanoparticles

**Author(s):** Renuga, R (Renuga, R.); Manikandan, A (Manikandan, A.); Mary, JA (Mary, J. Arul); Muthukrishnaraj, A (Muthukrishnaraj, A.); Khan, A (Khan, Anish); Srinivasan, S (Srinivasan, S.); Al Alwan, BAM (Al Alwan, Basem Abdullah M.); Khedher, KM (Khedher, Khalid Mohamed)

**Source:** JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM **Volume:** 34 **Issue:** 3 **Pages:** 825-836 **DOI:** 10.1007/s10948-020-05766-x **Early Access Date:** JAN 2021 **Published:** MAR 2021

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#### **Record 979 of 1000**

**Title:** Electrochemical and thermal catalytic studies of Co based molybdenum oxide nanomaterials for C-H bond activation

**Author(s):** Kausar, S (Kausar, Samia); ul Ain, N (ul Ain, Noor); Altaf, AA (Altaf, Ataf Ali); Danish, M (Danish, Muhammad); Basit, A (Basit, Anmol); Lal, B (Lal, Bhajan); Muhammad, S (Muhammad, Shabbir); Badshah, A (Badshah, Amin); Javaid, HMK (Javaid, Hafiz Muhammad Kashif)

**Source:** INORGANICA CHIMICA ACTA **Volume:** 517 **Article Number:** 120219 **DOI:** 10.1016/j.ica.2020.120219 **Published:** MAR 1 2021

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#### **Record 980 of 1000**

**Title:** Facile synthesis of silver modified zinc oxide nanocomposite: An efficient visible light active nanomaterial for bacterial inhibition and dye degradation

**Author(s):** Khan, MJ (Khan, Muhammad Junaid); Tahir, K (Tahir, Kamran); El-Zahhar, AA (El-Zahhar, Adel A.); Arooj, A (Arooj, Aaranda); AL-Abdulkarim, HA (AL-Abdulkarim, Hessah A.); Saleh, EAM (Saleh, Ebraheem Abdu Musad); Nazir, S (Nazir, Sadia); Al-Shehri, HS (Al-Shehri, Hamza S.); Husain, K (Husain, Kakul); Khan, AU (Khan, Afaq Ullah)

**Source:** PHOTODIAGNOSIS AND PHOTODYNAMIC THERAPY **Volume:** 36 **Article Number:** 102619 **DOI:** 10.1016/j.pdpdt.2021.102619 **Early Access Date:** NOV 2021 **Published:** DEC 2021

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#### **Record 981 of 1000**

**Title:** Synthesis of BiVO<sub>4</sub>/NiFe<sub>2</sub>O<sub>4</sub> composite for photocatalytic degradation of methylene blue

**Author(s):** Fatima, U (Fatima, Urooj); Khalid, NR (Khalid, N. R.); Nawaz, T (Nawaz, Tasmia); Tahir, MB (Tahir, M. B.); Fatima, N (Fatima, Nisar); Kebaili, I (Kebaili, Imen); Alrobei, H (Alrobei, Hussein); Alzaid, M (Alzaid, Meshal); Shahzad, K (Shahzad, Khurram); Ali, AM (Ali, Arshid Mahmood)

**Source:** APPLIED NANOSCIENCE **Volume:** 11 **Issue:** 12 **Pages:** 2793-2800 **DOI:** 10.1007/s13204-021-02186-8 **Early Access Date:** OCT 2021 **Published:** DEC 2021

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#### **Record 982 of 1000**

**Title:** 2D materials for bone therapy

**Author(s):** Wang, XJ (Wang, Xiangjiang); Han, XJ (Han, Xianjing); Li, CZ (Li, Chaozhou); Chen, Z (Chen, Zhi); Huang, H (Huang, Hao); Chen, JD (Chen, Jindong); Wu, CS (Wu, Chenshuo); Fan, TJ (Fan, Taojian); Li, TZ (Li, Tianzhong); Huang, WC (Huang, Weichun); Al-Hartomy, OA (Al-Hartomy, Omar A.); Al-Ghamdi, A (Al-Ghamdi, Ahmed); Wageh, AS (Wageh, Abdullah Swelm.); Zheng, F (Zheng, Fei); Al-Sehemi, G (Al-Sehemi, G.); Wang, GQ (Wang, Guiqing); Xie, ZJ (Xie, Zhongjian); Zhang, H (Zhang, Han)

**Source:** ADVANCED DRUG DELIVERY REVIEWS **Volume:** 178 **Article Number:** 113970 **DOI:** 10.1016/j.addr.2021.113970 **Early Access Date:** SEP 2021 **Published:** NOV 2021

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#### **Record 983 of 1000**

**Title:** rGO supported g-C<sub>3</sub>N<sub>4</sub>/CoFe<sub>2</sub>O<sub>4</sub> heterojunction: Visible-light-active photocatalyst for effective utilization of H<sub>2</sub>O<sub>2</sub> to organic pollutant degradation and OH<sup>•</sup> radicals production

**Author(s):** Palanivel, B (Palanivel, Baskaran); Lallimathi, M (Lallimathi, Mathiazhagan); Arjunkumar, B (Arjunkumar, B.); Shkir, M (Shkir, Mohd.); Alshahrani, T (Alshahrani, T.); Al-Namshah, KS (Al-Namshah, Khadijah S.); Hamdy, MS (Hamdy, Mohamed S.); Shanavas, S (Shanavas, S.); Venkatachalam, M (Venkatachalam, Munusamy); Ramalingam, G (Ramalingam, G.)

**Source:** JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING **Volume:** 9 **Issue:** 1 **Article Number:** 104698 **DOI:** 10.1016/j.jece.2020.104698 **Early Access Date:** JAN 2021 **Published:** FEB 2021

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#### Record 984 of 1000

**Title:** Chiral Monolithic Silica-Based HPLC Columns for Enantiomeric Separation and Determination: Functionalization of Chiral Selector and Recognition of Selector-Selectand Interaction

**Author(s):** Asmari, M (Asmari, Mufarreh); Wang, XY (Wang, Xiaoyu); Casado, N (Casado, Natalia); Piponski, M (Piponski, Marjan); Kovalenko, S (Kovalenko, Sergiy); Logoyda, L (Logoyda, Liliya); Hanafi, RS (Hanafi, Rasha Sayed); El Deeb, S (El Deeb, Sami)

**Source:** MOLECULES **Volume:** 26 **Issue:** 17 **Article Number:** 5241 **DOI:** 10.3390/molecules26175241 **Published:** SEP 2021

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#### Record 985 of 1000

**Title:** Hydrogeochemical Investigation of Elevated Arsenic Based on Entropy Modeling, in the Aquifers of District Sanghar, Sindh, Pakistan

**Author(s):** Ullah, Z (Ullah, Zahid); Talib, MA (Talib, Muhammad Afnan); Rashid, A (Rashid, Abdur); Ghani, J (Ghani, Junaid); Shahab, A (Shahab, Asfandyar); Irfan, M (Irfan, Muhammad); Rauf, A (Rauf, Abdur); Bawazeer, S (Bawazeer, Sami); Almarhoon, ZM (Almarhoon, Zainab M.); Mabkhot, YN (Mabkhot, Yahia N.)

**Source:** WATER **Volume:** 13 **Issue:** 23 **Article Number:** 3477 **DOI:** 10.3390/w13233477 **Published:** DEC 2021

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#### Record 986 of 1000

**Title:** Pyrrole/thiophene  $\pi$ -bridged two triphenylamine electron donor and substituted thiobarbituric electron acceptor for D- $\pi$ -A-D-featured DSSC applications

**Author(s):** Mersal, GAM (Mersal, Gaber A. M.); Toghan, A (Toghan, Arafat); Yahia, IS (Yahia, Ibrahim S.); El-Sheshtawy, HS (El-Sheshtawy, Hamdy S.)

**Source:** JOURNAL OF THE CHINESE CHEMICAL SOCIETY **Volume:** 68 **Issue:** 10 **Pages:** 1842-1851 **DOI:** 10.1002/jccs.202100154 **Early Access Date:** JUL 2021 **Published:** OCT 2021

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#### Record 987 of 1000

**Title:** Preparation and Characterization of Super-Absorbing Gel Formulated from  $\kappa$ -Carrageenan-Potato Peel Starch Blended Polymers

**Author(s):** Moustafa, M (Moustafa, Mahmoud); Abu-Saied, MA (Abu-Saied, M. A.); Taha, TH (Taha, Tarek H.); Elnouby, M (Elnouby, Mohamed); El Desouky, EA (El Desouky, Eman A.); Alamri, S (Alamri, Saad); Shati, A (Shati, Ali); Alrumman, S (Alrumman, Sulaiman); Alghamdii, H (Alghamdii, Huda); Al-Khatani, M (Al-Khatani, Mohamed); Al-Qthanin, R (Al-Qthanin, Rahmah); Al-Emam, A (Al-Emam, Ahmed)

**Source:** POLYMERS **Volume:** 13 **Issue:** 24 **Article Number:** 4308 **DOI:** 10.3390/polym13244308 **Published:** DEC 2021

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#### Record 988 of 1000

**Title:** Deposition of bismuth sulfide and aluminum doped bismuth sulfide thin films for photovoltaic applications (November, 10.1007/s10854-021-07154-0, 2021)

**Author(s):** Fazal, T (Fazal, Tanzeela); Iqbal, S (Iqbal, Shahid); Shah, M (Shah, Mazloom); Bahadur, A (Bahadur, Ali); Ismail, B (Ismail, Bushra); Abd-Rabboh, HSM (Abd-Rabboh, Hisham S. M.); Hameed, R (Hameed, Rabia); Mahmood, Q (Mahmood, Qaiser); Ibrar, A (Ibrar, Aliya); Nasar, MS (Nasar, Muhammad Sufyan); Ehsan, Y (Ehsan, Yasir); Saqib, ANS (Saqib, Ahmad Nauman Shah); Adnan (Adnan)

**Record 989 of 1000**

**Title:** Amino acid functionalized boron nitride nanotubes as an effective nanocarriers for Thiotepa anti-cancer drug delivery

**Author(s):** Cao, Y (Cao, Yan); El-Shorbagy, MA (El-Shorbagy, M. A.); Sharma, K (Sharma, Kamal); Alamri, S (Alamri, SAGR); Rajhi, AA (Rajhi, Ali A.); Anqi, AE (Anqi, Ali E.); El-Shafay, AS (El-Shafay, A. S.)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 344 **Article Number:** 117967 **DOI:** 10.1016/j.molliq.2021.117967 **Early Access Date:** NOV 2021 **Published:** DEC 15 2021

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**Record 990 of 1000**

**Title:** Synthesis, DFT Calculations, Antiproliferative, Bactericidal Activity and Molecular Docking of Novel Mixed-Ligand Salen/8-Hydroxyquinoline Metal Complexes

**Author(s):** Al-Farhan, BS (Al-Farhan, Badriah Saad); Basha, MT (Basha, Maram T.); Rahman, LHA (Abdel Rahman, Laila H.); El-Saghier, AMM (El-Saghier, Ahmed M. M.); Abou El-Ezz, D (Abou El-Ezz, Doaa); Marzouk, AA (Marzouk, Adel A.); Shehata, MR (Shehata, Mohamed R.); Abdalla, EM (Abdalla, Ehab M.)

**Source:** MOLECULES **Volume:** 26 **Issue:** 16 **Article Number:** 4725 **DOI:** 10.3390/molecules26164725 **Published:** AUG 2021

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**Record 991 of 1000**

**Title:** Polymer-Peptide Modified Gold Nanorods to Improve Cell Conjugation and Cell Labelling for Stem Cells Photoacoustic Imaging

**Author(s):** Salah, D (Salah, Dina); Moghanm, FS (Moghanm, Farahat S.); Arshad, M (Arshad, Muhammad); Alanazi, AA (Alanazi, Abdulaziz A.); Latif, S (Latif, Salman); El-Gammal, MI (El-Gammal, Maie I.); Shimaa, EM (Shimaa, Elmahdy M.); Elsayed, S (Elsayed, Salah)

**Source:** DIAGNOSTICS **Volume:** 11 **Issue:** 7 **Article Number:** 1196 **DOI:** 10.3390/diagnostics11071196 **Published:** JUL 2021

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**Record 992 of 1000**

**Title:** Multicomponent synthesis, DFT calculations and molecular docking studies of novel thiazolyl-pyridazinones as potential antimicrobial agents against antibiotic-resistant bacteria

**Author(s):** Abu-Melha, S (Abu-Melha, Saraa); Muhammad, ZA (Muhammad, Zeinab A.); Abouzid, AS (Abouzid, Amr S.); Edrees, MM (Edrees, Mastoura M.); Abo Dena, AS (Abo Dena, Ahmed S.); Nabil, S (Nabil, Sara); Gomha, SM (Gomha, Sobhi M.)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1234 **Article Number:** 130180 **DOI:** 10.1016/j.molstruc.2021.130180 **Early Access Date:** MAR 2021 **Published:** JUN 15 2021

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**Record 993 of 1000**

**Title:** Remediation of Emerging Heavy Metals from Water Using Natural Adsorbent: Adsorption Performance and Mechanistic Insights

**Author(s):** Khan, MN (Khan, Mehak Nawaz); Ullah, H (Ullah, Hidayat); Naeem, S (Naeem, Sundas); Uddin, J (Uddin, Jalal); Hamid, Y (Hamid, Yasir); Ahmad, W (Ahmad, Waqar); Ding, J (Ding, Jia)

**Source:** SUSTAINABILITY **Volume:** 13 **Issue:** 16 **Article Number:** 8817 **DOI:** 10.3390/su13168817 **Published:** AUG 2021

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**Record 994 of 1000**

**Title:** Exploring the twisted molecular configurations for tuning their optical and nonlinear optical response properties: A quantum chemical approach

**Author(s):** Muhammad, S (Muhammad, Shabbir); Lai, CH (Lai, Chin-Hung); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Alshahrani, T (Alshahrani, Thamraa); Iqbal, J (Iqbal, Javed); Ayub, K (Ayub, Khurshid)

**Source:** JOURNAL OF MOLECULAR GRAPHICS & MODELLING **Volume:** 102 **Article Number:** 107766 **DOI:** 10.1016/j.jmgm.2020.107766 **Published:** JAN 2021

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### Record 995 of 1000

**Title:** Photoluminescence, optical limiting, and linear/nonlinear optical parameters of PVP/PVAL blend embedded with silver nitrate

**Author(s):** Ali, HE (Ali, H. Elhosiny); Abd-Rabboh, HSM (Abd-Rabboh, Hisham S. M.); Awwad, NS (Awwad, Nasser S.); Algarni, H (Algarni, H.); Sayed, MA (Sayed, M. A.); Abd El-Rehim, AF (Abd El-Rehim, A. F.); Abdel-Aziz, MM (Abdel-Aziz, M. M.); Khairy, Y (Khairy, Yasmin)

**Source:** OPTIK **Volume:** 247 **Article Number:** 167863 **DOI:** 10.1016/j.ijleo.2021.167863 **Early Access Date:** SEP 2021 **Published:** DEC 2021

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### Record 996 of 1000

**Title:** Geochemical modeling to infer genetic origin of groundwater and associated health risks in desertic aquifers

**Author(s):** Singh, CK (Singh, Chander Kumar); Kumar, A (Kumar, Anand); Shashtri, S (Shashtri, Satyanarayan); Kumar, A (Kumar, Alok); Mallick, J (Mallick, Javed); Singh, A (Singh, Amit); Avtar, R (Avtar, Ram); Singh, RP (Singh, Ravi Prakash); Kumar, P (Kumar, Pankaj); Ranjan, S (Ranjan, Shyam)

**Source:** GROUNDWATER FOR SUSTAINABLE DEVELOPMENT **Volume:** 13 **Article Number:** 100569 **DOI:** 10.1016/j.gsd.2021.100569 **Early Access Date:** MAR 2021 **Published:** MAY 2021

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### Record 997 of 1000

**Title:** Economic and environmental sustainability for anaerobic biological treatment of wastewater from paper and cardboard manufacturing industry

**Author(s):** Tawfik, A (Tawfik, Ahmed); Bakr, MH (Bakr, Marwa H.); Nasr, M (Nasr, Mahmoud); Haider, J (Haider, Junaid); Al Mesfer, MK (Al Mesfer, Mohammed K.); Lim, H (Lim, Hankwon); Qyyum, MA (Qyyum, Muhammad Abdul); Lam, SS (Lam, Su Shiung)

**Source:** CHEMOSPHERE **Volume:** 289 **Article Number:** 133166 **DOI:** 10.1016/j.chemosphere.2021.133166 **Early Access Date:** DEC 2021 **Published:** FEB 2022

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### Record 998 of 1000

**Title:** In Silico Prediction of a Multitope Vaccine against *Moraxella catarrhalis*: Reverse Vaccinology and Immunoinformatics

**Author(s):** Soltan, MA (Soltan, Mohamed A.); Elbassiouny, N (Elbassiouny, Nada); Gamal, H (Gamal, Helmy); Elkaeed, EB (Elkaeed, Eslam B.); Eid, RA (Eid, Refaat A.); Eldeen, MA (Eldeen, Muhammad Alaa); Al-Karmalawy, AA (Al-Karmalawy, Ahmed A.)

**Source:** VACCINES **Volume:** 9 **Issue:** 6 **Article Number:** 669 **DOI:** 10.3390/vaccines9060669 **Published:** JUN 2021

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### Record 999 of 1000

**Title:** Development of a novel switched packed bed process for cryogenic CO<sub>2</sub> capture from natural gas

**Author(s):** Babar, M (Babar, Muhammad); Mukhtar, A (Mukhtar, Ahmad); Mubashir, M (Mubashir, Muhammad); Saqib, S (Saqib, Sidra); Ullah, S (Ullah, Sami); Quddusi, AA (Quddusi, Abul Hassan Ali); Bustam, MA (Bustam, Mohamad Azmi); Show, PL (Show, Pau Loke)

**Source:** PROCESS SAFETY AND ENVIRONMENTAL PROTECTION **Volume:** 147 **Pages:** 878-887 **DOI:** 10.1016/j.psep.2021.01.010 **Early Access Date:** JAN 2021 **Published:** MAR 2021

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### Record 1000 of 1000

**Title:** Advances in tuning band gap of graphene by potential doping using DFT: a review

**Author(s):** Rahim, I (Rahim, I.); Azam, S (Azam, S.); Gul, B (Gul, B.); Khan, AA (Khan, A. A.); Yousaf, N (Yousaf, N.); Zada, Z (Zada, Z.); Saqib, M (Saqib, M.); Subhan, F (Subhan, F.); Ismail, M (Ismail, M.); Khan, A (Khan, A.); Murtaza, G (Murtaza, G.); Dahshan, A (Dahshan, A.); Ahmad, SS (Ahmad, S. S.); Kalsoom, A (Kalsoom, A.); Sheraz, M (Sheraz, M.); Hegazy, HH (Hegazy, H. H.)

**Source:** DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES **Volume:** 16 **Issue:** 3 **Pages:** 975-988 **Published:** JUL-SEP 2021

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