

## Record 1 of 1000

**Title:** Cytotoxic Potential of Bio-Silica Conjugate with Different Sizes of Silver Nanoparticles for Cancer Cell Death

**Author(s):** Hamdy, MS (Hamdy, Mohamed S.); Elbehairi, SEI (Elbehairi, Serag Eldin, I); Shati, AA (Shati, Ali A.); Abd-Rabboh, HSM (Abd-Rabboh, Hisham S. M.); Alfaifi, MY (Alfaifi, Mohammad Y.); Fawy, KF (Fawy, Khaled F.); Ibrahim, HA (Ibrahim, Hala A.); Alamri, S (Alamri, Saad); Awwad, NS (Awwad, Nasser S.)

**Source:** MATERIALS **Volume:** 15 **Issue:** 12 **Article Number:** 4074 **DOI:** 10.3390/ma15124074 **Published:** JUN 2022

---

## Record 2 of 1000

**Title:** Glucose Oxidase and Catalase Activities in Honey Samples from the Southwestern Region of Saudi Arabia

**Author(s):** Alshareef, RMH (Alshareef, Rahaf Mohammed Hussein); Al-Farhan, BS (Al-Farhan, Badriah Saad); Mohammed, MEA (Mohammed, Mohammed Elimam Ahamed)

**Source:** APPLIED SCIENCES-BASEL **Volume:** 12 **Issue:** 15 **Article Number:** 7584 **DOI:** 10.3390/app12157584 **Published:** AUG 2022

---

## Record 3 of 1000

**Title:** Preparation of photoluminescent nanocomposite ink toward dual-mode secure anti-counterfeiting stamps

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

**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 15 **Issue:** 2 **Article Number:** 103604 **DOI:** 10.1016/j.arabjc.2021.103604 **Published:** FEB 2022

---

## Record 4 of 1000

**Title:** Molecular modeling and antioxidant activity of newly synthesized 3-hydroxy-2-substituted-thiophene derivatives

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

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1250 **Article Number:** 131821 **DOI:** 10.1016/j.molstruc.2021.131821 **Part:** 2 **Published:** FEB 15 2022

---

## Record 5 of 1000

**Title:** Molecular modeling and docking of new 2-acetamidothiazole-based compounds as antioxidant agents

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

**Source:** JOURNAL OF SAUDI CHEMICAL SOCIETY **Volume:** 26 **Issue:** 2 **Article Number:** 101431 **DOI:** 10.1016/j.jscs.2022.101431 **Early Access Date:** FEB 2022 **Published:** MAR 2022

---

## Record 6 of 1000

**Title:** Phenothiazine- isophorone dyes (D- $\pi$ -A and A- $\pi$ -D- $\pi$ -A): synthesis, electronic properties and DFT computational study

**Author(s):** Al-Zahrani, FAM (Al-Zahrani, Fatimah A. M.)

**Source:** PIGMENT & RESIN TECHNOLOGY **Volume:** 53 **Issue:** 3 **Pages:** 331-350 **DOI:** 10.1108/PRT-08-2022-0094 **Early Access Date:** OCT 2022 **Published:** MAR 14 2024

---

## Record 7 of 1000

**Title:** Synthesis, molecular modeling and antioxidant screening of new thioether-bridged thiadiazole and thiadiazolopyrimidine analogues

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

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1269 **Article Number:** 133714 **DOI:** 10.1016/j.molstruc.2022.133714 **Early Access Date:** JUL 2022 **Published:** DEC 5 2022

---

## Record 8 of 1000

**Title:** Synthesis, Dynamics of Solvatochromism and pH-sensory of Novel Push- $\pi$ -pull Phenothiazine-quinoline Fluorophore Toward Turn-on Fluorescent and Colorimetric Test Strips

**Author(s):** Al-Zahrani, FAM (Al-Zahrani, Fatimah A. M.)

**Source:** FIBERS AND POLYMERS **Volume:** 23 **Issue:** 5 **Pages:** 1182-1189 **DOI:** 10.1007/s12221-022-4735-6 **Early Access Date:** APR 2022 **Published:** MAY 2022

---

#### Record 9 of 1000

**Title:** Synthesis of New Pyrazole Hybrids as Potential Anticancer Agents with Xanthine Oxidase Inhibitory Activity

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

**Source:** ANTI-CANCER AGENTS IN MEDICINAL CHEMISTRY **Volume:** 22 **Issue:** 12 **Pages:** 2303-2309 **DOI:** 10.2174/1871520622666220110162651 **Published:** 2022

---

#### Record 10 of 1000

**Title:** Novel Cr(III), Ni(II), and Zn(II) complexes of thiocarbamide derivative: Synthesis, investigation, theoretical, catalytic, potentiometric, molecular docking and biological studies

**Author(s):** Al -Ahmed, ZAM (Al -Ahmed, Zehbah Ali Mohammed)

**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 15 **Issue:** 9 **Article Number:** 104104 **DOI:** 10.1016/j.arabjc.2022.104104 **Early Access Date:** JUL 2022 **Published:** SEP 2022

---

#### Record 11 of 1000

**Title:** Synthesis, optical properties and DFT-TDDFT computational study of phenothiazine dye: donor-acceptor molecules

**Author(s):** Al-Zahrani, FAM (Al-Zahrani, Fatimah A. M.)

**Source:** PIGMENT & RESIN TECHNOLOGY **DOI:** 10.1108/PRT-10-2022-0128 **Early Access Date:** DEC 2022

---

#### Record 12 of 1000

**Title:** SYNTHESIS, CHARACTERIZATION, BIOLOGICAL ACTIVITY, MOLECULAR DOCKING AND THERMAL ANALYSIS OF BINUCLEAR COMPLEXES

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

**Source:** BULLETIN OF THE CHEMICAL SOCIETY OF ETHIOPIA **Volume:** 36 **Issue:** 4 **Pages:** 843-858 **DOI:** 10.4314/bcse.v36i4.10 **Published:** 2022

---

#### Record 13 of 1000

**Title:** Solvent effect, dipole moment, and DFT studies of multi donor-acceptor type pyridine derivative

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

**Source:** OPEN CHEMISTRY **Volume:** 20 **Issue:** 1 **Pages:** 1494-1501 **DOI:** 10.1515/chem-2022-0248 **Published:** DEC 7 2022

---

#### Record 14 of 1000

**Title:** Valorization of Rice Husk and Straw Agriculture Wastes of Eastern Saudi Arabia: Production of Bio-Based Silica, Lignocellulose, and Activated Carbon

**Author(s):** Abd-Rabboh, HSM (Abd-Rabboh, Hisham S. M.); Fawy, KF (Fawy, Khaled F.); Hamdy, MS (Hamdy, Mohamed S.); Elbehairi, SI (Elbehairi, SeragEldin I.); Shati, AA (Shati, Ali A.); Alfaifi, MY (Alfaifi, Mohammad Y.); Ibrahim, HA (Ibrahim, Hala A.); Alamri, S (Alamri, Saad); Awwad, NS (Awwad, Nasser S.)

**Source:** MATERIALS **Volume:** 15 **Issue:** 11 **Article Number:** 3746 **DOI:** 10.3390/ma15113746 **Published:** JUN 2022

---

#### Record 15 of 1000

**Title:** SARS-CoV-2 Proteins: Are They Useful as Targets for COVID-19 Drugs and Vaccines?

**Author(s):** Mohammed, MEA (Mohammed, Mohammed Elimam Ahamed)

**Source:** CURRENT MOLECULAR MEDICINE **Volume:** 22 **Issue:** 1 **Pages:** 50-66 **DOI:** 10.2174/1566524021666210223143243 **Published:** 2022

---

#### Record 16 of 1000

**Title:** Corrosion Inhibition of Aluminum in 1.0 M HCl Solution Using Cystoseira Myrica Extract

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

**Source:** SURFACE ENGINEERING AND APPLIED ELECTROCHEMISTRY **Volume:** 58 **Issue:** 3 **Pages:** 248-259 **DOI:** 10.3103/S1068375522030115 **Published:** JUN 2022

---

#### Record 17 of 1000

**Title:** Synthesis, characterization, and biological application of some transition metal complexes of N<sup>?</sup>-(benzo[ d ] [1,3]dioxol-5-ylmethylene)isonicotinohydrazide

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

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1268 **Article Number:** 133626 **DOI:** 10.1016/j.molstruc.2022.133626 **Early Access Date:** JUL 2022 **Published:** NOV 15 2022

---

#### Record 18 of 1000

**Title:** Molecular modeling and docking studies of new antimicrobial antipyrine-thiazole hybrids

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

**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 15 **Issue:** 7 **Article Number:** 103898 **DOI:** 10.1016/j.arabjc.2022.103898 **Early Access Date:** APR 2022 **Published:** JUL 2022

---

#### Record 19 of 1000

**Title:** Anti-amnesic and anti-cholinesterase activities of a-asarone against scopolamine-induced memory impairments in rats

**Author(s):** Venkatesan, K (Venkatesan, K.)

**Source:** EUROPEAN REVIEW FOR MEDICAL AND PHARMACOLOGICAL SCIENCES **Volume:** 26 **Issue:** 17 **Pages:** 6344-6350 **Published:** 2022

---

#### Record 20 of 1000

**Title:** Estimating Carbon Stocks and Sequestration With Their Valuation Under a Changing Land Use Scenario: A Multi-Temporal Research in Abha City, Saudi Arabia

**Author(s):** Mallick, J (Mallick, Javed); Almesfer, MK (Almesfer, Mohammed K.); Alsubih, M (Alsubih, Majed); Ahmed, M (Ahmed, Mohd); Ben Kahla, N (Ben Kahla, Nabil)

**Source:** FRONTIERS IN ECOLOGY AND EVOLUTION **Volume:** 10 **Article Number:** 905799 **DOI:** 10.3389/fevo.2022.905799 **Published:** JUN 3 2022

---

#### Record 21 of 1000

**Title:** Selective oxidation of cyclohexane over the bi-functional catalysts Co-MO-TUD-1 (MO = Al<sub>2</sub>O<sub>3</sub>, CeO<sub>2</sub>, NiO, or ZnO)

**Author(s):** Hamdy, MS (Hamdy, Mohamed S.); Alhanash, AM (Alhanash, Abdullah M.); Eissa, M (Eissa, Murad); Ibrahim, FA (Ibrahim, Fatma A.); Abboud, M (Abboud, Mohamed)

**Source:** JOURNAL OF POROUS MATERIALS **Volume:** 29 **Issue:** 4 **Pages:** 1287-1298 **DOI:** 10.1007/s10934-022-01251-z **Early Access Date:** MAY 2022 **Published:** AUG 2022

---

#### Record 22 of 1000

**Title:** Corrosion inhibition properties of the oil extracted from the leaves of *Eruca sativa* for carbon steel in acidic medium

**Author(s):** Alrafai, HA (Alrafai, H. A.)

**Source:** INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE **Volume:** 17 **Issue:** 2 **Article Number:** 220216 **DOI:** 10.20964/2022.02.24 **Published:** FEB 2022

---

#### Record 23 of 1000

**Title:** Magnetically separable template assisted iron nanoparticle for the enhancement of latent fingerprints

**Author(s):** Singh, H (Singh, Hari); Kour, S (Kour, Sharanmeet); Selvaraj, M (Selvaraj, Manickam)

**Source:** JOURNAL OF THE INDIAN CHEMICAL SOCIETY **Volume:** 99 **Issue:** 9 **Article Number:** 100661 **DOI:** 10.1016/j.jics.2022.100661 **Early Access Date:** AUG 2022 **Published:** SEP 2022

---

#### Record 24 of 1000

**Title:** Connecting two intrinsic electron donor and acceptor moieties through distinctive p-bridging units to explore their optical and nonlinear optical properties

**Author(s):** Muhammad, S (Muhammad, Shabbir)

**Source:** MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING **Volume:** 152 **Article Number:** 107064 **DOI:** 10.1016/j.mssp.2022.107064 **Early Access Date:** AUG 2022 **Published:** DEC 2022

---

#### Record 25 of 1000

**Title:** *In Vitro* antimicrobial activity of medicinal plant *Rumex Nervosus* against selected oral pathogens

**Author(s):** Al-Farhan, AH (Al-Farhan, Ali Hussain); Asiri, KA (Asiri, Khalid Ahmed); Raju, M (Raju, Martin); Hichri, F (Hichri, Faycal); Abu-Melha, AS (Abu-Melha, Abdulaziz Saad)

**Source:** JOURNAL OF PHARMACY AND BIOALLIED SCIENCES **Volume:** 14 **Pages:** 753-756 **DOI:** 10.4103/jpbs.jpbs\_188\_22 **Supplement:** 1 **Published:** JUL 2022

---

#### Record 26 of 1000

**Title:** Synthesis and Anticancer Assessment of Various Amide Derivatives of Imidazo[2,1-*b*]Oxazoles as Anticancer Agents

**Author(s):** Syed, T (Syed, Tasqeeruddin); Asiri, Y (Asiri, Yahya, I); Shaheen, S (Shaheen, S.)

**Source:** POLYCYCLIC AROMATIC COMPOUNDS **Volume:** 43 **Issue:** 2 **Pages:** 1536-1545 **DOI:** 10.1080/10406638.2022.2030766 **Early Access Date:** JAN 2022 **Published:** FEB 7 2023

---

#### Record 27 of 1000

**Title:** Evaluation of the antidepressant-like activity of the aqueous extract of *Crataegus aronia*

**Author(s):** Alamri, HS (Alamri, Hasan Saeed)

**Source:** PHARMACOGNOSY MAGAZINE **Volume:** 18 **Issue:** 77 **Pages:** 128-132 **DOI:** 10.4103/pm.pm\_463\_21 **Published:** JAN-MAR 2022

---

#### Record 28 of 1000

**Title:** Fast removal of methylene blue by modified sored cement using manganese(VII) as an additive: kinetics, thermodynamics, and equilibrium studies

**Author(s):** Alghamdi, MM (Alghamdi, Majed M.); Alhomod, EY (Alhomod, Eman Y.); Awwad, NS (Awwad, Nasser S.); Idris, AM (Idris, Abubakr M.); El-Zahhar, AA (El-Zahhar, Adel A.)

**Source:** INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY **DOI:** 10.1080/03067319.2022.2060090 **Early Access Date:** APR 2022

---

#### Record 29 of 1000

**Title:** The utilization of ball-mill in the fabrication of metallic titanium incorporated carbon nitride as an active visible light sensitive photocatalyst

**Author(s):** Al-Namshah, KS (Al-Namshah, Khadijah S.)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 137 **Article Number:** 109194 **DOI:** 10.1016/j.inoche.2022.109194 **Early Access Date:** JAN 2022 **Published:** MAR 2022

---

#### Record 30 of 1000

**Title:** DISTILLATION COLUMN MACHINE LEARNING MODEL CONTROLLED BY OPTIMIZED DMC

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

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

**Source:** 2022 22ND INTERNATIONAL CONFERENCE ON CONTROL, AUTOMATION AND SYSTEMS (ICCAS 2022) **Book Series:** International Conference on Control Automation and Systems **Pages:** 1184-1189 **Published:** 2022

---

#### Record 31 of 1000

**Title:** Effect of Nitrogen Doping and Acene Cores Elongation on Charge Transport and Electronic Nature of Organic Semiconductor Materials: A DFT Study

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

**Source:** IRANIAN JOURNAL OF CHEMISTRY & CHEMICAL ENGINEERING-INTERNATIONAL ENGLISH EDITION **Volume:** 41 **Issue:** 2 **Pages:** 399-409 **Published:** FEB 2022

---

**Record 32 of 1000**

**Title:** Zirconium(IV) Oxychloride Octahydrate (ZrOCl<sub>2</sub>•8H<sub>2</sub>O): An Efficient Catalyst for the One-Pot Multicomponent Synthesis of Hexahydroquinoline Derivatives under Conventional Heating and Microwave Irradiation

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

**Source:** RUSSIAN JOURNAL OF ORGANIC CHEMISTRY **Volume:** 58 **Issue:** 7 **Pages:** 1008-1014 **DOI:** 10.1134/S1070428022070107 **Published:** JUL 2022

---

**Record 33 of 1000**

**Title:** Symmetric vs. asymmetric: Which one is the better molecular configuration for achieving robust NLO response?

**Author(s):** Muhammad, S (Muhammad, Shabbir)

**Source:** JOURNAL OF MOLECULAR GRAPHICS & MODELLING **Volume:** 114 **Article Number:** 108209 **DOI:** 10.1016/j.jmgm.2022.108209 **Early Access Date:** MAY 2022 **Published:** JUL 2022

---

**Record 34 of 1000**

**Title:** Unsupported and silica-supported nickel nanoparticles: synthesis and application in catalysis

**Author(s):** Abboud, M (Abboud, Mohamed); Alnefaie, R (Alnefaie, Reem); Alhanash, A (Alhanash, Abdullah)

**Source:** JOURNAL OF NANOPARTICLE RESEARCH **Volume:** 24 **Issue:** 2 **Article Number:** 21 **DOI:** 10.1007/s11051-021-05350-x **Published:** FEB 2022

---

**Record 35 of 1000**

**Title:** An Efficient Greener Strategy toward Chemoselective Synthesis of 1,2-Disubstituted Benzimidazoles Catalyzed by Citric Acid

**Author(s):** Alam, MM (Alam, M. Mujahid)

**Source:** INDIAN JOURNAL OF HETEROCYCLIC CHEMISTRY **Volume:** 32 **Issue:** 1 **Pages:** 15-21 **Published:** JAN-MAR 2022

---

**Record 36 of 1000**

**Title:** Assessing the Spatiotemporal Heterogeneity of Terrestrial Temperature as a Proxy to Microclimate and Its Relationship With Urban Hydro-Biophysical Parameters

**Author(s):** Mallick, J (Mallick, Javed); Alsubih, M (Alsubih, Majed); Ahmed, M (Ahmed, Mohd.); Almesfer, MK (Almesfer, Mohammed K.); Kahla, NB (Kahla, Nabil Ben)

**Source:** FRONTIERS IN ECOLOGY AND EVOLUTION **Volume:** 10 **Article Number:** 878375 **DOI:** 10.3389/fevo.2022.878375 **Published:** APR 28 2022

---

**Record 37 of 1000**

**Title:** Efficient Oxidation of Cyclohexane over Bulk Nickel Oxide under Mild Conditions

**Author(s):** Alnefaie, RS (Alnefaie, Reem S.); Abboud, M (Abboud, Mohamed); Alhanash, A (Alhanash, Abdullah); Hamdy, MS (Hamdy, Mohamed S.)

**Source:** MOLECULES **Volume:** 27 **Issue:** 10 **Article Number:** 3145 **DOI:** 10.3390/molecules27103145 **Published:** MAY 2022

---

**Record 38 of 1000**

**Title:** Porous NiCoS nanosheets decorated activated carbon cloth for flexible asymmetric supercapacitors

**Author(s):** Zhang, SF (Zhang, Shaofei); Ren, J (Ren, Jing); Gu, T (Gu, Tao); Guo, H (Guo, Hao); Wang, HQ (Wang, Hongquan); Imran, M (Imran, Muhammad); Ren, RP (Ren, Rui-Peng); Lv, YK (Lv, Yong-Kang)

**Source:** DIAMOND AND RELATED MATERIALS **Volume:** 127 **Article Number:** 109154 **DOI:** 10.1016/j.diamond.2022.109154 **Early Access Date:** JUN 2022 **Published:** AUG 2022

---

**Record 39 of 1000**

**Title:** Development of Composite Thin-Film Nanofiltration Membranes Based on Polyethersulfone for Water Purification

**Author(s):** El-Zahhar, AA (El-Zahhar, Adel A.); Alghamdi, MM (Alghamdi, Majed M.); Alshahrani, NM (Alshahrani, Norah M.); Awwad, NS (Awwad, Nasser S.); Idris, AM (Idris, Abubakr M.)

**Source:** JOURNAL OF POLYMERS AND THE ENVIRONMENT **Volume:** 30 **Issue:** 10 **Pages:** 4350-4361 **DOI:** 10.1007/s10924-022-02499-x **Early Access Date:** JUL 2022 **Published:** OCT 2022

---

**Record 40 of 1000**

**Title:** Tuning the Electronic and Charge Transport Properties of Schiff Base Compounds by Electron Donor and/or Acceptor Groups

**Author(s):** Irfan, A (Irfan, Ahmad); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Kalam, A (Kalam, Abul)

**Source:** MATERIALS **Volume:** 15 **Issue:** 23 **Article Number:** 8590 **DOI:** 10.3390/ma15238590 **Published:** DEC 2022

---

**Record 41 of 1000**

**Title:** Room-Temperature Ferromagnetism in Cu/Co Co-Doped ZnO Nanoparticles Prepared by the Co-Precipitation Method: For Spintronics Applications

**Author(s):** Kanwal, S (Kanwal, Sidra); Khan, MT (Khan, Muhammad Tahir); Mehboob, N (Mehboob, Nasir); Amami, M (Amami, Mongi); Zaman, A (Zaman, Abid)

**Source:** ACS OMEGA **Volume:** 7 **Issue:** 36 **Pages:** 32184-32193 **DOI:** 10.1021/acsomega.2c03375 **Early Access Date:** AUG 2022 **Published:** SEP 13 2022

---

**Record 42 of 1000**

**Title:** Novel MAX phase/polyaniline nanocomposite for photocatalytic degradation of toxic industrial dye

**Author(s):** Gaur, R (Gaur, Rama); Shahabuddin, S (Shahabuddin, Syed); Ahmad, I (Ahmad, Irfan)

**Source:** MATERIALS LETTERS **Volume:** 325 **Article Number:** 132888 **DOI:** 10.1016/j.matlet.2022.132888 **Early Access Date:** JUL 2022 **Published:** OCT 15 2022

---

**Record 43 of 1000**

**Title:** Thermal steam methane reforming over bimetal-loaded hemp-derived activated carbon-based catalyst for hydrogen production

**Author(s):** Minhas, R (Minhas, Rashid); Khoja, AH (Khoja, Asif Hussain); Naeem, N (Naeem, Nida); Anwar, M (Anwar, Mustafa); Shakir, S (Shakir, Sehar); Liaquat, R (Liaquat, Rabia); Din, IU (Din, Israf Ud)

**Source:** RESEARCH ON CHEMICAL INTERMEDIATES **Volume:** 49 **Issue:** 7 **Pages:** 3181-3203 **DOI:** 10.1007/s11164-022-04924-1 **Early Access Date:** DEC 2022 **Published:** JUL 2023

---

**Record 44 of 1000**

**Title:** Magnetite nanoparticles-incorporated composite thin-film nanofiltration membranes based on cellulose nitrate substrate

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

**Source:** CHEMICAL PAPERS **Volume:** 76 **Issue:** 8 **Pages:** 4795-4805 **DOI:** 10.1007/s11696-022-02204-1 **Early Access Date:** APR 2022 **Published:** AUG 2022

---

**Record 45 of 1000**

**Title:** Thin-film electrodeposition of Fe<sub>2</sub>O<sub>3</sub>/MnO<sub>2</sub> on TiO<sub>2</sub> as an anode for high energy density hybrid supercapacitor

**Author(s):** Landolsi, Z (Landolsi, Zoubaida); Ben Assaker, I (Ben Assaker, Ibtissem); Alzahrani, AYA (Alzahrani, Abdullah Y. A.); Keshk, SMAS (Keshk, Sherif M. A. S.); Chtourou, R (Chtourou, Radhouane)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 33 **Issue:** 32 **Pages:** 24857-24868 **DOI:** 10.1007/s10854-022-09196-4 **Early Access Date:** OCT 2022 **Published:** NOV 2022

---

**Record 46 of 1000**

**Title:** Theoretical investigation of Br<sub>2</sub> and Cl<sub>2</sub> detection by the pristine and Co-doped graphyne

**Author(s):** Alamri, S (Alamri, Sagr); Rajhi, AA (Rajhi, Ali A.); Heravi, M (Heravi, Mohammad)

**Source:** STRUCTURAL CHEMISTRY **Volume:** 33 **Issue:** 2 **Pages:** 539-546 **DOI:** 10.1007/s11224-021-01867-y **Early Access Date:** JAN 2022 **Published:** APR 2022

---

**Record 47 of 1000**

**Title:** Synthesis and Characterization of Hydroxyethyl Cellulose Grafted with Copolymer of Polyaniline and Polypyrrole Biocomposite for Adsorption of Dyes

**Author(s):** Bajaber, MA (Bajaber, Majed A.); Anjum, MN (Anjum, Muhammad Naveed); Ibrahim, M (Ibrahim, Muhammad); Farooq, T (Farooq, Tahir); Ahmad, MN (Ahmad, Mirza Nadeem); ul Abideen, Z (ul Abideen, Zain)

**Record 48 of 1000**

**Title:** Structural, Morphological, Dielectric, and Magnetic Properties of  $Pb_{1-x}Cr_xFe_{12}O_{19}$  M-type Hexaferrites

**Author(s):** Zahid, M (Zahid, Muhammad); Khan, HM (Khan, Hasan M.); Assiri, MA (Assiri, Mohammed A.); Imran, M (Imran, Muhammad); Buzdar, SA (Buzdar, Saeed Ahmad)

**Source:** MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS Volume: 280 Article Number: 115707 DOI: 10.1016/j.mseb.2022.115707 Early Access Date: MAR 2022 Published: JUN 2022

---

**Record 49 of 1000**

**Title:** Reduction and adsorption of hydrogen peroxide in the oxygen and beryllium vacancies of beryllium oxide nanotubes

**Author(s):** Rajhi, AA (Rajhi, Ali A.); Alamri, S (Alamri, Sagr); Ebadi, G (Ebadi, Ghaffar)

**Source:** PRAMANA-JOURNAL OF PHYSICS Volume: 96 Issue: 2 Article Number: 73 DOI: 10.1007/s12043-022-02310-5 Published: APR 7 2022

---

**Record 50 of 1000**

**Title:** Structural, dielectric, and magnetic properties of  $Sr_{0.7}Cr_{0.3}Fe_{12}O_{19}$ -polyvinyl alcohol nano-composites

**Author(s):** Zahid, M (Zahid, Muhammad); Khan, HM (Khan, Hasan M.); Buzdar, SA (Buzdar, Saeed Ahmad); Akhter, T (Akhter, Tahira); Nadeem, M (Nadeem, Muhammad); Anjum, R (Anjum, Rashida); Batool, Z (Batool, Zahida); Rahman, MIU (Rahman, Muhammad Innam Ur); Assiri, MA (Assiri, Mohammed A.); Imran, M (Imran, Muhammad)

**Source:** APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING Volume: 128 Issue: 12 Article Number: 1051 DOI: 10.1007/s00339-022-06176-7 Published: DEC 2022

---

**Record 51 of 1000**

**Title:** Assessing Surface Water Quality for Irrigation Purposes in Some Dams of Asir Region, Saudi Arabia Using Multi-Statistical Modeling Approaches

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

**Source:** WATER Volume: 14 Issue: 9 Article Number: 1439 DOI: 10.3390/w14091439 Published: MAY 2022

---

**Record 52 of 1000**

**Title:** Solvent interaction and dynamics of neurotransmitters L-aspartic acid and acid with water and ethanol

**Author(s):** Pooventhiran, T (Pooventhiran, T.); Alzahrani, AYA (Alzahrani, Abdullah Yahya Abdullah); Rajimon, KJ (Rajimon, K. J.); Thomas, R (Thomas, Renjith)

**Source:** JOURNAL OF MOLECULAR STRUCTURE Volume: 1273 Article Number: 134347 DOI: 10.1016/j.molstruc.2022.134347 Early Access Date: OCT 2022 Published: FEB 5 2023

---

**Record 53 of 1000**

**Title:** Medicinal Plants of *Solanum* Species: The Promising Sources of Phyto-Insecticidal Compounds

**Author(s):** Chidambaram, K (Chidambaram, Kumarappan); Alqahtani, T (Alqahtani, Taha); Alghazwani, Y (Alghazwani, Yahia); Aldahish, A (Aldahish, Afaf); Annadurai, S (Annadurai, Sivakumar); Venkatesan, K (Venkatesan, Kumar); Dhandapani, K (Dhandapani, Kavitha); Thilagam, E (Thilagam, Ellappan); Venkatesan, K (Venkatesan, Krishnaraju); Paulsamy, P (Paulsamy, Premalatha); Vasudevan, R (Vasudevan, Rajalakshimi); Kandasamy, G (Kandasamy, Geetha)

**Source:** JOURNAL OF TROPICAL MEDICINE Volume: 2022 Article Number: 4952221 DOI: 10.1155/2022/4952221 Published: SEP 21 2022

---

**Record 54 of 1000**

**Title:** *In silico* evaluation of *Vitis amurensis* Rupr. Polyphenol compounds for their inhibition potency against COVID-19 main enzymes M<sup>pro</sup> and RdRp

**Author(s):** Souid, I (Souid, Imen); Korchef, A (Korchef, Atef); Souid, S (Souid, Safouan)

**Record 55 of 1000**

**Title:** Development of stealth liposomal formulation of celecoxib: *In vitro* and *in vivo* evaluation

**Author(s):** Begum, MY (Begum, M. Yasmin); Osmani, RAM (M. Osmani, Riyaz Ali); Alqahtani, A (Alqahtani, Ali); Ghazwani, M (Ghazwani, Mohammed); Hani, U (Hani, Umme); Ather, H (Ather, Hissana); Atiya, A (Atiya, Akhtar); Rahamathulla, M (Rahamathulla, Mohamed); Siddiqua, A (Siddiqua, Ayesha)

**Source:** PLOS ONE Volume: 17 Issue: 4 Article Number: e0264518 DOI: 10.1371/journal.pone.0264518 Published: 2022

---

**Record 56 of 1000**

**Title:** Benzothiazole-Based Palladium Complexes as Efficient Nano-Sized Catalysts for Microwave Hydrothermal Suzuki -Miyaura Cross-Couplings

**Author(s):** Khormi, AY (Khormi, Afaf Y.); Abboud, M (Abboud, Mohamed); Hamdy, MS (Hamdy, Mohamed S.); Eissa, M (Eissa, Murad); Shaaban, MR (Shaaban, Mohamed R.)

**Source:** JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS Volume: 33 Issue: 1 Pages: 105-119 DOI: 10.1007/s10904-022-02478-8 Early Access Date: SEP 2022 Published: JAN 2023

---

**Record 57 of 1000**

**Title:** Thermo-physical properties of fluid and gases near a solar rough rotating disk

**Author(s):** Khan, M (Khan, Mair); Salahuddin, T (Salahuddin, T.); Awais, M (Awais, Muhammad); Al Alwan, B (Al Alwan, Basem)

**Source:** WAVES IN RANDOM AND COMPLEX MEDIA DOI: 10.1080/17455030.2022.2070685 Early Access Date: MAY 2022

---

**Record 58 of 1000**

**Title:** AIEE active J-aggregates of naphthalimide based fluorescent probe for detection of Nitrobenzene: Combined experimental and theoretical approaches for Non-covalent interaction analysis

**Author(s):** Khadija (Khadija); Irshad, H (Irshad, Hasher); Rafique, S (Rafique, Sanwa); Khan, AM (Khan, Asad Muhammad); Nawazish, S (Nawazish, Shamilya); Rehman, HU (Rehman, Habib Ur); Imran, M (Imran, Muhammad); Shahzad, SA (Shahzad, Sohail Anjum); Farooq, U (Farooq, Umar)

**Source:** SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY Volume: 290 Article Number: 122273 DOI: 10.1016/j.saa.2022.122273 Early Access Date: DEC 2022 Published: APR 5 2023

---

**Record 59 of 1000**

**Title:** Computational study of 2N-atom functionalized corannulene by alkali metals doping: Towards the development of highly efficient nonlinear optical materials

**Author(s):** Nazir, R (Nazir, Rabia); Yaqoob, J (Yaqoob, Junaid); Khan, MU (Khan, Muhammad Usman); Gilani, MA (Gilani, Mazhar Amjad); Hussain, R (Hussain, Riaz); Alvi, MU (Alvi, Muhammad Usman); Rashid, M (Rashid, Muhammad); Assiri, MA (Assiri, Mohammed A.); Imran, M (Imran, Muhammad)

**Source:** PHYSICA B-CONDENSED MATTER Volume: 640 Article Number: 414041 DOI: 10.1016/j.physb.2022.414041 Early Access Date: JUN 2022 Published: SEP 1 2022

---

**Record 60 of 1000**

**Title:** Design, Synthesis, Docking Studies and Antimicrobial Activity of 5-Substituted 4-Phenyl-2-(Phenylamino) Thiophene-3-Carboxylic Acid Ethyl Esters

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

**Source:** POLYCYCLIC AROMATIC COMPOUNDS Volume: 43 Issue: 3 Pages: 1929-1940 DOI: 10.1080/10406638.2022.2036775 Early Access Date: JAN 2022 Published: MAR 16 2023

---

**Record 61 of 1000**

**Title:** Exploring the structural, electronic, optical, and thermoelectric properties of potassium-based double perovskites K<sub>2</sub>AgX<sub>16</sub> (X = Sb, Bi) compounds: A DFT study



**Author(s):** Manzoor, M (Manzoor, Mumtaz); Iqbal, MW (Iqbal, Muhammad Waqas); Noor, NA (Noor, Naveed Ahmad); Ullah, H (Ullah, Hamid); Sharma, R (Sharma, Ramesh); Alarfaji, SS (Alarfaji, Saleh S.)

**Source:** MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS **Volume:** 287 **Article Number:** 116122 **DOI:** 10.1016/j.mseb.2022.116122 **Early Access Date:** NOV 2022 **Published:** JAN 2023

---

#### Record 62 of 1000

**Title:** WATER QUALITY INDEX AND WATER QUALITY STANDARDS FOR THE ASSESSMENT OF GROUNDWATER QUALITY IN GREAT KORDUFAN STATES, SUDAN

**Author(s):** Yasin, S (Yasin, Sahl); Adam, M (Adam, Marwan); Idris, AM (Idris, Abubakr M.)

**Source:** FRESENIUS ENVIRONMENTAL BULLETIN **Volume:** 31 **Issue:** 1 **Pages:** 157-165 **Published:** 2022

---

#### Record 63 of 1000

**Title:** Morphometric deterministic model for prediction of sediment yield index for selected watersheds in upper Narmada Basin

**Author(s):** Meshram, SG (Meshram, Sarita Gajbhiye); Meshram, C (Meshram, Chandrashekhar); Abul Hasan, M (Abul Hasan, Mohd); Khan, MA (Khan, Muhammad Arshad); Islam, S (Islam, Saiful)

**Source:** APPLIED WATER SCIENCE **Volume:** 12 **Issue:** 7 **Article Number:** 153 **DOI:** 10.1007/s13201-022-01644-0 **Published:** JUL 2022

---

#### Record 64 of 1000

**Title:** Synthesis and *in Silico* Docking Studies of Ethyl 2-(2-Arylidene-1-alkylhydrazinyl)thiazole-4-carboxylates as Antiglycating Agents

**Author(s):** Shahzadi, K (Shahzadi, Kiran); Haroon, M (Haroon, Muhammad); Khalid, M (Khalid, Muhammad); Akhtar, T (Akhtar, Tashfeen); Ghous, T (Ghous, Tahseen); Alam, MM (Alam, Mohammed Mujahid); Imran, M (Imran, Muhammad)

**Source:** CHEMISTRY & BIODIVERSITY **Volume:** 19 **Issue:** 2 **Article Number:** e202100581 **DOI:** 10.1002/cbdv.202100581 **Early Access Date:** JAN 2022 **Published:** FEB 2022

---

#### Record 65 of 1000

**Title:** Purification and characterization of pectinase from gut-associated *Klebsiella oxytoca* af-G4 of dwarf honey bee, *Apis florea*

**Author(s):** Ganeshprasad, DN (Ganeshprasad, D. N.); Khan, KA (Khan, Khalid Ali); Ghramh, HA (Ghramh, Hamed A.); Al-Shehri, BM (Al-Shehri, Badria M.); Sneharani, AH (Sneharani, A. H.)

**Source:** JOURNAL OF KING SAUD UNIVERSITY SCIENCE **Volume:** 34 **Issue:** 8 **Article Number:** 102301 **DOI:** 10.1016/j.jksus.2022.102301 **Published:** NOV 2022

---

#### Record 66 of 1000

**Title:** Ligand-mediated band structure engineering and physiochemical properties of UiO-66 (Zr) metal-organic frameworks (MOFs) for solar-driven degradation of dye molecules

**Author(s):** Gayathri, K (Gayathri, K.); Vinothkumar, K (Vinothkumar, K.); Teja, YN (Teja, Y. N.); Al-Shehri, BM (Al-Shehri, Badria M.); Selvaraj, M (Selvaraj, Manickam); Sakar, M (Sakar, M.); Balakrishna, RG (Balakrishna, R. Geetha)

**Source:** COLLOIDS AND SURFACES A-PHYSICO-CHEMICAL AND ENGINEERING ASPECTS **Volume:** 653 **Article Number:** 129992 **DOI:** 10.1016/j.colsurfa.2022.129992 **Early Access Date:** AUG 2022 **Published:** NOV 20 2022

---

#### Record 67 of 1000

**Title:** A new 5-bromoindolehydrazone anchored diiodosalicylaldehyde derivative as efficient fluoro and chromophore for selective and sensitive detection of tryptamine and F<sup>-</sup> ions: Applications in live cell imaging

**Author(s):** Karuppiah, K (Karuppiah, Krishnaveni); Nelson, M (Nelson, Malini); Alam, MM (Alam, M. Mujahid); Selvaraj, M (Selvaraj, Manickam); Sepperumal, M (Sepperumal, Murugesan); Ayyanar, S (Ayyanar, Siva)

**Source:** SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY **Volume:** 269 **Article Number:** 120777 **DOI:** 10.1016/j.saa.2021.120777 **Published:** MAR 15 2022

---

#### Record 68 of 1000

**Title:** Enhanced Structural and Dielectric Properties of Calcium and Chromium-Based *M*-Type Hexagonal Ferrites with Polyvinyl Alcohol (PVA) Polymer Composites (vol 17, 2250048, 2022)

**Author(s):** Zahid, M (Zahid, Muhammad); Khan, HM (Khan, Hasan M.); Zaheer, B (Zaheer, Beenish); Imran, M (Imran, Muhammad); Assiri, MA (Assiri, Muhammad A.); Rehman, AU (Rehman, Aziz Ur); Batool, Z (Batool, Zahida)

**Source:** NANO **Volume:** 17 **Issue:** 09 **Article Number:** 2292001 **DOI:** 10.1142/S17932920222920011 **Early Access Date:** SEP 2022 **Published:** AUG 2022

---

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

**Title:** Synthesis and characterization of porous TiO<sub>2</sub> film decorated with bilayer hematite thin film for effective photocatalytic activity

**Author(s):** Landolsi, Z (Landolsi, Zoubaida); ben Assaker, I (ben Assaker, Ibtissem); Nunes, D (Nunes, Daniela); Alzahrani, AYA (Alzahrani, Abdullah Y. A.); Keshk, SMAS (Keshk, Sherif M. A. S.); Chtourou, R (Chtourou, Radhouane)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 144 **Article Number:** 109865 **DOI:** 10.1016/j.inoche.2022.109865 **Early Access Date:** AUG 2022 **Published:** OCT 2022

---

#### **Record 70 of 1000**

**Title:** Synthesis of hybrid biosorbent based on 1,2-cyclohexylenedinitrilotetra-acetic acid modified crosslinked chitosan and organo-functionalized calcium alginate for adsorptive removal of Cu(II)

**Author(s):** Shehzad, H (Shehzad, Hamza); Farooqi, ZH (Farooqi, Zahoor H.); Ahmed, E (Ahmed, Ejaz); Sharif, A (Sharif, Ahsan); Razzaq, S (Razzaq, Sana); Mirza, FN (Mirza, Fatima Noor); Irfan, A (Irfan, Ahmad); Begum, R (Begum, Robina)

**Source:** INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES **Volume:** 209 **Pages:** 132-143 **DOI:** 10.1016/j.ijbiomac.2022.04.012 **Early Access Date:** APR 2022 **Part:** A **Published:** JUN 1 2022

---

#### **Record 71 of 1000**

**Title:** Numerical solution of Arrhenius activation energy for rotational flow

**Author(s):** Khan, M (Khan, Mair); Salahuddin, T (Salahuddin, T.); Taj, M (Taj, Moeen); Al Alwan, B (Al Alwan, Basem)

**Source:** WAVES IN RANDOM AND COMPLEX MEDIA **DOI:** 10.1080/17455030.2022.2063990 **Early Access Date:** APR 2022

---

#### **Record 72 of 1000**

**Title:** TD-DFT method of analysis of fluorescent detection of bisulphite ion in an aqueous solution by a pyrene-based chemodosimeter

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

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 349 **Article Number:** 118129 **DOI:** 10.1016/j.molliq.2021.118129 **Early Access Date:** FEB 2022 **Published:** MAR 1 2022

---

#### **Record 73 of 1000**

**Title:** Design and Synthesis of Some New Benzothiazolyl-pyrazole Derivatives as Potential Anti-dengue Agents

**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)

**Source:** INDIAN JOURNAL OF HETEROCYCLIC CHEMISTRY **Volume:** 32 **Issue:** 1 **Pages:** 29-33 **Published:** JAN-MAR 2022

---

#### **Record 74 of 1000**

**Title:** Preparation and supercapacitor performance of melamine-modified 12-molybdophosphate and its N-doped carbon-coated copper and molybdenum carbide derivatives

**Author(s):** Wang, LY (Wang, Liying); Luo, H (Luo, Huan); Wang, CM (Wang, Chunmei); Yu, K (Yu, Kai); Gong, LG (Gong, Lige); Wang, CX (Wang, Chunxiao); Imran, M (Imran, Muhammad); Zhou, BB (Zhou, Baibin)

**Source:** JOURNAL OF ENERGY STORAGE **Volume:** 52 **Article Number:** 104985 **DOI:** 10.1016/j.est.2022.104985 **Early Access Date:** JUN 2022 **Part:** B **Published:** AUG 15 2022

---

#### **Record 75 of 1000**

**Title:** Significance of binary chemical reaction, enthalpy and variable thermophysical properties over a radioactive heated rotated disk

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

**Source:** CHINESE JOURNAL OF PHYSICS **Volume:** 77 **Pages:** 511-520 **DOI:** 10.1016/j.cjph.2022.03.015 **Early**

**Access Date:** MAR 2022 **Published:** JUN 2022

---

#### **Record 76 of 1000**

**Title:** Dynamics of Walters' B fluid due to periodic wave in a convectively heated channel with internal heat generation

**Author(s):** Tanveer, A (Tanveer, Anum); Khan, M (Khan, Mair); Salahuddin, T (Salahuddin, T.); Al Alwan, B (Al Alwan, Basem); Amari, A (Amari, Abdelfattah)

**Source:** MATHEMATICS AND COMPUTERS IN SIMULATION **Volume:** 199 **Pages:** 374-393 **DOI:**

10.1016/j.matcom.2022.03.018 **Early Access Date:** APR 2022 **Published:** SEP 2022

---

#### **Record 77 of 1000**

**Title:** A flow analysis of gamma-alumina nanoparticles near a solid sphere

**Author(s):** Sakinder, S (Sakinder, S.); Salahuddin, T (Salahuddin, T.); Taj, M (Taj, M.); Khan, M (Khan, M.); Al Alwan, B (Al Alwan, Basem)

**Source:** WAVES IN RANDOM AND COMPLEX MEDIA **DOI:** 10.1080/17455030.2022.2048122 **Early Access Date:** MAR 2022

---

#### **Record 78 of 1000**

**Title:** A flow analysis of hybrid nanoparticles near a solid sphere

**Author(s):** Salahuddin, T (Salahuddin, T.); Khan, M (Khan, Mair); Sakinder, S (Sakinder, S.); Al Alwan, B (Al Alwan, Basem)

**Source:** INTERNATIONAL JOURNAL OF HYDROGEN ENERGY **Volume:** 47 **Issue:** 37 **Pages:** 16640-

16648 **DOI:** 10.1016/j.ijhydene.2022.03.121 **Early Access Date:** APR 2022 **Published:** APR 30 2022

---

#### **Record 79 of 1000**

**Title:** Characterization of polycrystalline SnSe<sub>2</sub> thin films for thermoelectric applications grown by single-stage horizontal tube furnace (SSHTF)

**Author(s):** Rehman, A (Rehman, A.); Ali, A (Ali, A.); Ikram, S (Ikram, Salma); Amami, M (Amami, Mongi); Mahmood, K (Mahmood, K.)

**Source:** OPTICAL MATERIALS **Volume:** 133 **Article Number:** 112797 **DOI:** 10.1016/j.optmat.2022.112797 **Early**

**Access Date:** AUG 2022 **Published:** NOV 2022

---

#### **Record 80 of 1000**

**Title:** Hybrid nanofluid analysis for a class of alumina particles

**Author(s):** Salahuddin, T (Salahuddin, T.); Bashir, AM (Bashir, Abdul Mosan); Khan, M (Khan, Mair); Al Alwan, B (Al Alwan, Basem); Almesfer, M (Almesfer, Mohammad)

**Source:** CHINESE JOURNAL OF PHYSICS **Volume:** 77 **Pages:** 2550-2560 **DOI:** 10.1016/j.cjph.2021.11.012 **Early**

**Access Date:** MAY 2022 **Published:** JUN 2022

---

#### **Record 81 of 1000**

**Title:** Insighting the optoelectronic, charge transfer and biological potential of benzo-thiadiazole and its derivatives

**Author(s):** Chaudhry, AR (Chaudhry, Aijaz Rasool); Alhujaily, M (Alhujaily, Muhanad); Muhammad, S (Muhammad, Shabbir); Elbadri, GA (Elbadri, Gamal A.); Belali, TM (Belali, Tareg M.); Al-Sehemi, AG (Al-Sehemi, Abdullah G.)

**Source:** ZEITSCHRIFT FUR NATURFORSCHUNG SECTION C-A JOURNAL OF BIOSCIENCES **Volume:**

77 **Issue:** 9-10 **Pages:** 403-415 **DOI:** 10.1515/znc-2021-0306 **Early Access Date:** APR 2022 **Published:** SEP 27 2022

---

#### **Record 82 of 1000**

**Title:** A First-Principles Investigation on the Structural, Optoelectronic, and Thermoelectric Properties of Pyrochlore Oxides (La<sub>2</sub>Tm<sub>2</sub>O<sub>7</sub> (Tm = Hf, Zr)) for Energy Applications

**Author(s):** Abbas, Z (Abbas, Zeesham); Hussain, S (Hussain, Sajjad); Muhammad, S (Muhammad, Shabbir); Siddeeg, SM (Siddeeg, Saifeldin M.); Jung, J (Jung, Jongwan)

**Source:** INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES **Volume:** 23 **Issue:** 23 **Article Number:**

15266 **DOI:** 10.3390/ijms232315266 **Published:** DEC 2022

---

#### **Record 83 of 1000**

**Title:** Recent Advances in 2D-MXene Based Nanocomposites for Optoelectronics

**Author(s):** Ali, S (Ali, Sarfraz); Raza, A (Raza, Ali); Afzal, AM (Afzal, Amir Muhammad); Iqbal, MW (Iqbal, Muhammad Waqas); Hussain, M (Hussain, Muhammad); Imran, M (Imran, Muhammad); Assiri, MA (Assiri, Mohammed A.)

**Source:** ADVANCED MATERIALS INTERFACES **Volume:** 9 **Issue:** 31 **Article Number:** 2200556 **DOI:** 10.1002/admi.202200556 **Early Access Date:** SEP 2022 **Published:** NOV 2022

---

#### Record 84 of 1000

**Title:** First example of N-shaped dipyrrolo[2,3-b:2',3'-e]pyrazine-2,6(1H,5H)-dione based small acceptor materials: Role of cyano (-CN) free guest acceptors for developing environmental friendly organic solar cells

**Author(s):** Ishaq, A (Ishaq, Arooj); Alvi, MU (Alvi, Muhammad Usman); Alvi, Y (Alvi, Yusra); Khan, MU (Khan, Muhammad Usman); Yaqoob, J (Yaqoob, Junaid); Hussain, R (Hussain, Riaz); Alam, MM (Alam, Mohammed Mujahid); Imran, M (Imran, Muhammad)

**Source:** EUROPEAN PHYSICAL JOURNAL PLUS **Volume:** 137 **Issue:** 4 **Article Number:** 456 **DOI:** 10.1140/epjp/s13360-022-02595-w **Published:** APR 11 2022

---

#### Record 85 of 1000

**Title:** Stereoselective total synthesis of Aspergillide D

**Author(s):** Kumari, K (Kumari, Krishnaiah); Syed, T (Syed, Tasqeeruddin); Krishna, AMS (Krishna, A. M. S.); Muvvala, S (Muvvala, Subhashini); Nowduri, A (Nowduri, Annapurna); Sridhar, C (Sridhar, Chidara); Saxena, A (Saxena, Abhishek)

**Source:** NATURAL PRODUCT RESEARCH **Volume:** 37 **Issue:** 20 **Pages:** 3402-3408 **DOI:** 10.1080/14786419.2022.2078321 **Early Access Date:** MAY 2022 **Published:** OCT 18 2023

---

#### Record 86 of 1000

**Title:** Stereoselective total synthesis of Neocosmosin B

**Author(s):** Kumari, K (Kumari, Krishnaiah); Syed, T (Syed, Tasqeeruddin); Krishna, AMS (Krishna, A. M. S.); Muvvala, S (Muvvala, Subhashini); Nowduri, A (Nowduri, Annapurna); Sridhar, C (Sridhar, Chidara); Saxena, A (Saxena, Abhishek)

**Source:** TETRAHEDRON **Volume:** 112 **Article Number:** 132723 **DOI:** 10.1016/j.tet.2022.132723 **Early Access Date:** APR 2022 **Published:** APR 23 2022

---

#### Record 87 of 1000

**Title:** Synthesis of unsupported nanotube and flower-like nickel based structures as novel catalyst for ultra-low desulfurization of heavy gas oil at mild condition

**Author(s):** El Nagggar, AMA (El Nagggar, Ahmed M. A.); El-Sayed, HA (El-Sayed, Hussien A.); Shalaby, NH (Shalaby, Nasser H.); El-Zahhar, AA (El-Zahhar, Adel A.); Aboutaleb, WA (Aboutaleb, Wael A.)

**Source:** INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY **DOI:** 10.1080/03067319.2022.2139615 **Early Access Date:** NOV 2022

---

#### Record 88 of 1000

**Title:** Gate modulation of the spin current in graphene/WSe<sub>2</sub> van der Waals heterostructure at room temperature

**Author(s):** Dastgeer, G (Dastgeer, Ghulam); Afzal, AM (Afzal, Amir Muhammad); Jaffery, SHA (Jaffery, Syed Hassan Abbas); Imran, M (Imran, Muhammad); Assiri, MA (Assiri, Mohammed A.); Nisar, S (Nisar, Sobia)

**Source:** JOURNAL OF ALLOYS AND COMPOUNDS **Volume:** 919 **Article Number:** 165815 **DOI:** 10.1016/j.jallcom.2022.165815 **Published:** OCT 25 2022

---

#### Record 89 of 1000

**Title:** Developing a new method for future groundwater potentiality mapping under climate change in Bisha watershed, Saudi Arabia

**Author(s):** Mallick, J (Mallick, Javed); Almesfer, MK (Almesfer, Mohammed K.); Alsubih, M (Alsubih, Majed); Talukdar, S (Talukdar, Swapan); Ahmed, M (Ahmed, Mohd); Ben Kahla, N (Ben Kahla, Nabil)

**Source:** GEOCARTEO INTERNATIONAL **Volume:** 37 **Issue:** 26 **Pages:** 14495-14527 **DOI:** 10.1080/10106049.2022.2088861 **Early Access Date:** JUN 2022 **Published:** DEC 13 2022

---

#### Record 90 of 1000

**Title:** Switching of support materials for the hydrogenation of nitroarenes: A review

**Author(s):** Lakshminarayana, B (Lakshminarayana, Bhairi); Selvaraj, M (Selvaraj, M.); Satyanarayana, G (Satyanarayana, G.); Subrahmanyam, C (Subrahmanyam, Ch)

**Source:** CATALYSIS REVIEWS-SCIENCE AND ENGINEERING **Volume:** 66 **Issue:** 1 **Pages:** 259-342 **DOI:** 10.1080/01614940.2022.2057045 **Early Access Date:** MAY 2022 **Published:** JAN 2 2024

---

#### Record 91 of 1000

**Title:** The role of enthalpy and activation energy on thermophysical properties of third grade fluid near a magnetized radioactive irregular wavy surface

**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:** RESULTS IN PHYSICS **Volume:** 34 **Article Number:** 105063 **DOI:** 10.1016/j.rinp.2021.105063 **Early Access Date:** FEB 2022 **Published:** MAR 2022

---

#### Record 92 of 1000

**Title:** Spectroscopic and DFT/TD-DFT studies on selective and sensitive fluorescent detection of Al(III) ion

**Author(s):** Nandhini, C (Nandhini, C.); Kumar, PS (Kumar, P. Saravana); Shanmugapriya, R (Shanmugapriya, R.); Satheeskumar, K (Satheeskumar, K.); 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:** 1268 **Article Number:** 133685 **DOI:** 10.1016/j.molstruc.2022.133685 **Early Access Date:** JUL 2022 **Published:** NOV 15 2022

---

#### Record 93 of 1000

**Title:** Molecular Design and Cost-Effective Synthesis of Tetraphenylethene-Based Hole-Transporting Materials for Hybrid Solar Cell Application

**Author(s):** Muniyasamy, H (Muniyasamy, Harikrishnan); Muthusamy, K (Muthusamy, Kandasamy); Chinnamadhayan, M (Chinnamadhayan, Muniyappan); Sepperumal, M (Sepperumal, Murugesan); Ayyanar, S (Ayyanar, Siva); Selvaraj, M (Selvaraj, Manickam)

**Source:** ENERGY & FUELS **Volume:** 36 **Issue:** 7 **Pages:** 3909-3919 **DOI:** 10.1021/acs.energyfuels.1c03879 **Published:** APR 7 2022

---

#### Record 94 of 1000

**Title:** AIEE active stilbene based fluorescent sensor with red-shifted emission for vapor phase detection of nitrobenzene and moisture sensing

**Author(s):** Rafique, S (Rafique, Sanwa); Irshad, H (Irshad, Hasher); Majeed, S (Majeed, Shumaila); Khadija (Khadija); Rubab, R (Rubab, Rimsha); Imran, M (Imran, Muhammad); Khan, AM (Khan, Asad Muhammad); Shahzad, SA (Shahzad, Sohail Anjum)

**Source:** JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY **Volume:** 437 **Article Number:** 114459 **DOI:** 10.1016/j.jphotochem.2022.114459 **Early Access Date:** DEC 2022 **Published:** MAR 1 2023

---

#### Record 95 of 1000

**Title:** An analysis on the flow behavior of MHD nanofluid with heat generation

**Author(s):** Salahuddin, T (Salahuddin, T.); Khan, MHU (Khan, Muhammad Habib Ullah); Khan, M (Khan, Mair); Al Alwan, B (Al Alwan, Basem); Amari, A (Amari, Abdelfattah)

**Source:** FUEL **Volume:** 311 **Article Number:** 122548 **DOI:** 10.1016/j.fuel.2021.122548 **Early Access Date:** JAN 2022 **Published:** MAR 1 2022

---

#### Record 96 of 1000

**Title:** Insights into the new cobalt (II) monosubstituted keggin-type polyoxomolybdate: synthesis, characterizations, and application in the catalytic degradation of crystal violet dye

**Author(s):** Ghandour, Y (Ghandour, Yassine); Mchiri, C (Mchiri, Chadlia); Mestiri, I (Mestiri, Imen); Alzahrani, AYA (Alzahrani, Abdullah Y. A.); Nasri, H (Nasri, Habib)

**Source:** JOURNAL OF CHEMICAL SCIENCES **Volume:** 134 **Issue:** 3 **Article Number:** 78 **DOI:** 10.1007/s12039-022-02071-z **Published:** JUL 20 2022

---

#### Record 97 of 1000

**Title:** Design, and Synthesis of Aryl Derivatives of Imidazopyridine-Thiadiazoles as Possible Anticancer Agents

**Author(s):** Mannem, GR (Mannem, Gangadhara Rao); Navudu, R (Navudu, Ramesh); Dubasi, N (Dubasi, Narsimhaswamy); Mohammed, MA (Mohammed, Mujahid Alam); Bollikolla, HB (Bollikolla, Hari Babu)

**Source:** CHEMISTRYSELECT **Volume:** 7 **Issue:** 19 **Article Number:** e202200455 **DOI:** 10.1002/slct.202200455 **Published:** MAY 19 2022

---

#### Record 98 of 1000

**Title:** A significant impact of Carreau Yasuda material near a zero velocity region

**Author(s):** Salahuddin, T (Salahuddin, T.); Javed, A (Javed, Aqib); Khan, M (Khan, Mair); Awais, M (Awais, Muhammad); Al Alwan, B (Al Alwan, Basem)

**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 15 **Issue:** 10 **Article Number:** 104166 **DOI:** 10.1016/j.arabjc.2022.104166 **Early Access Date:** AUG 2022 **Published:** OCT 2022

---

#### Record 99 of 1000

**Title:** Calculating the isotropic and anisotropic roughness by using MW model: A variable thermal conductivity study

**Author(s):** Khan, M (Khan, Mair); Salahuddin, T (Salahuddin, T.); Altanji, M (Altanji, Mohamed); Khan, Q (Khan, Qaisar)

**Source:** RADIATION PHYSICS AND CHEMISTRY **Volume:** 194 **Article Number:** 110010 **DOI:** 10.1016/j.radphyschem.2022.110010 **Early Access Date:** FEB 2022 **Published:** MAY 2022

---

#### Record 100 of 1000

**Title:** Nonlinear optical response of 9,10-bis(phenylethynyl)anthracene mediated by electron donating and electron withdrawing substituents: A density functional theory approach

**Author(s):** Rasool, F (Rasool, Faiz); Hussain, A (Hussain, Ajaz); Yar, M (Yar, Muhammad); Ayub, K (Ayub, Khurshid); Sajid, M (Sajid, Muhammad); Khan, MA (Khan, Muhammad Ali); Asif, HM (Asif, Hafiz Muhammad); Imran, M (Imran, Muhammad); Assiri, MA (Assiri, Mohammed A.)

**Source:** MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING **Volume:** 148 **Article Number:** 106751 **DOI:** 10.1016/j.mssp.2022.106751 **Early Access Date:** MAY 2022 **Published:** SEP 2022

---

#### Record 101 of 1000

**Title:** Fractional Analysis of Dissipative Viscous Fluid Flow with Mixed Convection and Variable Viscosity

**Author(s):** Mouldi, A (Mouldi, Abir); Marzouki, R (Marzouki, Riadh); El Ouni, MH (El Ouni, Mohamed Hechmi); Bariq, A (Bariq, Abdul)

**Source:** JOURNAL OF NANOMATERIALS **Volume:** 2022 **Article Number:** 4848864 **DOI:** 10.1155/2022/4848864 **Published:** APR 6 2022

---

#### Record 102 of 1000

**Title:** Status of artificial sweeteners, glucose oxidase and some quality parameters of honey samples from the Asir region, Saudi Arabia

**Author(s):** AL-Shehri, BM (AL-Shehri, Badria M.); Mashat, RM (Mashat, Reham M.); Alshareef, RMH (Alshareef, Rahaf M. H.); Alaerjani, WMA (Alaerjani, Wed Mohammed Ali); Khan, KA (Khan, Khalid Ali); Ghramh, HA (Ghramh, Hamed A.); Ibrahim, EH (Ibrahim, Essam H.); Bajaber, MA (Bajaber, Majed A.); Zarbah, AA (Zarbah, Abdulaziz A.); Mohammed, MEA (Mohammed, Mohammed Elimam Ahamed)

**Source:** JOURNAL OF KING SAUD UNIVERSITY SCIENCE **Volume:** 34 **Issue:** 6 **Article Number:** 102209 **DOI:** 10.1016/j.jksus.2022.102209 **Early Access Date:** JUL 2022 **Published:** AUG 2022

---

#### Record 103 of 1000

**Title:** Anti-Diabetic Activity of Bioactive Compound Extracted from *Spondias mangifera* Fruit: In-Vitro and Molecular Docking Approaches

**Author(s):** Khalid, M (Khalid, Mohammad); Alqarni, MH (Alqarni, Mohammed H.); Alsayari, A (Alsayari, Abdulrhman); Foudah, AI (Foudah, Ahmed, I); Aljarba, TM (Aljarba, Tariq M.); Mukim, M (Mukim, Mohammad); Alamri, MA (Alamri, Mubarak A.); Abullais, SS (Abullais, Shahabe Saquib); Wahab, S (Wahab, Shadma)

**Source:** PLANTS-BASEL **Volume:** 11 **Issue:** 4 **Article Number:** 562 **DOI:** 10.3390/plants11040562 **Published:** FEB 2022

---

#### Record 104 of 1000

**Title:** Novel 5-Ethoxy-5*H*-5 $\lambda$ -[1,2,4]triazolo[5,1-*e*][1,4,2]diazaphosphol-5-ones: One-Pot Synthesis, Characterization, and Antimicrobial Activities

**Author(s):** Ali, TE (Ali, T. E.); Assiri, MA (Assiri, M. A.)

**Source:** RUSSIAN JOURNAL OF ORGANIC CHEMISTRY **Volume:** 58 **Issue:** 1 **Pages:** 94-98 **DOI:** 10.1134/S1070428022010134 **Published:** JAN 2022

---

#### Record 105 of 1000

**Title:** Innovative synthesis of non-porous polyurethane membranes with enhanced mechanical, thermal and adsorption properties

**Author(s):** Shoukat, A (Shoukat, Aiza); Zubair, M (Zubair, Mohammad); Uddin, J (Uddin, Jalal); Khan, A (Khan, Ajmal); Al-Harrasi, A (Al-Harrasi, Ahmed)

**Source:** POLYMER BULLETIN **Volume:** 80 **Issue:** 7 **Pages:** 7429-7450 **DOI:** 10.1007/s00289-022-04383-z **Early Access Date:** AUG 2022 **Published:** JUL 2023

---

#### Record 106 of 1000

**Title:** Enhanced methane decomposition over transition metal-based tri-metallic catalysts for the production of CO<sub>x</sub> free hydrogen

**Author(s):** Al Alwan, BA (Al Alwan, Basem Abdulla); Shah, M (Shah, Mumtaj); Danish, M (Danish, Mohd); Al Mesfer, MK (Al Mesfer, Mohammed K.); Khan, MI (Khan, Mohammed Ilyas); Natarajan, V (Natarajan, Varagunapandiyan)

**Source:** JOURNAL OF THE INDIAN CHEMICAL SOCIETY **Volume:** 99 **Issue:** 4 **Article Number:** 100393 **DOI:** 10.1016/j.jics.2022.100393 **Early Access Date:** MAR 2022 **Published:** APR 2022

---

#### Record 107 of 1000

**Title:** Synthesis, Spectroscopic and Biological Investigation of a New Ca(II) Complex of Meloxicam as Potential COX-2 Inhibitor

**Author(s):** Samra, MM (Samra, Malka M.); Sadia, A (Sadia, Aatika); Azam, M (Azam, Muhammad); Imran, M (Imran, Muhammad); Ahmad, I (Ahmad, Irfan); Basra, MAR (Basra, Muhammad Asim Raza)

**Source:** ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING **Volume:** 47 **Issue:** 6 **Pages:** 7105-7122 **DOI:** 10.1007/s13369-021-06521-7 **Early Access Date:** JAN 2022 **Published:** JUN 2022

---

#### Record 108 of 1000

**Title:** Machine learning and molecular dynamics simulation-assisted evolutionary design and discovery pipeline to screen efficient small molecule acceptors for PTB7-Th-based organic solar cells with over 15% efficiency

**Author(s):** Mahmood, A (Mahmood, Asif); Irfan, A (Irfan, Ahmad); Wang, JL (Wang, Jin-Liang)

**Source:** JOURNAL OF MATERIALS CHEMISTRY A **Volume:** 10 **Issue:** 8 **Pages:** 4170-4180 **DOI:** 10.1039/d1ta09762h **Early Access Date:** JAN 2022 **Published:** FEB 22 2022

---

#### Record 109 of 1000

**Title:** Zn(OAc)<sub>2</sub>•2H<sub>2</sub>O-Catalyzed Betti Base Synthesis under Solvent-free Conditions

**Author(s):** Alam, MM (Alam, M. Mujahid); Bollikolla, HB (Bollikolla, Hari B.); Varala, R (Varala, Ravi)

**Source:** LETTERS IN ORGANIC CHEMISTRY **Volume:** 19 **Issue:** 1 **Pages:** 14-18 **DOI:** 10.2174/1570178618666210616155257 **Published:** 2022

---

#### Record 110 of 1000

**Title:** Structural, optoelectronic and thermal response of new stable MgBe<sub>2</sub>X<sub>2</sub> (X = As, P) Zintl phases: First-principles calculation

**Author(s):** Ain, Q (Ain, Quratul); Ullah, H (Ullah, Hamid); Munir, J (Munir, Junaid); Yousef, E (Yousef, El Sayed)

**Source:** MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS **Volume:** 287 **Article Number:** 116136 **DOI:** 10.1016/j.mseb.2022.116136 **Early Access Date:** NOV 2022 **Published:** JAN 2023

---

#### Record 111 of 1000

**Title:** REGIOSELECTIVE SYNTHESIS OF SOME NOVEL PHOSPHONOPYRAZOLE, PHOSPHONOPYRIMIDINE AND PHOSPHONODIAZEPINE COMPOUNDS CONTAINING COUMARIN RING

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

**Source:** HETEROCYCLES **Volume:** 104 **Issue:** 9 **Pages:** 1573-1583 **DOI:** 10.3987/COM-22-14685 **Published:** JUN 24 2022

---

#### Record 112 of 1000

**Title:** Effect of titania synthesis conditions on the catalytic performance of mesoporous Ni/TiO<sub>2</sub> catalysts for carbon dioxide reforming of methane

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

**Source:** INTERNATIONAL JOURNAL OF HYDROGEN ENERGY **Volume:** 47 **Issue:** 14 **Pages:** 8867-8874 **DOI:** 10.1016/j.ijhydene.2021.12.246 **Early Access Date:** FEB 2022 **Published:** FEB 15 2022

---

#### Record 113 of 1000

**Title:** Computational investigation into structural, topological, electronic properties, and biological evaluation of spiro[1H-indole-3,2'-3H-1,3-benzothiazole]-2-one

**Author(s):** Parakkal, SC (Parakkal, Sheryl Cherian); Datta, R (Datta, Riya); Muthu, S (Muthu, S.); Irfan, A (Irfan, Ahmad); Jeelani, A (Jeelani, A.)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 359 **Article Number:** 119234 **DOI:** 10.1016/j.molliq.2022.119234 **Early Access Date:** MAY 2022 **Published:** AUG 1 2022

---

#### Record 114 of 1000

**Title:** Insighting the Therapeutic Potential of Fifty (50) Shogaol Derivatives Against M<sup>pro</sup> of SARS-CoV-2

**Author(s):** Muhammad, S (Muhammad, Shabbir); Amin, S (Amin, Saniyah); Iqbal, J (Iqbal, Javed); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Alarfaji, SS (Alarfaji, Saleh S.); Ilyas, M (Ilyas, Mubashar); Atif, M (Atif, Muhammad); Ullah, S (Ullah, Sami)

**Source:** JOURNAL OF COMPUTATIONAL BIOPHYSICS AND CHEMISTRY **Volume:** 21 **Issue:** 05 **Pages:** 555-568 **DOI:** 10.1142/S273741652250020X **Published:** AUG 2022

---

#### Record 115 of 1000

**Title:** Synthesis, Spectroscopic, Molecular Docking and inhibitory activity of 6-Bromo-2-(4-chlorophenyl)-1H-benzimidazole- a DFT approach

**Author(s):** Fasiuddin, GS (Fasiuddin, G. S.); Khan, FLA (Khan, F. Liakath Ali); Sakthivel, S (Sakthivel, S.); Muthu, S (Muthu, S.); Irfan, A (Irfan, Ahmad)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1261 **Article Number:** 132815 **DOI:** 10.1016/j.molstruc.2022.132815 **Early Access Date:** MAR 2022 **Published:** AUG 5 2022

---

#### Record 116 of 1000

**Title:** Facile and Novel Synthesis of Spiky Gold Nanoparticles as an Efficient Antimicrobial Agent against *Pseudomonas Aeruginosa*

**Author(s):** Aziz, F (Aziz, Farooq); Rashid, M (Rashid, Muhammad); Rehman, M (Rehman, Mubashar); Rafique, M (Rafique, Muhammad); Imran, M (Imran, Muhammad)

**Source:** COMBINATORIAL CHEMISTRY & HIGH THROUGHPUT SCREENING **Volume:** 25 **Issue:** 7 **Pages:** 1230-1236 **DOI:** 10.2174/1386207324666210617163037 **Published:** 2022

---

#### Record 117 of 1000

**Title:** Synthesis, spectral characterization, crystal structure and computational investigation of 2-formyl-6-methoxy-3-carbethoxy quinoline as potential SARS-CoV inhibitor

**Author(s):** Ebenazer, AF (Ebenazer, A. Franklin); Saravanabhavan, M (Saravanabhavan, M.); Ramesh, KS (Ramesh, K. S.); Muhammad, S (Muhammad, Shabbir); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Sampathkumar, N (Sampathkumar, N.)

**Source:** JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS **Volume:** 170 **Article Number:** 110886 **DOI:** 10.1016/j.jpcs.2022.110886 **Early Access Date:** JUL 2022 **Published:** NOV 2022

---

#### Record 118 of 1000

**Title:** COMPUTATION OF STRUCTURAL, ELECTRONIC, ELASTIC, AND OPTICAL PROPERTIES OF BATF<sub>3</sub> (T = HF AND TA) TERNARY FLUORIDE PEROVSKITES USING DFT APPROACH

**Author(s):** Ayub, G (Ayub, Gohar); Husain, M (Husain, Mudasser); Rahman, N (Rahman, Nasir); Khan, R (Khan, Rajwali); Bejaoui, I (Bejaoui, Imen); Zaman, T (Zaman, Tahir); Sohail, M (Sohail, Mohammad); Khan, AA (Khan, Abid Ali); Iqbal, A (Iqbal, Anwar); Khan, A (Khan, Aurangzeb)

**Source:** FLUORIDE **Volume:** 55 **Issue:** 3 **Pages:** 207-220 **Published:** JUL-SEP 2022

---

#### Record 119 of 1000



**Title:** Structural, electronic, optical, and thermoelectric response of zintl phase AAg<sub>2</sub>S<sub>2</sub> (A= Sr/Ba) compounds for renewable energy applications

**Author(s):** Behera, D (Behera, Debidatta); Manzoor, M (Manzoor, Mumtaz); Maharana, M (Maharana, Manashish); Iqbal, MW (Iqbal, Muhammad Waqas); Zahid, T (Zahid, Tausif); Lakra, S (Lakra, Sangeeta); Mukherjee, SK (Mukherjee, S. K.); Alarfaji, SS (Alarfaji, Saleh S.)

**Source:** PHYSICA B-CONDENSED MATTER **Volume:** 649 **Article Number:** 414446 **DOI:** 10.1016/j.physb.2022.414446 **Early Access Date:** NOV 2022 **Published:** JAN 15 2023

---

#### Record 120 of 1000

**Title:** Designing Superalkali Metals-Doped Sumanene-Based Highly Efficient Nonlinear Optical Materials for Cutting-Edge Optoelectronic Applications

**Author(s):** Asif, A (Asif, Azka); Mustafa, G (Mustafa, Ghulam); Yaqoob, J (Yaqoob, Junaid); Khan, MU (Khan, Muhammad Usman); Assiri, MA (Assiri, Mohammed A.); Imran, M (Imran, Muhammad)

**Source:** JOURNAL OF COMPUTATIONAL BIOPHYSICS AND CHEMISTRY **Volume:** 22 **Issue:** 02 **Pages:** 123-145 **DOI:** 10.1142/S2737416523500047 **Early Access Date:** DEC 2022 **Published:** MAR 2023

---

#### Record 121 of 1000

**Title:** Response of Sesame to Intercropping with Groundnut and Cowpea

**Author(s):** Saad, AH (Saad, Ahmed H.); El Naim, AM (El Naim, Ahmed M.); Ahmed, AA (Ahmed, Awad A.); Ibrahim, KA (Ibrahim, Khalid A.); Islam, MS (Islam, Md Saiful); Al-Qthanin, RN (Al-Qthanin, Rahmah N.); Idris, AM (Idris, Abubakr M.)

**Source:** COMMUNICATIONS IN SOIL SCIENCE AND PLANT ANALYSIS **Volume:** 53 **Issue:** 17 **Pages:** 2285-2296 **DOI:** 10.1080/00103624.2022.2071438 **Early Access Date:** MAY 2022 **Published:** SEP 25 2022

---

#### Record 122 of 1000

**Title:** Synthesis, DFT Calculations to Investigate the Electronic Structure, Absorption Electronic Spectra, Antimicrobial Activity Application, and Non-Linear Optical Analysis of Pyridinyl and Pyrimidinyl Phosphonates Schemes

**Author(s):** Abdel Halim, S (Abdel Halim, Shima); Ali, ET (Ali, E. Tarik); Abdel Kariem, SM (Abdel Kariem, Somaia M.)

**Source:** IRANIAN JOURNAL OF CHEMISTRY & CHEMICAL ENGINEERING-INTERNATIONAL ENGLISH EDITION **Volume:** 41 **Issue:** 4 **Pages:** 1250-1274 **DOI:** 10.30492/ijcce.2021.523029.4523 **Published:** APR 2022

---

#### Record 123 of 1000

**Title:** Machine Learning for Organic Photovoltaic Polymers: A Minireview

**Author(s):** Mahmood, A (Mahmood, Asif); Irfan, A (Irfan, Ahmad); Wang, JL (Wang, Jin-Liang)

**Source:** CHINESE JOURNAL OF POLYMER SCIENCE **Volume:** 40 **Issue:** 8 **Special Issue:** SI **Pages:** 870-876 **DOI:** 10.1007/s10118-022-2782-5 **Early Access Date:** JUN 2022 **Published:** AUG 2022

---

#### Record 124 of 1000

**Title:** A Blasius boundary layer analysis for variable viscosity function near a flat plate

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

**Source:** INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER **Volume:** 138 **Article Number:** 106320 **DOI:** 10.1016/j.icheatmasstransfer.2022.106320 **Early Access Date:** SEP 2022 **Published:** NOV 2022

---

#### Record 125 of 1000

**Title:** Novel quad-rotor-shaped photovoltaic materials: first example of fused-ring non-fullerene acceptors with proficient photovoltaic properties for high-performance solar cells

**Author(s):** Yasmeen, F (Yasmeen, Fareeha); Alvi, MU (Alvi, Muhammad Usman); Alvi, Y (Alvi, Yusra); Khan, MU (Khan, Muhammad Usman); Yaqoob, J (Yaqoob, Junaid); Hussain, R (Hussain, Riaz); Alam, MM (Alam, Mohammed Mujahid); Imran, M (Imran, Muhammad); Rehman, MMU (Rehman, Muhammad Misbah Ur)

**Source:** JOURNAL OF MOLECULAR MODELING **Volume:** 28 **Issue:** 1 **Article Number:** 18 **DOI:** 10.1007/s00894-021-05000-y **Published:** JAN 2022

---

#### Record 126 of 1000

**Title:** Solid-liquid separation of V(V) from aqueous medium by 3-(2-hydroxy phenyl)-imino-1-phenyl butan-1-one Schiff base immobilized XAD-2 resin

**Author(s):** Ibrahim, HA (Ibrahim, H. A.); Aal, MMA (Aal, M. M. Abdel); Awwad, NS (Awwad, N. S.); Atia, BM (Atia, B. M.); Ali, HE (Ali, H. E.); Gado, MA (Gado, M. A.); Hakami, RA (Hakami, R. A.); Cheira, MF (Cheira, M. F.)

**Source:** INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY **Volume:** 20 **Issue:** 7 **Pages:** 7689-7706 **DOI:** 10.1007/s13762-022-04465-5 **Early Access Date:** AUG 2022 **Published:** JUL 2023

---

#### Record 127 of 1000

**Title:** Enhanced Structural and Dielectric Properties of Calcium and Chromium-Based  $M$ -Type Hexagonal Ferrites with Polyvinyl Alcohol (PVA) Polymer Composites

**Author(s):** Zahid, M (Zahid, Muhammad); Khan, HM (Khan, Hasan M.); Zaheer, B (Zaheer, Beenish); Imran, M (Imran, Muhammad); Assiri, MA (Assiri, Muhammad A.); Rehman, AU (Rehman, Aziz Ur); Batool, Z (Batool, Zahida)

**Source:** NANO **Volume:** 17 **Issue:** 06 **Article Number:** 2250048 **DOI:** 10.1142/S1793292022500485 **Published:** JUN 15 2022

---

#### Record 128 of 1000

**Title:** Synthesis, SAR studies, and insecticidal activities of certain N-heterocycles derived from 3-((2-chloroquinolin-3-yl)methylene)-5-phenylfuran-2(3H)-one against *Culex pipiens* L. larvae

**Author(s):** Ramadan, SK (Ramadan, Sayed K.); Haleem, DRA (Haleem, Doaa R. Abdel); Abd-Rabboh, HSM (Abd-Rabboh, Hisham S. M.); Gad, NM (Gad, Nourhan M.); Abou-Elmagd, WSI (Abou-Elmagd, Wael S., I); Haneen, DSA (Haneen, David S. A.)

**Source:** RSC ADVANCES **Volume:** 12 **Issue:** 22 **Pages:** 13628-13638 **DOI:** 10.1039/d2ra02388a **Published:** MAY 5 2022

---

#### Record 129 of 1000

**Title:** GC-MS analysis of *Taraxacum officinale* flowers and investigation of antimicrobial, anti-pellicle & anti-biofilm activities

**Author(s):** Shumail, H (Shumail, Hoor); Hassan, T (Hassan, Tahira); Barkatullah (Barkatullah); Khalid, S (Khalid, Shah); Akhtar, N (Akhtar, Naveed); Al-Qahtani, A (Al-Qahtani, Ali); Aldahish, A (Aldahish, Afaf); Alqahtani, T (Alqahtani, Taha); Alharbi, HM (Alharbi, Hanan M.); Gahtani, RM (Gahtani, Reem M.)

**Source:** MAIN GROUP CHEMISTRY **Volume:** 21 **Issue:** 3 **Pages:** 747-762 **DOI:** 10.3233/MGC-210133 **Published:** 2022

---

#### Record 130 of 1000

**Title:** Preparation of Non-stoichiometric Zinc Ferrite/Magnetite  $[(Zn_xFe_{1-x})O.Fe_2O_3]$  Nanoparticles: Adsorption and Biological Activity

**Author(s):** Ibrahim, AM (Ibrahim, Amal M.); Ibrahim, FA (Ibrahim, Fatma A.); Selima, MM (Selima, Mohamed M.)

**Source:** EGYPTIAN JOURNAL OF CHEMISTRY **Volume:** 65 **Issue:** 13 **Special Issue:** SI **Pages:** 185-197 **DOI:** 10.21608/EJCHEM.2022.135033.5953 **Part:** A **Published:** DEC 2022

---

#### Record 131 of 1000

**Title:** Reaction of 1-(2-hydroxyphenyl)-3-phenylpropane-1,3-dione with some phosphorus halides: A simple synthesis of novel 1,2-benzoxaphosphinines

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

**Source:** SYNTHETIC COMMUNICATIONS **Volume:** 52 **Issue:** 24 **Pages:** 2334-2343 **DOI:** 10.1080/00397911.2022.2146514 **Early Access Date:** NOV 2022 **Published:** DEC 17 2022

---

#### Record 132 of 1000

**Title:** Bardeen compact stars in modified  $f(G)$  gravity

**Author(s):** Malik, A (Malik, Adnan); Ahmad, M (Ahmad, Mushtaq); Al Alwan, B (Al Alwan, Basem); Naeem, Z (Naeem, Zahra)

**Source:** CANADIAN JOURNAL OF PHYSICS **DOI:** 10.1139/cjp-2021-0411 **Early Access Date:** SEP 2022

---

#### Record 133 of 1000

**Title:** Facile synthesis of Co-Rh bimetallic catalysts for methane decomposition: Effect of support morphology

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

**Source:** FUEL **Volume:** 330 **Article Number:** 125596 **DOI:** 10.1016/j.fuel.2022.125596 **Early Access Date:** AUG 2022 **Published:** DEC 15 2022

---

#### **Record 134 of 1000**

**Title:** Synthesis, spectral property, IEF-PCM solvation, anti-microbial evaluation and molecular docking studies of 6-amino-2-(4-nitrophenyl)-1H-benzimidazole

**Author(s):** Fasiuddin, GS (Fasiuddin, G. S.); Khan, FLA (Khan, F. Liakath Ali); Muthu, S (Muthu, S.); Irfan, A (Irfan, Ahmad); Javed, S (Javed, Saleem)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 352 **Article Number:** 118756 **DOI:** 10.1016/j.molliq.2022.118756 **Early Access Date:** FEB 2022 **Published:** APR 15 2022

---

#### **Record 135 of 1000**

**Title:** Physicochemical properties and some mineral concentration of milk samples from different animals and altitudes

**Author(s):** Mohammed, MEA (Mohammed, Mohammed Elimam Ahamed); Brima, EI (Brima, Eid Ibrahim); Alasidy, A (Alasidy, Aaed); Qurishi, N (Qurishi, Nasir); Algarni, M (Algarni, Moad); Alshehri, BMA (Alshehri, Badria Mohammed Abdallah)

**Source:** OPEN CHEMISTRY **Volume:** 20 **Issue:** 1 **Pages:** 494-504 **DOI:** 10.1515/chem-2022-0171 **Published:** JUN 23 2022

---

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

**Title:** Volumetric and Viscometric Properties for the Ternary Systems L-Tryptophan. MCl (M=Li, Na, K) and H<sub>2</sub>O at temperatures 298.15 to 313.15 K

**Author(s):** Ben Rebah, F (Ben Rebah, Faouzi); Siddeeg, SM (Siddeeg, Saifeldin M.); Tagoon, MA (Tagoon, Mohamed A.)

**Source:** MOROCCAN JOURNAL OF CHEMISTRY **Volume:** 10 **Issue:** 1 **Pages:** 138-159 **DOI:** 10.48317/IMIST.PRSM/morjchem-v9i2.17183 **Published:** 2022

---

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

**Title:** A Novel Poly(vinyl alcohol)-tetraethylorthosilicate Hybrid Gel Electrolyte for Lead Storage Battery

**Author(s):** Chikkatti, BS (Chikkatti, Bipin S.); Sajjan, AM (Sajjan, Ashok M.); Kalahal, PB (Kalahal, Prakash B.); Banapurmath, NR (Banapurmath, Nagaraj R.); Khan, TMY (Khan, T. M. Yunus); Khadar, SDA (Khadar, Shaik Dawood Abdul); Shamsudeen, SM (Shamsudeen, Shaik Mohamed); Raju, AB (Raju, A. B.)

**Source:** GELS **Volume:** 8 **Issue:** 12 **Article Number:** 791 **DOI:** 10.3390/gels8120791 **Published:** DEC 2022

---

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

**Title:** A cost-effective approach for decontamination of used lubricant oil: enhanced recovery of base oil using different adsorbents

**Author(s):** Parekh, K (Parekh, K.); Radadiya, R (Radadiya, R.); Gaur, R (Gaur, R.); Shahabuddin, S (Shahabuddin, S.); Ahmad, (Ahmad, I)

**Source:** INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY **Volume:** 20 **Issue:** 11 **Pages:** 12323-12342 **DOI:** 10.1007/s13762-022-04676-w **Early Access Date:** NOV 2022 **Published:** NOV 2023

---

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

**Title:** Quantized molecular intercalations of Rhodamine 6G laser dye onto polymethyl methacrylate host exciplex

**Author(s):** Ibrahim, GM (Ibrahim, G. M.); Alshahrani, SM (Alshahrani, S. Melhi); El-Gammal, B (El-Gammal, B.); Alosaimi, EH (Alosaimi, Eid H.); Elhouichet, H (Elhouichet, Habib); Al-Shamiri, HAS (Al-Shamiri, Hamdan A. S.); Al-Mokadem, AZ (Al-Mokadem, A. Z.); Awwad, NS (Awwad, Nasser S.)

**Source:** MATERIALS EXPRESS **Volume:** 12 **Issue:** 2 **Pages:** 288-304 **DOI:** 10.1166/mex.2022.2157 **Published:** FEB 2022

---

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

**Title:** Developing Efficient Small Molecule Acceptors with sp<sup>2</sup>-Hybridized Nitrogen at Different Positions by Density Functional Theory Calculations, Molecular Dynamics Simulations and Machine Learning

**Author(s):** Mahmood, A (Mahmood, Asif); Irfan, A (Irfan, Ahmad); Wang, JL (Wang, Jin-Liang)

**Source:** CHEMISTRY-A EUROPEAN JOURNAL **Volume:** 28 **Issue:** 2 **Article Number:** e202103712 **DOI:** 10.1002/chem.202103712 **Published:** JAN 10 2022

---

### Record 141 of 1000

**Title:** Effect of H<sub>2</sub> blends with compressed natural gas on emissions of SI engine having modified ignition timings

**Author(s):** Pandey, V (Pandey, Vivek); Badruddin, IA (Badruddin, Irfan Anjum); Khan, TMY (Khan, T. M. Yunus)

**Source:** FUEL **Volume:** 321 **Article Number:** 123930 **DOI:** 10.1016/j.fuel.2022.123930 **Early Access Date:** APR 2022 **Published:** AUG 1 2022

---

### Record 142 of 1000

**Title:** Ultrasound Assisted One-Pot Three-Component Reaction for Synthesis of Novel Functionalized 4-Thioxo-Pyrano[2,3-c]Pyrazoles, 5-Thioxo-Pyrano[2,3-d]Pyrimidines and 5-Thioxo-Pyrido[2,3-d]Pyrimidines Catalyzed by Triethylamine

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

**Source:** POLYCYCLIC AROMATIC COMPOUNDS **Volume:** 43 **Issue:** 7 **Pages:** 5860-5868 **DOI:** 10.1080/10406638.2022.2108077 **Early Access Date:** AUG 2022 **Published:** AUG 9 2023

---

### Record 143 of 1000

**Title:** Experimental spectroscopic, molecular structure, electronic solvation, biological prediction and topological analysis of 2, 4, 6-tri (propan-2-yl) benzenesulfonyl chloride: An antidepressant agent

**Author(s):** Jeelani, A (Jeelani, A.); Muthu, S (Muthu, S.); Ramesh, P (Ramesh, P.)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 358 **Article Number:** 119166 **DOI:** 10.1016/j.molliq.2022.119166 **Early Access Date:** APR 2022 **Published:** JUL 15 2022

---

### Record 144 of 1000

**Title:** *In silico* exploration of binding potentials of anti SARS-CoV-1 phytochemicals against main protease of SARS-CoV-2

**Author(s):** Al-Sehemi, AGG (Al-Sehemi, Abdullah G. G.); Pannipara, M (Pannipara, Mehboobali); Parulekar, RSS (Parulekar, Rishikesh S. S.); Kilbile, JTT (Kilbile, Jaydeo T. T.); Choudhari, PBB (Choudhari, Prafulla B. B.); Shaikh, MHH (Shaikh, Mubarak H. H.)

**Source:** JOURNAL OF SAUDI CHEMICAL SOCIETY **Volume:** 26 **Issue:** 3 **Article Number:** 101453 **DOI:** 10.1016/j.jscs.2022.101453 **Early Access Date:** MAR 2022 **Published:** MAY 2022

---

### Record 145 of 1000

**Title:** Colour formation of dihydroxyacetone with cysteine and its derivatives via Maillard reaction

**Author(s):** Sun, YF (Sun, Yufa); Al-Zahrani, FAM (Al-Zahrani, Fatimah A. M.); Lin, L (Lin, Long)

**Source:** DYES AND PIGMENTS **Volume:** 208 **Article Number:** 110854 **DOI:** 10.1016/j.dyepig.2022.110854 **Early Access Date:** OCT 2022 **Published:** JAN 2023

---

### Record 146 of 1000

**Title:** Heat triggered molecular restructuring results in triple gel-gel-gel transformations in a Li<sup>+</sup>-integrated metallogel

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

**Source:** MOLECULAR SYSTEMS DESIGN & ENGINEERING **Volume:** 7 **Issue:** 11 **Pages:** 1422-1433 **DOI:** 10.1039/d2me00146b **Early Access Date:** AUG 2022 **Published:** OCT 31 2022

---

### Record 147 of 1000

**Title:** Biochemical Reactions and Their Biological Contributions in Honey

**Author(s):** Alaerjani, WMA (Alaerjani, Wed Mohammed Ali); Abu-Melha, S (Abu-Melha, Sraa); Alshareef, RMH (Alshareef, Rahaf Mohammed Hussein); Al-Farhan, BS (Al-Farhan, Badriah Saad); Ghramh, HA (Ghramh, Hamed A.); Al-Shehri, BMA (Al-Shehri, Badria Mohammed Abdallah); Bajaber, MA (Bajaber, Majed A.); Khan, KA (Khan, Khalid Ali); Alrooqi, MM (Alrooqi, Munira M.); Modawe, GA (Modawe, Gad Allah); Mohammed, MEA (Mohammed, Mohammed Elimam Ahamed)

**Source:** MOLECULES **Volume:** 27 **Issue:** 15 **Article Number:** 4719 **DOI:** 10.3390/molecules27154719 **Published:** AUG 2022

---

### Record 148 of 1000

**Title:** A Study of Copper (II) Ions Removal by Reverse Osmosis under Various Operating Conditions

**Author(s):** Harharah, RH (Harharah, Ramzi H.); Abdalla, GMT (Abdalla, Ghassan M. T.); Elkhaleefa, A (Elkhaleefa, Abubakr); Shigidi, I (Shigidi, Ihab); Harharah, HN (Harharah, Hamed N.)

**Source:** SEPARATIONS **Volume:** 9 **Issue:** 6 **Article Number:** 155 **DOI:** 10.3390/separations9060155 **Published:** JUN 2022

---

#### Record 149 of 1000

**Title:** Vibrational Spectral Studies, Quantum Mechanical Properties, and Biological Activity Prediction and Inclusion Molecular Self-Assembly Formation of N-N'- Dimethylethylene Urea

**Author(s):** Yeddu, SP (Yeddu, Sushma Priya); Thangaiyan, P (Thangaiyan, Pooventhiran); Veeraiah, A (Veeraiah, Adamilli); Vijay, D (Vijay, Dharmarpu); Srikanth, KE (Srikanth, Katta Esvar); Irfan, A (Irfan, Ahmad); Thomas, R (Thomas, Renjith)

**Source:** BIOINTERFACE RESEARCH IN APPLIED CHEMISTRY **Volume:** 12 **Issue:** 3 **Pages:** 3996-4017 **DOI:** 10.33263/BRIAC123.39964017 **Published:** JUN 15 2022

---

#### Record 150 of 1000

**Title:** Deciphering key coloured compounds from sunless tanning reactions

**Author(s):** Sun, YF (Sun, Yufa); Zhang, PY (Zhang, Peiyu); Wang, XY (Wang, Xingyu); Al-Zahrani, FAM (Al-Zahrani, Fatimah A. M.); de Leeuw, NH (de Leeuw, Nora H.); Lin, L (Lin, Long)

**Source:** DYES AND PIGMENTS **Volume:** 204 **Article Number:** 110448 **DOI:** 10.1016/j.dyepig.2022.110448 **Early Access Date:** JUN 2022 **Published:** AUG 2022

---

#### Record 151 of 1000

**Title:** A facile approach to the synthesis of bilayer hematite films for efficient photocatalytic degradation of methylene blue dye in aqueous solution

**Author(s):** Landolsi, Z (Landolsi, Zoubaida); Ben Asseker, I (Ben Asseker, Ibtissem); Al Zahrani, AYA (Al Zahrani, Abdullah Yahya Abdullah); Nunes, D (Nunes, Daniela); Fortunato, E (Fortunato, Elvira); Ammar, S (Ammar, Salah); Keshk, SMAS (Keshk, Sherif M. A. S.); Chtourou, R (Chtourou, Radhouane)

**Source:** INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY **Volume:** 104 **Issue:** 4 **Pages:** 813-826 **DOI:** 10.1080/03067319.2022.2025791 **Early Access Date:** JAN 2022 **Published:** MAR 15 2024

---

#### Record 152 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 **Volume:** 40 **Issue:** 20 **Pages:** 10265-10277 **DOI:** 10.1080/07391102.2021.1943527 **Published:** 2022

---

#### Record 153 of 1000

**Title:** Evolution detection of phenol by pristine BN nanocone: chemical quantum study

**Author(s):** Alamri, S (Alamri, Sagr); Rajhi, AA (Rajhi, Ali A.); Wu, L (Wu, Liang)

**Source:** STRUCTURAL CHEMISTRY **Volume:** 33 **Issue:** 3 **Pages:** 671-677 **DOI:** 10.1007/s11224-021-01872-1 **Early Access Date:** JAN 2022 **Published:** JUN 2022

---

#### Record 154 of 1000

**Title:** One-pot synthesis, antimicrobial activities, and drug-likeness analysis of some novel 1,2-benzoxaphosphinines, phospholobenzofuran, and chromonyl/coumarinyl/indenonyl phosphonate

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

**Source:** SYNTHETIC COMMUNICATIONS **Volume:** 52 **Issue:** 19-20 **Pages:** 1967-1980 **DOI:** 10.1080/00397911.2022.2122843 **Early Access Date:** SEP 2022 **Published:** OCT 18 2022

---

#### Record 155 of 1000

**Title:** Exploring the quinoidal oligothiophenes to their robust limit for efficient linear and nonlinear optical response properties

**Author(s):** Muhammad, S (Muhammad, Shabbir); Bibi, A (Bibi, Amna); Shafiq-urRehman (Shafiq-urRehman); Bibi, S (Bibi, Shamsa); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Algarni, H (Algarni, H.); Sarwar, F (Sarwar, Fatima)

**Source:** CHEMICAL PAPERS **Volume:** 76 **Issue:** 7 **Pages:** 4273-4288 **DOI:** 10.1007/s11696-022-02167-3 **Early Access Date:** MAR 2022 **Published:** JUL 2022

---

**Record 156 of 1000**

**Title:** Decontamination of copper(II) from aqueous solutions using synthesized polyaniline/montmorillonite composite  
**Author(s):** El-Zahhar, AA (El-Zahhar, Adel A.); Bani-Fwaz, MZ (Bani-Fwaz, Mutasem Z.); Ali, IH (Ali, Ismat H.); Marzouki, R (Marzouki, Riadh)

**Source:** DESALINATION AND WATER TREATMENT **Volume:** 248 **Pages:** 176-187 **DOI:** 10.5004/dwt.2022.28104 **Published:** FEB 2022

---

**Record 157 of 1000**

**Title:** Enhanced structural, dielectric and magnetic properties of CaFe<sub>12-x</sub>Yb<sub>x</sub>O<sub>19</sub> M-type hexaferrites

**Author(s):** Nadeem, M (Nadeem, Muhammad); Khan, HM (Khan, Hasan M.); Buzdar, SA (Buzdar, Saeed Ahmad); Ahmed, J (Ahmed, Javed); Assiri, MA (Assiri, Mohammad A.); Nisa, M (Nisa, Mehrun)

**Source:** APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING **Volume:** 128 **Issue:** 12 **Article Number:** 1125 **DOI:** 10.1007/s00339-022-06153-0 **Published:** DEC 2022

---

**Record 158 of 1000**

**Title:** Aminosilicate modified zinc oxide Nanorod-GO nanocomposite for DSSC photoanodes

**Author(s):** Kandasamy, M (Kandasamy, M.); Murugesan, S (Murugesan, S.); Selvaraj, M (Selvaraj, M.); Alam, MM (Alam, M. Mujahid)

**Source:** CERAMICS INTERNATIONAL **Volume:** 48 **Issue:** 5 **Pages:** 6037-6045 **DOI:** 10.1016/j.ceramint.2021.11.140 **Early Access Date:** FEB 2022 **Published:** MAR 1 2022

---

**Record 159 of 1000**

**Title:** Enhancement in optical and electrical properties of ZnO thin films via Co doping for photodetector applications

**Author(s):** Shkir, M (Shkir, Mohd)

**Source:** MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS **Volume:** 284 **Article Number:** 115861 **DOI:** 10.1016/j.mseb.2022.115861 **Early Access Date:** JUL 2022 **Published:** OCT 2022

---

**Record 160 of 1000**

**Title:** Expedient Synthesis and Antitumor Evaluation of Novel Azaheterocycles from Thiazolylenaminone

**Author(s):** Bondock, S (Bondock, Samir); Albormani, O (Albormani, Omeer); Fouda, AM (Fouda, Ahmed M.)

**Source:** POLYCYCLIC AROMATIC COMPOUNDS **Volume:** 43 **Issue:** 3 **Pages:** 2123-2143 **DOI:** 10.1080/10406638.2022.2039236 **Early Access Date:** FEB 2022 **Published:** MAR 16 2023

---

**Record 161 of 1000**

**Title:** Effect of Anatase and Rutile Phase Microspheres Composition on Dye-Sensitized Solar Cell Photoanode Performance

**Author(s):** Kandasamy, M (Kandasamy, M.); Murugesan, S (Murugesan, S.); Alam, MM (Alam, Mohammed M.); Selvaraj, M (Selvaraj, M.)

**Source:** INDIAN JOURNAL OF PURE & APPLIED PHYSICS **Volume:** 60 **Issue:** 2 **Pages:** 126-130 **Published:** FEB 2022

---

**Record 162 of 1000**

**Title:** EFFECT OF STABILIZER ON OPTICAL BAND GAP OF ZnO AND THEIR PERFORMANCE IN DYE-SENSITIZED SOLAR CELLS

**Author(s):** Kalam, A (Kalam, A.); Allami, SAS (Allami, S. A. S.); Al-Sehemi, AG (Al-Sehemi, A. G.); Assiri, MA (Assiri, M. A.); Yadav, P (Yadav, P.)

**Source:** BULLETIN OF THE CHEMICAL SOCIETY OF ETHIOPIA **Volume:** 36 **Issue:** 1 **Pages:** 209-222 **DOI:** 10.4314/bcse.v36i1.17 **Published:** 2022

---

**Record 163 of 1000**

**Title:** Synthesis and Characterization of Some Chitosan-Quinoline Nanocomposites as Potential Insecticidal Agents

**Author(s):** Ramadan, SK (Ramadan, Sayed K.); Abd-Rabboh, HSM (Abd-Rabboh, Hisham S. M.); Gad, NM (Gad, Nourhan M.); Abou-Elmagd, WS (Abou-Elmagd, Wael S., I); Haneen, DSA (Haneen, David S. A.)

**Source:** POLYCYCLIC AROMATIC COMPOUNDS **Volume:** 43 **Issue:** 8 **Pages:** 7013-7026 **DOI:** 10.1080/10406638.2022.2128831 **Early Access Date:** OCT 2022 **Published:** SEP 14 2023

---

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

**Title:** Plasmonic Ag nanoparticles anchored ethylenediamine modified TiO<sub>2</sub> nanowires@graphene oxide composites for dye-sensitized solar cell

**Author(s):** Kandasamy, M (Kandasamy, M.); Selvaraj, M (Selvaraj, M.); Kumarappan, C (Kumarappan, C.); Murugesan, S (Murugesan, S.)

**Source:** JOURNAL OF ALLOYS AND COMPOUNDS **Volume:** 902 **Article Number:** 163743 **DOI:** 10.1016/j.jallcom.2022.163743 **Early Access Date:** JAN 2022 **Published:** MAY 5 2022

---

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

**Title:** Metabolites of *Moringa oleifera* Activate Physio-Biochemical Pathways for an Accelerated Functional Recovery after Sciatic Nerve Crush Injury in Mice

**Author(s):** Imran, M (Imran, Muhammad); Hussain, G (Hussain, Ghulam); Hameed, A (Hameed, Arruje); Iftikhar, I (Iftikhar, Iqra); Ibrahim, M (Ibrahim, Muhammad); Asghar, R (Asghar, Rahat); Nisar, I (Nisar, Izzat); Farooq, T (Farooq, Tahir); Khalid, T (Khalid, Tanzila); Rehman, K (Rehman, Kanwal); Assiri, MA (Assiri, Mohammed A.)

**Source:** METABOLITES **Volume:** 12 **Issue:** 12 **Article Number:** 1242 **DOI:** 10.3390/metabo12121242 **Published:** DEC 2022

---

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

**Title:** Standardization, in-silico and in-vivo safety assessment of methanol extract of *Ziziphus mauritiana* Lam leaves

**Author(s):** Ramar, MK (Ramar, Mohan Kumar); Chidambaram, K (Chidambaram, Kumarappan); Chandrasekaran, B (Chandrasekaran, Balakumar); Kandasamy, R (Kandasamy, Ruckmani)

**Source:** REGULATORY TOXICOLOGY AND PHARMACOLOGY **Volume:** 131 **Article Number:** 105144 **DOI:** 10.1016/j.yrtph.2022.105144 **Early Access Date:** MAR 2022 **Published:** JUN 2022

---

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

**Title:** Compritol-Based Alprazolam Solid Lipid Nanoparticles for Sustained Release of Alprazolam: Preparation by Hot Melt Encapsulation

**Author(s):** Rao, HM (Rao, Huma); Ahmad, S (Ahmad, Saeed); Madni, A (Madni, Asadullah); Rao, IQ (Rao, Iqra); Ghazwani, M (Ghazwani, Mohammed); Hani, U (Hani, Umme); Umair, M (Umair, Muhammad); Ahmad, I (Ahmad, Imtiaz); Rai, N (Rai, Nadia); Ahmed, M (Ahmed, Maqsood); Khan, KU (Khan, Kashif ur Rehman)

**Source:** MOLECULES **Volume:** 27 **Issue:** 24 **Article Number:** 8894 **DOI:** 10.3390/molecules27248894 **Published:** DEC 2022

---

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

**Title:** Phytotoxicity and Antimicrobial Activity of Green Synthesized Silver Nanoparticles Using *Nigella sativa* Seeds on Wheat Seedlings

**Author(s):** Elshazly, EH (Elshazly, Ezzat H. H.); Mohamed, AKSH (Mohamed, Abdel Kareem S. H.); Aboelmagd, HA (Aboelmagd, Hesham A. A.); Gouda, GA (Gouda, Gamal A. A.); Abdallah, MH (Abdallah, Mohamed H. H.); Ewais, EA (Ewais, Emad A. A.); Assiri, MA (Assiri, Mohammed A. A.); Ali, GAM (Ali, Gomaa A. M.)

**Source:** JOURNAL OF CHEMISTRY **Volume:** 2022 **Article Number:** 9609559 **DOI:** 10.1155/2022/9609559 **Published:** DEC 26 2022

---

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

**Title:** Physicochemical properties of water in an intensive agricultural region in Bangladesh: a preliminary study for water quality and health risk assessment

**Author(s):** Islam, S (Islam, Saiful); Phoungthong, K (Phoungthong, Khamphe); Idris, AM (Idris, Abubakr M.)

**Source:** INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY **DOI:** 10.1080/03067319.2022.2071613 **Early Access Date:** MAY 2022

---

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

**Title:** PHOSPHONATES-BASED CHELATING MATERIALS FOR OPTIMIZATION IRON REMOVAL FROM INDUSTRIAL WASTEWATER EXPERIMENTAL METHODOLOGY AND MODELING

**Author(s):** Masoud, AM (Masoud, Ahmed M.); Kamel, MF (Kamel, Mohamed F.); Taha, MH (Taha, Mohamed H.); El-Zahhar, AA (El-Zahhar, Adel A.)

**Source:** FRESENIUS ENVIRONMENTAL BULLETIN **Volume:** 31 **Issue:** 3 **Pages:** 2779-2789 **Published:** 2022

---

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

**Title:** Nanobacterial Cellulose Production and Its Antibacterial Activity in Biodegradable Poly(vinyl alcohol) Membranes for Food Packaging Applications

**Author(s):** Naik, ML (Naik, Manu L.); Sajjan, AM (Sajjan, Ashok M.); Ashwini, M (Ashwini, M.); Achappa, S (Achappa, Sharanappa); Khan, TMY (Khan, T. M. Yunus); Banapurmath, NR (Banapurmath, Nagaraj R.); Kalahal, PB (Kalahal, Prakash B.); Ayachit, NH (Ayachit, Narasimha H.)

**Source:** ACS OMEGA **Volume:** 2022 **Issue:** 7 **Pages:** 43559-43573 **DOI:** 10.1021/acsomega.2c04336 **Early Access Date:** NOV 2022 **Published:** NOV 17 2022

---

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

**Title:** Transition Metal Carbides Filler-Reinforced Composite Polymer Electrolyte for Solid-State Lithium-Sulfur Batteries at Room Temperature: Breakthrough

**Author(s):** Al Alwan, B (Al Alwan, Basem); Wang, Z (Wang, Zhao); Fawaz, W (Fawaz, Wissam); Ng, KYS (Ng, K. Y. Simon)

**Source:** ENERGIES **Volume:** 15 **Issue:** 21 **Article Number:** 7827 **DOI:** 10.3390/en15217827 **Published:** NOV 2022

---

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

**Title:** Methacrylic acid based microgels and hybrid microgels

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

**Source:** REVIEWS IN CHEMICAL ENGINEERING **Volume:** 39 **Issue:** 6 **Pages:** 1061-1083 **DOI:** 10.1515/revce-2021-0075 **Early Access Date:** JUN 2022 **Published:** AUG 28 2023

---

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

**Title:** Poling effect on piezocatalytic antibacterial and dye degradation activities of BaTiO<sub>3</sub> nanoparticles embedded cotton fabric

**Author(s):** Kumar, A (Kumar, Amit); Sharma, M (Sharma, Moolchand); Vaish, R (Vaish, Rahul); ben Ahmed, S (ben Ahmed, Samia)

**Source:** JOURNAL OF ALLOYS AND COMPOUNDS **Volume:** 938 **Article Number:** 168530 **DOI:** 10.1016/j.jallcom.2022.168530 **Early Access Date:** DEC 2022 **Published:** MAR 25 2023

---

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

**Title:** Residue, dissipation, and dietary intake evaluation of fenpyroximate acaricide in/on guava, orange, and eggplant under open field condition

**Author(s):** Malhat, F (Malhat, Farag); Abdallah, O (Abdallah, Osama); Anagnostopoulos, C (Anagnostopoulos, Chris); Hussien, M (Hussien, Mohamed); Purnama, I (Purnama, Indra); Helmy, RMA (Helmy, Rania M. A.); Soliman, H (Soliman, Hanim); El-Hefny, D (El-Hefny, Dalia)

**Source:** FRONTIERS IN NUTRITION **Volume:** 9 **Article Number:** 939012 **DOI:** 10.3389/fnut.2022.939012 **Published:** AUG 31 2022

---

#### **Record 176 of 1000**

**Title:** Structural Modifications on Chalcone Framework for Developing New Class of Cholinesterase Inhibitors

**Author(s):** George, G (George, Ginson); Koyiparambath, VP (Koyiparambath, Vishal Payyalot); Sukumaran, S (Sukumaran, Sunitha); Nair, AS (Nair, Aathira Sujathan); Pappachan, LK (Pappachan, Leena K.); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Kim, H (Kim, Hoon); Mathew, B (Mathew, Bijo)

**Source:** INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES **Volume:** 23 **Issue:** 6 **Article Number:** 3121 **DOI:** 10.3390/ijms23063121 **Published:** MAR 2022

---

#### **Record 177 of 1000**

**Title:** Environmental hazard assessment of metals in marine sediments of Sabah and Sarawak, Malaysia

**Author(s):** Ahmed, AY (Ahmed, Amel Y.); Abdullah, MP (Abdullah, Md Pauzi); Siddeeg, SM (Siddeeg, Saifeldin M.)



**Record 178 of 1000**

**Title:** COMPOSITION OF ESSENTIAL OIL OF HEALTHY AND DISEASED INDIAN ROSEWOOD TREES (<i>DALBARGIA</i> <i>SISSOO</i> DC.)

**Author(s):** Idrees, S (Idrees, Saba); Hanif, MA (Hanif, Muhammad Asif); Ikram, MM (Ikram, Mirza Muhammad); Ayub, MA (Ayub, Muhammad Adnan); Hanif, A (Hanif, Asma); Irfan, A (Irfan, Ahmad)

**Source:** BANGLADESH JOURNAL OF BOTANY **Volume:** 51 **Issue:** 3 **Pages:** 455-460 **DOI:** 10.3329/bjb.v51i3.61991 **Published:** SEP 2022

---

**Record 179 of 1000**

**Title:** Impact of morphology on the nonlinear optical absorption of pristine molybdenum disulfide (MoS<sub>2</sub>) nanostructures

**Author(s):** Durairaj, M (Durairaj, M.); Girisun, STC (Girisun, Sabari T. C.); Al-Sehemi, AG (Al-Sehemi, Abdullah G.)

**Source:** OPTICAL MATERIALS **Volume:** 131 **Article Number:** 112632 **DOI:** 10.1016/j.optmat.2022.112632 **Early Access Date:** JUL 2022 **Published:** SEP 2022

---

**Record 180 of 1000**

**Title:** Exploring the inhibitory potential of novel bioactive compounds from mangrove actinomycetes against nsp10 the major activator of SARS-CoV-2 replication

**Author(s):** Muhammad, S (Muhammad, Shabbir); Qaisar, M (Qaisar, Mahnoor); Iqbal, J (Iqbal, Javed); Khera, RA (Khera, Rasheed Ahmad); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Alarfaji, SS (Alarfaji, Saleh S.); Adnan, M (Adnan, Muhammad)

**Source:** CHEMICAL PAPERS **Volume:** 76 **Issue:** 5 **Pages:** 3051-3064 **DOI:** 10.1007/s11696-021-01997-x **Early Access Date:** JAN 2022 **Published:** MAY 2022

---

**Record 181 of 1000**

**Title:** Plant-mediated synthesis of iron oxide nanoparticles/polyvinyl alcohol nanocomposite and exploring their potential adsorption properties against selected heavy metals

**Author(s):** Nawaz, M (Nawaz, Mohsan); Wahab, Z (Wahab, Zahid); Rehman, ZU (Rehman, Zia Ur); Bahader, A (Bahader, Ali); Khan, MI (Khan, Muhammad Iqbal); Uddin, I (Uddin, Imad); Gul, FS (Gul, Fazal Suhrab); Bajaber, MA (Bajaber, Majed A.)

**Source:** POLYMER BULLETIN **Volume:** 80 **Issue:** 7 **Pages:** 7545-7567 **DOI:** 10.1007/s00289-022-04387-9 **Early Access Date:** AUG 2022 **Published:** JUL 2023

---

**Record 182 of 1000**

**Title:** Enhancing the energy storage density of Bi<sub>0.5</sub>Na<sub>0.5</sub>TiO<sub>3</sub> thin films by adding an amorphous alumina

**Author(s):** Ye, YS (Ye, Yaoshen); Guo, KX (Guo, Kaixin); Cui, RR (Cui, Ruirui); Zhang, M (Zhang, Min); Wang, X (Wang, Xu); Bajaber, MA (Bajaber, Majed A.); Deng, CY (Deng, Chaoyong)

**Source:** SURFACES AND INTERFACES **Volume:** 33 **Article Number:** 102229 **DOI:** 10.1016/j.surfin.2022.102229 **Early Access Date:** AUG 2022 **Published:** OCT 2022

---

**Record 183 of 1000**

**Title:** HPLC Method Development and Validation for the Estimation of Thymoquinone in <i>Nigella sativa</i> Seed Extract by Quality by Design (QbD) Approach

**Author(s):** Alossaimi, MA (Alossaimi, Manal A.); Altamimi, ASA (Altamimi, Abdulmalik S. A.); Alqahtani, SM (Alqahtani, Safar M.); Hassan, MZ (Hassan, Mohd Zaheen); Rashid, M (Rashid, Mohammad); Kamal, M (Kamal, Mehnaz); Afzal, O (Afzal, Obaid)

**Source:** LATIN AMERICAN JOURNAL OF PHARMACY **Volume:** 41 **Issue:** 6 **Pages:** 1110-1118 **Published:** 2022

---

**Record 184 of 1000**

**Title:** Efficient Antibacterial Dimeric Nitro Imidazolium Type of Ionic Liquids from a Simple Approach

**Author(s):** Ganapathi, P (Ganapathi, Pandurangan); Ganesan, K (Ganesan, Kilivelu); Dharmasivam, M (Dharmasivam, Mahendiran); Alam, MM (Alam, Mohammed Mujahid); Mohammed, A (Mohammed, Amanullah)

**Record 185 of 1000**

**Title:** 2H-MoS<sub>2</sub> nanosheets-based binder-free electrode material for supercapacitor

**Author(s):** Ali, S (Ali, Salamat); Zhang, XF (Zhang, Xiaofeng); Javed, MS (Javed, Muhammad Sufyan); Zhang, XQ (Zhang, Xiaqing); Liu, G (Liu, Guo); Wei, XG (Wei, Xuegang); Chen, H (Chen, Hao); Imran, M (Imran, Muhammad); Wang, JT (Wang, Jiatai); Han, WH (Han, Weihua); Qi, J (Qi, Jing)

**Source:** JOURNAL OF APPLIED PHYSICS Volume: 132 Issue: 14 Article Number: 145001 DOI: 10.1063/5.0100522 Published: OCT 14 2022

---

**Record 186 of 1000**

**Title:** The effect of platinum decoration on the sensing characterisation of AIP nanosheets towards mercaptopurine drug

**Author(s):** Menazea, AA (Menazea, A. A.); Awwad, NS (Awwad, Nasser S.); Ibrahim, HA (Ibrahim, Hala A.); Ali, HE (Ali, H. Elhosiny)

**Source:** PRAMANA-JOURNAL OF PHYSICS Volume: 96 Issue: 2 Article Number: 100 DOI: 10.1007/s12043-022-02334-x Published: MAY 16 2022

---

**Record 187 of 1000**

**Title:** Revealing the role of the benzyloxy pharmacophore in the design of a new class of monoamine oxidase-B inhibitors

**Author(s):** Sudevan, ST (Sudevan, Sachithra T.); Rangarajan, TM (Rangarajan, T. M.); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Nair, AS (Nair, Aathira S.); Koyiparambath, VP (Koyiparambath, Vishal P.); Mathew, B (Mathew, Bijo)

**Source:** ARCHIV DER PHARMAZIE Volume: 355 Issue: 8 Article Number: e2200084 DOI: 10.1002/ardp.202200084 Early Access Date: MAY 2022 Published: AUG 2022

---

**Record 188 of 1000**

**Title:** AIEE active fluorophores for the sensitive detection of iron ions: An advanced approach towards optical and theoretical investigation

**Author(s):** Assiri, MA (Assiri, Mohammed A.); Hanif, S (Hanif, Suman); Junaid, HM (Junaid, Hafiz Muhammad); Hamad, A (Hamad, Asad); Irshad, H (Irshad, Hasher); Yar, M (Yar, Muhammad); Rauf, W (Rauf, Waqar); Shahzad, SA (Shahzad, Sohail Anjum)

**Source:** JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY Volume: 438 Article Number: 114514 DOI: 10.1016/j.jphotochem.2022.114514 Early Access Date: DEC 2022 Published: APR 1 2023

---

**Record 189 of 1000**

**Title:** Structural, spectral inspection, electronic properties in different solvents, Fukui functions, 6-acetyl-2H-1,4-benzoxazin-3(4H)-one - Multiple sclerosis and auto immune disorders therapeutics

**Author(s):** Vennila, M (Vennila, M.); Rathikha, R (Rathikha, R.); Muthu, S (Muthu, S.); Jeelani, A (Jeelani, A.); Irfan, A (Irfan, Ahmad)

**Source:** JOURNAL OF MOLECULAR LIQUIDS Volume: 359 Article Number: 119248 DOI: 10.1016/j.molliq.2022.119248 Early Access Date: MAY 2022 Published: AUG 1 2022

---

**Record 190 of 1000**

**Title:** Facile Synthesis and Anticancer Evaluation of Novel 1-(Thiazol-2-yl)-3-(thiazol-5-yl)-5-(thiophen-2-yl) Pyrazolines

**Author(s):** Bondock, S (Bondock, Samir); Albormani, O (Albormani, Omeer); Fouda, AM (Fouda, Ahmed M.)

**Source:** RUSSIAN JOURNAL OF GENERAL CHEMISTRY Volume: 92 Issue: 6 Pages: 1098-1108 DOI: 10.1134/S1070363222060226 Published: JUN 2022

---

**Record 191 of 1000**

**Title:** 2-Mercaptobenzimidazole clubbed hydrazone for Alzheimer's therapy: *In vitro*, kinetic, *in silico*, and *in vivo* potentials

**Author(s):** Begum, F (Begum, Farida); Rehman, NU (Rehman, Najeeb Ur); Khan, A (Khan, Ajmal); Iqbal, S (Iqbal, Sajid); Paracha, RZ (Paracha, Rehan Zafar); Uddin, J (Uddin, Jalal); Al-Harrasi, A (Al-Harrasi, Ahmed); Lodhi, MA (Lodhi, Muhammad Arif)

**Source:** FRONTIERS IN PHARMACOLOGY **Volume:** 13 **Article Number:** 946134 **DOI:** 10.3389/fphar.2022.946134 **Published:** AUG 9 2022

---

#### **Record 192 of 1000**

**Title:** Benchmark Density Functional Theory Approach for the Calculation of Bond Dissociation Energies of the M-O<sub>2</sub> Bond: A Key Step in Water Splitting Reactions

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

**Source:** ACS OMEGA **Volume:** 7 **Issue:** 24 **Pages:** 20800-20808 **DOI:** 10.1021/acsomega.2c01331 **Published:** JUN 21 2022

---

#### **Record 193 of 1000**

**Title:** Synthesis, Characterization, and Application of TiO<sub>2</sub>-Magnetite/Chitosan Nanocomposite for Adsorptive Removal of Naphthalene from Aqueous Solutions

**Author(s):** El-Zahhar, AA (El-Zahhar, Adel A.); Idris, AM (Idris, Abubakr M.)

**Source:** PETROLEUM CHEMISTRY **Volume:** 62 **Issue:** 7 **Pages:** 788-799 **DOI:** 10.1134/S0965544122010066 **Early Access Date:** JAN 2022 **Published:** JUL 2022

---

#### **Record 194 of 1000**

**Title:** Investigation of the Effect of Substituents on Electronic and Charge Transport Properties of Benzothiazole Derivatives

**Author(s):** Irfan, A (Irfan, Ahmad); Kalam, A (Kalam, Abul); Al-Sehemi, AG (Al-Sehemi, Abdullah G. G.); Dubey, M (Dubey, Mrigendra)

**Source:** MOLECULES **Volume:** 27 **Issue:** 24 **Article Number:** 8672 **DOI:** 10.3390/molecules27248672 **Published:** DEC 2022

---

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

**Title:** MXene based hybrid materials for supercapacitors: Recent developments and future perspectives

**Author(s):** Thomas, SA (Thomas, Susmi Anna); Patra, A (Patra, Abhinandan); Al-Shehri, BM (Al-Shehri, Badria M.); Selvaraj, M (Selvaraj, Manickam); Aravind, A (Aravind, Arun); Rout, CS (Rout, Chandra Sekhar)

**Source:** JOURNAL OF ENERGY STORAGE **Volume:** 55 **Article Number:** 105765 **DOI:** 10.1016/j.est.2022.105765 **Early Access Date:** OCT 2022 **Part:** D **Published:** NOV 30 2022

---

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

**Title:** A facile approach for the synthesis of spinel zinc ferrite/cellulose as an effective photocatalyst for the degradation of methylene blue in aqueous solution

**Author(s):** Charradi, K (Charradi, Khaled); Ahmed, Z (Ahmed, Zakarya); BenMoussa, MA (BenMoussa, Mohamed A.); Beji, Z (Beji, Zyed); Brahmia, A (Brahmia, Ameni); Othman, I (Othman, Israa); Abu Haija, M (Abu Haija, Mohammad); Chtourou, R (Chtourou, Radhouane); Keshk, SMAS (Keshk, Sherif M. A. S.)

**Source:** CELLULOSE **Volume:** 29 **Issue:** 4 **Pages:** 2565-2576 **DOI:** 10.1007/s10570-021-04334-3 **Early Access Date:** JAN 2022 **Published:** MAR 2022

---

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

**Title:** Antibacterial and anti-biofilm activity of plumbagin against multi-drug resistant clinical bacterial isolates

**Author(s):** Alfhili, MA (Alfhili, Mohammad A.); Ahmad, I (Ahmad, Irfan); Alraey, Y (Alraey, Yasser); Alangari, A (Alangari, Abdulaziz); Alqahtani, T (Alqahtani, Taha); Dera, AA (Dera, Ayed A.)

**Source:** SAUDI MEDICAL JOURNAL **Volume:** 43 **Issue:** 11 **Pages:** 1224-1233 **DOI:** 10.15537/smj.2022.43.11.20220446 **Published:** NOV 1 2022

---

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

**Title:** Computational examination on monomeric, dimeric, trimeric structural and vibrational interactions, AIM, Hirshfeld, IGM and oxygenated solvent effect on optical properties for pyridine N-oxide

**Author(s):** Sarala, S (Sarala, S.); Geetha, SK (Geetha, S. K.); Muthu, S (Muthu, S.); Irfan, A (Irfan, Ahmad)

**Source:** JOURNAL OF THE INDIAN CHEMICAL SOCIETY **Volume:** 99 **Issue:** 10 **Article Number:** 100660 **DOI:** 10.1016/j.jics.2022.100660 **Early Access Date:** AUG 2022 **Published:** OCT 2022

---

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

**Title:** One-step solution auto-combustion process for the rapid synthesis of crystalline phase iron oxide nanoparticles with improved magnetic and photocatalytic properties

**Author(s):** Prakash, RM (Prakash, R. Mithun); Ningaraju, C (Ningaraju, C.); Gayathri, K (Gayathri, K.); Teja, YN (Teja, Y. N.); Manthrammel, MA (Manthrammel, M. Aslam); Shkir, M (Shkir, Mohd.); AlFaify, S (AlFaify, S.); Sakar, M (Sakar, M.)

**Source:** ADVANCED POWDER TECHNOLOGY **Volume:** 33 **Issue:** 2 **Article Number:** 103435 **DOI:** 10.1016/j.appt.2022.103435 **Early Access Date:** JAN 2022 **Published:** FEB 2022

---

#### Record 200 of 1000

**Title:** Effect of Al concentration on the structural and thermoelectric properties of ZnAlS alloy

**Author(s):** Ikram, S (Ikram, Salma); Ali, A (Ali, A.); Amin, N (Amin, N.); Tabassam, I (Tabassam, Iqra); Amami, M (Amami, Mongi); Javaid, K (Javaid, K.); Ali, MY (Ali, M. Yasir); Mahmood, K (Mahmood, K.); ul Ahmad, A (ul Ahmad, Aqrab); Siyal, SH (Siyal, Sajid Hussain)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 144 **Article Number:** 109908 **DOI:** 10.1016/j.inoche.2022.109908 **Early Access Date:** AUG 2022 **Published:** OCT 2022

---

#### Record 201 of 1000

**Title:** Synthesis of ternary photocatalysts BiVO<sub>4</sub>/Au/black phosphorene by hydrothermal method for the photocatalytic degradation of Methylene blue

**Author(s):** Fatima, U (Fatima, Urooj); Tahir, MB (Tahir, M. B.); Nawaz, T (Nawaz, Tasmia); Sagir, M (Sagir, M.); Rafique, M (Rafique, Muhammad); Fatima, N (Fatima, Nisar); Assiri, MA (Assiri, Mohammed A.); Imran, M (Imran, Muhammad)

**Source:** APPLIED NANOSCIENCE **Volume:** 12 **Issue:** 10 **Pages:** 2979-2986 **DOI:** 10.1007/s13204-022-02567-7 **Early Access Date:** AUG 2022 **Published:** OCT 2022

---

#### Record 202 of 1000

**Title:** Multiwalled-Carbon-Nanotubes (MWCNTs)-GPTMS/Tannic-Acid-Nanocomposite-Coated Cotton Fabric for Sustainable Antibacterial Properties and Electrical Conductivity

**Author(s):** Abd El-Hady, MM (Abd El-Hady, Marwa M.); Farouk, A (Farouk, Asmaa); Sharaf, S (Sharaf, Samar)

**Source:** COATINGS **Volume:** 12 **Issue:** 2 **Article Number:** 178 **DOI:** 10.3390/coatings12020178 **Published:** FEB 2022

---

#### Record 203 of 1000

**Title:** Effects of Al and B co-doping on the thermoelectric properties of ZnO ceramics sintered in an argon atmosphere

**Author(s):** Ullah, M (Ullah, Mati); Ullah, S (Ullah, Sadiq); Shehnaz (Shehnaz); Manan, A (Manan, Abdul); Khan, F (Khan, Fayaz); Zeb, F (Zeb, Faisal); Mehmood, I (Mehmood, Ikhtisham); Rehman, MU (Rehman, Maqbool Ur); Amami, M (Amami, Mongi)

**Source:** APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING **Volume:** 128 **Issue:** 2 **Article Number:** 105 **DOI:** 10.1007/s00339-022-05256-y **Published:** FEB 2022

---

#### Record 204 of 1000

**Title:** Development of AIEE active fluorescent and colorimetric probe for the solid, solution, and vapor phase detection of cyanide: smartphone and food applications

**Author(s):** Majeed, S (Majeed, Shumaila); Waseem, MT (Waseem, Muhammad Tahir); Khan, GS (Khan, Gul Shahzada); Junaid, HM (Junaid, Hafiz Muhammad); Imran, M (Imran, Muhammad); Nawazish, S (Nawazish, Shamyla); Khan, TA (Khan, Tausif Ahmad); Mahmood, T (Mahmood, Tariq); Shahzad, SA (Shahzad, Sohail Anjum)

**Source:** ANALYST **Volume:** 147 **Issue:** 17 **Pages:** 3885-3893 **Article Number:** d2an00937d **DOI:** 10.1039/d2an00937d **Early Access Date:** JUL 2022 **Published:** AUG 22 2022

---

#### Record 205 of 1000

**Title:** Seroprevalence of Anti-S1-RBD Antibodies in Pre-pandemic and Pandemic Subjects From Hail Region, KSA

**Author(s):** Sherwani, S (Sherwani, Subuhi); Khan, MWA (Khan, Mohd Wajid Ali); Mallik, A (Mallik, Arshi); Khan, M (Khan, Mahvish); Saleem, M (Saleem, Mohd); Raafat, M (Raafat, Mohamed); Shati, AA (Shati, Ayed A.); Alam, N (Alam, Noor)

**Source:** FRONTIERS IN PUBLIC HEALTH **Volume:** 10 **Article Number:** 874741 **DOI:** 10.3389/fpubh.2022.874741 **Published:** JUN 9 2022

---

#### Record 206 of 1000

**Title:** Computational analysis and in vitro evaluation of TMF 104, for its antioxidant, antimicrobial, and anticancer efficacies

**Author(s):** Saif, A (Saif, Ahmed); Al Shahrani, M (Al Shahrani, Mesfer); Alshehri, M (Alshehri, Mohammed); Abohassan, M (Abohassan, Mohammad); Alshehri, MA (Alshehri, Mohammed A.); Radhakrishnan, S (Radhakrishnan, Suresh); Rajagopalan, P (Rajagopalan, Prasanna)

**Source:** BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY **Volume:** 70 **Issue:** 1 **Pages:** 148-156 **DOI:** 10.1002/bab.2337 **Early Access Date:** APR 2022 **Published:** FEB 2023

---

#### **Record 207 of 1000**

**Title:** All-Solid State Potentiometric Sensors for Desvenlafaxine Detection Using Biomimetic Imprinted Polymers as Recognition Receptors

**Author(s):** Bajaber, MA (Bajaber, Majed A.); Kamel, AH (Kamel, Ayman H.)

**Source:** POLYMERS **Volume:** 14 **Issue:** 22 **Article Number:** 4814 **DOI:** 10.3390/polym14224814 **Published:** NOV 2022

---

#### **Record 208 of 1000**

**Title:** AIEE active sensors for fluorescence enhancement based detection of Ni<sup>2+</sup> in living cells: Mechanofluorochromic and photochromic properties with reversible sensing of acid and base

**Author(s):** Assiri, MA (Assiri, Mohammed A.); Junaid, HM (Junaid, Hafiz Muhammad); Waseem, MT (Waseem, Muhammad Tahir); Hamad, A (Hamad, Asad); Shah, SH (Shah, Sajid Hussain); Iqbal, J (Iqbal, Jamshed); Rauf, W (Rauf, Waqar); Shahzad, SA (Shahzad, Sohail Anjum)

**Source:** ANALYTICA CHIMICA ACTA **Volume:** 1234 **Article Number:** 340516 **DOI:** 10.1016/j.aca.2022.340516 **Early Access Date:** OCT 2022 **Published:** NOV 22 2022

---

#### **Record 209 of 1000**

**Title:** Bioinspired Advances in Nanomaterials for Sustainable Agriculture

**Author(s):** Malini, S (Malini, S.); Raj, K (Raj, Kalyan); Madhumathy, S (Madhumathy, S.); El-Hady, KM (El-Hady, Khalid Mohamed); Islam, S (Islam, Saiful); Dutta, M (Dutta, Mycal)

**Source:** JOURNAL OF NANOMATERIALS **Volume:** 2022 **Article Number:** 8926133 **DOI:** 10.1155/2022/8926133 **Published:** APR 29 2022

---

#### **Record 210 of 1000**

**Title:** Precise and Prompt Analyte Detection via Ordered Orientation of Receptor in WSe<sub>2</sub>-Based Field Effect Transistor

**Author(s):** Zafar, MS (Zafar, Muhammad Shahzad); Dastgeer, G (Dastgeer, Ghulam); Kalam, A (Kalam, Abul); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Imran, M (Imran, Muhammad); Kim, YH (Kim, Yong Ho); Chae, H (Chae, Heeyeop)

**Source:** NANOMATERIALS **Volume:** 12 **Issue:** 8 **Article Number:** 1305 **DOI:** 10.3390/nano12081305 **Published:** APR 2022

---

#### **Record 211 of 1000**

**Title:** Sheep Dung Ash as a Low-Cost Adsorbent for the Reduction of COD of Highly Polluted Oilfield-Produced Water

**Author(s):** Abbas, AM (Abbas, Ahmed M.); Abboudy, SM (Abboudy, Sayed M.); Abdelkader, A (Abdelkader, Adel)

**Source:** WATER **Volume:** 14 **Issue:** 3 **Article Number:** 434 **DOI:** 10.3390/w14030434 **Published:** FEB 2022

---

#### **Record 212 of 1000**

**Title:** Formulation and characterization of eprosartan mesylate and  $\beta$ -cyclodextrin inclusion complex prepared by microwave technology

**Author(s):** Ahad, A (Ahad, Abdul); Bin Jardan, YA (Bin Jardan, Yousef A.); Hassan, MZ (Hassan, Mohd Zaheen); Raish, M (Raish, Mohammad); Ahmad, A (Ahmad, Ajaz); Al-Mohizea, AM (Al-Mohizea, Abdullah M.); Al-Jenoobi, FI (Al-Jenoobi, Fahad, I)

**Source:** DRUG DELIVERY **Volume:** 29 **Issue:** 1 **Pages:** 1512-1522 **DOI:** 10.1080/10717544.2022.2072540 **Published:** DEC 31 2022

---

#### **Record 213 of 1000**

**Title:** Validation, Optimization and Hepatoprotective Effects of Boeravinone B and Caffeic Acid Compounds from *Boerhavia diffusa* Linn

**Author(s):** Thajudeen, KY (Thajudeen, Kamal Y.); Alsayari, A (Alsayari, Abdulrhman); Ullah, SNMN (Ullah, Shehla Nasar Mir Najib); Salam, S (Salam, Shahana); Elayadeth-Meethal, M (Elayadeth-Meethal, Muhammed); Uoorakkottil, I (Uoorakkottil, Ilyas)

**Source:** SEPARATIONS **Volume:** 9 **Issue:** 7 **Article Number:** 177 **DOI:** 10.3390/separations9070177 **Published:** JUL 2022

---

#### **Record 214 of 1000**

**Title:** Rare earth metal (Sm)-doped NiMnO<sub>3</sub> nanostructures for highly competent alkaline oxygen evolution reaction

**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:** NANOSCALE ADVANCES **Volume:** 4 **Issue:** 11 **Pages:** 2501-2508 **DOI:** 10.1039/d2na00022a **Early Access Date:** MAY 2022 **Published:** MAY 31 2022

---

#### **Record 215 of 1000**

**Title:** Molecular level understanding of the chalcogen atom effect on chalcogen-based polymers through electrostatic potential, non-covalent interactions, excited state behaviour, and radial distribution function

**Author(s):** Mahmood, A (Mahmood, Asif); Irfan, A (Irfan, Ahmad); Wang, JL (Wang, Jin-Liang)

**Source:** POLYMER CHEMISTRY **Volume:** 13 **Issue:** 42 **Pages:** 5993-6001 **DOI:** 10.1039/d2py00960a **Early Access Date:** SEP 2022 **Published:** NOV 1 2022

---

#### **Record 216 of 1000**

**Title:** Investigation of a Minocycline-Loaded Nanoemulgel for the Treatment of Acne Rosacea

**Author(s):** Siddiqui, A (Siddiqui, Ayesha); Jain, P (Jain, Pooja); Alex, TS (Alex, Thompson Santosh); Ali, MA (Ali, Mohammed Asgar); Hassan, N (Hassan, Nazia); Haneef, J (Haneef, Jamshed); Naseef, PP (Naseef, Punnoth Poonkuzhi); Kuruniyan, MS (Kuruniyan, Mohamed Saheer); Mirza, MA (Mirza, Mohd Aamir); Iqbal, Z (Iqbal, Zeenat)

**Source:** PHARMACEUTICS **Volume:** 14 **Issue:** 11 **Article Number:** 2322 **DOI:** 10.3390/pharmaceutics14112322 **Published:** NOV 2022

---

#### **Record 217 of 1000**

**Title:** Cost effective synthesis of CuxBi<sub>2-x</sub>Se<sub>3</sub> photocatalysts by sol-gel method and their enhanced photodegradation and antibacterial activities

**Author(s):** Ahmad, D (Ahmad, Dilshad); Manzoor, MZ (Manzoor, Muhammad Zeewaqaar); Kousar, R (Kousar, Rehana); Somaily, HH (Somaily, H. H.); Buzdar, SA (Buzdar, Saeed Ahmad); Ullah, H (Ullah, Hafeez); Nazir, A (Nazir, Aalia); Warsi, MF (Warsi, Muhammad Farooq); Batool, Z (Batool, Zahida)

**Source:** CERAMICS INTERNATIONAL **Volume:** 48 **Issue:** 22 **Pages:** 32787-32797 **DOI:** 10.1016/j.ceramint.2022.07.203 **Early Access Date:** OCT 2022 **Published:** NOV 15 2022

---

#### **Record 218 of 1000**

**Title:** ZrCl<sub>4</sub>-Mg(ClO<sub>4</sub>)<sub>2</sub>: Highly efficient bimetallic catalyst for acetylation of alcohol with acetic acid

**Author(s):** Alam, MM (Alam, Mohammad Mujahid); Atkore, ST (Atkore, Sandeep T.); Kamble, VT (Kamble, Vinod T.); Varala, R (Varala, Ravi)

**Source:** BULLETIN OF THE KOREAN CHEMICAL SOCIETY **Volume:** 43 **Issue:** 4 **Pages:** 570-576 **DOI:** 10.1002/bkcs.12481 **Early Access Date:** JAN 2022 **Published:** APR 2022

---

#### **Record 219 of 1000**

**Title:** Novel Star-Shaped Benzotriindole-Based Nonfullerene Donor Materials: Toward the Development of Promising Photovoltaic Compounds for High-Performance Organic Solar Cells

**Author(s):** Rafiq, A (Rafiq, Arooza); Hussain, R (Hussain, Riaz); Khan, MU (Khan, Muhammad Usman); Mehboob, MY (Mehboob, Muhammad Yasir); Khalid, M (Khalid, Muhammad); Shehnaz (Shehnaz); Alam, MM (Alam, Mohammed Mujahid); Imran, M (Imran, Muhammad); Ayub, K (Ayub, Khurshid)

**Source:** ENERGY TECHNOLOGY **Volume:** 10 **Issue:** 3 **Article Number:** 2100751 **DOI:** 10.1002/ente.202100751 **Early Access Date:** JAN 2022 **Published:** MAR 2022

---

#### **Record 220 of 1000**

**Title:** DFT investigation of graphene quantum dot-Ixora floral natural dye (GQD-NDIX) nanocomposites as visible light harvesters in dye-sensitized solar cells

**Author(s):** Wazzan, N (Wazzan, Nuha); Irfan, A (Irfan, Ahmad); Fagieh, TM (Fagieh, Taghreed M.)  
**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 360 **Article Number:** 119531 **DOI:** 10.1016/j.molliq.2022.119531 **Early Access Date:** JUN 2022 **Published:** AUG 15 2022

---

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

**Title:** A facile approach for the synthesis of spinel zinc ferrite/cellulose as an effective photocatalyst for the degradation of methylene blue in aqueous solution (Jan, 10.1007/s10570-021-04334-3, 2022)

**Author(s):** Charradi, K (Charradi, Khaled); Ahmed, Z (Ahmed, Zakarya); BenMoussa, MA (BenMoussa, Mohamed A.); Beji, Z (Beji, Zyed); Brahmia, A (Brahmia, Ameni); Othman, I (Othman, Israa); Haija, MA (Haija, Mohammad Abu); Chtourou, R (Chtourou, Radhouane); Keshk, SMAS (Keshk, Sherif M. A. S.)

**Source:** CELLULOSE **Volume:** 29 **Issue:** 4 **Pages:** 2577-2578 **DOI:** 10.1007/s10570-022-04446-4 **Early Access Date:** FEB 2022 **Published:** MAR 2022

---

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

**Title:** SYNTHESIS OF CHITOSAN/MONTMORILLONITE-MAGNETITE COMPOSITE FOR REMOVAL OF POLYCYCLIC AROMATIC HYDROCARBONS FROM AQUEOUS SOLUTIONS

**Author(s):** El-Zahhar, AA (El-Zahhar, Adel A.); Idris, AM (Idris, Abubakr M.)

**Source:** FRESENIUS ENVIRONMENTAL BULLETIN **Volume:** 31 **Issue:** 4 **Pages:** 4321-4330 **Published:** 2022

---

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

**Title:** Synthesis and Characterization of Novel Polymeric-Sepiolite Composite Resin for Effective Water Softening: Applications in Batch and Column Adsorption

**Author(s):** Alghamdi, M (Alghamdi, Majed); El-Zahhar, AA (El-Zahhar, Adel A.); Idris, AM (Idris, Abubakr M.); Sahlabji, T (Sahlabji, Taher)

**Source:** JOURNAL OF MACROMOLECULAR SCIENCE PART B-PHYSICS **Volume:** 61 **Issue:** 10-11 **Pages:** 1213-1233 **DOI:** 10.1080/00222348.2022.2152164 **Early Access Date:** NOV 2022 **Published:** NOV 2 2022

---

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

**Title:** Effect of Storage Time and Floral Origin on the Physicochemical Properties of Beeswax and the Possibility of Using It as a Phase Changing Material in the Thermal Storage Energy Technology

**Author(s):** Al-Shehri, BM (Al-Shehri, Badria M.); Haddadi, T (Haddadi, Thahabh); Alasmari, EM (M. Alasmari, Eman); Ghramh, HA (Ghramh, Hamed A.); Khan, KA (Khan, Khalid Ali); Mohammed, MEA (Mohammed, Mohammed Elimam Ahamed); Alotaibi, MS (Sager Alotaibi, Mohammed); El-Niweiri, MAA (El-Niweiri, Mogbel Ahmed Abdalla); Assiri, AH (Hamdi Assiri, Abdulrahman); Khayyat, MM (Khayyat, Maha M.)

**Source:** FOODS **Volume:** 11 **Issue:** 23 **Article Number:** 3920 **DOI:** 10.3390/foods11233920 **Published:** DEC 2022

---

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

**Title:** Genetic Polymorphism in Angiotensinogen and Its Association with Cardiometabolic Diseases

**Author(s):** Shahid, M (Shahid, Momina); Rehman, K (Rehman, Kanwal); Akash, MSH (Akash, Muhammad Sajid Hamid); Suhail, S (Suhail, Shaleem); Kamal, S (Kamal, Shagufta); Imran, M (Imran, Muhammad); Assiri, MA (Assiri, Mohammed A. A.)

**Source:** METABOLITES **Volume:** 12 **Issue:** 12 **Article Number:** 1291 **DOI:** 10.3390/metabo12121291 **Published:** DEC 2022

---

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

**Title:** Highly Durable Antibacterial Properties of Cellulosic Fabric via  $\beta$ -Cyclodextrin/Essential Oils Inclusion Complex

**Author(s):** Farouk, A (Farouk, A.); Sharaf, S (Sharaf, S.); Refaie, R (Refaie, R.); Abd El-Hady, MM (Abd El-Hady, M. M.)

**Source:** POLYMERS **Volume:** 14 **Issue:** 22 **Article Number:** 4899 **DOI:** 10.3390/polym14224899 **Published:** NOV 2022

---

#### **Record 227 of 1000**

**Title:** Structural, magnetic and electrochemical properties of Al-substituted Ni ferrites for energy storage devices

**Author(s):** Hassan, S (Hassan, Shahid); Ahmad, M (Ahmad, Mukhtar); Rehman, AU (Rehman, Atiq Ur); Iqbal, MW (Iqbal, Muhammad Waqas); Shaikat, SF (Shaikat, Saleem Farooq); Abd-Rabboh, HSM (Abd-Rabboh, Hisham S. M.)

**Source:** JOURNAL OF ENERGY STORAGE **Volume:** 55 **Article Number:** 105320 **DOI:** 10.1016/j.est.2022.105320 **Part:** A **Published:** NOV 1 2022

---

#### Record 228 of 1000

**Title:** Identification of Halogen-Based Derivatives as Potent Inhibitors of Estrogen Receptor Alpha of Breast Cancer: An *In-Silico* Investigation

**Author(s):** Saba, A (Saba, Afsheen); Muhammad, S (Muhammad, Shabbir); Khera, RA (Khera, Rasheed Ahmad); Alhujaily, M (Alhujaily, Muhanad); Iqbal, J (Iqbal, Javed); Chaudhry, AR (Chaudhry, Aijaz Rasool); Alarfaji, SS (Alarfaji, Saleh S.); Belali, TM (Belali, Tareg M.)

**Source:** JOURNAL OF COMPUTATIONAL BIOPHYSICS AND CHEMISTRY **Volume:** 21 **Issue:** 02 **Pages:** 181-205 **DOI:** 10.1142/S2737416522500090 **Published:** MAR 2022

---

#### Record 229 of 1000

**Title:** Synthesis, characterization, molecular docking and network pharmacology of bioactive metallic sulfonamide-isatin ligands against promising drug targets

**Author(s):** Noreen, S (Noreen, Sadaf); Sumrra, SH (Sumrra, Sajjad H.); Chohan, ZH (Chohan, Zahid H.); Mustafa, G (Mustafa, Ghulam); Imran, M (Imran, Muhammad)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1277 **Article Number:** 134780 **DOI:** 10.1016/j.molstruc.2022.134780 **Early Access Date:** DEC 2022 **Published:** APR 5 2023

---

#### Record 230 of 1000

**Title:** Combination of experimental, surface and computational insight into the corrosion inhibition of pyrimidine derivative onto Q235 steel in oilfield acidizing fluid under hydrodynamic condition

**Author(s):** Singh, A (Singh, Ambrish); Ansari, KR (Ansari, K. R.); Ali, IH (Ali, Ismat H.); Lin, YH (Lin, Yuanhua); EL Ibrahim, B (EL Ibrahim, Brahim); Bazzi, L (Bazzi, Lahcen)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 353 **Article Number:** 118825 **DOI:** 10.1016/j.molliq.2022.118825 **Early Access Date:** MAR 2022 **Published:** MAY 1 2022

---

#### Record 231 of 1000

**Title:** Enriching the compositional tailoring of NLO responsive dyes with diversity oriented electron acceptors as visible light harvesters: a DFT/TD-DFT approach

**Author(s):** Hassan, AU (Hassan, Abrar U. U.); Sumrra, SH (Sumrra, Sajjad H. H.); Zafar, W (Zafar, Wardha); Imran, M (Imran, Muhammad); Noreen, S (Noreen, Sadaf); Irfan, M (Irfan, Muhammad)

**Source:** MOLECULAR PHYSICS **Volume:** 121 **Issue:** 1 **DOI:** 10.1080/00268976.2022.2148585 **Early Access Date:** NOV 2022 **Published:** JAN 2 2023

---

#### Record 232 of 1000

**Title:** Intermolecular hydrogen bonding of alcohols with dinitrobenzene radical anion and dianion: A combined electrochemical and DFT study

**Author(s):** Tariq, M (Tariq, Muhammad); Jan, SF (Jan, Safeer); Sarfaraz, S (Sarfaraz, Sehrish); Muhammad, S (Muhammad, Shabbir); Ayub, K (Ayub, Khurshid)

**Source:** JOURNAL OF MOLECULAR GRAPHICS & MODELLING **Volume:** 118 **Article Number:** 108358 **DOI:** 10.1016/j.jmgm.2022.108358 **Early Access Date:** OCT 2022 **Published:** JAN 2023

---

#### Record 233 of 1000

**Title:** *In silico* and *in vitro* Evaluation of a New N'-(2-Arylacetyl)-4-(1H-pyrrol-1-yl) benzohydrazides as Potential Antimicrobial Agents

**Author(s):** Mahnashi, MH (Mahnashi, Mater H.); Kittur, B (Kittur, Bhumika); Kumar, SRP (Kumar, S. R. Prem); Alqahtani, AS (Alqahtani, Ali S.); Al Ali, A (Al Ali, Amer); Alshahrani, MA (Alshahrani, Mohammed Abdulrahman); Shaikh, IA (Shaikh, Ibrahim Ahmed); Joshi, SD (Joshi, Shrinivas D.)

**Source:** INDIAN JOURNAL OF HETEROCYCLIC CHEMISTRY **Volume:** 32 **Issue:** 4 **Pages:** 523-530 **Published:** OCT-DEC 2022

---

#### Record 234 of 1000

**Title:** Photocatalysis and perovskite oxide-based materials: a remedy for a clean and sustainable future

**Author(s):** Irshad, M (Irshad, Muneeb); Ain, QT (Ain, Quar tul); Zaman, M (Zaman, Muhammad); Aslam, MZ (Aslam, Muhammad Zeeshan); Kousar, N (Kousar, Naila); Asim, M (Asim, Muhammad); Rafique, M (Rafique, Muhammad);



Siraj, K (Siraj, Khurram); Tabish, AN (Tabish, Asif Nadeem); Usman, M (Usman, Muhammad); Farooq, MU (Hassan Farooq, Masood ul); Assiri, MA (Assiri, Mohammed Ali); Imran, M (Imran, Muhammad)

**Source:** RSC ADVANCES **Volume:** 12 **Issue:** 12 **Pages:** 7009-7039 **DOI:** 10.1039/d1ra08185c **Published:** MAR 1 2022

---

#### Record 235 of 1000

**Title:** Synergetic Catalytic Bleaching Earth Clay and PEG-400 for Rapid Synthesis of Polyhydroquinoline Derivatives and Their 2,2-Diphenyl-1-picrylhydrazyl Radical Scavenging Activity

**Author(s):** Raithak, PV (Raithak, Pranita, V); Dhabe, AS (Dhabe, Arvind S.); Atkore, ST (Atkore, Sandeep T.); Alam, MM (Alam, M. Mujahid); Kotra, V (Kotra, Vijay); Varala, R (Varala, Ravi)

**Source:** INDIAN JOURNAL OF HETEROCYCLIC CHEMISTRY **Volume:** 32 **Issue:** 1 **Pages:** 85-90 **Published:** JAN-MAR 2022

---

#### Record 236 of 1000

**Title:** Strength and permeability of fiber-reinforced concrete incorporating waste materials

**Author(s):** Xu, Y (Xu, Yun); Xu, Y (Xu, Yin); Almuaythir, S (Almuaythir, Sultan); Marzouki, R (Marzouki, Riadh)

**Source:** ADVANCES IN CONCRETE CONSTRUCTION **Volume:** 13 **Issue:** 2 **Pages:** 133-152 **DOI:** 10.12989/acc.2022.13.2.133 **Published:** FEB 2022

---

#### Record 237 of 1000

**Title:** Aerial Oxidation of Phenol/Catechol in the Presence of Catalytic Amounts of [(Cl)<sub>2</sub>Mn(RCOOET)], RCOOET= Ethyl-5-Methyl-1-(((6-Methyl-3-Nitropyridin-2-yl)Amino)Methyl)-1*H*-Pyrazole-3-Carboxylate

**Author(s):** El Boutaybi, M (El Boutaybi, Mohamed); Titi, A (Titi, Abderrahim); Alzahrani, AYA (Alzahrani, Abdullah Y. A.); Bahari, Z (Bahari, Zahra); Tillard, M (Tillard, Monique); Hammouti, B (Hammouti, Belkheir); Touzani, R (Touzani, Rachid)

**Source:** CATALYSTS **Volume:** 12 **Issue:** 12 **Article Number:** 1642 **DOI:** 10.3390/catal12121642 **Published:** DEC 2022

---

#### Record 238 of 1000

**Title:** Design, synthesis and molecular docking studies of imidazole and benzimidazole linked ethionamide derivatives as inhibitors of InhA and antituberculosis agents

**Author(s):** Raghu, MS (Raghu, M. S.); Kumar, CBP (Kumar, C. B. Pradeep); Kumar, KY (Kumar, K. Yogesh); Prashanth, MK (Prashanth, M. K.); Alshahrani, MY (Alshahrani, Mohammad Y.); Ahmad, I (Ahmad, Irfan); Jain, R (Jain, Ranjana)

**Source:** BIOORGANIC & MEDICINAL CHEMISTRY LETTERS **Volume:** 60 **Article Number:** 128604 **DOI:** 10.1016/j.bmcl.2022.128604 **Early Access Date:** FEB 2022 **Published:** MAR 15 2022

---

#### Record 239 of 1000

**Title:** Shedding light on the optical and nonlinear optical properties of superalkali-doped borophene

**Author(s):** Hussnain, M (Hussnain, Muhammad); Shehzad, RA (Shehzad, Rao Aqil); Muhammad, S (Muhammad, Shabbir); Iqbal, J (Iqbal, Javed); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Alarfaji, SS (Alarfaji, Saleh S.); Ayub, K (Ayub, Khurshid); Yaseen, M (Yaseen, Muhammad)

**Source:** JOURNAL OF MOLECULAR MODELING **Volume:** 28 **Issue:** 2 **Article Number:** 46 **DOI:** 10.1007/s00894-022-05032-y **Published:** FEB 2022

---

#### Record 240 of 1000

**Title:** Nano-silver incorporated amine functionalized graphene oxide titania nanotube composite: a promising DSSC photoanode

**Author(s):** Kandasamy, M (Kandasamy, M.); Selvaraj, M (Selvaraj, M.); Alam, MM (Alam, M. Mujahid); Maruthamuthu, P (Maruthamuthu, P.); Murugesan, S (Murugesan, S.)

**Source:** JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS **Volume:** 131 **Article Number:** 104205 **DOI:** 10.1016/j.jtice.2022.104205 **Early Access Date:** JAN 2022 **Published:** FEB 2022

---

#### Record 241 of 1000

**Title:** Fabrication of Ce doped TiO<sub>2</sub> for efficient organic pollutants removal from wastewater

**Author(s):** Keerthana, S (Keerthana, Sp); Yuvakkumar, R (Yuvakkumar, R.); Ravi, G (Ravi, G.); Hong, SI (Hong, S., I); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Velauthapillai, D (Velauthapillai, Dhayalan)

**Record 242 of 1000**

**Title:** Bonding nature, nucleophilic reactivity and electron excitation of NLO active 2,6 dichloroindophenol sodium salt (polar and non polar solvents) with topology analysis- bacterial pathogens study

**Author(s):** Mishma, JNC (Mishma, J. N. Cheerlin); Jothy, VB (Jothy, V. Bena); Muthu, S (Muthu, S.); Irfan, A (Irfan, Ahmad)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 367 **Article Number:** 120533 **DOI:** 10.1016/j.molliq.2022.120533 **Early Access Date:** OCT 2022 **Part:** B **Published:** DEC 1 2022

---

**Record 243 of 1000**

**Title:** Influence of Cu-Mg substituted ZnFe<sub>2</sub>O<sub>4</sub> ferrite as a highly efficient nanocatalyst for dye degradation and 4-nitrophenol reduction

**Author(s):** Patil, K (Patil, Kundan); Jangam, K (Jangam, Kundan); Patange, S (Patange, Sunil); Balgude, S (Balgude, Sagar); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Pawar, H (Pawar, Hari); More, P (More, Paresh)

**Source:** JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS **Volume:** 167 **Article Number:** 110783 **DOI:** 10.1016/j.jpcs.2022.110783 **Early Access Date:** MAY 2022 **Published:** AUG 2022

---

**Record 244 of 1000**

**Title:** Green Synthesis of Nano Zinc Oxide/Nanohydroxyapatite Composites Using Date Palm Pits Extract and Eggshells: Adsorption and Photocatalytic Degradation of Methylene Blue

**Author(s):** Elsayed, MS (Elsayed, Maha S.); Ahmed, IA (Ahmed, Inas A.); Bader, DMD (Bader, Dina M. D.); Hassan, AF (Hassan, Asaad F.)

**Source:** NANOMATERIALS **Volume:** 12 **Issue:** 1 **Article Number:** 49 **DOI:** 10.3390/nano12010049 **Published:** JAN 2022

---

**Record 245 of 1000**

**Title:** Resveratrol from Dietary Supplement to a Drug Candidate: An Assessment of Potential

**Author(s):** Khattar, S (Khattar, Shivani); Khan, SA (Khan, Sauban Ahmed); Zaidi, SAA (Zaidi, Syed Amir Azam); Darvishikolour, M (Darvishikolour, Mahdi); Farooq, U (Farooq, Uzma); Naseef, PP (Naseef, Punnoth Poonkuzhi); Kurunian, MS (Kurunian, Mohamed Saheer); Khan, MZ (Khan, Mohammed Zaafar); Shamim, A (Shamim, Athar); Khan, MMU (Khan, Mohd Masih Uzzaman); Iqbal, Z (Iqbal, Zeenat); Mirza, MA (Mirza, Mohd Aamir)

**Source:** PHARMACEUTICALS **Volume:** 15 **Issue:** 8 **Article Number:** 957 **DOI:** 10.3390/ph15080957 **Published:** AUG 2022

---

**Record 246 of 1000**

**Title:** Deciphering the Role of Alkali Metals (Li, Na, K) Doping for Triggering Nonlinear Optical (NLO) Properties of T-Graphene Quantum Dots: Toward the Development of Giant NLO Response Materials

**Author(s):** Sarwar, S (Sarwar, Saadia); Yaqoob, J (Yaqoob, Junaid); Khan, MU (Khan, Muhammad Usman); Hussain, R (Hussain, Riaz); Zulfiqar, S (Zulfiqar, Sobia); Anwar, A (Anwar, Abida); Assiri, MA (Assiri, Mohammed A.); Imran, M (Imran, Muhammad); Ibrahim, MM (Ibrahim, Mohamed M.); Mersal, GAM (Mersal, Gaber A. M.); Elnaggar, AY (Elnaggar, Ashraf Y.)

**Source:** ACS OMEGA **Volume:** 7 **Issue:** 28 **Pages:** 24396-24414 **DOI:** 10.1021/acsomega.2c01746 **Early Access Date:** JUL 2022 **Published:** JUL 19 2022

---

**Record 247 of 1000**

**Title:** Role of Moringa oleifera on Green Synthesis of Metal/Metal Oxide Nanomaterials

**Author(s):** Jadhav, V (Jadhav, Vikram); Bhagare, A (Bhagare, Arun); Ali, IH (Ali, Ismat H.); Dhayagude, A (Dhayagude, Akshay); Lokhande, D (Lokhande, Dnyaneshwar); Aher, J (Aher, Jayraj); Jameel, M (Jameel, Mohammed); Dutta, M (Dutta, Mycal)

**Source:** JOURNAL OF NANOMATERIALS **Volume:** 2022 **Article Number:** 2147393 **DOI:** 10.1155/2022/2147393 **Published:** APR 7 2022

---

**Record 248 of 1000**

**Title:** Identification of Marine Fungi-Based Antiviral Agents as Potential Inhibitors of SARS-CoV-2 by Molecular Docking, ADMET and Molecular Dynamic Study

**Author(s):** Qaisar, M (Qaisar, Mahnoor); Muhammad, S (Muhammad, Shabbir); Iqbal, J (Iqbal, Javed); Khera, RA (Khera, Rasheed Ahmad); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Alarfaji, SS (Alarfaji, Saleh S.); Khalid, M (Khalid, Muhammad); Hussain, F (Hussain, Fatima)

**Source:** JOURNAL OF COMPUTATIONAL BIOPHYSICS AND CHEMISTRY **Volume:** 21 **Issue:** 02 **Pages:** 139-153 **DOI:** 10.1142/S2737416522500065 **Published:** MAR 2022

---

#### Record 249 of 1000

**Title:** Graphene-based biosensors for disease theranostics: Development, applications, and recent advancements

**Author(s):** Alhazmi, HA (Alhazmi, Hassan A.); Ahsan, W (Ahsan, Waquar); Mangla, B (Mangla, Bharti); Javed, S (Javed, Shamama); Hassan, MZ (Hassan, Mohd. Zaheen); Asmari, M (Asmari, Mufarreh); Al Bratty, M (Al Bratty, Mohammed); Najmi, A (Najmi, Asim)

**Source:** NANOTECHNOLOGY REVIEWS **Volume:** 11 **Issue:** 1 **Pages:** 96-116 **DOI:** 10.1515/ntrev-2022-0009 **Published:** JAN 1 2022

---

#### Record 250 of 1000

**Title:** Pharmacological Efficacy and Safety of *Glycyrrhiza glabra* in the Treatment of Respiratory Tract Infections

**Author(s):** Wahab, S (Wahab, Shadma); Ahmad, I (Ahmad, Irfan); Irfan, S (Irfan, Safia); Siddiqua, A (Siddiqua, Ayesha); Usmani, S (Usmani, Shazia); Ahmad, P (Ahmad, Parwez)

**Source:** MINI-REVIEWS IN MEDICINAL CHEMISTRY **Volume:** 22 **Issue:** 11 **Pages:** 1476-1494 **DOI:** 10.2174/1389557521666210927153001 **Published:** 2022

---

#### Record 251 of 1000

**Title:** Insights on Chemical Crosslinking Strategies for Proteins

**Author(s):** Jayachandran, B (Jayachandran, Brindha); Parvin, TN (Parvin, Thansila N.); Alam, MM (Alam, M. Mujahid); Chanda, K (Chanda, Kaushik); Balamurali, MM (Balamurali, M. M.)

**Source:** MOLECULES **Volume:** 27 **Issue:** 23 **Article Number:** 8124 **DOI:** 10.3390/molecules27238124 **Published:** DEC 2022

---

#### Record 252 of 1000

**Title:** Piezocatalytic dye degradation using Bi<sub>2</sub>O<sub>3</sub>-ZnO-Bi<sub>2</sub>O<sub>3</sub> glass-nanocomposites

**Author(s):** Porwal, C (Porwal, Chirag); Sharma, M (Sharma, Moolchand); Vaish, R (Vaish, Rahul); Chauhan, VS (Chauhan, Vishal Singh); ben Ahmed, S (ben Ahmed, Samia); Hwang, W (Hwang, Wonseop); Park, HKB (Park, Heyong Kwang Benno); Sung, TH (Sung, Tae Hyun); Kumar, A (Kumar, Anuruddh)

**Source:** JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T **Volume:** 21 **Pages:** 2028-2037 **DOI:** 10.1016/j.jmrt.2022.10.041 **Early Access Date:** OCT 2022 **Published:** NOV-DEC 2022

---

#### Record 253 of 1000

**Title:** Novel modeling and optimization framework for Navy Blue adsorption onto eco-friendly magnetic geopolymer composite

**Author(s):** Khan, H (Khan, Hammad); Hussain, S (Hussain, Sajjad); Zahoor, R (Zahoor, Rehman); Arshad, M (Arshad, Muhammad); Umar, M (Umar, Muhammad); Marwat, MA (Marwat, Mohsin Ali); Khan, A (Khan, Adnan); Khan, JR (Khan, Javaid Rabbani); Haleem, MA (Haleem, Muhammad Abdul)

**Source:** ENVIRONMENTAL RESEARCH **Volume:** 216 **Article Number:** 114346 **DOI:** 10.1016/j.envres.2022.114346 **Early Access Date:** OCT 2022 **Part:** 1 **Published:** JAN 1 2023

---

#### Record 254 of 1000

**Title:** Systematic analysis to identify novel disease indications and plausible potential chemical leads of glutamate ionotropic receptor NMDA type subunit 1, GRIN1

**Author(s):** Bhardwaj, T (Bhardwaj, Tulika); Ahmad, I (Ahmad, Irshad); Somvanshi, P (Somvanshi, Pallavi)

**Source:** JOURNAL OF MOLECULAR RECOGNITION **Volume:** 36 **Issue:** 1 **DOI:** 10.1002/jmr.2997 **Early Access Date:** NOV 2022 **Published:** JAN 2023

---

#### Record 255 of 1000

**Title:** Design, Preparation and Evaluation of Supramolecular Complexes with Curcumin for Enhanced Cytotoxicity in Breast Cancer Cell Lines

**Author(s):** Abdelkader, H (Abdelkader, Hamdy); Al Fatease, A (Al Fatease, Adel); Fathalla, Z (Fathalla, Zeinab); Shoman, ME (Shoman, Mai E.); Abou-Taleb, HA (Abou-Taleb, Heba A.); Abourehab, MAS (Abourehab, Mohammed A. S.)

**Source:** PHARMACEUTICS **Volume:** 14 **Issue:** 11 **Article Number:** 2283 **DOI:** 10.3390/pharmaceutics14112283 **Published:** NOV 2022

---

#### **Record 256 of 1000**

**Title:** The influence of transition metals (Fe, Co) on the structural, magnetic and optical properties of TiO<sub>2</sub> nanoparticles synthesized by the hydrothermal method

**Author(s):** Waseem, S (Waseem, Salma); Zeeshan, T (Zeeshan, Talat); Tariq, H (Tariq, Hafsa); Majid, F (Majid, Farzana); Ali, MD (Ali, Muhammad Danish); Kayani, ZN (Kayani, Zohra Nazir); Amami, M (Amami, Mongi)

**Source:** APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING **Volume:** 128 **Issue:** 8 **Article Number:** 690 **DOI:** 10.1007/s00339-022-05749-w **Published:** AUG 2022

---

#### **Record 257 of 1000**

**Title:** Lead-free Dion-Jacobson halide perovskites CsMX<sub>2</sub>Y<sub>2</sub> (M = Sb, Bi and X, Y = Cl, Br, I) used for optoelectronic applications via first principle calculations

**Author(s):** Ul Haq, I (Ul Haq, Izaz); Rehman, G (Rehman, Gul); Ahmad, I (Ahmad, Iftikhar); Yakout, HA (Yakout, H. A.); Khan, I (Khan, Imad)

**Source:** JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS **Volume:** 174 **Article Number:** 111157 **DOI:** 10.1016/j.jpms.2022.111157 **Early Access Date:** DEC 2022 **Published:** MAR 2023

---

#### **Record 258 of 1000**

**Title:** MOF-derived carbon coated Cu<sub>3</sub>P with Ni doping as advanced supercapacitor electrode materials

**Author(s):** He, X (He, Xuan); Jin, YH (Jin, Yuhong); Jia, M (Jia, Miao); Jia, MQ (Jia, Mengqiu); Wang, H (Wang, Hao); Imran, M (Imran, Muhammad)

**Source:** SUSTAINABLE ENERGY & FUELS **Volume:** 6 **Issue:** 23 **Pages:** 5360-5370 **DOI:** 10.1039/d2se01024k **Early Access Date:** OCT 2022 **Published:** NOV 22 2022

---

#### **Record 259 of 1000**

**Title:** Flavones as Important Scaffolds for Anticancer, Antioxidant and Anti-Tubercular Activities: An Overview of Reports 2015-2020

**Author(s):** Bollikolla, HB (Bollikolla, Hari Babu); Tyagi, R (Tyagi, Ranjini); Gokada, MR (Gokada, Maheswara Rao); Anandam, R (Anandam, Rambabu); Kasthuri, JK (Kasthuri, Jyothi K.); Durga, TV (Durga, Vijaya T.); Alam, MM (Alam, M. Mujahid); Mannam, KM (Mannam, Krishna Murthy)

**Source:** MOSCOW UNIVERSITY CHEMISTRY BULLETIN **Volume:** 77 **Issue:** 5 **Pages:** 269-285 **DOI:** 10.3103/S0027131422050042 **Published:** OCT 2022

---

#### **Record 260 of 1000**

**Title:** First-principles calculations to investigate ultra-wide bandgap semiconductor behavior of NaMgF<sub>3</sub> fluoro-perovskite with external static isotropic pressure and its impact on optical properties

**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); Sagir, M (Sagir, Muhammad); Alrobei, H (Alrobei, Hussein); Ullah, S (Ullah, Sami); Assiri, MA (Assiri, Mohammed Ali)

**Source:** OPTIK **Volume:** 252 **Article Number:** 168532 **DOI:** 10.1016/j.ijleo.2021.168532 **Published:** FEB 2022

---

#### **Record 261 of 1000**

**Title:** Flavonoids as selective chemosensor for formic acid over ammonia; A DFT study

**Author(s):** Tariq, M (Tariq, Muhammad); Noor, S (Noor, Shehnaz); Sarfaraz, S (Sarfaraz, Sehrish); Muhammad, S (Muhammad, Shabbir); Ayub, K (Ayub, Khurshid)

**Source:** MATERIALS TODAY COMMUNICATIONS **Volume:** 34 **Article Number:** 105038 **DOI:** 10.1016/j.mtcomm.2022.105038 **Early Access Date:** NOV 2022 **Published:** MAR 2023

---

#### **Record 262 of 1000**

**Title:** Synthesis and Application of Egg Shell Biochar for As(V) Removal from Aqueous Solutions

**Author(s):** Akram, A (Akram, Asma); Muzammal, S (Muzammal, Shazma); Shakoor, MB (Shakoor, Muhammad Bilal); Ahmad, SR (Ahmad, Sajid Rashid); Jilani, A (Jilani, Asim); Iqbal, J (Iqbal, Javed); Al-Sehemi, AG (Al-Sehemi, Abdullah

G.); Kalam, A (Kalam, Abul); Aboushoushah, SFO (Aboushoushah, Samia Faisal O.)

**Source:** CATALYSTS **Volume:** 12 **Issue:** 4 **Article Number:** 431 **DOI:** 10.3390/catal12040431 **Published:** APR 2022

---

#### Record 263 of 1000

**Title:** Distribution, characteristics, and risk assessments analysis of microplastics in shore sediments and surface water of Moheshkhali channel of Bay of Bengal, Bangladesh

**Author(s):** Al Nahian, S (Al Nahian, Sultan); Rakib, MRJ (Rakib, Md. Refat Jahan); Kumar, R (Kumar, Rakesh); Haider, SMB (Haider, Sayeed Mahmood Belal); Sharma, P (Sharma, Prabhakar); Idris, AM (Idris, Abubakr M.)

**Source:** SCIENCE OF THE TOTAL ENVIRONMENT **Volume:** 855 **Article Number:** 158892 **DOI:** 10.1016/j.scitotenv.2022.158892 **Early Access Date:** SEP 2022 **Published:** JAN 10 2023

---

#### Record 264 of 1000

**Title:** Investigation of optimum Mn dopant level on TiO<sub>2</sub> for dye degradation

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

**Source:** CHEMOSPHERE **Volume:** 306 **Article Number:** 135574 **DOI:** 10.1016/j.chemosphere.2022.135574 **Early Access Date:** JUL 2022 **Published:** NOV 2022

---

#### Record 265 of 1000

**Title:** Adsorption of Industrial Gases (CH<sub>4</sub>, CO<sub>2</sub>, and CO) on Olympicene: A DFT and CCSD(T) Investigation

**Author(s):** Sohail, U (Sohail, Uroosa); Ullah, F (Ullah, Faizan); Mahmood, T (Mahmood, Tariq); Muhammad, S (Muhammad, Shabbir); Ayub, K (Ayub, Khurshid)

**Source:** ACS OMEGA **Volume:** 7 **Issue:** 22 **Pages:** 18852-18860 **DOI:** 10.1021/acsomega.2c01796 **Early Access Date:** MAY 2022 **Published:** JUN 7 2022

---

#### Record 266 of 1000

**Title:** Application of a new derivatives of traizole Schiff base on chromium recovery from its wastewater

**Author(s):** Bajaber, MA (Bajaber, Majed A.); Ragab, AH (Ragab, Ahmed H.); Sakr, AK (Sakr, Ahmed K. K.); Atia, BM (Atia, Bahig M. M.); Fathy, WM (Fathy, Wael M. M.); Gado, MA (Gado, Mohamed A. A.)

**Source:** SEPARATION SCIENCE AND TECHNOLOGY **Volume:** 58 **Issue:** 4 **Pages:** 737-758 **DOI:** 10.1080/01496395.2022.2147440 **Early Access Date:** DEC 2022 **Published:** MAR 4 2023

---

#### Record 267 of 1000

**Title:** Samarium doped barium molybdate nanostructured candidate for supercapacitors

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

**Source:** JOURNAL OF ENERGY STORAGE **Volume:** 56 **Article Number:** 105945 **DOI:** 10.1016/j.est.2022.105945 **Early Access Date:** NOV 2022 **Part:** A **Published:** DEC 1 2022

---

#### Record 268 of 1000

**Title:** Synthesis and biological evaluation of aryl derivatives of isoxazole pyrazolo[1,5-a] pyrimidines as anticancer agents

**Author(s):** Bhogireddy, DN (Bhogireddy, Danayya Nayudu); Surapureddi, SR (Surapureddi, Sri Ramakrishna); Syed, T (Syed, Tasqeeruddin); Prashanth, T (Prashanth, Thodupunuri); Tadiboina, BR (Tadiboina, Bhaskara Rao)

**Source:** SYNTHETIC COMMUNICATIONS **Volume:** 52 **Issue:** 6 **Pages:** 861-874 **DOI:** 10.1080/00397911.2022.2056846 **Early Access Date:** APR 2022 **Published:** MAR 19 2022

---

#### Record 269 of 1000

**Title:** *In-silico* Validation of the Proposed Treatment Strategy of Periodontitis

**Author(s):** Jain, P (Jain, Pooja); Farooq, U (Farooq, Uzma); Nainwal, LM (Nainwal, Lalit Mohan); Alam, M (Alam, Mumtaz); Poonkuzhi, NP (Poonkuzhi, Naseef Punnoth); Kuruniyan, MS (Kuruniyan, Mohamed Saheer); Mirza, MA (Mirza, Mohd Aamir); Iqbal, Z (Iqbal, Zeenat)

**Source:** COMBINATORIAL CHEMISTRY & HIGH THROUGHPUT SCREENING **Volume:** 25 **Issue:** 13 **Pages:** 2295-2313 **DOI:** 10.2174/1386207325666220126102235 **Published:** 2022

---

**Record 270 of 1000**

**Title:** An insight into the performance of radiator system using ethylene glycol-water based graphene oxide nanofluids

**Author(s):** Shankara, RP (Shankara, R. Prasanna); Banapurmath, NR (Banapurmath, N. R.); D'Souza, A (D'Souza, Abhinandan); Sajjan, AM (Sajjan, A. M.); Ayachit, NH (Ayachit, N. H.); Khan, TMY (Khan, T. M. Yunus); Badruddin, IA (Badruddin, Irfan Anjum); Kamangar, S (Kamangar, Sarfaraz)

**Source:** ALEXANDRIA ENGINEERING JOURNAL **Volume:** 61 **Issue:** 7 **Pages:** 5155-5167 **DOI:** 10.1016/j.aej.2021.10.037 **Published:** JUL 2022

---

**Record 271 of 1000**

**Title:** Structural Insight of Anthracene Orientation by Halogen Substitution: Impact on Solid-State Fluorescence and Stimuli- Induced Fluorescence Switching

**Author(s):** Gayathri, P (Gayathri, Parthasarathy); Karthikeyan, S (Karthikeyan, Subramanian); 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:** 9 **Pages:** 5432-5440 **DOI:** 10.1021/acs.cgd.2c00531 **Early Access Date:** AUG 2022 **Published:** SEP 7 2022

---

**Record 272 of 1000**

**Title:** Theoretical spectroscopic electronic elucidation with different solvents (IEFPCM model), biological assessment and molecular docking studies on Moroxydine-Antiviral drug agent

**Author(s):** Vennila, M (Vennila, M.); Rathikha, R (Rathikha, R.); Muthu, S (Muthu, S.); Jeelani, A (Jeelani, A.); Devi, RN (Devi, R. Niranjana); Irfan, A (Irfan, Ahmad)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 355 **Article Number:** 118946 **DOI:** 10.1016/j.molliq.2022.118946 **Early Access Date:** MAR 2022 **Published:** JUN 1 2022

---

**Record 273 of 1000**

**Title:** Biochemical and *in silico* inhibition of bovine and human carbonic anhydrase-II by 1H-1,2,3-triazole analogs

**Author(s):** Khan, M (Khan, Majid); Avula, SK (Avula, Satya Kumar); Halim, SA (Halim, Sobia Ahsan); Waqas, M (Waqas, Muhammad); Asmari, M (Asmari, Mufarreh); Khan, A (Khan, Ajmal); Al-Harrasi, A (Al-Harrasi, Ahmed)

**Source:** FRONTIERS IN CHEMISTRY **Volume:** 10 **Article Number:** 1072337 **DOI:** 10.3389/fchem.2022.1072337 **Published:** NOV 25 2022

---

**Record 274 of 1000**

**Title:** A review on the biomedical efficacy of transition metal triazole compounds

**Author(s):** Sumrra, SH (Sumrra, Sajjad Hussain); Zafar, W (Zafar, Wardha); Imran, M (Imran, Muhammad); Chohan, ZH (Chohan, Zahid Hussain)

**Source:** JOURNAL OF COORDINATION CHEMISTRY **Volume:** 75 **Issue:** 3-4 **Pages:** 293-334 **DOI:** 10.1080/00958972.2022.2059359 **Early Access Date:** MAR 2022 **Published:** JUN 10 2022

---

**Record 275 of 1000**

**Title:** Schiff Bases from  $\alpha$ -innone with Adenine, Cytosine, and *l*-leucine Biomotectues: Synthesis, Structural. Features, Electronic Structure, and Medicinal Activities

**Author(s):** Surendar, P (Surendar, P.); Pooventhiran, T (Pooventhiran, T.); Rajam, S (Rajam, Shameela); Irfan, A (Irfan, Ahmad); Thomas, R (Thomas, Renjith)

**Source:** JOURNAL OF COMPUTATIONAL BIOPHYSICS AND CHEMISTRY **Volume:** 21 **Issue:** 01 **Pages:** 1-22 **DOI:** 10.1142/S2737416522500016 **Published:** FEB 2022

---

**Record 276 of 1000**

**Title:** Cost effective synthesis of Mn doped NiO/rGO nanocomposite for non-enzymatic electrochemical glucose sensor

**Author(s):** Kaleemullah, M (Kaleemullah, Muhammad); Yousaf, S (Yousaf, Sheraz); Alsafari, IA (Alsafari, Ibrahim A.); Somaily, HH (Somaily, H. H.); Rahman, J (Rahman, Jameel); Shahid, M (Shahid, Muhammad); Ashraf, M (Ashraf, Muhammad); Warsi, MF (Warsi, Muhammad Farooq)

**Source:** INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY **DOI:** 10.1080/03067319.2022.2141117 **Early Access Date:** NOV 2022

---

**Record 277 of 1000**

**Title:** Polymers blended peanuts activated carbon composite hydrogels fabricated Ag NPs as dip-catalyst for industrial dyes discoloration in aqueous medium

**Author(s):** Al-Ghamdi, YO (Al-Ghamdi, Youssef O.); Saeed, G (Saeed, Ghufraan); Ali, M (Ali, Mubarak); Ali, K (Ali, Kifayat); Ullah, K (Ullah, Kaleem); Khan, N (Khan, Noureen); Iqbal, M (Iqbal, Mudassar); Alzahrani, AYA (Alzahrani, Abdullah Y. A.); Khan, SA (Khan, Shahid Ali)

**Source:** INDUSTRIAL CROPS AND PRODUCTS **Volume:** 188 **Article Number:** 115588 **DOI:** 10.1016/j.indcrop.2022.115588 **Early Access Date:** SEP 2022 **Part:** A **Published:** NOV 15 2022

---

#### Record 278 of 1000

**Title:** Plasma-etched Ti<sub>2</sub>O<sub>3</sub> with oxygen vacancies for enhanced NH<sub>3</sub> electrosynthesis and Zn-N<sub>2</sub> batteries

**Author(s):** Chen, HJ (Chen, Hai-jun); Xu, ZQ (Xu, Zhao-quan); Sun, SJ (Sun, Shengjun); Luo, YS (Luo, Yongsong); Liu, Q (Liu, Qian); Hamdy, MS (Hamdy, Mohamed S.); Feng, ZS (Feng, Zhe-sheng); Sun, XP (Sun, Xuping); Wang, Y (Wang, Yan)

**Source:** INORGANIC CHEMISTRY FRONTIERS **Volume:** 9 **Issue:** 18 **Pages:** 4608-4613 **DOI:** 10.1039/d2qi01173e **Early Access Date:** JUL 2022 **Published:** SEP 13 2022

---

#### Record 279 of 1000

**Title:** Batch reverse osmosis (BRO)-adsorption desalination (AD) hybrid system for multipurpose desalination and minimal liquid discharge

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

**Source:** DESALINATION **Volume:** 539 **Article Number:** 115945 **DOI:** 10.1016/j.desal.2022.115945 **Early Access Date:** JUL 2022 **Published:** OCT 1 2022

---

#### Record 280 of 1000

**Title:** One-Pot Three-Component Synthesis of a Series of 2-Amino-4-(4-oxo-4*H*-chromen-3-yl)-5-(2,2,2-trifluoroacetyl)-6-(trifluoromethyl)-4*H*-pyrans and 2-Amino-4-(4-oxo-4*H*-chromen-3-yl)-5-(thiophene-2-carbonyl)-6-(trifluoromethyl)-4*H*-pyrans as Promising Anticancer Agents

**Author(s):** Ali, TE (Ali, T. E.); Assiri, MA (Assiri, M. A.); Shati, AA (Shati, A. A.); Alfaifi, MY (Alfaifi, M. Y.); Elbehairi, SEI (Elbehairi, S. E., I)

**Source:** RUSSIAN JOURNAL OF ORGANIC CHEMISTRY **Volume:** 58 **Issue:** 4 **Pages:** 584-591 **DOI:** 10.1134/S1070428022040170 **Published:** APR 2022

---

#### Record 281 of 1000

**Title:** Molecular docking, dynamics, and quantum chemical study of vanillylacetone and beta-hydroxy ketone derivatives against M<sub>1</sub> SARS-CoV-2

**Author(s):** Amin, S (Amin, Sanayah); Muhammad, S (Muhammad, Shabbir); Iqbal, J (Iqbal, Javed); Ullah, S (Ullah, Sami); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Algarni, H (Algarni, H.); Alarfaji, SS (Alarfaji, Saleh S.); Ayub, K (Ayub, Khurshid)

**Source:** SOUTH AFRICAN JOURNAL OF CHEMISTRY-SUID-AFRIKAANSE TYDSKRIF VIR CHEMIE **Volume:** 76 **Pages:** 79-90 **DOI:** 10.17159/0379-4350/2022/v76a12 **Published:** 2022

---

#### Record 282 of 1000

**Title:** Scrutiny of Solar Water Heating System Employing Supercritical Fluid

**Author(s):** Algarni, S (Algarni, Salem); Tirth, V (Tirth, Vineet); Alqahtani, T (Alqahtani, Talal); Kshirsagar, PR (Kshirsagar, Pravin R.); Debtera, B (Debtera, Baru)

**Source:** MATHEMATICAL PROBLEMS IN ENGINEERING **Volume:** 2022 **Article Number:** 6752289 **DOI:** 10.1155/2022/6752289 **Published:** JUN 8 2022

---

#### Record 283 of 1000

**Title:** Role of Alkylamines in Tuning the Morphology and Optical Properties of SnS<sub>2</sub> Nanoparticles Synthesized by via Facile Thermal Decomposition Approach

**Author(s):** Gaur, R (Gaur, Rama); Shahabuddin, S (Shahabuddin, Syed); Ahmad, I (Ahmad, Irfan); Sridewi, N (Sridewi, Nanthini)

**Source:** NANOMATERIALS **Volume:** 12 **Issue:** 22 **Article Number:** 3950 **DOI:** 10.3390/nano12223950 **Published:** NOV 2022

---

### Record 284 of 1000

**Title:** Ultra-sensitive fluorescent and colorimetric probes for femtomolar detection of picric acid: Mechanochromic, latent fingerprinting, and pH responsive character with AIE properties

**Author(s):** Khan, NA (Khan, Nazeer Ahmad); Waheed, S (Waheed, Sara); Junaid, HM (Junaid, Hafiz Muhammad); Hamad, A (Hamad, Asad); Imran, M (Imran, Muhammad); Shah, SH (Shah, Sajid Hussain); Khan, GS (Khan, Gul Shahzada); Shahzad, SA (Shahzad, Sohail Anjum)

**Source:** JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY **Volume:** 435 **Article Number:** 114318 **DOI:** 10.1016/j.jphotochem.2022.114318 **Early Access Date:** OCT 2022 **Published:** FEB 1 2023

---

### Record 285 of 1000

**Title:** A dual-mode electrochemical aptasensor for the detection of Mucin-1 based on AuNPs-magnetic graphene composite

**Author(s):** Al Fatease, A (Al Fatease, Adel); Guo, WJ (Guo, Wenjuan); Umar, A (Umar, Ahmad); Zhao, CX (Zhao, Chengxian); Alhamhoom, Y (Alhamhoom, Yahya); Bin Muhsinah, A (Bin Muhsinah, Abdullatif); Mahnashi, MH (Mahnashi, Mater H.); Ansari, ZA (Ansari, Zubaida A.)

**Source:** MICROCHEMICAL JOURNAL **Volume:** 180 **Article Number:** 107559 **DOI:** 10.1016/j.microc.2022.107559 **Early Access Date:** MAY 2022 **Published:** SEP 2022

---

### Record 286 of 1000

**Title:** A DFT approach for finding therapeutic potential of two dimensional (2D) graphitic carbon nitride (GCN) as a drug delivery carrier for curcumin to treat cardiovascular diseases

**Author(s):** Ilyas, M (Ilyas, Mubashar); Ayu, AR (Ayu, Ali Raza); Shehzad, RA (Shehzad, Rao Aqil); Khan, MA (Khan, Maroof Ahmad); Perveen, M (Perveen, Mehvish); Amin, S (Amin, Saniyah); Muhammad, S (Muhammad, Shabbir); Iqbal, J (Iqbal, Javed)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1257 **Article Number:** 132547 **DOI:** 10.1016/j.molstruc.2022.132547 **Early Access Date:** FEB 2022 **Published:** JUN 5 2022

---

### Record 287 of 1000

**Title:** Association of Smoking with the Blood Concentration of 25-Hydroxy Vitamin D and Testosterone at High and Low Altitudes

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

**Source:** INTERNATIONAL JOURNAL OF GENERAL MEDICINE **Volume:** 15 **Pages:** 1213-1223 **DOI:** 10.2147/IJGM.S344904 **Published:** 2022

---

### Record 288 of 1000

**Title:** ULTRASOUND ASSISTED ONE POT, THREE-COMPONENT REACTION FOR FACILE DESIGN OF NOVEL 1,2,3-DIAZAPHOSPHOLE, 1,5,2-DIAZAPHOSPHININE AND 1,5,2-DIAZAPHOSPHEPINE COMPOUNDS CONTAINING COUMARIN RING

**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:** 104 **Issue:** 7 **Pages:** 1259-1267 **DOI:** 10.3987/COM-22-14666 **Published:** MAR 28 2022

---

### Record 289 of 1000

**Title:** Biodegradable acid based nanocomposite-CuO-ZnO-Ni(OH)<sub>2</sub>/PA: A novel material for water cleansing

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

**Source:** JOURNAL OF CLEANER PRODUCTION **Volume:** 341 **Article Number:** 130860 **DOI:** 10.1016/j.jclepro.2022.130860 **Early Access Date:** FEB 2022 **Published:** MAR 20 2022

---

### Record 290 of 1000

**Title:** Removing the Oxamyl from Aqueous Solution by a Green Synthesized HTiO<sub>2</sub>@AC/SiO<sub>2</sub> Nanocomposite: Combined Effects of Adsorption and Photocatalysis



**Author(s):** El Shahawy, A (El Shahawy, Abeer); Ragab, AH (Ragab, Ahmed H.); Mubarak, MF (Mubarak, Mahmoud F.); Ahmed, IA (Ahmed, Inas A.); Mousa, AE (Mousa, Abdullah E.); Bader, DMD (Bader, Dina M. D.)

**Source:** CATALYSTS **Volume:** 12 **Issue:** 2 **Article Number:** 163 **DOI:** 10.3390/catal12020163 **Published:** FEB 2022

---

#### Record 291 of 1000

**Title:** Synthesis, Characterization and Optical Properties of Oxidized Poly Vinyl Alcohol

**Author(s):** Charradi, K (Charradi, Khaled); Daoudi, M (Daoudi, Mahmoud); Chemek, M (Chemek, Mourad); Ahmed, Z (Ahmed, Zakarya); Alzahrani, AYA (Alzahrani, Abdullah Y. A.); Siai, A (Siai, Amira); Chtourou, R (Chtourou, Radhouane); Keshk, SMAS (Keshk, Sherif M. A. S.)

**Source:** CHEMISTRYSELECT **Volume:** 7 **Issue:** 3 **Article Number:** e202103273 **DOI:** 10.1002/slct.202103273 **Published:** JAN 21 2022

---

#### Record 292 of 1000

**Title:** Heat and Mass Transfer of the Darcy-Forchheimer Casson Hybrid Nanofluid Flow due to an Extending Curved Surface

**Author(s):** Gohar (Gohar); Khan, TS (Khan, Tahir Saeed); Sene, N (Sene, Ndolane); Mouldi, A (Mouldi, Abir); Brahmia, A (Brahmia, Ameni)

**Source:** JOURNAL OF NANOMATERIALS **Volume:** 2022 **Article Number:** 3979168 **DOI:** 10.1155/2022/3979168 **Published:** JAN 18 2022

---

#### Record 293 of 1000

**Title:** Raman Scattering and Exciton Photoluminescence in Few-Layer GaSe: Thickness- and Temperature-Dependent Behaviors

**Author(s):** Usman, M (Usman, Muhammad); Golovynskyi, S (Golovynskyi, Sergii); Dong, D (Dong, Dan); Lin, Y (Lin, Yan); Yue, ZY (Yue, Zhongyu); Imran, M (Imran, Muhammad); Li, BK (Li, Baikui); Wu, HL (Wu, Honglei); Wang, L (Wang, Liang)

**Source:** JOURNAL OF PHYSICAL CHEMISTRY C **Volume:** 126 **Issue:** 25 **Pages:** 10459-10468 **DOI:** 10.1021/acs.jpcc.2c02127 **Early Access Date:** JUN 2022 **Published:** JUN 30 2022

---

#### Record 294 of 1000

**Title:** Facile Green One-Pot Synthesis and Antiproliferative Activity of Some Novel Functionalized 4-(4-Oxo-4*H*-chromen-3-yl)-pyrano[2,3-*c*]pyrazoles and 5-(4-Oxo-4*H*-chromen-3-yl)-pyrano[2,3-*d*]pyrimidines

**Author(s):** Ali, TE (Ali, T. E.); Assiri, MA (Assiri, M. A.); Shati, AA (Shati, A. A.); Alfaifi, MY (Alfaifi, M. Y.); Elbehairi, SEI (Elbehairi, S. E., I)

**Source:** RUSSIAN JOURNAL OF ORGANIC CHEMISTRY **Volume:** 58 **Issue:** 1 **Pages:** 106-113 **DOI:** 10.1134/S1070428022010158 **Published:** JAN 2022

---

#### Record 295 of 1000

**Title:** The study of intermolecular interactions in [Bmim][PF<sub>6</sub>] symbolscript 1-octyl-2-pyrrolidone binary mixtures from volumetric, acoustic, optical and spectroscopic measurements

**Author(s):** Prathipati, S (Prathipati, Sowjanya); Rao, VS (Rao, V. Srinivasa); Munnangi, SR (Munnangi, Srinivasa Reddy); Gopiseti, RS (Gopiseti, R. Satyanarayana); Alam, MM (Alam, Mohammed Mujahid); Bollikolla, HB (Bollikolla, Hari Babu)

**Source:** JOURNAL OF CHEMICAL THERMODYNAMICS **Volume:** 179 **Article Number:** 106952 **DOI:** 10.1016/j.jct.2022.106952 **Early Access Date:** DEC 2022 **Published:** APR 2023

---

#### Record 296 of 1000

**Title:** Schiff base coordination compounds including thiosemicarbazide derivative and 4-benzoyl-1,3-diphenyl-5-pyrazolone: Synthesis, structural spectral characterization and biological activity

**Author(s):** Emam, SM (Emam, Sanaa M.); Bondock, S (Bondock, Samir); Aldaloo, AAM (Aldaloo, Ahmed A. M.)

**Source:** RESULTS IN CHEMISTRY **Volume:** 5 **Article Number:** 100725 **DOI:** 10.1016/j.rechem.2022.100725 **Early Access Date:** DEC 2022 **Published:** JAN 2023

---

#### Record 297 of 1000

**Title:** Environmentally compatible 3-dimensional star-shaped donor materials for efficient organic solar cells

**Author(s):** Hussain, R (Hussain, Riaz); Adnan, M (Adnan, Muhammad); Irshad, Z (Irshad, Zobia); Muhammad, S (Muhammad, Shabbir); Khan, MU (Khan, Muhammad Usman); Lim, J (Lim, Jongchul)

**Source:** INTERNATIONAL JOURNAL OF ENERGY RESEARCH **Volume:** 46 **Issue:** 15 **Pages:** 22145-22161 **DOI:** 10.1002/er.8617 **Early Access Date:** AUG 2022 **Published:** DEC 2022

---

#### **Record 298 of 1000**

**Title:** Efficient preparation of phosphazene chitosan derivatives and its applications for the adsorption of molybdenum from spent hydrodesulfurization catalyst

**Author(s):** Ibrahim, HA (Ibrahim, Hala A.); Atia, BM (Atia, Bahig M.); Awwad, NS (Awwad, Nasser S.); Nayl, AA (Nayl, A. A.); Radwan, HA (Radwan, Hend A.); Gado, MA (Gado, Mohamed A.)

**Source:** JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY **Volume:** 44 **Issue:** 11 **Pages:** 2103-2118 **DOI:** 10.1080/01932691.2022.2059508 **Early Access Date:** APR 2022 **Published:** SEP 1 2023

---

#### **Record 299 of 1000**

**Title:** Theoretical electron excitation study in liquid phase (protic, aprotic, non-polar) and inter and intra molecular reactivity of 2-hydroxy-5-[1-hydroxy-2-(4-phenylbutan-2-ylamino) ethyl] benzamide

**Author(s):** Chithra, S (Chithra, S.); Mani, G (Mani, G.); Kumar, M (Kumar, M.); Vetrivelan, V (Vetrivelan, V.); Muthu, S (Muthu, S.); Arulaabaranam, K (Arulaabaranam, K.); Jeelani, A (Jeelani, A.); Irfan, A (Irfan, Ahmad); Umamahesvari, H (Umamahesvari, H.)

**Source:** JOURNAL OF THE INDIAN CHEMICAL SOCIETY **Volume:** 99 **Issue:** 3 **Article Number:** 100372 **DOI:** 10.1016/j.jics.2022.100372 **Early Access Date:** FEB 2022 **Published:** MAR 2022

---

#### **Record 300 of 1000**

**Title:** Bioinformatics approach for the construction of multiple epitope vaccine against omicron variant of SARS-CoV-2

**Author(s):** Zaib, S (Zaib, Sumera); Akram, F (Akram, Fatima); Liaqat, ST (Liaqat, Syed Talha); Altaf, MZ (Altaf, Muhammad Zain); Khan, I (Khan, Imtiaz); Dera, AA (Dera, Ayed A.); Uddin, J (Uddin, Jalal); Khan, A (Khan, Ajmal); Al-Harrasi, A (Al-Harrasi, Ahmed)

**Source:** SCIENTIFIC REPORTS **Volume:** 12 **Issue:** 1 **Article Number:** 19087 **DOI:** 10.1038/s41598-022-23550-w **Published:** NOV 9 2022

---

#### **Record 301 of 1000**

**Title:** Virtual screening of potential inhibitor against breast cancer-causing estrogen receptor alpha (ER $\alpha$ ): molecular docking and dynamic simulations

**Author(s):** Muhammad, S (Muhammad, Shabbir); Saba, A (Saba, Afsheen); Khera, RA (Khera, Rasheed Ahmad); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Algarni, H (Algarni, H.); Iqbal, J (Iqbal, Javed); Alshahrani, MY (Alshahrani, Mohammad Y.); Chaudhry, AR (Chaudhry, Aijaz Rasool)

**Source:** MOLECULAR SIMULATION **Volume:** 48 **Issue:** 13 **Pages:** 1163-1174 **DOI:** 10.1080/08927022.2022.2072840 **Early Access Date:** MAY 2022 **Published:** SEP 2 2022

---

#### **Record 302 of 1000**

**Title:** Alloying effect of copper in AA-7075 aluminum composite using bale out furnace

**Author(s):** Akinribide, OJ (Akinribide, O. J.); Ogundare, OD (Ogundare, O. D.); Akinwamide, SO (Akinwamide, S. O.); Gamaoun, F (Gamaoun, Fehmi); Olubambi, PA (Olubambi, P. A.)

**Source:** JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T **Volume:** 18 **Pages:** 3849-3856 **DOI:** 10.1016/j.jmrt.2022.04.054 **Early Access Date:** APR 2022 **Published:** MAY-JUN 2022

---

#### **Record 303 of 1000**

**Title:** Comprehensive Review on Zeolite-Based Nanocomposites for Treatment of Effluents from Wastewater

**Author(s):** Sodha, V (Sodha, Veena); Shahabuddin, S (Shahabuddin, Syed); Gaur, R (Gaur, Rama); Ahmad, I (Ahmad, Irfan); Bandyopadhyay, R (Bandyopadhyay, Rajib); Sridewi, N (Sridewi, Nanthini)

**Source:** NANOMATERIALS **Volume:** 12 **Issue:** 18 **Article Number:** 3199 **DOI:** 10.3390/nano12183199 **Published:** SEP 2022

---

#### **Record 304 of 1000**

**Title:** Kinetic and Isothermal Investigations on the Use of Low Cost Coconut Fiber-Polyaniline Composites for the Removal of Chromium from Wastewater

**Author(s):** Jha, S (Jha, Stuti); Gaur, R (Gaur, Rama); Shahabuddin, S (Shahabuddin, Syed); Ahmad, I (Ahmad, Irfan); Sridewi, N (Sridewi, Nanthini)

**Source:** POLYMERS **Volume:** 14 **Issue:** 20 **Article Number:** 4264 **DOI:** 10.3390/polym14204264 **Published:** OCT 2022

---

#### Record 305 of 1000

**Title:** Molecular Structure, Spectroscopic Assessment, PDOS, Topology Evaluation and Docking Studies of 2-Chloro-5-nitrobenzophenone

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

**Source:** ANALYTICAL CHEMISTRY LETTERS **Volume:** 12 **Issue:** 2 **Pages:** 198-220 **DOI:** 10.1080/22297928.2021.1976275 **Published:** MAR 4 2022

---

#### Record 306 of 1000

**Title:** Development of novel indolin-2-one derivative incorporating thiazole moiety as DHFR and quorum sensing inhibitors: Synthesis, antimicrobial, and antibiofilm activities with molecular modelling study

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

**Source:** BIOORGANIC CHEMISTRY **Volume:** 119 **Article Number:** 105571 **DOI:** 10.1016/j.bioorg.2021.105571 **Published:** FEB 2022

---

#### Record 307 of 1000

**Title:** New  $3d$  multifunctional metal chelates of sulfonamide: Spectral, vibrational, molecular modeling, DFT, medicinal and *in silico* studies

**Author(s):** Ul Hassan, A (Ul Hassan, Abrar); Sumrra, SH (Sumrra, Sajjad Hussain); Imran, M (Imran, Muhammad); Chohan, ZH (Chohan, Zahid Hussain)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1254 **Article Number:** 132305 **DOI:** 10.1016/j.molstruc.2021.132305 **Early Access Date:** JAN 2022 **Published:** APR 15 2022

---

#### Record 308 of 1000

**Title:** Chemical Composition, Antimicrobial and Anti-inflammatory Activities of Essential Oil from *Cymbopogon proximus*: *In vitro*, and *In vivo* Studies

**Author(s):** Moglad, EH (Moglad, Ehssan H.); Abdellah, RAO (Abdellah, Reem A. O.); Alfadhel, M (Alfadhel, Munerah); Salkini, MA (Salkini, Mohamad Ayman); Kamal, M (Kamal, Mehnaz); Hassan, MZ (Hassan, Mohd Zaheen); Yusufoglu, HS (Yusufoglu, Hasan Soliman)

**Source:** LATIN AMERICAN JOURNAL OF PHARMACY **Volume:** 41 **Issue:** 3 **Pages:** 597-602 **Published:** 2022

---

#### Record 309 of 1000

**Title:** The influence of lanthanum concentration on microstructural and electrical properties of Mg-Cd-Bi ferrite nanoparticles

**Author(s):** Jacob, J (Jacob, Jolly); Javaid, K (Javaid, Kashif); Amin, N (Amin, Nasir); Ali, A (Ali, Adnan); Mahmood, K (Mahmood, Khalid); Ikram, S (Ikram, Salma); Arshad, MI (Arshad, Muhammad Imran); Munir, A (Munir, Asad); Amami, M (Amami, Mongi)

**Source:** CERAMICS INTERNATIONAL **Volume:** 49 **Issue:** 2 **Pages:** 1896-1901 **DOI:** 10.1016/j.ceramint.2022.09.154 **Early Access Date:** DEC 2022 **Published:** JAN 15 2023

---

#### Record 310 of 1000

**Title:** Physicochemical properties of doping Nickel -Cobalt oxides catalysts supported on SiO<sub>2</sub> and its catalytic activity

**Author(s):** Fahmy, YM (Fahmy, Y. M.); Rashid, MM (Rashid, Md Mamoon); Ismail, M (Ismail, Mohmed)

**Source:** INDIAN JOURNAL OF CHEMICAL TECHNOLOGY **Volume:** 29 **Issue:** 4 **Pages:** 436-441 **Published:** JUL 2022

---

#### Record 311 of 1000

**Title:** The structural and dilute magnetic properties of (Co, Li) co-doped-ZnO semiconductor nanoparticles

**Author(s):** Khan, R (Khan, Rajwali); Khan, MI (Khan, Mohammed Ilyas); Almesfer, MK (Almesfer, Mohammed Khaloufa); Elkhaleefa, A (Elkhaleefa, Abubakr); Ali, IH (Ali, Ismat Hassan); Ullah, A (Ullah, Asad); Rahman, N (Rahman, Nasir); Sohail, M (Sohail, Mohammad); Khan, AA (Khan, Abid Ali); Khan, A (Khan, Aurangzeb)

### Record 312 of 1000

**Title:** Insighting isatin derivatives as potential antiviral agents against NSP3 of COVID-19

**Author(s):** Ilyas, M (Ilyas, Mubashar); Muhammad, S (Muhammad, Shabbir); Iqbal, J (Iqbal, Javed); Amin, S (Amin, Saniyah); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Algarni, H (Algarni, H.); Alarfaji, SS (Alarfaji, Saleh S.); Alshahrani, MY (Alshahrani, Mohammad Y.); Ayub, K (Ayub, Khurshid)

**Source:** CHEMICAL PAPERS Volume: 76 Issue: 10 Pages: 6271-6285 DOI: 10.1007/s11696-022-02298-7 Early Access Date: JUN 2022 Published: OCT 2022

---

### Record 313 of 1000

**Title:** Design, Synthesis, Spectroscopic Characterization, Molecular Docking and Biological Evaluation of 9H-Carbazole Linked 4-Nitrophenol: A DFT Approach

**Author(s):** Ragavan, JI (Ragavan, Joseph Iruthayaraj); Anbarasan, PM (Anbarasan, Ponnusamy M.); Arunkumar, A (Arunkumar, Ammasi); Ibrahim, A (Ibrahim, A.)

**Source:** JOURNAL OF COMPUTATIONAL BIOPHYSICS AND CHEMISTRY Volume: 21 Issue: 08 Pages: 909-926 DOI: 10.1142/S2737416522500259 Early Access Date: JUN 2022 Published: DEC 2022

---

### Record 314 of 1000

**Title:** Facile synthesis and adsorption characteristics of a hybrid composite based on ethyl acetoacetate modified chitosan/calcium alginate/TiO<sub>2</sub> for efficient recovery of Ni(II) from aqueous solution

**Author(s):** Nawaz, I (Nawaz, Imran); 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); Irfan, A (Irfan, Ahmad); Liu, ZR (Liu, Zhirong); Zhou, LM (Zhou, Limin); Ouyang, JB (Ouyang, Jinbo)

**Source:** ZEITSCHRIFT FUR PHYSIKALISCHE CHEMIE-INTERNATIONAL JOURNAL OF RESEARCH IN PHYSICAL CHEMISTRY & CHEMICAL PHYSICS Volume: 236 Issue: 5 Pages: 595-618 DOI: 10.1515/zpch-2021-3168 Early Access Date: MAR 2022 Published: MAY 25 2022

---

### Record 315 of 1000

**Title:** Zinc Oxide Nanoparticles and Fe-Modified Activated Carbon Affecting the In Vitro Growth of Date Palm Plantlets cv. Medjool

**Author(s):** Abdellatif, YMR (Abdellatif, Yasmin M. R.); Elsayed, MS (Elsayed, Maha S.); Hassan, MM (Hassan, Mona M.); Ahmed, IA (Ahmed, Inas A.); Ragab, AH (Ragab, Ahmed H.); El-Din, IS (El-Din, Ibrahim Shams M.); Abdelaal, WB (Abdelaal, Walid B.); El-Aal, MSA (El-Aal, Mona S. Abd); El Din, AFMZ (El Din, Amal F. M. Zein)

**Source:** HORTICULTURAE Volume: 8 Issue: 12 Article Number: 1179 DOI: 10.3390/horticulturae8121179 Published: DEC 2022

---

### Record 316 of 1000

**Title:** Hydrogel-Based Adsorbent Material for the Effective Removal of Heavy Metals from Wastewater: A Comprehensive Review

**Author(s):** Darban, Z (Darban, Zenab); Shahabuddin, S (Shahabuddin, Syed); Gaur, R (Gaur, Rama); Ahmad, I (Ahmad, Irfan); Sridewi, N (Sridewi, Nanthini)

**Source:** GELS Volume: 8 Issue: 5 Article Number: 263 DOI: 10.3390/gels8050263 Published: MAY 2022

---

### Record 317 of 1000

**Title:** Influences of Marangoni convection and variable magnetic field on hybrid nanofluid thin-film flow past a stretching surface

**Author(s):** Khan, NW (Khan, Noor Wali); Khan, A (Khan, Arshad); Usman, M (Usman, Muhammad); Gul, T (Gul, Taza); Mouldi, A (Mouldi, Abir); Brahmia, A (Brahmia, Ameni)

**Source:** CHINESE PHYSICS B Volume: 31 Issue: 6 Article Number: 064403 DOI: 10.1088/1674-1056/ac3a5d Published: MAY 1 2022

---

### Record 318 of 1000

**Title:** An Electrochemical Investigation of Methanol Oxidation on Thin Films of Nickel Oxide and Its Composites with Zirconium and Yttrium Oxides

**Author(s):** Mahmood, K (Mahmood, Karishma); Mansoor, MA (Mansoor, Muhammad Adil); Iqbal, M (Iqbal, Mudassir); Kalam, A (Kalam, Abul); Iqbal, J (Iqbal, Javed); Jilani, A (Jilani, Asim); Wageh, S (Wageh, S.)

**Record 319 of 1000**

**Title:** Current Utility of Arbuscular Mycorrhizal Fungi and Hydroxyapatite Nanoparticles in Suppression of Tomato Root-Knot Nematode

**Author(s):** Alamri, S (Alamri, Saad); Nafady, NA (Nafady, Nivien A.); El-Sagheer, AM (El-Sagheer, Atef M.); Abd El-Aal, M (Abd El-Aal, Mohamed); Mostafa, YS (Mostafa, Yasser S.); Hashem, M (Hashem, Mohamed); Hassan, EA (Hassan, Elhagag A.)

**Source:** AGRONOMY-BASEL Volume: 12 Issue: 3 Article Number: 671 DOI: 10.3390/agronomy12030671 Published: MAR 2022

---

**Record 320 of 1000**

**Title:** Assessing risk to human health for potentially toxic elements in farmed and wild giant tiger prawn (*Paeneas monodon*) in the coastal area of Bangladesh

**Author(s):** Islam, MS (Islam, Md Saiful); Phoungthong, K (Phoungthong, Khampho); Ali, MM (Ali, Mir Mohammad); Ibrahim, KA (Ibrahim, Khalid A.); Idris, AM (Idris, Abubakr M.)

**Source:** INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY DOI: 10.1080/03067319.2022.2106136 Early Access Date: JUL 2022

---

**Record 321 of 1000**

**Title:** Different metal-decorated aluminum phosphide nanotubes as hydrazine sensors for biomedical applications

**Author(s):** El Askary, A (El Askary, Ahmad); Elesawy, BH (Elesawy, Basem H.); Awwad, NS (Awwad, Nasser S.); Ibrahim, HA (Ibrahim, Hala A.); Shkir, M (Shkir, Mohd)

**Source:** JOURNAL OF MOLECULAR MODELING Volume: 28 Issue: 5 Article Number: 112 DOI: 10.1007/s00894-022-05102-1 Published: MAY 2022

---

**Record 322 of 1000**

**Title:** Current understandings and perspectives of petroleum hydrocarbons in Alzheimer's disease and Parkinson's disease: a global concern

**Author(s):** Rajendran, R (Rajendran, Rajalakshmi); Ragavan, RP (Ragavan, Roshni Pushpa); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Uddin, MS (Uddin, Md. Sahab); Aleya, L (Aleya, Lotfi); Mathew, B (Mathew, Bijo)

**Source:** ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH Volume: 29 Issue: 8 Pages: 10928-10949 DOI: 10.1007/s11356-021-17931-3 Early Access Date: JAN 2022 Published: FEB 2022

---

**Record 323 of 1000**

**Title:** Synthesis of Alkyne-Substituted Dihydropyrrones as Bacterial Quorum-Sensing Inhibitors of *Pseudomonas aeruginosa*

**Author(s):** Almohaywi, B (Almohaywi, Basmah); Yu, TT (Yu, Tsz Tin); Iskander, G (Iskander, George); Sabir, S (Sabir, Shekh); Bhadbhade, M (Bhadbhade, Mohan); Black, DS (Black, David StC.); Kumar, N (Kumar, Naresh)

**Source:** ANTIBIOTICS-BASEL Volume: 11 Issue: 2 Article Number: 151 DOI: 10.3390/antibiotics11020151 Published: FEB 2022

---

**Record 324 of 1000**

**Title:** An insight into the photophysical and nonlinear optical properties of novel 1,3,4-oxadizole based donor-acceptor systems

**Author(s):** Remya, TM (Remya, T. M.); Shiju, E (Shiju, E.); Ajayakumar, A (Ajayakumar, Aswathy); Shandev, PP (Shandev, P. P.); Pannipara, M (Pannipara, Mehboobali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Chandrasekharan, K (Chandrasekharan, K.); Unnikrishnan, PA (Unnikrishnan, P. A.)

**Source:** JOURNAL OF MOLECULAR LIQUIDS Volume: 348 Article Number: 118456 DOI: 10.1016/j.molliq.2021.118456 Early Access Date: JAN 2022 Published: FEB 15 2022

---

**Record 325 of 1000**

**Title:** Design and *in silico* investigation of novel Maraviroc analogues as dual inhibition of CCR-5/SARS-CoV-2 Mpro

**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)

**Record 326 of 1000**

**Title:** The effects of coastal development on the urban heat island in the mangrove ecosystem along the Jazan coast, KSA

**Author(s):** Abd El-Hamid, HT (Abd El-Hamid, Hazem T. T.); Arshad, M (Arshad, Muhammad); Eid, EM (Eid, Ebrahim M. M.)

**Source:** JOURNAL OF COASTAL CONSERVATION **Volume:** 26 **Issue:** 6 **Article Number:** 70 **DOI:** 10.1007/s11852-022-00915-x **Published:** DEC 2022

---

**Record 327 of 1000**

**Title:** Boosting hydrogen gas production and mitigation of fluorescein dye on the surface of S-scheme g-C<sub>3</sub>N<sub>4</sub>/SnO<sub>2</sub> heterojunction

**Author(s):** Abd-Rabboh, HSM (Abd-Rabboh, Hisham S. M.); Galal, AH (Galal, A. H.); Basely, AM (Basely, Abanoob M.); Helmy, FM (Helmy, Fatma M.); Ahmed, MA (Ahmed, M. A.)

**Source:** DESALINATION AND WATER TREATMENT **Volume:** 268 **Pages:** 113-125 **DOI:** 10.5004/dwt.2022.28670 **Published:** AUG 2022

---

**Record 328 of 1000**

**Title:** Mucilage of *Coccinia grandis* as an Efficient Natural Polymer-Based Pharmaceutical Excipient

**Author(s):** Ilango, KB (Ilango, Kumbakonam Balachandran); Gowthaman, S (Gowthaman, Senguttuvan); Seramaan, KI (Seramaan, Kumbakonam Ilango); Chidambaram, K (Chidambaram, Kumarappan); Bayan, MF (Bayan, Mohammad F.); Rahamathulla, M (Rahamathulla, Mohamed); Balakumar, C (Balakumar, Chandrasekaran)

**Source:** POLYMERS **Volume:** 14 **Issue:** 1 **Article Number:** 215 **DOI:** 10.3390/polym14010215 **Published:** JAN 2022

---

**Record 329 of 1000**

**Title:** Emerging trends in van der Waals 2D TMD heterojunction bipolar transistors

**Author(s):** Aftab, S (Aftab, Sikandar); Hegazy, HH (Hegazy, Hosameldin Helmy); Iqbal, MZ (Iqbal, Muhammad Zahir); Rim, YS (Rim, You Seoung)

**Source:** JOURNAL OF MATERIALS CHEMISTRY C **Volume:** 11 **Issue:** 5 **Pages:** 1648-1667 **DOI:** 10.1039/d2tc04108a **Early Access Date:** DEC 2022 **Published:** FEB 2 2023

---

**Record 330 of 1000**

**Title:** Synthetic Methodologies and Energy Storage/Conversion Applications of Porous Carbon Nanosheets: A Systematic Review

**Author(s):** Khan, S (Khan, Shaukat); Ul-Islam, M (Ul-Islam, Mazhar); Ahmad, MW (Ahmad, Mohammed Wasi); Khan, MS (Khan, Muhammad Shariq); Imran, M (Imran, Muhammad); Siyal, SH (Siyal, Sajid Hussain); Javed, MS (Javed, Muhammad Sufyan)

**Source:** ENERGY & FUELS **Volume:** 36 **Issue:** 7 **Pages:** 3420-3442 **DOI:** 10.1021/acs.energyfuels.2c00077 **Published:** APR 7 2022

---

**Record 331 of 1000**

**Title:** RETRACTED: Optimization of Sorting Robot Control System Based on Deep Learning and Machine Vision (Retracted Article)

**Author(s):** Feng, CY (Feng, Changyong); Nie, GH (Nie, Guanghua); Naveed, QN (Naveed, Quadri Noorulhasan); Potrich, E (Potrich, Erich); Sankaran, KS (Sankaran, K. Sakthidasan); Kaur, A (Kaur, Arshpreet); Sammy, F (Sammy, F.)

**Source:** MATHEMATICAL PROBLEMS IN ENGINEERING **Volume:** 2022 **Article Number:** 5458703 **DOI:** 10.1155/2022/5458703 **Published:** MAR 28 2022

---

**Record 332 of 1000**

**Title:** Effective adsorption of doxorubicin hydrochloride on zirconium metal-organic framework: Equilibrium, kinetic and thermodynamic studies

**Author(s):** AlHazmi, GAAS (AlHazmi, Gamil A. A. S.); AbouMelha, KG (AbouMelha, Khlood G.); El-Desouky, MA (El-Desouky, Mohamed A.); El-Bindary, A (El-Bindary, Ashraf)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1258 **Article Number:** 132679 **DOI:** 10.1016/j.molstruc.2022.132679 **Early Access Date:** FEB 2022 **Published:** JUN 15 2022

---

### Record 333 of 1000

**Title:** Theoretical and experimental insights about the adsorption of uranyl ion on a new designed Vermiculite-Polymer composite

**Author(s):** Simsek, S (Simsek, Selcuk); Kaya, S (Kaya, Savas); Katin, KP (Katin, K. P.); Ozer, A (Ozer, Ali); Altunay, N (Altunay, Nail); Brahmia, A (Brahmia, Ameni); Senol, ZM (Senol, Zeynep Mine); Ulusoy, HI (Ulusoy, Halil Ibrahim)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 352 **Article Number:** 118727 **DOI:** 10.1016/j.molliq.2022.118727 **Early Access Date:** FEB 2022 **Published:** APR 15 2022

---

### Record 334 of 1000

**Title:** Quasi-electrostatic instability in non-gyrotropic tri-ion electron plasma

**Author(s):** Arshad, K (Arshad, Kashif); Poedts, S (Poedts, Stefaan); Dahshan, A (Dahshan, Alaa)

**Source:** AIP ADVANCES **Volume:** 12 **Issue:** 10 **Article Number:** 105319 **DOI:** 10.1063/5.0014682 **Published:** OCT 1 2022

---

### Record 335 of 1000

**Title:** Thermal behaviour and optical properties of a new dimeric 1D mixed halide hybrid material [CuBrCl(C<sub>2</sub>H<sub>8</sub>N<sub>2</sub>)]

**Author(s):** Derbel, MA (Derbel, Marwa Abid); Nasr, S (Nasr, Samia); Naili, H (Naili, Houcine); Rekik, W (Rekik, Walid)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 142 **Article Number:** 109654 **DOI:** 10.1016/j.inoche.2022.109654 **Published:** AUG 2022

---

### Record 336 of 1000

**Title:** Insighting the functionally modified C<sub>60</sub> fullerenes as an efficient nonlinear optical materials: A quantum chemical study

**Author(s):** Muhammad, S (Muhammad, Shabbir); urRehman, S (urRehman, Shafiq); Sarwar, F (Sarwar, Fatima); Bibi, S (Bibi, Shamsa); Nadeem, R (Nadeem, Raziya); Mushtaq, MW (Mushtaq, Muhammad Waheed); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Alarfaji, SS (Alarfaji, Saleh S.); Hussain, S (Hussain, Sajjad)

**Source:** MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING **Volume:** 141 **Article Number:** 106421 **DOI:** 10.1016/j.mssp.2021.106421 **Published:** APR 2022

---

### Record 337 of 1000

**Title:** Coated, packed and combined wire finned tube adsorption cooling and desalination system using metal-organic framework: Numerical study

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

**Source:** ENERGY **Volume:** 247 **Article Number:** 123506 **DOI:** 10.1016/j.energy.2022.123506 **Early Access Date:** FEB 2022 **Published:** MAY 15 2022

---

### Record 338 of 1000

**Title:** Theoretical structural analysis (FT-IR, FT-R), solvent effect on electronic parameters NLO, FMO, NBO, MEP, UV (IEFPCM model), Fukui function evaluation with pharmacological analysis on methyl nicotinate

**Author(s):** Vennila, M (Vennila, M.); Rathikha, R (Rathikha, R.); Muthu, S (Muthu, S.); Jeelani, A (Jeelani, A.); Irfan, A (Irfan, Ahmad)

**Source:** COMPUTATIONAL AND THEORETICAL CHEMISTRY **Volume:** 1217 **Article Number:** 113890 **DOI:** 10.1016/j.comptc.2022.113890 **Early Access Date:** OCT 2022 **Published:** NOV 2022

---

### Record 339 of 1000

**Title:** Numerical and experimental investigation of desiccant cooling system using metal organic framework materials

**Author(s):** Aziz, AN (Aziz, Andrew N.); Mahmoud, S (Mahmoud, Saad); Al-Dadah, R (Al-Dadah, Raya); Ismail, MA (Ismail, Mohamed A.); Mesfer, MKA (Mesfer, Mohammed K. Al)

**Source:** APPLIED THERMAL ENGINEERING **Volume:** 215 **Article Number:** 118940 **DOI:** 10.1016/j.applthermaleng.2022.118940 **Early Access Date:** JUL 2022 **Published:** OCT 2022

---

**Record 340 of 1000**

**Title:** Computational analysis of carbazole-based newly efficient D- $\pi$ -A organic spacer dye derivatives for dye-sensitized solar cells

**Author(s):** Munusamy, AP (Munusamy, Anbarasan Ponnusamy); Ammasi, A (Ammas, Arunkumar); Shkir, M (Shkir, Mohd)

**Source:** STRUCTURAL CHEMISTRY **Volume:** 33 **Issue:** 4 **Pages:** 1097-1107 **DOI:** 10.1007/s11224-021-01853-4 **Early Access Date:** MAR 2022 **Published:** AUG 2022

---

**Record 341 of 1000**

**Title:** Room-Temperature Toluene Decomposition by Catalytic Non-Thermal Plasma Reactor

**Author(s):** Bhargavi, KVSS (Bhargavi, K. V. S. S.); Ray, D (Ray, Debjyoti); Chawdhury, P (Chawdhury, Piu); Selvaraj, M (Selvaraj, Manickam); Shashidhar, T (Shashidhar, T.); Subrahmanyam, C (Subrahmanyam, Ch.)

**Source:** IEEE TRANSACTIONS ON PLASMA SCIENCE **Volume:** 50 **Issue:** 6 **Pages:** 1416-1422 **DOI:** 10.1109/TPS.2022.3153667 **Early Access Date:** MAR 2022 **Published:** JUN 2022

---

**Record 342 of 1000**

**Title:** Computational Investigation of Near-Infrared-Absorbing Indeno[1,2-b]indole Analogues as Acceptors in Organic Photovoltaic Devices

**Author(s):** Alarfaji, SS (Alarfaji, Saleh S.); Hussain, R (Hussain, Riaz); Fatima, D (Fatima, Doua); Ali, B (Ali, Bakhat); Sattar, A (Sattar, Abdul); Ayub, K (Ayub, Khurshid)

**Source:** ACS OMEGA **Volume:** 8 **Issue:** 1 **Pages:** 1430-1442 **DOI:** 10.1021/acsomega.2c06878 **Early Access Date:** DEC 2022 **Published:** JAN 10 2023

---

**Record 343 of 1000**

**Title:** Novel Polyelectrolyte Complex Membranes Containing Carboxymethyl Cellulose-Gelatin for Pervaporation Dehydration of Azeotropic Bioethanol for Biofuel

**Author(s):** Kalahal, PB (Kalahal, Prakash B.); Sajjan, AM (Sajjan, Ashok M.); Khan, TMY (Yunus Khan, T. M.); Rajhi, AA (Rajhi, Ali A.); Achappa, S (Achappa, Sharanappa); Banapurmath, NR (Banapurmath, Nagaraj R.); Ashwini, M (Ashwini, M.); Duhduh, AA (Duhduh, Alaauldeen A.)

**Source:** POLYMERS **Volume:** 14 **Issue:** 23 **Article Number:** 5114 **DOI:** 10.3390/polym14235114 **Published:** DEC 2022

---

**Record 344 of 1000**

**Title:** Molecularly Imprinted Polymer Modified with an MWCNT Nanocomposite for the Fabrication of a Barbitol Solid-Contact Ion- Selective Electrode

**Author(s):** Al Shagri, LMS (Al Shagri, Layla M. S.); Abd-Rabboh, HSM (Abd-Rabboh, Hisham S. M.); Bajaber, MA (Bajaber, Majed A.); Kamel, AH (Kamel, Ayman H.)

**Source:** ACS OMEGA **DOI:** 10.1021/acsomega.2c02250 **Early Access Date:** SEP 2022

---

**Record 345 of 1000**

**Title:** Remarkable Recycling Process of ZnO Quantum Dots for Photodegradation of Reactive Yellow Dye and Solar Photocatalytic Treatment Process of Industrial Wastewater

**Author(s):** Mohamed, W (Mohamed, Walied); Abd El-Gawad, H (Abd El-Gawad, Hala); Handal, H (Handal, Hala); Galal, H (Galal, Hoda); Mousa, H (Mousa, Hanan); El-Sayed, B (El-Sayed, Badr); Mekkey, S (Mekkey, Saleh); Ibrahim, I (Ibrahim, Ibrahim); Labib, A (Labib, Ammar)

**Source:** NANOMATERIALS **Volume:** 12 **Issue:** 15 **Article Number:** 2642 **DOI:** 10.3390/nano12152642 **Published:** AUG 2022

---

**Record 346 of 1000**

**Title:** Tribological Characteristics of Al<sub>3</sub>Si<sub>3</sub>N<sub>4</sub>/Eggshell Surface Composite Produced by Friction Stir Processing

**Author(s):** Srivastava, AK (Srivastava, Ashish Kumar); Dwivedi, S (Dwivedi, Suryank); Saxena, A (Saxena, Ambuj); Kumar, D (Kumar, Deepak); Dixit, AR (Dixit, Amit Rai); Singh, GK (Singh, Gyanendra Kumar); Bhutto, JK (Bhutto, Javed Khan); Verma, R (Verma, Rajesh)

**Source:** COATINGS **Volume:** 12 **Issue:** 9 **Article Number:** 1362 **DOI:** 10.3390/coatings12091362 **Published:** SEP 2022

---

**Record 347 of 1000**



**Title:** Efficient Synthesis of 4-Bromo-N-(1-phenylethyl)benzamide, Arylation by Pd(0) Catalyst, Characterization and DFT Study

**Author(s):** Shah, AR (Shah, Ali Raza); Rasool, N (Rasool, Nasir); Bilal, M (Bilal, Muhammad); Mubarik, A (Mubarik, Adeel); Hashm, MA (Hashm, Muhammad Ali); Akhtar, MN (Akhtar, Muhammad Nadeem); Imran, M (Imran, Muhammad); Ahmad, G (Ahmad, Gulraiz); Siddiqa, A (Siddiqa, Ayesha); Shah, SAA (Shah, Syed Adnan Ali)

**Source:** CHEMISTRYSELECT **Volume:** 7 **Issue:** 29 **Article Number:** e202200861 **DOI:** 10.1002/slct.202200861 **Published:** AUG 5 2022

---

#### Record 348 of 1000

**Title:** Exploration of Dihydrothieno[2,3-c] Isoquinolines As Luminescent Materials and Corrosion Inhibitors

**Author(s):** Marae, IS (Marae, Islam S.); Mahross, MH (Mahross, Mahmoud H.); Al-Farhan, BS (Al-Farhan, Badriah S.); Abdel-Hakim, M (Abdel-Hakim, Mohamed); Bakhite, EA (Bakhite, Etfy A.); Sayed, MM (Sayed, Marwa M.)

**Source:** ACS OMEGA **DOI:** 10.1021/acsomega.2c03361 **Early Access Date:** OCT 2022

---

#### Record 349 of 1000

**Title:** D-Carvone Attenuates CCl<sub>4</sub>-Induced Liver Fibrosis in Rats by Inhibiting Oxidative Stress and TGF- $\beta$ 1/SMAD3 Signaling Pathway

**Author(s):** Ogaly, HA (Ogaly, Hanan A.); Aldulmani, SAA (Aldulmani, Sharah A. A.); Al-Zahrani, FAM (Al-Zahrani, Fatimah A. M.); Abd-Elsalam, RM (Abd-Elsalam, Reham M.)

**Source:** BIOLOGY-BASEL **Volume:** 11 **Issue:** 5 **Article Number:** 739 **DOI:** 10.3390/biology11050739 **Published:** MAY 2022

---

#### Record 350 of 1000

**Title:** Estimation of fractional vegetation cover dynamics based on satellite remote sensing in pakistan: A comprehensive study on the FVC and its drivers

**Author(s):** Anees, SA (Anees, Shoaib Ahmad); Zhang, XL (Zhang, Xiaoli); Shakeel, M (Shakeel, Muhammad); Al-Kahtani, MA (Al-Kahtani, Mohamed A.); Khan, KA (Khan, Khalid Ali); Akram, M (Akram, Muhammad); Ghramh, HA (Ghramh, Hamed A.)

**Source:** JOURNAL OF KING SAUD UNIVERSITY SCIENCE **Volume:** 34 **Issue:** 3 **Article Number:** 101848 **DOI:** 10.1016/j.jksus.2022.101848 **Early Access Date:** FEB 2022 **Published:** APR 2022

---

#### Record 351 of 1000

**Title:** The Versatility in the Applications of Dithiocarbamates

**Author(s):** Ajiboye, TO (Ajiboye, Timothy O.); Ajiboye, TT (Ajiboye, Titilope T.); Marzouki, R (Marzouki, Riadh); Onwudiwe, DC (Onwudiwe, Damian C.)

**Source:** INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES **Volume:** 23 **Issue:** 3 **Article Number:** 1317 **DOI:** 10.3390/ijms23031317 **Published:** FEB 2022

---

#### Record 352 of 1000

**Title:** Molecular design and synthesis of acetohydrizonoyl cyanide structures as efficient dye-sensitized solar cells with enhancement of the performance of the standard N-719 dye upon co-sensitization

**Author(s):** Elmorsy, MR (Elmorsy, Mohamed R.); Badawy, SA (Badawy, Safa A.); Alzahrani, AYA (Alzahrani, Abdullah Y. A.); El-Rayyes, A (El-Rayyes, Ali)

**Source:** OPTICAL MATERIALS **Volume:** 135 **Article Number:** 113359 **DOI:** 10.1016/j.optmat.2022.113359 **Early Access Date:** DEC 2022 **Published:** JAN 2023

---

#### Record 353 of 1000

**Title:** Physico-Chemical Aspects on Uranium and Molybdenum Extraction from Aqueous Solution by Synthesized Phosphinimine Derivative Chelating Agent

**Author(s):** Ibrahim, HA (Ibrahim, H. A.); Awwad, NS (Awwad, N. S.); Gado, MA (Gado, Mohamed A.); Hassanin, MA (Hassanin, Mohamed A.); Nayl, AA (Nayl, A. A.); Atia, BM (Atia, Bahig M.)

**Source:** JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS **Volume:** 32 **Issue:** 9 **Pages:** 3640-3657 **DOI:** 10.1007/s10904-022-02374-1 **Early Access Date:** JUN 2022 **Published:** SEP 2022

---

#### Record 354 of 1000

**Title:** Nitrite reduction over Ag nanoarray electrocatalyst for ammonia synthesis

**Author(s):** Liu, Q (Liu, Qian); Wen, G (Wen, Guilai); Zhao, DL (Zhao, Donglin); Xie, L (Xie, Lisi); Sun, SJ (Sun, Shengjun); Zhang, LC (Zhang, Longcheng); Luo, YS (Luo, Yongsong); Alshehri, AA (Alshehri, Abdulmohsen Ali); Hamdy, MS (Hamdy, Mohamed S.); Kong, QQ (Kong, Qingquan); Sun, XP (Sun, Xuping)

**Source:** JOURNAL OF COLLOID AND INTERFACE SCIENCE **Volume:** 623 **Pages:** 513-519 **DOI:** 10.1016/j.jcis.2022.04.173 **Early Access Date:** MAY 2022 **Published:** OCT 2022

---

#### Record 355 of 1000

**Title:** Synthesis of new Cr(III) complexes derived from antipyrine-based ligands: Elucidation, conformation, cytotoxicity and genotoxicity *via* *in-vitro* and *in-silico* approaches

**Author(s):** Saber, RW (Saber, Renad Wael); Abou-Melha, K (Abou-Melha, Khlood); El-Metwaly, N (El-Metwaly, Nashwa)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 359 **Article Number:** 119361 **DOI:** 10.1016/j.molliq.2022.119361 **Early Access Date:** MAY 2022 **Published:** AUG 1 2022

---

#### Record 356 of 1000

**Title:** Design, Synthesis, Crystal Structure, In Vitro and In Silico Evaluation of New *N'*-Benzylidene-4-tert-butylbenzohydrazide Derivatives as Potent Urease Inhibitors

**Author(s):** Ahmad, S (Ahmad, Sajjad); Khan, M (Khan, Momin); Rehman, NU (Rehman, Najeeb Ur); Ikram, M (Ikram, Muhammad); Rehman, S (Rehman, Sadia); Ali, M (Ali, Mahboob); Uddin, J (Uddin, Jalal); Khan, A (Khan, Ajmal); Alam, A (Alam, Aftab); Al-Harrasi, A (Al-Harrasi, Ahmed)

**Source:** MOLECULES **Volume:** 27 **Issue:** 20 **Article Number:** 6906 **DOI:** 10.3390/molecules27206906 **Published:** OCT 2022

---

#### Record 357 of 1000

**Title:** Insighting the inhibitory potential of novel modafinil drug derivatives against estrogen alpha (ER $\alpha$ ) of breast cancer through a triple hybrid computational methodology

**Author(s):** Saba, A (Saba, Afsheen); Sarwar, F (Sarwar, Fatima); Muhammad, S (Muhammad, Shabbir); Ilyas, M (Ilyas, Mubashar); Iqbal, J (Iqbal, Javed); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Ayub, K (Ayub, Khurshid); Gilani, MA (Gilani, Mazhar Amjad); Adnan, M (Adnan, Muhammad)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 366 **Article Number:** 120234 **DOI:** 10.1016/j.molliq.2022.120234 **Early Access Date:** SEP 2022 **Published:** NOV 15 2022

---

#### Record 358 of 1000

**Title:** Inhibitive performance of novel/eco-friendly pyrimidine derivative for Q235 steel protection in 15% HCl under hydrodynamic condition: Combination of experimental, surface and computational approach

**Author(s):** Singh, A (Singh, Ambrish); Ansari, KR (Ansari, K. R.); Lin, YH (Lin, Yuanhua); Ali, IH (Ali, Ismat H.); Kaya, S (Kaya, Savas); El Ibrahim, B (El Ibrahim, Brahim)

**Source:** MATERIALS TODAY COMMUNICATIONS **Volume:** 32 **Article Number:** 104110 **DOI:** 10.1016/j.mtcomm.2022.104110 **Early Access Date:** AUG 2022 **Published:** AUG 2022

---

#### Record 359 of 1000

**Title:** Antioxidant, molecular docking and computational investigation of new flavonoids

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

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1254 **Article Number:** 132189 **DOI:** 10.1016/j.molstruc.2021.132189 **Early Access Date:** JAN 2022 **Published:** APR 15 2022

---

#### Record 360 of 1000

**Title:** Superior adsorption and removal of doxorubicin from aqueous solution using activated carbon via thermally treated green adsorbent: isothermal, kinetic, and thermodynamic studies

**Author(s):** Al-Hazmi, GAA (Al-Hazmi, Gamil A. A.); El-Zahhar, AA (El-Zahhar, Adel A.); El-Desouky, MG (El-Desouky, Mohamed G.); El-Bindary, A (El-Bindary, A.)

**Source:** ENVIRONMENTAL TECHNOLOGY **Volume:** 45 **Issue:** 10 **Pages:** 1969-1988 **DOI:** 10.1080/09593330.2022.2159540 **Early Access Date:** DEC 2022 **Published:** APR 28 2024

---

#### Record 361 of 1000

**Title:** Utilization of hydrolysate from saccharified sugarcane bagasse for phosphatases production (Jun, 10.1007/s13399-022-02828-z, 2022)

**Author(s):** Ejaz, U (Ejaz, Uroosa); Sohail, M (Sohail, Muhammad); El-Bahy, ZM (El-Bahy, Zeinhom M.); Salem, MA (Salem, Mohamed A.); Alzahrani, AY (Alzahrani, Abdullah Y.)

**Source:** BIOMASS CONVERSION AND BIOREFINERY **Volume:** 14 **Issue:** 4 **Pages:** 5343-5343 **DOI:** 10.1007/s13399-022-02880-9 **Early Access Date:** JUN 2022 **Published:** FEB 2024

---

### Record 362 of 1000

**Title:** Crystal chemistry, DFT calculation and optical properties of the double perovskite stannate Sr<sub>2</sub>Sn<sub>0.8</sub>In<sub>0.8</sub>W<sub>0.4</sub>O<sub>6</sub>

**Author(s):** Belgacem, B (Belgacem, Besma); Maslov, MM (Maslov, Mikhail M.); Kaya, S (Kaya, Savas); Ali, IH (Ali, Ismat H.); Ben Hassen, R (Ben Hassen, Rached)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1259 **Article Number:** 132716 **DOI:** 10.1016/j.molstruc.2022.132716 **Early Access Date:** MAR 2022 **Published:** JUL 5 2022

---

### Record 363 of 1000

**Title:** Highly enhanced dye adsorption of MoO<sub>3</sub> nanoplates fabricated by hydrothermal-calcination approach in presence of chitosan and thiourea

**Author(s):** Muthukumar, P (Muthukumar, Pandi); Sowmiya, E (Sowmiya, Elango); Arunkumar, G (Arunkumar, Gunasekaran); Pannipara, M (Pannipara, Mehboobali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Anthony, SP (Anthony, Savarimuthu Philip)

**Source:** CHEMOSPHERE **Volume:** 291 **Article Number:** 132926 **DOI:** 10.1016/j.chemosphere.2021.132926 **Early Access Date:** JAN 2022 **Part:** 2 **Published:** MAR 2022

---

### Record 364 of 1000

**Title:** L-ARGININE IS POTENTIAL THAN DOXORUBICIN OR THEIR COMBINATION IN IMPROVING HEPATOCELLULAR CARCINOMA-INDUCED LIVER NITRIC OXIDE OVERPRODUCTION AND ARGINASE EXPRESSION DOWNREGULATION

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

**Source:** FRESENIUS ENVIRONMENTAL BULLETIN **Volume:** 31 **Issue:** 4 **Pages:** 4572-4580 **Published:** 2022

---

### Record 365 of 1000

**Title:** Nanoformulation of *Curcuma longa* Root Extract and Evaluation of Its Dissolution Potential

**Author(s):** Hussain, A (Hussain, Amjad); Attique, F (Attique, Faisal); Naqvi, SAR (Naqvi, Syed Ali Raza); Ali, A (Ali, Akbar); Ibrahim, M (Ibrahim, Muhammad); Hussain, H (Hussain, Hidayat); Zafar, F (Zafar, Fatiqa); Iqbal, RS (Iqbal, Rana Saqib); Ayub, MA (Ayub, Muhammad Adnan); Assiri, MA (Assiri, Mohammed A.); Imran, M (Imran, Muhammad); Ullah, S (Ullah, Shaheed)

**Source:** ACS OMEGA **Volume:** 8 **Issue:** 1 **Pages:** 1088-1096 **DOI:** 10.1021/acsomega.2c06258 **Early Access Date:** DEC 2022 **Published:** JAN 10 2023

---

### Record 366 of 1000

**Title:** In-situ fabrication of 3D/1D p-NiO/p-ZrO<sub>2</sub> heterojunction composites with enhanced photo-degradation activity towards methyl orange and benzimidazole

**Author(s):** Rafiq, S (Rafiq, Sabeera); Somaily, HH (Somaily, H. H.); Imran, M (Imran, Muhammad); Akhtar, M (Akhtar, Mahnoor); Ayman, I (Ayman, Imtisal); Baig, MM (Baig, Mirza Mahmood); Chaudhary, K (Chaudhary, Khadija); Warsi, MF (Warsi, Muhammad Farooq)

**Source:** CERAMICS INTERNATIONAL **Volume:** 48 **Issue:** 21 **Pages:** 32305-32313 **DOI:** 10.1016/j.ceramint.2022.07.172 **Early Access Date:** SEP 2022 **Published:** NOV 1 2022

---

### Record 367 of 1000

**Title:** CELLULASE PRODUCTION OPTIMIZATION BY *BACILLUS AERIUS* THROUGH RESPONSE SURFACE METHODOLOGY IN SUBMERGED FERMENTATION

**Author(s):** Ghazanfar, M (Ghazanfar, Misbah); Irfan, M (Irfan, Muhammad); Shakir, HA (Shakir, Hafiz Abdullah); Khan, M (Khan, Muhammad); Nadeem, M (Nadeem, Muhammad); Ahmad, I (Ahmad, Irfan)

**Source:** CELLULOSE CHEMISTRY AND TECHNOLOGY **Volume:** 56 **Issue:** 3-4 **Pages:** 321-330 **DOI:** 10.35812/CelluloseChemTechnol.2022.56.28 **Published:** MAR-APR 2022

---

**Record 368 of 1000**

**Title:** Metabolomics Study of Serum Samples of  $\beta$ -YAC Transgenic Mice Treated with Tenofovir Disoproxil Fumarate

**Author(s):** Kumari, S (Kumari, Sindhia); Khan, F (Khan, Faisal); Siddiqui, AJ (Siddiqui, Amna Jabbar); Adil, N (Adil, Nurmeen); Uddin, J (Uddin, Jalal); Asmari, M (Asmari, Mufarreh); Musharraf, SG (Musharraf, Syed Ghulam)

**Source:** INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES **Volume:** 23 **Issue:** 24 **Article Number:** 15750 **DOI:** 10.3390/ijms232415750 **Published:** DEC 2022

---

**Record 369 of 1000**

**Title:** Facile green synthesis, analysis, in vitro antidiabetic and antimicrobial activity of ZnO macropores

**Author(s):** Bashir, M (Bashir, Mahwish); Majid, F (Majid, Farzana); Sabir, R (Sabir, Rabia); Falak, A (Falak, Attia); Khan, BS (Khan, Babar Shahzad); Mahmood, T (Mahmood, Tariq); Fouda, AM (Fouda, Ahmed M.); Ali, A (Ali, Adnan)

**Source:** BIOPROCESS AND BIOSYSTEMS ENGINEERING **Volume:** 45 **Issue:** 12 **Pages:** 1993-2006 **DOI:** 10.1007/s00449-022-02803-y **Early Access Date:** NOV 2022 **Published:** DEC 2022

---

**Record 370 of 1000**

**Title:** Synthesis and Characterization of Silver Nanoparticles from *Rhizophora apiculata* and Studies on Their Wound Healing, Antioxidant, Anti-Inflammatory, and Cytotoxic Activity

**Author(s):** Alsareii, SA (Alsareii, Saeed Ali); Alamri, AM (Alamri, Abdulrahman Manaa); AlAsmari, MY (AlAsmari, Mansour Yousef); Bawahab, MA (Bawahab, Mohammed A.); Mahnashi, MH (Mahnashi, Mater H.); Shaikh, IA (Shaikh, Ibrahim Ahmed); Shettar, AK (Shettar, Arun K.); Hoskeri, JH (Hoskeri, Joy H.); Kumbar, V (Kumbar, Vijay)

**Source:** MOLECULES **Volume:** 27 **Issue:** 19 **Article Number:** 6306 **DOI:** 10.3390/molecules27196306 **Published:** OCT 2022

---

**Record 371 of 1000**

**Title:** Comparative Influence of Biochar and Doped Biochar with Si-NPs on the Growth and Anti-Oxidant Potential of *Brassica rapa* L. under Cd Toxicity

**Author(s):** Rafi, MN (Rafi, Muhammad Numan); Imran, M (Imran, Muhammad); Nadeem, HA (Nadeem, Hafiz Amir); Abbas, A (Abbas, Anees); Pervaiz, M (Pervaiz, Muhammad); Khan, WUD (Khan, Waqas-us-din); Ullah, S (Ullah, Sami); Hussain, S (Hussain, Shah); Saeed, Z (Saeed, Zohaib)

**Source:** SILICON **Volume:** 14 **Issue:** 17 **Pages:** 11699-11714 **DOI:** 10.1007/s12633-022-01878-2 **Early Access Date:** APR 2022 **Published:** NOV 2022

---

**Record 372 of 1000**

**Title:** Pyridine nitrogen position controlled molecular packing and stimuli-responsive solid-state fluorescence switching: supramolecular complexation facilitated turn-on fluorescence

**Author(s):** Gayathri, P (Gayathri, Parthasarathy); Ravi, S (Ravi, Sasikala); Karthikeyan, S (Karthikeyan, Subramanian); Pannipara, M (Pannipara, Mehboobali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Moon, D (Moon, Dohyun); Anthony, SP (Anthony, Savarimuthu Philip)

**Source:** CRYSTENGCOMM **Volume:** 24 **Issue:** 14 **Pages:** 2642-2649 **DOI:** 10.1039/d1ce01688a **Early Access Date:** MAR 2022 **Published:** APR 5 2022

---

**Record 373 of 1000**

**Title:** Efficient Synthesis with Green Chemistry Approach of Novel Pharmacophores of Imidazole-Based Hybrids for Tumor Treatment: Mechanistic Insights from In Situ to In Silico

**Author(s):** Khan, M (Khan, Majid); Shah, SR (Shah, Syed Raza); Khan, F (Khan, Faizullah); Halim, SA (Halim, Sobia Ahsan); Rahman, SM (Rahman, Shaikh Mizanoor); Khalid, M (Khalid, Mohammad); Khan, A (Khan, Ajmal); Al-Harrasi, A (Al-Harrasi, Ahmed)

**Source:** CANCERS **Volume:** 14 **Issue:** 20 **Article Number:** 5079 **DOI:** 10.3390/cancers14205079 **Published:** OCT 2022

---

**Record 374 of 1000**

**Title:** Temperature Impact on Reverse Osmosis Permeate Flux in the Remediation of Hexavalent Chromium

**Author(s):** Shigidi, I (Shigidi, Ihab); Anqi, AE (Anqi, Ali E.); Elkhaleefa, A (Elkhaleefa, Abubakar); Mohamed, A (Mohamed, Azam); Ali, IH (Ali, Ismat H.); Brima, EI (Brima, Eid I.)

**Source:** WATER **Volume:** 14 **Issue:** 1 **Article Number:** 44 **DOI:** 10.3390/w14010044 **Published:** JAN 2022

---

**Record 375 of 1000**

**Title:** First theoretical framework for highly efficient photovoltaic parameters by structural modification with benzothiophene-incorporated acceptors in dithiophene based chromophores

**Author(s):** Khalid, M (Khalid, Muhammad); Ahmed, R (Ahmed, Rameez); Shafiq, I (Shafiq, Iqra); Arshad, M (Arshad, Muhammad); Asghar, MA (Asghar, Muhammad Adnan); Munawar, KS (Munawar, Khurram Shahzad); Imran, M (Imran, Muhammad); Braga, AAC (Braga, Ataulpa A. C.)

**Source:** SCIENTIFIC REPORTS **Volume:** 12 **Issue:** 1 **Article Number:** 20148 **DOI:** 10.1038/s41598-022-24087-8 **Published:** NOV 23 2022

---

#### Record 376 of 1000

**Title:** Insights into the nonlinear optical (NLO) response of pure Au<sub>m</sub> ( $2 \leq m \leq 7$ ) and copper-doped Au<sub>m</sub>-xCu<sub>x</sub> clusters

**Author(s):** Hussain, F (Hussain, Fakhar); Hussain, R (Hussain, Riaz); Adnan, M (Adnan, Muhammad); Muhammad, S (Muhammad, Shabbir); Irshad, Z (Irshad, Zobia); Khan, MU (Khan, Muhammad Usman); Yaqoob, J (Yaqoob, Junaid); Ayub, K (Ayub, Khurshid)

**Source:** RSC ADVANCES **Volume:** 12 **Issue:** 39 **Pages:** 25143-25153 **DOI:** 10.1039/d2ra03664a **Published:** SEP 5 2022

---

#### Record 377 of 1000

**Title:** Investigation of corrosion and wear resistance of PEO coated D16T aluminium alloys in the marine tropical climate conditions

**Author(s):** Van Truong, P (Van Truong, Phan); Van Bo, N (Van Bo, Nguyen); Van Minh, N (Van Minh, Nguyen); Anh, NV (Anh, Nguyen Viet); Kumar, GS (Kumar, Govindan Suresh); Shkir, M (Shkir, Mohd.)

**Source:** MATERIALS CHEMISTRY AND PHYSICS **Volume:** 290 **Article Number:** 126587 **DOI:** 10.1016/j.matchemphys.2022.126587 **Early Access Date:** AUG 2022 **Published:** OCT 15 2022

---

#### Record 378 of 1000

**Title:** Physico-Chemical Aspects on Uranium and Molybdenum Extraction from Aqueous Solution by Synthesized Phosphinimine Derivative Chelating Agent (June, 10.1007/s10904-022-02374-1, 2022)

**Author(s):** Ibrahim, HA (Ibrahim, H. A.); Awwad, NS (Awwad, N. S.); Gado, MA (Gado, Mohamed A.); Hassanin, MA (Hassanin, Mohamed A.); Nayl, AA (Nayl, A. A.); Atia, BM (Atia, Bahig M.)

**Source:** JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS **Volume:** 32 **Issue:** 9 **Pages:** 3658-3658 **DOI:** 10.1007/s10904-022-02421-x **Early Access Date:** JUL 2022 **Published:** SEP 2022

---

#### Record 379 of 1000

**Title:** Gene Expression and Characterization of Iturin A Lipopeptide Biosurfactant from *Bacillus aryabhatai* for Enhanced Oil Recovery

**Author(s):** Yaraguppi, DA (Yaraguppi, Deepak A.); Bagewadi, ZK (Bagewadi, Zabin K.); Mahanta, N (Mahanta, Nilkamal); Singh, SP (Singh, Surya P.); Khan, TMY (Khan, T. M. Yunus); Deshpande, SH (Deshpande, Sanjay H.); Soratur, C (Soratur, Chaitra); Das, S (Das, Simita); Saikia, D (Saikia, Dimple)

**Source:** GELS **Volume:** 8 **Issue:** 7 **Article Number:** 403 **DOI:** 10.3390/gels8070403 **Published:** JUL 2022

---

#### Record 380 of 1000

**Title:** Experimental spectroscopy, eco-friendly solvents effect on transitions, reactive sites and biological research on methyl gallate - MTT assay (cytotoxicity)

**Author(s):** Rifana, BA (Rifana, B. Aysha); Prasana, JC (Prasana, Johanan Christian); Muthu, S (Muthu, S.); Anuradha, A (Anuradha, A.); Irfan, A (Irfan, Ahmad)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 371 **Article Number:** 121092 **DOI:** 10.1016/j.molliq.2022.121092 **Early Access Date:** DEC 2022 **Published:** FEB 1 2023

---

#### Record 381 of 1000

**Title:** Biosynthesis of NiFe<sub>2</sub>O<sub>4</sub> nanoparticles using *Murayya koenigii* for photocatalytic dye degradation and antibacterial application

**Author(s):** Alamier, WM (Alamier, Waleed M.); Hasan, N (Hasan, Nazim); Nawaz, S (Nawaz, Sarfaraz); Ismail, KS (Ismail, Khatib Sayeed); Shkir, M (Shkir, Mohd.); Malik, MA (Malik, Maqsood Ahmad); Oteef, MDY (Oteef, Mohammed D. Y.)

**Source:** JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T **Volume:** 22 **Pages:** 1331-1348 **DOI:** 10.1016/j.jmrt.2022.11.181 **Early Access Date:** DEC 2022 **Published:** JAN-FEB 2023

---

**Record 382 of 1000**

**Title:** Soya bean derived activated carbon as an efficient adsorbent for capture of valuable heavy metals from waste aqueous solution

**Author(s):** Masoud, AM (Masoud, Ahmed M.); El-Zahhar, AA (El-Zahhar, Adel A.); El Naggar, AMA (El Naggar, Ahmed M. A.); Zahran, AI (Zahran, Asmaa, I); Al-Hazmi, GAA (Al-Hazmi, Gamil A. A.); Taha, MH (Taha, Mohamed H.)

**Source:** RADIOCHIMICA ACTA **Volume:** 111 **Issue:** 2 **Pages:** 105-115 **DOI:** 10.1515/ract-2022-0098 **Early Access Date:** NOV 2022 **Published:** FEB 23 2023

---

**Record 383 of 1000**

**Title:** Evaluation of diethylenetriaminepentaacetic acid modified chitosan immobilized in amino-carbomated alginate matrix as a low cost adsorbent for effective Cu(II) recovery

**Author(s):** Shehzad, H (Shehzad, Hamza); Farooqi, ZH (Farooqi, Zahoor H.); Ahmad, E (Ahmad, Ejaz); Sharif, A (Sharif, Ahsan); Irfan, A (Irfan, Ahmad); Din, MI (Din, Muhammad Imran); Begum, R (Begum, Robina); Liu, ZR (Liu, Zhirong); Zhou, LM (Zhou, Limin); Ouyang, JB (Ouyang, Jinbo); Rasheed, L (Rasheed, Lubna); Akram, T (Akram, Tehreem); Mahmood, A (Mahmood, Azhar)

**Source:** ZEITSCHRIFT FÜR PHYSIKALISCHE CHEMIE-INTERNATIONAL JOURNAL OF RESEARCH IN PHYSICAL CHEMISTRY & CHEMICAL PHYSICS **Volume:** 236 **Issue:** 11-12 **Pages:** 1547-1566 **DOI:** 10.1515/zpch-2022-0092 **Early Access Date:** NOV 2022 **Published:** DEC 16 2022

---

**Record 384 of 1000**

**Title:** A Review on Heat Treatment of Cast Iron: Phase Evolution and Mechanical Characterization

**Author(s):** Akinribide, OJ (Akinribide, Ojo Jeremiah); Ogundare, OD (Ogundare, Olasupo Daniel); Oluwafemi, OM (Oluwafemi, Olanike Mary); Ebisike, K (Ebisike, Kelechi); Nageri, AK (Nageri, Abdulganiyu Kehinde); Akinwamide, SO (Akinwamide, Samuel Olukayode); Gamaoun, F (Gamaoun, Fehmi); Olubambi, PA (Olubambi, Peter Apata)

**Source:** MATERIALS **Volume:** 15 **Issue:** 20 **Article Number:** 7109 **DOI:** 10.3390/ma15207109 **Published:** OCT 2022

---

**Record 385 of 1000**

**Title:** Efficient synthesis and biological evaluation of some new series of pyridine derivatives: Promising and potent new class of anticancer agents

**Author(s):** Abbas, HAS (Abbas, Hebat-Allah S.); Zeina, EAA (Abo Zeina, Esraa A.); Radwan, HA (Radwan, Hayam A.); Shati, AA (Shati, Ali A.); Alfaifi, MY (Alfaifi, Mohammad Y.); Elbehairi, SEI (Elbehairi, Serag Eldin I.)

**Source:** JOURNAL OF HETEROCYCLIC CHEMISTRY **Volume:** 59 **Issue:** 11 **Pages:** 1971-1989 **DOI:** 10.1002/jhet.4533 **Early Access Date:** AUG 2022 **Published:** NOV 2022

---

**Record 386 of 1000**

**Title:** Recent advances in two-dimensional MXenes for power and smart energy systems

**Author(s):** Thakur, N (Thakur, Nikhil); Kumar, P (Kumar, Pawan); Sati, DC (Sati, Dinesh C.); Neffati, R (Neffati, R.); Sharma, P (Sharma, Pankaj)

**Source:** JOURNAL OF ENERGY STORAGE **Volume:** 50 **Article Number:** 104604 **DOI:** 10.1016/j.est.2022.104604 **Early Access Date:** APR 2022 **Published:** JUN 2022

---

**Record 387 of 1000**

**Title:** Tin selenide/carbon black nanocomposite-based high efficiency counter electrode for dye-sensitized solar cells (DSSCs)

**Author(s):** Gomathi, M (Gomathi, M.); Sankar, A (Sankar, A.); Kannan, S (Kannan, S.); Shkir, M (Shkir, Mohd.); Reddy, VRM (Reddy, Vasudeva Reddy Minnam)

**Source:** CHEMICAL PHYSICS LETTERS **Volume:** 802 **Article Number:** 139802 **DOI:** 10.1016/j.cplett.2022.139802 **Published:** SEP 2022

---

**Record 388 of 1000**

**Title:** Rare Earth-Doped MoS<sub>2</sub> for Supercapacitor Application

**Author(s):** Isacfranklin, M (Isacfranklin, M.); Princy, LEM (Princy, L. Esther Maria); Rathinam, Y (Rathinam, Yuvakkumar); Kungumadevi, L (Kungumadevi, L.); Ravi, G (Ravi, G.); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Velauthapillai, D (Velauthapillai, Dhayalan)

**Source:** ENERGY & FUELS **Volume:** 36 **Issue:** 12 **Pages:** 6476-6482 **DOI:** 10.1021/acs.energyfuels.2c00536 **Published:** JUN 16 2022

---

### Record 389 of 1000

**Title:** Assessment of Antioxidative and Alpha-Amylase Potential of Polyherbal Extract

**Author(s):** Patwekar, M (Patwekar, Mohsina); Patwekar, F (Patwekar, Faheem); Mezni, A (Mezni, Amine); Sanaullah, S (Sanaullah, Syed); Fatema, SR (Fatema, Shaikh Rohin); Almas, U (Almas, Ustad); Ahmad, I (Ahmad, Irfan); Tirth, V (Tirth, Vineet); Mallick, J (Mallick, Jewel)

**Source:** EVIDENCE-BASED COMPLEMENTARY AND ALTERNATIVE MEDICINE **Volume:** 2022 **Article Number:** 7153526 **DOI:** 10.1155/2022/7153526 **Published:** MAY 31 2022

---

### Record 390 of 1000

**Title:** Computational Exploration of Anti-cancer Potential of Flavonoids against Cyclin-Dependent Kinase 8: An *In Silico* Molecular Docking and Dynamic Approach

**Author(s):** Rathod, S (Rathod, Sanket); Shinde, K (Shinde, Ketaki); Porlekar, J (Porlekar, Jaykedar); Choudhari, P (Choudhari, Prafulla); Dhavale, R (Dhavale, Rakesh); Mahuli, D (Mahuli, Deepak); Tamboli, Y (Tamboli, Yasinalli); Bhatia, M (Bhatia, Manish); Haval, KP (Haval, Kishan P.); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Pannipara, M (Pannipara, Mehboobali)

**Source:** ACS OMEGA **Volume:** 8 **Issue:** 1 **Pages:** 391-409 **DOI:** 10.1021/acsomega.2c04837 **Early Access Date:** DEC 2022 **Published:** JAN 10 2023

---

### Record 391 of 1000

**Title:** Dental Composites with Magnesium Doped Zinc Oxide Nanoparticles Prevent Secondary Caries in the Alloxan-Induced Diabetic Model

**Author(s):** Tanweer, T (Tanweer, Tahreem); Rana, NF (Rana, Nosheen Fatima); Saleem, I (Saleem, Iqra); Shafique, I (Shafique, Iqra); Alshahrani, SM (Alshahrani, Sultan M.); Almukhlifi, HA (Almukhlifi, Hanadi A.); Alotaibi, AS (Alotaibi, Amenah S.); Alshareef, SA (Alshareef, Sohad Abdulkaleg); Mena, F (Mena, Farid)

**Source:** INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES **Volume:** 23 **Issue:** 24 **Article Number:** 15926 **DOI:** 10.3390/ijms232415926 **Published:** DEC 2022

---

### Record 392 of 1000

**Title:** Are Antisense Long Non-Coding RNA Related to COVID-19?

**Author(s):** Badr, EA (Badr, Eman Ae); El Sayed, IE (El Sayed, Ibrahim Eltantawy); Gabber, MKR (Gabber, Mohanad Kareem Razak); Ghobashy, EA (Ghobashy, Eman Abd Elrehem); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Algarni, H (Algarni, Hamed); Elghobashy, YA (Elghobashy, Yasser As)

**Source:** BIOMEDICINES **Volume:** 10 **Issue:** 11 **Article Number:** 2770 **DOI:** 10.3390/biomedicines10112770 **Published:** NOV 2022

---

### Record 393 of 1000

**Title:** A new ZnO-ZnS-CdS heterostructure on Ni substrate: A binder-free electrode for advanced asymmetric supercapacitors with improved performance

**Author(s):** BiBi, S (BiBi, Shagufta); Shah, MZU (Shah, Muhammad Zia Ullah); Sajjad, M (Sajjad, Muhammad); Shafi, HZ (Shafi, Hafiz Zahid); Amin, B (Amin, B.); Bajaber, MA (Bajaber, Majed A.); Shah, A (Shah, A.)

**Source:** ELECTROCHIMICA ACTA **Volume:** 430 **Article Number:** 141031 **DOI:** 10.1016/j.electacta.2022.141031 **Published:** OCT 20 2022

---

### Record 394 of 1000

**Title:** ZnCo<sub>2</sub>O<sub>4</sub>/CNT composite for efficient supercapacitor electrodes

**Author(s):** Isacfranklin, M (Isacfranklin, M.); Daphine, S (Daphine, S.); Yuvakkumar, R (Yuvakkumar, R.); Kungumadevi, L (Kungumadevi, L.); Ravi, G (Ravi, G.); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Velauthapillai, D (Velauthapillai, Dhayalan)

**Source:** CERAMICS INTERNATIONAL **Volume:** 48 **Issue:** 17 **Pages:** 24745-24750 **DOI:** 10.1016/j.ceramint.2022.05.123 **Early Access Date:** JUL 2022 **Published:** SEP 1 2022

---

### Record 395 of 1000

**Title:** Quantitative estimation of essential/toxic elemental levels in the serum of esophagus cancer patients in relation to controls

**Author(s):** Qayyum, MA (Qayyum, Muhammad Abdul); Sultan, MH (Sultan, Muhammad Habib); Farooq, Z (Farooq, Zahid); Muddassir, K (Muddassir, Khawaja); Farooq, T (Farooq, Tahir); Irfan, A (Irfan, Ahmad)

**Source:** ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH **Volume:** 29 **Issue:** 55 **Pages:** 83191-83210 **DOI:** 10.1007/s11356-022-21651-7 **Early Access Date:** JUN 2022 **Published:** NOV 2022

---

#### **Record 396 of 1000**

**Title:** Donor acceptor groups effect, polar protic solvents influence on electronic properties and reactivity of 2-Chloropyridine-4-carboxylic acid

**Author(s):** Selvakumari, S (Selvakumari, S.); Venkataraju, C (Venkataraju, C.); Muthu, S (Muthu, S.); Irfan, A (Irfan, Ahmad); Shanthi, D (Shanthi, D.)

**Source:** JOURNAL OF THE INDIAN CHEMICAL SOCIETY **Volume:** 99 **Issue:** 6 **Article Number:** 100478 **DOI:** 10.1016/j.jics.2022.100478 **Early Access Date:** APR 2022 **Published:** JUN 2022

---

#### **Record 397 of 1000**

**Title:** A Nanoinformatics Approach to Evaluate the Pharmacological Properties of Nanoparticles for the Treatment of Alzheimer's Disease

**Author(s):** Nawaz, MZ (Nawaz, Muhammad Zohaib); Attique, SA (Attique, Syed Awais); Qurat-UI-Ain (Qurat-UI-Ain); Alshammari, FA (Alshammari, Fahdah Aayed); Alhamdi, HW (Alhamdi, Heba Waheeb); Alghamdi, HA (Alghamdi, Huda Ahmed); Yan, W (Yan, Wei)

**Source:** COMBINATORIAL CHEMISTRY & HIGH THROUGHPUT SCREENING **Volume:** 25 **Issue:** 4 **Pages:** 730-737 **DOI:** 10.2174/1386207324666210217145733 **Published:** 2022

---

#### **Record 398 of 1000**

**Title:** Investigations of the structural, magnetic, mechanical, electronic and ferroelectric properties of Mn<sub>2</sub>MnWO<sub>6</sub> double corundum oxide

**Author(s):** Ali, A (Ali, Akbar); Ali, HE (Ali, H. Elhosiny); Khan, I (Khan, Imad)

**Source:** MATERIALS CHEMISTRY AND PHYSICS **Volume:** 296 **Article Number:** 127197 **DOI:** 10.1016/j.matchemphys.2022.127197 **Early Access Date:** DEC 2022 **Published:** FEB 15 2023

---

#### **Record 399 of 1000**

**Title:** Utilization of hydrolysate from saccharified sugarcane bagasse for phosphatases production

**Author(s):** Ejaz, U (Ejaz, Uroosa); Sohail, M (Sohail, Muhammad); El-Bahy, ZM (El-Bahy, Zeinhom M.); Salim, MA (Salim, Mohamed A.); Alzahrani, AY (Alzahrani, Abdullah Y.)

**Source:** BIOMASS CONVERSION AND BIOREFINERY **Volume:** 14 **Issue:** 4 **Pages:** 5331-5342 **DOI:** 10.1007/s13399-022-02828-z **Early Access Date:** MAY 2022 **Published:** FEB 2024

---

#### **Record 400 of 1000**

**Title:** L-Glutamic acid loaded collagen chitosan composite scaffold as regenerative medicine for the accelerated healing of diabetic wounds

**Author(s):** Sanapalli, BKR (Sanapalli, Bharat Kumar Reddy); Tyagi, R (Tyagi, Rishita); Shaik, AB (Shaik, Afzal B.); Pelluri, R (Pelluri, Ranakishor); Bhandare, RR (Bhandare, Richie R.); Annadurai, S (Annadurai, Sivakumar); Karri, VVSR (Karri, Veera Venkata Satyanarayana Reddy)

**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 15 **Issue:** 6 **Article Number:** 103841 **DOI:** 10.1016/j.arabjc.2022.103841 **Early Access Date:** MAR 2022 **Published:** JUN 2022

---

#### **Record 401 of 1000**

**Title:** Solvent polarity, structural and electronic properties with different solvents and biological studies of 3,3,5-triphenylfuran-2(3*H*)-one-cancers of the blood cells

**Author(s):** Parakkal, SC (Parakkal, Sheryl Cherian); Datta, R (Datta, Riya); Saral, A (Saral, A.); Muthu, S (Muthu, S.); Irfan, A (Irfan, Ahmad); Jeelani, A (Jeelani, A.)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 368 **Article Number:** 120674 **DOI:** 10.1016/j.molliq.2022.120674 **Early Access Date:** NOV 2022 **Part:** B **Published:** DEC 15 2022

---

#### **Record 402 of 1000**

**Title:** Effect of Different Zeolite Supports on the Catalytic Behavior of Platinum Nanoparticles in Cyclohexene Hydrogenation Reaction



**Author(s):** Hamdy, MS (Hamdy, Mohamed S.); Alqahtani, FA (Alqahtani, Fatimah A.); Shkir, M (Shkir, Mohd); Fawy, KF (Fawy, Khaled F.); Benaissa, M (Benaissa, Mhamed); Ben Hamida, MB (Ben Hamida, Mohamed Bechir); Elboughdiri, N (Elboughdiri, Noureddine)

**Source:** CATALYSTS **Volume:** 12 **Issue:** 10 **Article Number:** 1106 **DOI:** 10.3390/catal12101106 **Published:** OCT 2022

---

#### **Record 403 of 1000**

**Title:** Rapid Assay for the Therapeutic Drug Monitoring of Edoxaban

**Author(s):** Rashid, MA (Rashid, Md Abdur); Muneer, S (Muneer, Saiqa); Alhamhoom, Y (Alhamhoom, Yahya); Islam, N (Islam, Nazrul)

**Source:** BIOMOLECULES **Volume:** 12 **Issue:** 4 **Article Number:** 590 **DOI:** 10.3390/biom12040590 **Published:** APR 2022

---

#### **Record 404 of 1000**

**Title:** Enhancement of photodegradation activity of ZnO nanoparticles prepared by one-pot flash combustion route: an effect of Ag doping

**Author(s):** Al-Namshah, KS (Al-Namshah, Khadijah S.); Adewinbi, SA (Adewinbi, Saheed A.); Shkir, M (Shkir, Mohd); Ashraf, IM (Ashraf, I. M.); Hamdy, MS (Hamdy, Mohamed S.)

**Source:** OPTICAL AND QUANTUM ELECTRONICS **Volume:** 54 **Issue:** 12 **Article Number:** 838 **DOI:** 10.1007/s11082-022-04236-z **Published:** DEC 2022

---

#### **Record 405 of 1000**

**Title:** A novel strategy for preparing metal-organic framework as a smart material for selective detection and efficient extraction of Pd(II) and Au (III) ions from E-wastes

**Author(s):** Alharbi, A (Alharbi, Ahmed); Al-Ahmed, ZA (Al-Ahmed, Zehbah A.); El-Metwaly, NM (El-Metwaly, Nashwa M.); Shahat, A (Shahat, Ahmed); El-Bindary, MA (El-Bindary, M. A.)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 369 **Article Number:** 120862 **DOI:** 10.1016/j.molliq.2022.120862 **Early Access Date:** NOV 2022 **Published:** JAN 1 2023

---

#### **Record 406 of 1000**

**Title:** Effect of Sn concentration on the structural, morphological and thermoelectric transport properties of zinc Stannates thin films

**Author(s):** Khan, NA (Khan, N. Abbas); Alnuwaiser, MA (Alnuwaiser, Maha Abdallah); Javed, MR (Javed, Muhammad Rizwan); Ikram, S (Ikram, Salma); Ali, A (Ali, A.); Ali, MY (Ali, M. Yasir); Amami, M (Amami, Mongi); Nawaz, MA (Nawaz, M. Asif); Javaid, K (Javaid, K.); Hussain, MS (Hussain, M. Sharafat); Mahmood, K (Mahmood, K.)

**Source:** CERAMICS INTERNATIONAL **Volume:** 48 **Issue:** 23 **Pages:** 35237-35240 **DOI:** 10.1016/j.ceramint.2022.08.125 **Early Access Date:** NOV 2022 **Part:** A **Published:** DEC 1 2022

---

#### **Record 407 of 1000**

**Title:** Study of interaction between different solvents and neurotransmitters dopamine, l-adrenaline, and l-noradrenaline using LED, QTAIM and AIMD

**Author(s):** Thomas, R (Thomas, Renjith); Pooventhiran, T (Pooventhiran, T.); Bakht, MA (Bakht, Md. Afroz); Alzahrani, AY (Alzahrani, Abdullah Y.); Salem, MA (Salem, Mohamed A.)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 368 **Article Number:** 120708 **DOI:** 10.1016/j.molliq.2022.120708 **Early Access Date:** NOV 2022 **Part:** A **Published:** DEC 15 2022

---

#### **Record 408 of 1000**

**Title:** Efficiency of Fe<sup>3+</sup>O<sup>4</sup>@ZIF-8 for the removal of Doxorubicin from aqueous solutions: equilibrium, kinetics and thermodynamic studies

**Author(s):** Al-Hazmi, GAA (Al-Hazmi, Gamil A. A.); El-Zahhar, AA (El-Zahhar, Adel A.); El-Desouky, MG (El-Desouky, Mohamed G.); El-Bindary, MA (El-Bindary, Mohamed A.); El-Bindary, AA (El-Bindary, Ashraf A.)

**Source:** ENVIRONMENTAL TECHNOLOGY **Volume:** 45 **Issue:** 4 **Pages:** 731-750 **DOI:** 10.1080/09593330.2022.2121181 **Early Access Date:** SEP 2022 **Published:** FEB 10 2024

---

#### **Record 409 of 1000**

**Title:** Ag doped ZnSnO<sub>3</sub> nanocubes: Promotion on the charge storage mechanism for supercapacitors

**Author(s):** Rani, BJ (Rani, B. Jansi); Swathi, S (Swathi, S.); Yuvakkumar, R (Yuvakkumar, R.); Ravi, G (Ravi, G.); Navaneethakrishnan, P (Navaneethakrishnan, P.); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Velauthapillai, D (Velauthapillai, Dhayalan)

**Source:** JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS **Volume:** 169 **Article Number:** 110894 **DOI:** 10.1016/j.jpacs.2022.110894 **Early Access Date:** JUL 2022 **Published:** OCT 2022

---

#### Record 410 of 1000

**Title:** RETRACTED: Revamping of Chronic Respiratory Diseases in Low- and Middle-Income Countries (Retracted article. See vol. 11, 2023)

**Author(s):** Zeng, LH (Zeng, Ling-Hui); Hussain, M (Hussain, Musaddique); Syed, SK (Syed, Shahzada Khurram); Saadullah, M (Saadullah, Malik); Jamil, Q (Jamil, Qurratulain); Alqahtani, AM (Alqahtani, Ali M.); Alqahtani, T (Alqahtani, Taha); Akram, N (Akram, Nadia); Khan, IA (Khan, Imran Ahmad); Parveen, S (Parveen, Sajida); Fayyaz, T (Fayyaz, Tehreem); Fatima, M (Fatima, Mobeen); Shaukat, S (Shaukat, Saira); Shabbir, N (Shabbir, Najia); Fatima, M (Fatima, Mehwish); Kanwal, A (Kanwal, Aisha); Barkat, MQ (Barkat, Muhammad Qasim); Wu, XM (Wu, Ximei)

**Source:** FRONTIERS IN PUBLIC HEALTH **Volume:** 9 **Article Number:** 757089 **DOI:** 10.3389/fpubh.2021.757089 **Published:** FEB 21 2022

---

#### Record 411 of 1000

**Title:** Chemistry of 2-(Piperazin-1-yl) Quinoline-3-Carbaldehydes

**Author(s):** Salem, MA (Salem, Mohammed A.); Gouda, MA (Gouda, Moustafa A.); El-Bana, GG (El-Bana, Ghada G.)

**Source:** MINI-REVIEWS IN ORGANIC CHEMISTRY **Volume:** 19 **Issue:** 4 **Pages:** 480-495 **DOI:** 10.2174/1570193X18666211001124510 **Published:** 2022

---

#### Record 412 of 1000

**Title:** Structural, optical and dielectric properties of aluminum-substituted SrAl<sub>2-x</sub>Fe<sub>12-2x</sub>O<sub>19</sub> (x = (0.0,0.2,0.4,0.6,0.8,1.0) M-type hexagonal ferrites

**Author(s):** Dilshad, M (Dilshad, Muhammad); Khan, HM (Khan, Hasan M.); Zahid, M (Zahid, Muhammad); Honey, S (Honey, Shehla); Assiri, MA (Assiri, Mohammed A.); Imran, M (Imran, Muhammad)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 33 **Issue:** 27 **Pages:** 21519-21530 **DOI:** 10.1007/s10854-022-08943-x **Early Access Date:** SEP 2022 **Published:** SEP 2022

---

#### Record 413 of 1000

**Title:** Experimental Investigation and Parametric Optimization of the Tungsten Inert Gas Welding Process Parameters of Dissimilar Metals

**Author(s):** Assefa, AT (Assefa, Anteneh Teferi); Ahmed, GMS (Ahmed, Gulam Mohammed Sayeed); Alamri, S (Alamri, Sagar); Edacherian, A (Edacherian, Abhilash); Jiru, MG (Jiru, Moera Gutu); Pandey, V (Pandey, Vivek); Hossain, N (Hossain, Nazia)

**Source:** MATERIALS **Volume:** 15 **Issue:** 13 **Article Number:** 4426 **DOI:** 10.3390/ma15134426 **Published:** JUL 2022

---

#### Record 414 of 1000

**Title:** Improvement in electrical conductivity characterization of chitosan/Poly (ethylene oxide) incorporated with V<sub>2</sub>O<sub>5</sub> NPs via laser ablation

**Author(s):** Awwad, NSS (Awwad, Nasser S. S.); Ibrahim, HAA (Ibrahim, Hala A. A.); Abd Kader, MFH (Abd El-Kader, M. F. H.); Ali, HE (Ali, H. Elhosiny); Mostafa, AMM (Mostafa, Ayman M. M.); Menazea, AA (Menazea, A. A.)

**Source:** JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T **Volume:** 16 **Pages:** 1272-1282 **DOI:** 10.1016/j.jmrt.2021.12.022 **Published:** JAN-FEB 2022

---

#### Record 415 of 1000

**Title:** Comparison of different approaches for numerical modeling of nanofluid subcooled flow boiling and proposing predictive models using artificial neural network

**Author(s):** El Jery, A (El Jery, Atef); Satishkumar, P (Satishkumar, P.); Salman, HM (Salman, Hayder Mahmood); Saeed, SM (Saeed, Shaymaa Majeed); Khedher, KM (Khedher, Khaled Mohamed)

**Source:** PROGRESS IN NUCLEAR ENERGY **Volume:** 156 **Article Number:** 104540 **DOI:** 10.1016/j.pnucene.2022.104540 **Early Access Date:** DEC 2022 **Published:** FEB 2023

---

#### Record 416 of 1000

**Title:** A comprehensive study on structural, magnetic and dielectric properties of Ni<sub>0.3</sub> Cu<sub>0.3</sub> Zn<sub>0.4</sub> Fe<sub>1.8</sub> Cr<sub>0.2</sub> O<sub>4</sub> nanoparticles synthesized by sol-gel auto combustion route

**Author(s):** Suryawanshi, SM (Suryawanshi, Shrikant M.); Badwaik, DS (Badwaik, Dilip S.); Shinde, BS (Shinde, Bipin S.); Gaikwad, KD (Gaikwad, Kunal D.); Shkir, M (Shkir, Mohd.); Chandekar, KV (Chandekar, Kamlesh V.); Gundale, S (Gundale, Shweta)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1272 **Article Number:** 134173 **DOI:** 10.1016/j.molstruc.2022.134173 **Early Access Date:** SEP 2022 **Published:** JAN 15 2023

---

#### Record 417 of 1000

**Title:** In depth thermokinetic investigation on Co-pyrolysis of low-rank coal and algae consortium blends over CeO<sub>2</sub> loaded hydrotalcite (MgNiAl) catalyst

**Author(s):** Khan, WU (Khan, Waqar Ul Habib); Khoja, AH (Khoja, Asif Hussain); Gohar, H (Gohar, Hamad); Naqvi, SR (Naqvi, Salman Raza); Din, IU (Din, Israf Ud); Lumbers, B (Lumbers, Brock); Salem, MA (Salem, Mohamed A.); Alzahrani, AY (Alzahrani, Abdullah Y.)

**Source:** JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING **Volume:** 10 **Issue:** 5 **Article Number:** 108293 **DOI:** 10.1016/j.jece.2022.108293 **Early Access Date:** JUL 2022 **Published:** OCT 2022

---

#### Record 418 of 1000

**Title:** First-principles calculations to investigate variation in the bandgap of NaSrF<sub>3</sub> Fluoro-Perovskite with external static isotropic pressure and its Impact on optical properties

**Author(s):** Usman, M (Usman, Muhammad); Rehman, JU (Rehman, Jalil Ur); Tahir, MB (Tahir, M. Bilal); Hussain, A (Hussain, Abid); Sagir, M (Sagir, Muhammad); Assiri, MA (Assiri, Mohammed A.); Imran, M (Imran, Muhammad); Alzaid, M (Alzaid, Meshal); Alrobei, H (Alrobei, Hussein)

**Source:** COMPUTATIONAL AND THEORETICAL CHEMISTRY **Volume:** 1214 **Article Number:** 113766 **DOI:** 10.1016/j.comptc.2022.113766 **Early Access Date:** JUN 2022 **Published:** AUG 2022

---

#### Record 419 of 1000

**Title:** Recent advances in multifunctional nanomaterials for photothermal-enhanced Fenton-based chemodynamic tumor therapy

**Author(s):** Manivasagan, P (Manivasagan, Panchanathan); Joe, A (Joe, Ara); Han, HW (Han, Hyo-Won); Thambi, T (Thambi, Thavasyappan); Selvaraj, M (Selvaraj, Manickam); Chidambaram, K (Chidambaram, Kumarappan); Kim, J (Kim, Jungbae); Jang, ES (Jang, Eue-Soon)

**Source:** MATERIALS TODAY BIO **Volume:** 13 **Article Number:** 100197 **DOI:** 10.1016/j.mtbio.2021.100197 **Early Access Date:** JAN 2022 **Published:** JAN 2022

---

#### Record 420 of 1000

**Title:** Hexagon and network structured organic geometrical isomers with distinct intramolecular H-bonding and stimuli-induced self-reversible fluorescence switching

**Author(s):** Gayathri, P (Gayathri, Parthasarathy); Ravi, S (Ravi, Sasikala); Karthikeyan, S (Karthikeyan, Subramanian); Pannipara, M (Pannipara, Mehboobali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Moon, D (Moon, Dohyun); Anthony, SP (Anthony, Savarimuthu Philip)

**Source:** CRYSTENGCOMM **Volume:** 25 **Issue:** 3 **Pages:** 460-466 **DOI:** 10.1039/d2ce01361d **Early Access Date:** DEC 2022 **Published:** JAN 16 2023

---

#### Record 421 of 1000

**Title:** Synthesis of Gold Nanoparticles and Their Reduced Graphene Oxide Nanocomposites Through a Simplified Approach and Assessment of Their Bactericidal Potential

**Author(s):** Anjum, S (Anjum, Sadia); Al-Abbosh, K (Al-Abbosh, Khulood); Saeed, M (Saeed, Mohd); Ahmed, T (Ahmed, Tahir); Ahmad, I (Ahmad, Irfan); Alsharaeh, EH (Alsharaeh, Edreese H.)

**Source:** SCIENCE OF ADVANCED MATERIALS **Volume:** 14 **Issue:** 8 **Pages:** 1361-1368 **DOI:** 10.1166/sam.2022.4332 **Published:** AUG 2022

---

#### Record 422 of 1000

**Title:** Synthesis of Functionalized *N*-(4-Bromophenyl)furan-2-carboxamides via Suzuki-Miyaura Cross-Coupling: Anti-Bacterial Activities against Clinically Isolated Drug Resistant *A. baumannii*, *K. pneumoniae*, *E. cloacae* and MRSA and Its Validation via a Computational Approach

**Author(s):** Siddiq, A (Siddiq, Ayesha); Zubair, M (Zubair, Muhammad); Bilal, M (Bilal, Muhammad); Rasool, N (Rasool, Nasir); Qamar, MU (Qamar, Muhammad Usman); Khalid, A (Khalid, Aqsa); Ahmad, G (Ahmad, Gulraiz);

Imran, M (Imran, Muhammad); Mahmood, S (Mahmood, Sajid); Ashraf, GA (Ashraf, Ghulam Abbas)

**Source:** PHARMACEUTICALS **Volume:** 15 **Issue:** 7 **Article Number:** 841 **DOI:** 10.3390/ph15070841 **Published:** JUL 2022

---

#### **Record 423 of 1000**

**Title:** A Low-Cost Device for Measurement of Exhaled Breath for the Detection of Obstructive Lung Disease

**Author(s):** Shahzad, AA (Shahzad, Adil Ahmad); Mushtaq, S (Mushtaq, Shafaq); Waris, A (Waris, Asim); Gilani, SO (Gilani, Syed Omer); Alnuwaiser, MA (Alnuwaiser, Maha Abdallah); Jameel, M (Jameel, Mohammed); Khan, NB (Khan, Niaz Bahadur)

**Source:** BIOSENSORS-BASEL **Volume:** 12 **Issue:** 6 **Article Number:** 409 **DOI:** 10.3390/bios12060409 **Published:** JUN 2022

---

#### **Record 424 of 1000**

**Title:** RETRACTED: Efficacy of Various Types of Berries Extract for the Synthesis of ZnO Nanocomposites and Exploring Their Antimicrobial Potential for Use in Herbal Medicines (Retracted Article)

**Author(s):** Dar, A (Dar, Amara); Rehman, R (Rehman, Rabia); Mohyuddin, A (Mohyuddin, Ayesha); Aziz, M (Aziz, Maria); Anwar, J (Anwar, Jamil); Tadele, G (Tadele, Gashew); Kadhim, NM (Kadhim, Noor Mohammed); Alamri, AH (Alamri, Ali H.); Alzhrani, RM (Alzhrani, Rami M.)

**Source:** BIOMED RESEARCH INTERNATIONAL **Volume:** 2022 **Article Number:** 9914173 **DOI:** 10.1155/2022/9914173 **Published:** AUG 16 2022

---

#### **Record 425 of 1000**

**Title:** Uncertainty Analysis in Receptor Model with Sources Identification and Risks Apportionment of Toxic Metal(oid)s in Agricultural Soils Around Industrial Areas in Bangladesh

**Author(s):** Proshad, R (Proshad, Ram); Islam, M (Islam, Maksudul); Idris, AM (Idris, Abubakr Mustafa)

**Source:** WATER AIR AND SOIL POLLUTION **Volume:** 233 **Issue:** 8 **Article Number:** 335 **DOI:** 10.1007/s11270-022-05780-w **Published:** AUG 2022

---

#### **Record 426 of 1000**

**Title:** Design, Synthesis, and Anti-mycobacterial Evaluation of New 3,5-Disubstituted-pyrazole-1-carbothioamides

**Author(s):** Wong, KT (Wong, Kok Tong); Osman, H (Osman, Hasnah); Parumasivam, T (Parumasivam, Thaigarajan); Abd Ghani, MS (Abd Ghani, Muhammad Solehin); Hassan, MZ (Hassan, Mohd Zaheen); Supratman, U (Supratman, Unang); Taib, MNAM (Taib, Mohamad Nurul Azmi Mohamad)

**Source:** INDONESIAN JOURNAL OF CHEMISTRY **Volume:** 22 **Issue:** 3 **Pages:** 703-713 **DOI:** 10.22146/ijc.70243 **Published:** AUG 2022

---

#### **Record 427 of 1000**

**Title:** Efficient adsorptive removal of industrial dye from aqueous solution by synthesized zeolitic imidazolate framework-8 loaded date seed activated carbon and statistical physics modeling

**Author(s):** Al-Hazmi, GAA (Al-Hazmi, Gamil A. A.); El-Bindary, MA (El-Bindary, Mohamed A.); El-Desouky, MG (El-Desouky, Mohamed G.); El-Bindary, AA (El-Bindary, Ashraf A.)

**Source:** DESALINATION AND WATER TREATMENT **Volume:** 258 **Pages:** 85-103 **DOI:** 10.5004/dwt.2022.28397 **Published:** MAY 2022

---

#### **Record 428 of 1000**

**Title:** First example of vinylbenzene based small photovoltaic molecules: Towards the development of efficient D- $\pi$ -A configured optoelectronic materials for bulk heterojunction solar cells

**Author(s):** Mehboob, MY (Mehboob, Muhammad Yasir); Khan, MU (Khan, Muhammad Usman); Hussain, R (Hussain, Riaz); Khalid, M (Khalid, Muhammad); Yaqoob, J (Yaqoob, Junaid); Rehman, R (Rehman, Rafia); Siddique, MBA (Siddique, Muhammad Bilal Ahmed); Alam, MM (Alam, Mohammed Mujahid); Imran, M (Imran, Muhammad); Ayub, K (Ayub, Khurshid)

**Source:** PHYSICA B-CONDENSED MATTER **Volume:** 633 **Article Number:** 413769 **DOI:** 10.1016/j.physb.2022.413769 **Early Access Date:** FEB 2022 **Published:** MAY 15 2022

---

#### **Record 429 of 1000**

**Title:** GAMMA SPECTROMETRY AND NEUTRON ACTIVATION ANALYSIS OF TOOT OILFIELD WELLS OF DATTA FORMATION, UPPER INDUS BASIN, DISTRICT ATTOCK, PUNJAB, PAKISTAN

**Author(s):** Shah, ZH (Shah, Zawwar Hussain); Siddique, N (Siddique, Naila); Wazir, Z (Wazir, Zafar); Batool, N (Batool, Nafeesa); Nusrat, M (Nusrat, Muhammad); Somaily, HH (Somaily, Hamoud H.)

**Source:** RADIATION PROTECTION DOSIMETRY **Volume:** 198 **Issue:** 1-2 **Pages:** 86-99 **DOI:** 10.1093/rpd/ncab195 **Published:** FEB 18 2022

---

#### Record 430 of 1000

**Title:** Iron-doped cobalt oxide nanoarray for efficient electrocatalytic nitrate-to-ammonia conversion

**Author(s):** Wei, PP (Wei, Peipei); Liang, J (Liang, Jie); Liu, Q (Liu, Qian); Xie, LS (Xie, Lisi); Tong, X (Tong, Xin); Ren, YC (Ren, Yuchun); Li, TS (Li, Tingshuai); Luo, YS (Luo, Yongsong); Li, N (Li, Na); Tang, B (Tang, Bo); Asiri, AM (Asiri, Abdullah M.); Hamdy, MS (Hamdy, Mohamed S.); Kong, QQ (Kong, Qingquan); Wang, ZM (Wang, Zhiming); Sun, XP (Sun, Xuping)

**Source:** JOURNAL OF COLLOID AND INTERFACE SCIENCE **Volume:** 615 **Pages:** 636-642 **DOI:** 10.1016/j.jcis.2022.01.186 **Early Access Date:** FEB 2022 **Published:** JUN 2022

---

#### Record 431 of 1000

**Title:** Structural, dielectric, and magnetic properties of CaBaCo<sub>2-x</sub>Zn<sub>x</sub>Nd<sub>y</sub>Fe<sub>12-y</sub>O<sub>22</sub> Y-type hexaferrites (vol 33, pg 6294, 2022)

**Author(s):** Nadeem, M (Nadeem, Muhammad); Khan, HM (Khan, Hasan M.); Buzdar, SA (Buzdar, Saeed Ahmad); Ahmed, J (Ahmed, Javed); Assiri, MA (Assiri, Mohammed A.); Imran, M (Imran, Muhammad); Mazhar, ME (Mazhar, Mohammad Ehsan); Nisa, M (Nisa, Mehrun); Raza, MA (Raza, Muhammad Ahsan); Raza, B (Raza, Binish); Jamshed, M (Jamshed, Mohammad)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 33 **Issue:** 17 **Pages:** 14334-14334 **DOI:** 10.1007/s10854-022-08373-9 **Early Access Date:** MAY 2022 **Published:** JUN 2022

---

#### Record 432 of 1000

**Title:** Microscale Thermophoresis and Molecular Modelling to Explore the Chelating Drug Transportation in the Milk to Infant

**Author(s):** Asmari, M (Asmari, Mufarreh); Waqas, M (Waqas, Muhammad); Ibrahim, AE (Ibrahim, Adel Ehab); Halim, SA (Halim, Sobia Ahsan); Khan, A (Khan, Ajmal); Al-Harrasi, A (Al-Harrasi, Ahmed); Wätzig, H (Wätzig, Hermann); El Deeb, S (El Deeb, Sami)

**Source:** MOLECULES **Volume:** 27 **Issue:** 14 **Article Number:** 4604 **DOI:** 10.3390/molecules27144604 **Published:** JUL 2022

---

#### Record 433 of 1000

**Title:** Amalgamation, scrutinizing, and biological evaluation of the antimicrobial aptitude of thiosemicarbazide Schiff bases derivatives metal complexes

**Author(s):** Pervaiz, M (Pervaiz, Muhammad); Munir, A (Munir, Anfal); Riaz, A (Riaz, Aqsa); Saeed, Z (Saeed, Zohaib); Younas, U (Younas, Umer); Imran, M (Imran, Muhammad); Ullah, S (Ullah, Sami); Bashir, R (Bashir, Rashida); Rashid, A (Rashid, Ayoub); Adnan, A (Adnan, Ahmad)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 141 **Article Number:** 109459 **DOI:** 10.1016/j.inoche.2022.109459 **Early Access Date:** MAY 2022 **Published:** JUL 2022

---

#### Record 434 of 1000

**Title:** Verapamil attenuates oxidative stress and inflammatory responses in cigarette smoke (CS)-induced murine models of acute lung injury and CSE-stimulated RAW 264.7 macrophages via inhibiting the NF- $\kappa$ B pathway

**Author(s):** Wu, XM (Wu, Ximei); Hussain, M (Hussain, Musaddique); Syed, SK (Syed, Shahzada Khurram); Saadullah, M (Saadullah, Malik); Alqahtani, AM (Alqahtani, Ali M.); Alqahtani, T (Alqahtani, Taha); Aldahish, A (Aldahish, Afaf); Fatima, M (Fatima, Mobeen); Shaukat, S (Shaukat, Saira); Hussain, L (Hussain, Liaqat); Jamil, Q (Jamil, Quratulain); Mukhtar, I (Mukhtar, Imran); Khan, KUR (Khan, Kashif-Ur-Rehman); Zeng, LH (Zeng, Ling-Hui)

**Source:** BIOMEDICINE & PHARMACOTHERAPY **Volume:** 149 **Article Number:** 112783 **DOI:** 10.1016/j.biopha.2022.112783 **Early Access Date:** MAR 2022 **Published:** MAY 2022

---

#### Record 435 of 1000

**Title:** Investigations to Explore Molecular Interactions and Sweetness Response of Polyhydroxy Compounds with Amino Acids in Aqueous Systems

**Author(s):** Jamal, MA (Jamal, Muhammad Asghar); Shahazidy, U (Shahazidy, Uzma); Al-Saeed, FA (Al-Saeed, Fatimah A.); Al Syaad, KM (Al Syaad, Khalid M.); Muneer, M (Muneer, Majid); Ahmed, I (Ahmed, Ikram); Ahmed, AE (Ahmed, Ahmed Ezzat)

**Record 436 of 1000**

**Title:** The dynamic modeling and the exergy assessment of hydrogen synthesise and storage system with the power-to-gas concept for various locations

**Author(s):** Liu, BZ (Liu, Bingzhi); Feng, L (Feng, Li); Ayed, H (Ayed, Hamdi); Mouldi, A (Mouldi, Abir); Marzouki, R (Marzouki, Riadh)

**Source:** INTERNATIONAL JOURNAL OF HYDROGEN ENERGY **Volume:** 47 **Issue:** 62 **Pages:** 26000-26012 **DOI:** 10.1016/j.ijhydene.2022.03.187 **Published:** JUL 22 2022

---

**Record 437 of 1000**

**Title:** TiO<sub>2</sub> quantum dots: Energy consumption cost, germination, and phytotoxicity studies, recycling photo and solar catalytic processes of reactive yellow 145 dye and natural industrial wastewater

**Author(s):** Mohamed, WAA (Mohamed, Walied A. A.); El-Gawad, HHA (El-Gawad, Hala H. Abd); Handal, HT (Handal, Hala T.); Galal, HR (Galal, Hoda R.); Mousa, HA (Mousa, Hanan A.); Elsayed, BA (Elsayed, Badr A.); Labib, AA (Labib, Ammar A.); Abdel-Mottaleb, MSA (Abdel-Mottaleb, M. S. A.)

**Source:** ADVANCED POWDER TECHNOLOGY **Volume:** 34 **Issue:** 1 **Article Number:** 103923 **DOI:** 10.1016/j.appt.2022.103923 **Early Access Date:** DEC 2022 **Published:** JAN 2023

---

**Record 438 of 1000**

**Title:** Numerical assessment of the nanocomposite sector annular plates with the aim of promoting their mixed-form thermal shock response

**Author(s):** Amari, A (Amari, Abdelfattah); Mohammed, BA (Mohammed, Bassam A.); Salman, HM (Salman, Hayder Mahmood); Lagos, JM (Lagos, Jose Manuel)

**Source:** ENGINEERING ANALYSIS WITH BOUNDARY ELEMENTS **Volume:** 146 **Pages:** 483-499 **DOI:** 10.1016/j.enganabound.2022.10.031 **Early Access Date:** NOV 2022 **Published:** JAN 2023

---

**Record 439 of 1000**

**Title:** Stability of Inhaled Ciprofloxacin-Loaded Poly(2-ethyl-2-oxazoline) Nanoparticle Dry Powder Inhaler Formulation in High Stressed Conditions

**Author(s):** Sabuj, MZR (Sabuj, Mohammad Zaidur Rahman); Rashid, MA (Rashid, Md Abdur); Dargaville, TR (Dargaville, Tim R.); Islam, N (Islam, Nazrul)

**Source:** PHARMACEUTICALS **Volume:** 15 **Issue:** 10 **Article Number:** 1223 **DOI:** 10.3390/ph15101223 **Published:** OCT 2022

---

**Record 440 of 1000**

**Title:** Rice Straw as Green Waste in a HTiO<sub>2</sub>@AC/SiO<sub>2</sub> Nanocomposite Synthesized as an Adsorbent and Photocatalytic Material for Chlorpyrifos Removal from Aqueous Solution

**Author(s):** El Shahawy, A (El Shahawy, Abeer); Al-Mhyawi, SR (Al-Mhyawi, Saedah R.); Mubarak, MF (Mubarak, Mahmoud F.); Mousa, AE (Mousa, Abdullah E.); Ragab, AH (Ragab, Ahmed H.)

**Source:** CATALYSTS **Volume:** 12 **Issue:** 7 **Article Number:** 714 **DOI:** 10.3390/catal12070714 **Published:** JUL 2022

---

**Record 441 of 1000**

**Title:** First-principles investigations of metal chalcogenides Tl<sub>2</sub>Hg<sub>3</sub>X<sub>4</sub> (X=S,Se,Te) for advanced optoelectronic and thermoelectric applications

**Author(s):** Khan, W (Khan, Wilayat); Din, HU (Din, H. U.); Azam, S (Azam, Sikander); Neffati, R (Neffati, R.)

**Source:** JOURNAL OF SOLID STATE CHEMISTRY **Volume:** 312 **Article Number:** 123199 **DOI:** 10.1016/j.jssc.2022.123199 **Early Access Date:** MAY 2022 **Published:** AUG 2022

---

**Record 442 of 1000**

**Title:** Recent Advances in Electrochemical Sensing of Hydrogen Peroxide (H<sub>2</sub>O<sub>2</sub>) Released from Cancer Cells

**Author(s):** Ahmad, T (Ahmad, Touqeer); Iqbal, A (Iqbal, Ayesha); Halim, SA (Halim, Sobia Ahsan); Uddin, J (Uddin, Jalal); Khan, A (Khan, Ajmal); El Deeb, S (El Deeb, Sami); Al-Harrasi, A (Al-Harrasi, Ahmed)

**Source:** NANOMATERIALS **Volume:** 12 **Issue:** 9 **Article Number:** 1475 **DOI:** 10.3390/nano12091475 **Published:** MAY 2022

---

#### Record 443 of 1000

**Title:** Ternary hybrid nanofluid near a stretching/shrinking sheet with heat generation/absorption and velocity slip on unsteady stagnation point flow

**Author(s):** Mahmood, Z (Mahmood, Zafar); Ahammad, NA (Ahammad, N. Ameer); Alhazmi, SE (Alhazmi, Sharifah E.); Khan, U (Khan, Umar); Bani-Fwaz, MZ (Bani-Fwaz, Mutasem Z.)

**Source:** INTERNATIONAL JOURNAL OF MODERN PHYSICS B **Volume:** 36 **Issue:** 29 **DOI:** 10.1142/S0217979222502095 **Early Access Date:** AUG 2022 **Published:** NOV 20 2022

---

#### Record 444 of 1000

**Title:** Investigations on spectroscopic, ADMET properties and drug-likeness, molecular docking, chemical properties of (2E)-3-(biphenyl-4-yl)-1-(2,4-dichlorophenyl)-prop-2-en-1-one by combined density-functional theory

**Author(s):** Thamarai, A (Thamarai, A.); Vadamar, R (Vadamar, R.); Kumaran, S (Kumaran, S.); Ramesh, P (Ramesh, P.); Muthu, S (Muthu, S.); Aayisha, S (Aayisha, S.); Raja, M (Raja, M.); Narayana, B (Narayana, B.); Irfan, A (Irfan, Ahmad)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1262 **Article Number:** 132973 **DOI:** 10.1016/j.molstruc.2022.132973 **Early Access Date:** APR 2022 **Published:** AUG 15 2022

---

#### Record 445 of 1000

**Title:** Simultaneous effect of thermal shock and prebuckling loads on the exact coupled thermoelasticity response of the nanocomposite-reinforced sandwich sector system

**Author(s):** El Jery, A (El Jery, Atef); Al-Bahrani, M (Al-Bahrani, Mohammed); Alatba, SR (Alatba, Sura Rahim); Fraga, M (Fraga, Marcela)

**Source:** MECHANICS OF ADVANCED MATERIALS AND STRUCTURES **DOI:** 10.1080/15376494.2022.2162642 **Early Access Date:** DEC 2022

---

#### Record 446 of 1000

**Title:** High-Efficiency Ammonia Electrosynthesis on Anatase TiO<sub>2-x</sub> Nanobelt Arrays with Oxygen Vacancies by Selective Reduction of Nitrite

**Author(s):** Ren, ZF (Ren, Zhaofei); Chen, QY (Chen, Qiuyue); An, XG (An, Xuguang); Liu, Q (Liu, Qian); 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:** INORGANIC CHEMISTRY **Volume:** 61 **Issue:** 32 **Pages:** 12895-12902 **DOI:** 10.1021/acs.inorgchem.2c02173 **Early Access Date:** AUG 2022 **Published:** AUG 15 2022

---

#### Record 447 of 1000

**Title:** Enhanced Room Temperature Ammonia Gas Sensing Properties of Fe-Doped MoO<sub>3</sub> Thin Films Fabricated Using Nebulizer Spray Pyrolysis

**Author(s):** Alkallas, FH (Alkallas, Fatemah H.); Trabelsi, AB (Trabelsi, Amira Ben Gouider); Shkir, M (Shkir, Mohd); AlFaify, S (AlFaify, Salem)

**Source:** NANOMATERIALS **Volume:** 12 **Issue:** 16 **Article Number:** 2797 **DOI:** 10.3390/nano12162797 **Published:** AUG 2022

---

#### Record 448 of 1000

**Title:** Pilot Study of Trace Elements in the Infusion of Medicinal Plants Used for Diabetes Treatment

**Author(s):** Brima, EI (Brima, Eid, I); Siddeeg, SM (Siddeeg, Saifeldin M.)

**Source:** INTERNATIONAL JOURNAL OF ANALYTICAL CHEMISTRY **Volume:** 2022 **Article Number:** 3021396 **DOI:** 10.1155/2022/3021396 **Published:** APR 18 2022

---

#### Record 449 of 1000

**Title:** Structural, dielectric, and magnetic properties of CaBaCo<sub>2-x</sub>Zn<sub>x</sub>Nd<sub>y</sub>Fe<sub>12-y</sub>O<sub>22</sub> Y-type hexaferrites

**Author(s):** Nadeem, M (Nadeem, Muhammad); Khan, HM (Khan, Hasan M.); Buzdar, SA (Buzdar, Saeed Ahmad); Ahmed, J (Ahmed, Javed); Assiri, MA (Assiri, Mohammed A.); Imran, M (Imran, Muhammad); Mazhar, ME (Mazhar, Mohammad Ehsan); Nisa, M (Nisa, Mehrun); Raza, ME (Raza, Mohammad Ehsan); Raza, B (Raza, Benish); Jamshed, M (Jamshed, Mohammad)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 33 **Issue:** 9 **Pages:** 6294-6306 **DOI:** 10.1007/s10854-022-07804-x **Early Access Date:** FEB 2022 **Published:** MAR 2022

---

**Record 450 of 1000**

**Title:** FRACTIONAL POWER SERIES APPROACH FOR THE SOLUTION OF FRACTIONAL-ORDER INTEGRO-DIFFERENTIAL EQUATIONS

**Author(s):** Akbar, M (Akbar, Muhammad); Nawaz, R (Nawaz, Rashid); Ahsan, S (Ahsan, Sumbal); Nisar, KS (Nisar, Kottakkaran Sooppy); Shah, K (Shah, Kamal); Mahmoud, EE (Mahmoud, Emad E.); Alqarni, MM (Alqarni, M. M.)

**Source:** FRACTALS-COMPLEX GEOMETRY PATTERNS AND SCALING IN NATURE AND SOCIETY **Volume:** 30 **Issue:** 01 **Article Number:** 2240016 **DOI:** 10.1142/S0218348X22400163 **Published:** FEB 2022

---

**Record 451 of 1000**

**Title:** Cu nanoparticles decorated juncus-derived carbon for efficient electrocatalytic nitrite-to-ammonia conversion

**Author(s):** Ouyang, L (Ouyang, Ling); Yue, LC (Yue, Luchao); Liu, Q (Liu, Qin); Liu, Q (Liu, Qian); Li, ZR (Li, Zerong); Sun, SJ (Sun, Shengjun); Luo, YS (Luo, Yongsong); Alshehri, AA (Alshehri, Abdulmohsen Ali); Hamdy, MS (Hamdy, Mohamed S.); Kong, QQ (Kong, Qingquan); Sun, XP (Sun, Xuping)

**Source:** JOURNAL OF COLLOID AND INTERFACE SCIENCE **Volume:** 624 **Pages:** 394-399 **DOI:** 10.1016/j.jcis.2022.05.119 **Early Access Date:** JUN 2022 **Published:** OCT 15 2022

---

**Record 452 of 1000**

**Title:** Electronic properties (in different solvents), spectroscopic progression and evaluation on 4-morpholinepropane sulfonic acid along with molecular docking analysis

**Author(s):** Sangeetha, P (Sangeetha, P.); Mullainathan, S (Mullainathan, S.); Muthu, S (Muthu, S.); Irfan, A (Irfan, Ahmad); Sevvanthi, S (Sevvanthi, S.); Asif, FB (Asif, Fazilath Basha)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 349 **Article Number:** 118107 **DOI:** 10.1016/j.molliq.2021.118107 **Early Access Date:** FEB 2022 **Published:** MAR 1 2022

---

**Record 453 of 1000**

**Title:** Prediction of novel ionic liquids' surface tension via Bagging KNN predictive model: Modeling and simulation

**Author(s):** Alshahrani, SM (Alshahrani, Saad M.); Uddin, J (Uddin, Jalal); Yasmin, S (Yasmin, Sabina); Alshehri, S (Alshehri, Sameer); Alsubaiyel, AM (Alsubaiyel, Amal M.)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 368 **Article Number:** 120748 **DOI:** 10.1016/j.molliq.2022.120748 **Early Access Date:** NOV 2022 **Published:** DEC 15 2022

---

**Record 454 of 1000**

**Title:** High performance of the rare earth (Er, Gd & Pr) doped MoO<sub>3</sub> thin films for advanced applications towards ammonia gas sensing

**Author(s):** Shkir, M (Shkir, Mohd.); Trabelsi, AB (Trabelsi, Amira Ben Gouider); Alkallas, FH (Alkallas, Fatemah H.); AlFaify, S (AlFaify, S.)

**Source:** JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T **Volume:** 20 **Pages:** 4556-4565 **DOI:** 10.1016/j.jmrt.2022.08.144 **Early Access Date:** SEP 2022 **Published:** SEP-OCT 2022

---

**Record 455 of 1000**

**Title:** Highly efficient indoor/outdoor light harvesting luminescent solar concentrator employing aggregation-induced emissive fluorophore

**Author(s):** Mateen, F (Mateen, Fahad); Meti, P (Meti, Puttavva); Hwang, DY (Hwang, Do-Yeon); Swelm, W (Swelm, Wageh); Gharni, H (Gharni, Hamid); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Kim, YC (Kim, Young-Chang); Gong, YD (Gong, Young-Dae); Hong, SK (Hong, Sung-Kyu)

**Source:** DYES AND PIGMENTS **Volume:** 205 **Article Number:** 110563 **DOI:** 10.1016/j.dyepig.2022.110563 **Early Access Date:** JUL 2022 **Published:** SEP 2022

---

**Record 456 of 1000**

**Title:** Rotating radial vibrations in human bones (femoral, mandibular and tibia) and crystals (Mg, Co, Cd, Zn and beryl) made cylindrical shell under magnetic field and hydrostatic stress

**Author(s):** Alam, P (Alam, Parvez); Nahid, T (Nahid, Tabinda); Al Alwan, B (Al Alwan, Basem); Saha, A (Saha, Anup)

**Source:** MECHANICS OF ADVANCED MATERIALS AND STRUCTURES **Volume:** 30 **Issue:** 13 **Pages:** 2684-2700 **DOI:** 10.1080/15376494.2022.2062499 **Early Access Date:** APR 2022 **Published:** JUL 3 2023

---

**Record 457 of 1000**

**Title:** Critical role of nitric oxide in impeding COVID-19 transmission and prevention: a promising possibility



**Author(s):** Rajendran, R (Rajendran, Rajalakshmi); Chathambath, A (Chathambath, Anjana); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Pannipara, M (Pannipara, Mehboobali); Unnikrishnan, MK (Unnikrishnan, Mazhuvancherry Kesavan); Aleya, L (Aleya, Lotfi); Raghavan, RP (Raghavan, Roshni Pushpa); Mathew, B (Mathew, Bijo)

**Source:** ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH **Volume:** 29 **Issue:** 26 **Pages:** 38657-38672 **DOI:** 10.1007/s11356-022-19148-4 **Early Access Date:** MAR 2022 **Published:** JUN 2022

---

#### Record 458 of 1000

**Title:** Adsorption of industrial dye onto a zirconium metal-organic framework: synthesis, characterization, kinetics, thermodynamics, and DFT calculations

**Author(s):** Al-Hazmi, GAA (Al-Hazmi, Gamil A. A.); El-Zahhar, AA (El-Zahhar, Adel A.); El-Desouky, MG (El-Desouky, Mohamed G.); El-Bindary, MA (El-Bindary, Mohamed A.); El-Bindary, AA (El-Bindary, Ashraf A.)

**Source:** JOURNAL OF COORDINATION CHEMISTRY **Volume:** 75 **Issue:** 9-10 **Pages:** 1203-1229 **DOI:** 10.1080/00958972.2022.2114349 **Early Access Date:** AUG 2022 **Published:** SEP 22 2022

---

#### Record 459 of 1000

**Title:** Molecular docking evaluation and spectroscopic study of 2-amino-1,4--benzenedisulfonic acid using the IEFPCM model, electronic properties of different solvents

**Author(s):** Sangeetha, P (Sangeetha, P.); Sangeetha, R (Sangeetha, R.); Mullainathan, S (Mullainathan, S.); Irfan, A (Irfan, Ahmad); Sevvanthi, S (Sevvanthi, S.); Muthu, S (Muthu, S.)

**Source:** JOURNAL OF THE INDIAN CHEMICAL SOCIETY **Volume:** 99 **Issue:** 7 **Article Number:** 100543 **DOI:** 10.1016/j.jics.2022.100543 **Early Access Date:** JUN 2022 **Published:** JUL 2022

---

#### Record 460 of 1000

**Title:** Thermophysical improvement of PCM with inclusion of nanoparticles during solidification

**Author(s):** Zhang, YF (Zhang, Ying-Fang); Bhutto, JK (Bhutto, Javed Khan); Barnawi, AB (Barnawi, Abdulwasa Bakr); Saad, HA (Saad, Hosam A.); Musa, A (Musa, Awad)

**Source:** INTERNATIONAL JOURNAL OF MODERN PHYSICS B **Volume:** 37 **Issue:** 13 **DOI:** 10.1142/S0217979223501308 **Early Access Date:** NOV 2022 **Published:** MAY 20 2023

---

#### Record 461 of 1000

**Title:** Exploration of electronic and non-linear optical properties of novel 4-Aryl-2-methylpyridine based compounds synthesized via high-yielding Pd(0) catalysed reaction

**Author(s):** Raouf, A (Raouf, Abdul); Adeel, M (Adeel, Muhammad); Khalid, M (Khalid, Muhammad); Ahmed, A (Ahmed, Adnan); Safdar, K (Safdar, Kamran); Khan, MU (Khan, Muhammad Usman); Assiri, MA (Assiri, Mohammed A.); Imran, M (Imran, Muhammad)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1274 **Article Number:** 134469 **DOI:** 10.1016/j.molstruc.2022.134469 **Early Access Date:** NOV 2022 **Part:** 2 **Published:** FEB 15 2023

---

#### Record 462 of 1000

**Title:** Dissipation rate and exposure risk of trifloxystrobin in dry climatic field environments

**Author(s):** Malhat, F (Malhat, Farag); Saber, E (Saber, El-Sayed); Anagnostopoulos, C (Anagnostopoulos, Chris); Amin, AS (Amin, Alaa Sayed); Abdeen, A (Abdeen, Ahmed); Hussien, M (Hussien, Mohamed); Shokr, SAS (Shokr, Shokr Abdel Salam)

**Source:** JOURNAL OF CONSUMER PROTECTION AND FOOD SAFETY **Volume:** 17 **Issue:** 4 **Pages:** 353-361 **DOI:** 10.1007/s00003-022-01392-y **Early Access Date:** AUG 2022 **Published:** DEC 2022

---

#### Record 463 of 1000

**Title:** Ab-initio study of Nb-based complex materials: A new class of materials for optoelectronic applications

**Author(s):** Abbas, Z (Abbas, Zeesham); Fatima, K (Fatima, Kisa); Jaffery, SHA (Jaffery, Syed Hassan Abbas); Ali, A (Ali, Asif); Raza, HH (Raza, Hafiz Hamid); Muhammad, S (Muhammad, Shabbir); Algarni, H (Algarni, H.); Hussain, S (Hussain, Sajjad); Jung, J (Jung, Jongwan)

**Source:** JOURNAL OF COMPUTATIONAL SCIENCE **Volume:** 63 **Article Number:** 101791 **DOI:** 10.1016/j.jocs.2022.101791 **Early Access Date:** AUG 2022 **Published:** SEP 2022

---

#### Record 464 of 1000

**Title:** A DFT study of electronic, vibrational and optical properties of gold clusters

**Author(s):** Iqbal, T (Iqbal, Tahir); Azam, A (Azam, Amna); Majid, A (Majid, Abdul); Zafar, M (Zafar, Maria); Shafiq, M (Shafiq, Muhammad); Ullah, S (Ullah, Sami); Hussien, M (Hussien, Mohamed)

**Source:** OPTICAL AND QUANTUM ELECTRONICS **Volume:** 54 **Issue:** 2 **Article Number:** 74 **DOI:** 10.1007/s11082-021-03446-1 **Published:** FEB 2022

---

#### Record 465 of 1000

**Title:** Mechanical Performance of Geopolymer Composites Containing Nano-Silica and Micro-Carbon Fibers

**Author(s):** Raza, A (Raza, Ali); Khan, QUZ (Khan, Qaiser uz Zaman); Ouni, MHE (Ouni, Mohamed Hechmi El); Brahmia, A (Brahmia, Ameni); Berradia, M (Berradia, Mohammed)

**Source:** ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING **Volume:** 47 **Issue:** 10 **Pages:** 12621-12632 **DOI:** 10.1007/s13369-022-06574-2 **Early Access Date:** FEB 2022 **Published:** OCT 2022

---

#### Record 466 of 1000

**Title:** Hindering the Synchronization Between miR-486-5p and H19 lncRNA by Hesperetin Halts Breast Cancer Aggressiveness Through Tuning ICAM-1

**Author(s):** Abdallah, RM (Abdallah, Ramah M.); Elkhoully, AM (Elkhoully, Aisha M.); Soliman, RA (Soliman, Raghda A.); El Mechawy, N (El Mechawy, Nehad); El Sebaei, A (El Sebaei, Ahmed); Motaal, AA (Motaal, Amira A.); El-Askary, H (El-Askary, Hesham); Youness, RA (Youness, Rana A.); Assal, RA (Assal, Reem A.)

**Source:** ANTI-CANCER AGENTS IN MEDICINAL CHEMISTRY **Volume:** 22 **Issue:** 3 **Pages:** 586-595 **DOI:** 10.2174/1871520621666210419093652 **Published:** 2022

---

#### Record 467 of 1000

**Title:** Porous ZnO/Carbon nanocomposites derived from metal organic frameworks for highly efficient dye-sensitized solar cells

**Author(s):** Vijayanath, S (Vijayanath, S.); Janaki, K (Janaki, K.); Shkir, M (Shkir, Mohd); Reddy, VRM (Reddy, Vasudeva Reddy Minnam); Kim, WK (Kim, Woo Kyoung)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 33 **Issue:** 24 **Pages:** 19573-19585 **DOI:** 10.1007/s10854-022-08793-7 **Early Access Date:** AUG 2022 **Published:** AUG 2022

---

#### Record 468 of 1000

**Title:** Concomitant structural and ferroelectric properties of Sr<sub>2</sub>Bi<sub>4</sub>Ti<sub>5</sub>O<sub>18</sub> ceramics sintered with (K<sub>0.41</sub>Na<sub>0.53</sub>Li<sub>0.06</sub>) (Nb<sub>0.89</sub>Sb<sub>0.06</sub>Ta<sub>0.05</sub>)O<sub>3</sub> perovskit

**Author(s):** Bhimireddi, R (Bhimireddi, Rajasekhar); Sadhu, SPP (Sadhu, Sai Pavan Prashanth); Dhavala, L (Dhavala, Lokeshwararao); Shet, T (Shet, Tukaram); Kundu, S (Kundu, Swarup); Ansari, AA (Ansari, Anees A.); Manthrammel, MA (Manthrammel, M. Aslam); AlFaify, S (AlFaify, S.)

**Source:** JOURNAL OF SOLID STATE CHEMISTRY **Volume:** 309 **Article Number:** 122959 **DOI:** 10.1016/j.jssc.2022.122959 **Early Access Date:** FEB 2022 **Published:** MAY 2022

---

#### Record 469 of 1000

**Title:** Significance of thermal stress in a convective- radiative annular fin with magnetic field and heat generation: application of DTM and MRPSM

**Author(s):** Sowmya, G (Sowmya, Ganeshappa); Gamaoun, F (Gamaoun, Fehmi); Abdulrahman, A (Abdulrahman, Amal); Kumar, RSV (Kumar, Ravikumar Shashikala Varun); Prasannakumara, BC (Prasannakumara, Ballajja Chandrappa)

**Source:** PROPULSION AND POWER RESEARCH **Volume:** 11 **Issue:** 4 **Pages:** 527-543 **DOI:** 10.1016/j.jppr.2022.11.001 **Published:** DEC 2022

---

#### Record 470 of 1000

**Title:** Ovipositional response of *Antilochus coquebertii* and *Dysdercus koenigii* in different media under controlled conditions

**Author(s):** Shah, SIA (Shah, Syed Ishfaq Ali); Saeed, R (Saeed, Rabia); Jaleel, W (Jaleel, Waqar); Sarwar, ZM (Sarwar, Zahid Mahmood); Azad, R (Azad, Rashid); Akbar, R (Akbar, Rasheed); Jan, MT (Jan, Muhammad Tahir); Ghramh, HA (Ghramh, Hamed A.); AL-Shehri, BM (AL-Shehri, Badria M.); Ahmad, Z (Ahmad, Zubair); Khan, KA (Khan, Khalid Ali); Hussain, S (Hussain, Sabir)

**Source:** JOURNAL OF KING SAUD UNIVERSITY SCIENCE **Volume:** 34 **Issue:** 7 **Article Number:** 102252 **DOI:** 10.1016/j.jksus.2022.102252 **Early Access Date:** AUG 2022 **Published:** OCT 2022

---

**Record 471 of 1000**

**Title:** Two La<sub>0.5</sub>Ag<sub>0.1</sub>Ca<sub>0.4</sub>MnO<sub>3</sub> Manganite Nanoparticles Synthesized via Sol-Gel and Solid-State Methods-Structural, Magnetic, and Magnetocaloric Properties

**Author(s):** Assoudi, N (Assoudi, Nadia); Hajji, M (Hajji, Melek); Walha, I (Walha, Iskander); Bel-Hadj-Tahar, R (Bel-Hadj-Tahar, Radhouane); Dhahri, E (Dhahri, Essebti)

**Source:** JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM **Volume:** 35 **Issue:** 9 **Pages:** 2465-2472 **DOI:** 10.1007/s10948-022-06260-2 **Early Access Date:** MAY 2022 **Published:** SEP 2022

---

**Record 472 of 1000**

**Title:** Aptness of diverse queen cup materials for larval graft acceptance and queen bee emergence in managed honey bee (*Apis mellifera*) colonies

**Author(s):** Lashari, MA (Lashari, Muhammad Akbar); Ghramh, HA (Ghramh, Hamed A.); Ahmed, AM (Ahmed, Agha Mushtaq); Mahmood, R (Mahmood, Rashid); Rafique, MK (Rafique, Muhammad Khalid); Ahmad, S (Ahmad, Saboor); AL-Shehri, BM (AL-Shehri, Badria M.); Mohammed, MEA (Mohammed, Mohammed Elimam Ahamed); Khan, KA (Khan, Khalid Ali)

**Source:** JOURNAL OF KING SAUD UNIVERSITY SCIENCE **Volume:** 34 **Issue:** 4 **Article Number:** 102043 **DOI:** 10.1016/j.jksus.2022.102043 **Early Access Date:** APR 2022 **Published:** JUN 2022

---

**Record 473 of 1000**

**Title:** Development of 2D, 3D-QSAR and Pharmacophore Modeling of Chalcones for the Inhibition of Monoamine Oxidase B

**Author(s):** Mathew, B (Mathew, Bijo); Herrera-Acevedo, C (Herrera-Acevedo, Chonny); Dev, S (Dev, Sanal); Rangarajan, TM (Rangarajan, T. M.); Kuruniyan, MS (Kuruniyan, Mohamed Saheer); Naseef, PP (Naseef, Punnoth Poonkuzhi); Scotti, L (Scotti, Luciana); Scotti, MT (Scotti, Marcus Tullius)

**Source:** COMBINATORIAL CHEMISTRY & HIGH THROUGHPUT SCREENING **Volume:** 25 **Issue:** 10 **Pages:** 1731-1744 **DOI:** 10.2174/1386207324666210816125738 **Published:** 2022

---

**Record 474 of 1000**

**Title:** Preparation and evaluation of high-performance modified alkyd resins based on 1,3,5-tris-(2-hydroxyethyl)cyanuric acid and study of their anticorrosive properties for surface coating applications

**Author(s):** Al-Zahrani, FAM (Al-Zahrani, Fatimah Ali M.); Lin, L (Lin, Long); Abd El-Wahab, H (Abd El-Wahab, Hamada)

**Source:** E-POLYMERS **Volume:** 22 **Issue:** 1 **Pages:** 781-792 **DOI:** 10.1515/epoly-2022-0065 **Published:** SEP 15 2022

---

**Record 475 of 1000**

**Title:** Nanomaterials: A Potential Hope for Life Sciences from Bench to Bedside

**Author(s):** Shinde, MU (Shinde, Mahesh Uttamrao); Patwekar, M (Patwekar, Mohsina); Patwekar, F (Patwekar, Faheem); Bajaber, MA (Bajaber, Majed A.); Medikeri, A (Medikeri, Anuradha); Mohammad, FS (Mohammad, Firdous Sayeed); Mukim, M (Mukim, Mohammad); Soni, S (Soni, Sanjay); Mallick, J (Mallick, Jewel); Jawaid, T (Jawaid, Talha)

**Source:** JOURNAL OF NANOMATERIALS **Volume:** 2022 **Article Number:** 5968131 **DOI:** 10.1155/2022/5968131 **Published:** JUN 30 2022

---

**Record 476 of 1000**

**Title:** Synthesis and Characterization of 2D-WS<sub>2</sub> Incorporated Polyaniline Nanocomposites as Photo Catalyst for Methylene Blue Degradation

**Author(s):** Shahabuddin, S (Shahabuddin, Syed); Mehmood, S (Mehmood, Shahid); Ahmad, I (Ahmad, Irfan); Sridewi, N (Sridewi, Nanthini)

**Source:** NANOMATERIALS **Volume:** 12 **Issue:** 12 **Article Number:** 2090 **DOI:** 10.3390/nano12122090 **Published:** JUN 2022

---

**Record 477 of 1000**

**Title:** A TiO<sub>2-x</sub> nanobelt array with oxygen vacancies: an efficient electrocatalyst toward nitrite conversion to ammonia

**Author(s):** Zhao, DL (Zhao, Donglin); Liang, J (Liang, Jie); Li, J (Li, Jun); Zhang, LC (Zhang, Longcheng); Dong, K (Dong, Kai); Yue, LC (Yue, Luchao); Luo, YS (Luo, Yongsong); Ren, YC (Ren, Yuchun); Liu, Q (Liu, Qian); Hamdy,

MS (Hamdy, Mohamed S.); Li, Q (Li, Quan); Kong, QQ (Kong, Qingquan); Sun, XP (Sun, Xuping)

**Source:** CHEMICAL COMMUNICATIONS **Volume:** 58 **Issue:** 22 **Pages:** 3669-3672 **DOI:** 10.1039/d2cc00856d **Early Access Date:** FEB 2022 **Published:** MAR 15 2022

---

#### **Record 478 of 1000**

**Title:** Recoverable palladium-gold nanocomposite based on microcrystalline cellulose for sono-catalytic degradation of pharmaceutical pollutants

**Author(s):** Al-Ahmed, ZA (Al-Ahmed, Zehbah A.); Al-Hazmi, GAA (Al-Hazmi, Gamil A. A.); Munshi, AM (Munshi, Alaa M.); Alamrani, NA (Alamrani, Nasser A.); Al-Qahtani, SD (Al-Qahtani, Salhah D.); Habeebullah, TM (Habeebullah, Turki M.); El-Metwaly, NM (El-Metwaly, Nashwa M.)

**Source:** MATERIALS CHEMISTRY AND PHYSICS **Volume:** 296 **Article Number:** 127219 **DOI:** 10.1016/j.matchemphys.2022.127219 **Early Access Date:** DEC 2022 **Published:** FEB 15 2023

---

#### **Record 479 of 1000**

**Title:** Synthesis and characterization of new 1,4-dihydropyran derivatives by novel Ta-MOF nanostructures as reusable nanocatalyst with antimicrobial activity

**Author(s):** Ahmad, I (Ahmad, Irfan); Jasim, SA (Jasim, Saade Abdalkareem); Yasin, G (Yasin, Ghulam); Al-Qargholi, B (Al-Qargholi, Basim); Hammid, AT (Hammid, Ali Thaeer)

**Source:** FRONTIERS IN CHEMISTRY **Volume:** 10 **Article Number:** 967111 **DOI:** 10.3389/fchem.2022.967111 **Published:** SEP 27 2022

---

#### **Record 480 of 1000**

**Title:** Assessment of Destructive and Nondestructive Analysis for GGBS Based Geopolymer Concrete and Its Statistical Analysis

**Author(s):** Shilar, FA (Shilar, Fatheali A.); Ganachari, SV (Ganachari, Sharanabasava, V); Patil, VB (Patil, Veerabhadragouda B.); Javed, S (Javed, Syed); Khan, TMY (Khan, T. M. Yunus); Baig, RU (Baig, Rahmath Ulla)

**Source:** POLYMERS **Volume:** 14 **Issue:** 15 **Article Number:** 3132 **DOI:** 10.3390/polym14153132 **Published:** AUG 2022

---

#### **Record 481 of 1000**

**Title:** Enhancing the thermoelectric properties of CZTS thin films grown on multi-crystalline Si substrate by controlling the sulfurization time duration

**Author(s):** Ali, HT (Ali, Hafiz T.); Ashfaq, A (Ashfaq, A.); Hussain, MS (Hussain, M. Sharafat); Mahmood, K (Mahmood, K.); Yusuf, M (Yusuf, Mohammad); Ikram, S (Ikram, Salma); Ali, A (Ali, A.); Amin, N (Amin, N.); Javaid, K (Javaid, K.); Ali, MY (Ali, M. Yasir); Jacob, J (Jacob, J.); Amami, M (Amami, M.)

**Source:** OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS **Volume:** 16 **Issue:** 3-4 **Pages:** 164-168 **Published:** MAR-APR 2022

---

#### **Record 482 of 1000**

**Title:** Coordination behavior, structural, statistical and theoretical investigation of biologically active metal-based isatin compounds

**Author(s):** Sumrra, SH (Sumrra, Sajjad Hussain); Mushtaq, F (Mushtaq, Fazila); Ahmad, F (Ahmad, Fayyaz); Hussain, R (Hussain, Riaz); Zafar, W (Zafar, Wardha); Imran, M (Imran, Muhammad); Zafar, MN (Zafar, Muhammad Naveed)

**Source:** CHEMICAL PAPERS **Volume:** 76 **Issue:** 6 **Pages:** 3705-3727 **DOI:** 10.1007/s11696-022-02123-1 **Early Access Date:** FEB 2022 **Published:** JUN 2022

---

#### **Record 483 of 1000**

**Title:** Experimental investigation of the impact of CeO<sub>2</sub> nanoparticles in Jet-A and Jatropha-SPK blended fuel in an aircraft can-combustor at flight conditions

**Author(s):** Pandey, V (Pandey, Vivek); Badruddin, IA (Badruddin, Irfan Anjum); Terfasa, TT (Terfasa, Tatek Temesgen); Tesfamariam, BB (Tefamariam, Belay Brehane); Ahmed, GMS (Ahmed, Gulam Mohammed Sayeed); Saleel, CA (Saleel, C. Ahamed); Alrobei, H (Alrobei, Hussein)

**Source:** FUEL **Volume:** 317 **Article Number:** 123393 **DOI:** 10.1016/j.fuel.2022.123393 **Early Access Date:** FEB 2022 **Published:** JUN 1 2022

---

#### **Record 484 of 1000**

**Title:** Modelling and parameter optimisation for performance evaluation of sequencing batch reactor for treating hospital wastewater

**Author(s):** Khan, NA (Khan, Nadeem A.); El Morabet, R (El Morabet, Rachida); Khan, RA (Khan, Roohul Abad); Alsubih, M (Alsubih, Majed); Gaurav, GK (Gaurav, Gajendra Kumar); Klemes, JJ (Klemes, Jiri Jaromir); Thakur, AK (Thakur, Amit K.)

**Source:** BIOMASS CONVERSION AND BIOREFINERY **DOI:** 10.1007/s13399-022-03406-z **Early Access Date:** NOV 2022

---

#### **Record 485 of 1000**

**Title:** Synergistic effect of noble metal doping and composite formation to boost the electrochemical properties of vanadium pentoxide

**Author(s):** Munir, S (Munir, Sana); Aadil, M (Aadil, Muhammad); Warsi, MF (Warsi, Muhammad Farooq); Somaily, HH (Somaily, H. H.); Ul Ain, N (Ul Ain, Noor); Shahid, M (Shahid, Muhammad)

**Source:** CERAMICS INTERNATIONAL **Volume:** 48 **Issue:** 22 **Pages:** 33306-33314 **DOI:** 10.1016/j.ceramint.2022.07.273 **Early Access Date:** OCT 2022 **Published:** NOV 15 2022

---

#### **Record 486 of 1000**

**Title:** Correlated stochastic epidemic model for the dynamics of SARS-CoV-2 with vaccination

**Author(s):** Khan, T (Khan, Tahir); Ullah, R (Ullah, Roman); Al Alwan, B (Al Alwan, Basem); El-Khatib, Y (El-Khatib, Youssef); Zaman, G (Zaman, Gul)

**Source:** SCIENTIFIC REPORTS **Volume:** 12 **Issue:** 1 **Article Number:** 16105 **DOI:** 10.1038/s41598-022-20059-0 **Published:** SEP 27 2022

---

#### **Record 487 of 1000**

**Title:** Optimization of Alkaline Activator on the Strength Properties of Geopolymer Concrete

**Author(s):** Shilar, FA (Shilar, Fatheali A.); Ganachari, SV (Ganachari, Sharanabasava V.); Patil, VB (Patil, Veerabhadragouda B.); Khan, TMY (Khan, T. M. Yunus); Javed, S (Javed, Syed); Baig, RU (Baig, Rahmath Ulla)

**Source:** POLYMERS **Volume:** 14 **Issue:** 12 **Article Number:** 2434 **DOI:** 10.3390/polym14122434 **Published:** JUN 2022

---

#### **Record 488 of 1000**

**Title:** Isolation of Thioinosine and Butenolides from a Terrestrial *Actinomyces* sp. GSCW-51 and Their *in Silico* Studies for Potential against SARS-CoV-2

**Author(s):** Nazir, M (Nazir, Mamona); Tousif, MI (Tousif, Muhammad Imran); Khalid, M (Khalid, Muhammad); Parveen, S (Parveen, Shehla); Akhter, N (Akhter, Naseem); Farooq, N (Farooq, Nosheen); Khan, MU (Khan, Muhammad Usman); Mehmood, RF (Mehmood, Rana Farhat); Mahomoodally, MF (Mahomoodally, Mohamad Fawzi); Muhammad, S (Muhammad, Shabbir); Alarfaji, SS (Alarfaji, Saleh S.)

**Source:** CHEMISTRY & BIODIVERSITY **Volume:** 19 **Issue:** 4 **Article Number:** e202100843 **DOI:** 10.1002/cbdv.202100843 **Early Access Date:** MAR 2022 **Published:** APR 2022

---

#### **Record 489 of 1000**

**Title:** Waste biomass based potential bioadsorbent for lead removal from simulated wastewater

**Author(s):** Pal, DB (Pal, Dan Bahadur); Saini, R (Saini, Roli); Srivastava, N (Srivastava, Neha); Ahmad, I (Ahmad, Irfan); Alshahrani, MY (Alshahrani, Mohammad Y.); Gupta, VK (Gupta, Vijai Kumar)

**Source:** BIORESOURCE TECHNOLOGY **Volume:** 349 **Article Number:** 126843 **DOI:** 10.1016/j.biortech.2022.126843 **Early Access Date:** FEB 2022 **Published:** APR 2022

---

#### **Record 490 of 1000**

**Title:** A brief review on the spin valve magnetic tunnel junction composed of 2D materials

**Author(s):** Elahi, E (Elahi, Ehsan); Dastgeer, G (Dastgeer, Ghulam); Sharma, PR (Sharma, Pradeep Raj); Nisar, S (Nisar, Sobia); Suleman, M (Suleman, Muhammad); Iqbal, MW (Iqbal, Muhammad Waqas); Imran, M (Imran, Muhammad); Aslam, M (Aslam, Muhammad); Imran, A (Imran, Ali)

**Source:** JOURNAL OF PHYSICS D-APPLIED PHYSICS **Volume:** 55 **Issue:** 42 **Article Number:** 423001 **DOI:** 10.1088/1361-6463/ac8816 **Published:** OCT 20 2022

---

#### **Record 491 of 1000**

**Title:** New thiadiazol azo disperse dyes derivatives and their application as a colored material for silk screen-printing ink for printing on polyester fabric

**Author(s):** Abdelwahab, H (Abdelwahab, Hamada); Al-Zahrani, FAM (Al-Zahrani, Fatimah A. M.); Ali, AA (Ali, Ali A.); Mahmoud, A (Mahmoud, Ammar); Lin, L (Lin, Long)

**Source:** PIGMENT & RESIN TECHNOLOGY **Volume:** 53 **Issue:** 3 **Pages:** 294-304 **DOI:** 10.1108/PRT-07-2022-0088 **Early Access Date:** SEP 2022 **Published:** MAR 14 2024

---

#### **Record 492 of 1000**

**Title:** Removal of Eosin dye from simulated media onto lemon peel-based low cost biosorbent

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

**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 15 **Issue:** 7 **Article Number:** 103873 **DOI:** 10.1016/j.arabjc.2022.103873 **Published:** JUL 2022

---

#### **Record 493 of 1000**

**Title:** Improvement in ammonia gas sensing properties of Co doped MoO<sub>3</sub> thin films prepared by cost effective nebulizer spray pyrolysis method

**Author(s):** Trabelsi, AB (Trabelsi, Amira Ben Gouider); Alkallas, FH (Alkallas, Fatemah H.); Manthrammel, MA (Manthrammel, M. Aslam); Shkir, M (Shkir, Mohd.); AlFaify, S (AlFaify, S.)

**Source:** RESULTS IN PHYSICS **Volume:** 43 **Article Number:** 106036 **DOI:** 10.1016/j.rinp.2022.106036 **Early Access Date:** OCT 2022 **Published:** DEC 2022

---

#### **Record 494 of 1000**

**Title:** Current advanced drug delivery systems: Challenges and potentialities

**Author(s):** Al Ragib, A (Al Ragib, Abdullah); Chakma, R (Chakma, Rupesh); Dewan, K (Dewan, Kajalika); Islam, T (Islam, Tariqul); Kormoker, T (Kormoker, Tapos); Idris, AM (Idris, Abubakr M.)

**Source:** JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY **Volume:** 76 **Article Number:** 103727 **DOI:** 10.1016/j.jddst.2022.103727 **Published:** OCT 2022

---

#### **Record 495 of 1000**

**Title:** A DFT study of electronic, vibrational and optical properties of gold clusters (vol 54, 74, 2022)

**Author(s):** Iqbal, T (Iqbal, Tahir); Azam, A (Azam, Amna); Majid, A (Majid, Abdul); Zafar, M (Zafar, Maria); Shafiq, M (Shafiq, Muhammad); Ullah, S (Ullah, Sami); Hussien, M (Hussien, Mohamed)

**Source:** OPTICAL AND QUANTUM ELECTRONICS **Volume:** 54 **Issue:** 3 **Article Number:** 193 **DOI:** 10.1007/s11082-022-03536-8 **Published:** MAR 2022

---

#### **Record 496 of 1000**

**Title:** Synthesis and characterization of chitosan-vermiculite-lignin ternary composite as an adsorbent for effective removal of uranyl ions from aqueous solution: Experimental and theoretical analyses

**Author(s):** Senol, ZM (Senol, Zeynep Mine); Kaya, S (Kaya, Savas); Simsek, S (Simsek, Selcuk); Katin, KP (Katin, K. P.); Ozer, A (Ozer, Ali); Marzouki, R (Marzouki, Riadh)

**Source:** INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES **Volume:** 209 **Pages:** 1234-1247 **DOI:** 10.1016/j.ijbiomac.2022.04.128 **Early Access Date:** APR 2022 **Part:** A **Published:** JUN 1 2022

---

#### **Record 497 of 1000**

**Title:** Highly efficient activation of peroxymonosulfate by biomass juncus derived carbon decorated with cobalt nanoparticles for the degradation of ofloxacin

**Author(s):** Yang, Q (Yang, Qin); Yang, YC (Yang, Yingchun); Zhang, YJ (Zhang, Yujie); Zhang, LC (Zhang, Longcheng); Sun, SJ (Sun, Shengjun); Dong, K (Dong, Kai); Luo, YS (Luo, Yongsong); Wu, JY (Wu, Junyou); Kang, XW (Kang, Xiaowen); Liu, Q (Liu, Qian); Hamdy, MS (Hamdy, Mohamed S.); Sun, XP (Sun, Xuping)

**Source:** CHEMOSPHERE **Volume:** 311 **Article Number:** 137020 **DOI:** 10.1016/j.chemosphere.2022.137020 **Early Access Date:** OCT 2022 **Part:** 1 **Published:** JAN 2023

---

#### **Record 498 of 1000**

**Title:** Effective degradation of chloramphenicol in wastewater by activated peroxymonosulfate with Fe-rich porous biochar derived from petrochemical sludge

**Author(s):** Qian, LA (Qian, Lina); Yan, S (Yan, Su); Yong, XY (Yong, Xiaoyu); Selvaraj, M (Selvaraj, Manickam); Ghramh, HA (Ghramh, Hamed A.); Assiri, MA (Assiri, Mohammed A.); Zhang, XY (Zhang, Xueying); Awasthi, MK (Awasthi, Mukesh Kumar); Zhou, J (Zhou, Jun)

**Source:** CHEMOSPHERE **Volume:** 310 **Article Number:** 136839 **DOI:** 10.1016/j.chemosphere.2022.136839 **Early Access Date:** OCT 2022 **Published:** JAN 2023

---

#### Record 499 of 1000

**Title:** I-V, dielectric, antibacterial, and robust EMI shielding effectiveness properties of graphene/Fe<sub>3</sub>O<sub>4</sub>

**Author(s):** Ali, MD (Ali, Muhammad Danish); Aslam, A (Aslam, Ammara); Haider, MA (Haider, Malik Asim); Aftab, ZEH (Aftab, Zill e Huma); Fakhar, U (Fakhar, Usama); ud-Din, SZ (ud-Din, Syed Zaheer); Ezzine, S (Ezzine, Safa); ben Farhat, L (ben Farhat, Lamia); Somaily, HH (Somaily, H. H.)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 146 **Article Number:** 110039 **DOI:** 10.1016/j.inoche.2022.110039 **Early Access Date:** OCT 2022 **Published:** DEC 2022

---

#### Record 500 of 1000

**Title:** Abundance and characterization of personal protective equipment (PPE) polluting Kish Island, Persian Gulf

**Author(s):** Mohamadi, S (Mohamadi, Sedigheh); Madadi, R (Madadi, Reyhane); Rakib, MRJ (Rakib, Md. Refat Jahan); De-la-Torre, GE (De-la-Torre, Gabriel E.); Idris, AM (Idris, Abubakr M.)

**Source:** SCIENCE OF THE TOTAL ENVIRONMENT **Volume:** 854 **Article Number:** 158678 **DOI:** 10.1016/j.scitotenv.2022.158678 **Early Access Date:** SEP 2022 **Published:** JAN 1 2023

---

#### Record 501 of 1000

**Title:** Synthesized thiazole-based hydrazides and their spectral characterization along with biological studies: Promising quantum chemical insights

**Author(s):** Haroon, M (Haroon, Muhammad); Akhtar, T (Akhtar, Tashfeen); Khalid, M (Khalid, Muhammad); Zahra, SS (Zahra, Syeda Saniya); Haq, IU (Haq, Ihsan-ul); Assiri, MA (Assiri, Mohammed A.); Imran, M (Imran, Muhammad); Braga, AAC (Braga, Atualpa A. C.)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1270 **Article Number:** 133923 **DOI:** 10.1016/j.molstruc.2022.133923 **Early Access Date:** AUG 2022 **Published:** DEC 15 2022

---

#### Record 502 of 1000

**Title:** Dark to bright fluorescence state by inter-connecting fluorophores: concentration-dependent blue to NIR emission and live cell imaging applications

**Author(s):** Gayathri, P (Gayathri, Parthasarathy); Subramaniyan, SB (Subramaniyan, Siva Bala); Veerappan, A (Veerappan, Anbazhagan); Anwarhussaini, S (Anwarhussaini, Syed); Jayanty, S (Jayanty, Subbalakshmi); 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:** 46 **Issue:** 34 **Pages:** 16409-16418 **DOI:** 10.1039/d2nj03457c **Early Access Date:** AUG 2022 **Published:** AUG 30 2022

---

#### Record 503 of 1000

**Title:** Review on the Relationship between Nano Modifications of Geopolymer Concrete and Their Structural Characteristics

**Author(s):** Shilar, FA (Shilar, Fatheali A.); Ganachari, SV (Ganachari, Sharanabasava V.); Patil, VB (Patil, Veerabhadragouda B.); Khan, TMY (Khan, T. M. Yunus); Almakayeel, NM (Almakayeel, Naif Mana); Alghamdi, S (Alghamdi, Saleh)

**Source:** POLYMERS **Volume:** 14 **Issue:** 7 **Article Number:** 1421 **DOI:** 10.3390/polym14071421 **Published:** APR 2022

---

#### Record 504 of 1000

**Title:** Assembling Hollow Cactus-Like ZnO Nanorods with Dipole-Modified Graphene Nanosheets for Practical Room-Temperature Formaldehyde Sensing

**Author(s):** Hu, HY (Hu, Huiyun); Liang, HP (Liang, Hongping); Fan, JC (Fan, Jincheng); Guo, LP (Guo, Lanpeng); 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:** ACS APPLIED MATERIALS & INTERFACES **Volume:** 14 **Issue:** 11 **Pages:** 13186-13195 **DOI:** 10.1021/acsami.1c20680 **Published:** MAR 23 2022

---

**Record 505 of 1000**

**Title:** First-principles study of the structural and optoelectronic properties of ANbO<sub>3</sub> (A = Na, K and Rb) in four crystal phases

**Author(s):** Saeed, M (Saeed, Muhammad); Ali, A (Ali, Akbar); Ul Haq, I (Ul Haq, Izaz); Muhammad, S (Muhammad, Shabbir); Chaudhry, AR (Chaudhry, Aijaz Rasool); Rehman, AU (Rehman, Altaf Ur); Ali, Z (Ali, Zahid); Siddeeg, SM (Siddeeg, Saifeldin M.); Khan, I (Khan, Imad)

**Source:** MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING **Volume:** 139 **Article Number:** 106364 **DOI:** 10.1016/j.mssp.2021.106364 **Published:** MAR 1 2022

---

**Record 506 of 1000**

**Title:** Investigations to Explore Molecular Interactions and Sweetness Response of Polyhydroxy Compounds with Amino Acids in Aqueous Systems

**Author(s):** Jamal, MA (Jamal, Muhammad Asghar); Shahazidy, U (Shahazidy, Uzma); Al-Saeed, FA (Al-Saeed, Fatimah A.); Syaad, KMA (Syaad, Khalid M. Al); Muneer, M (Muneer, Majid); Ahmed, I (Ahmed, Ikram); Ahmed, AE (Ahmed, Ahmed Ezzat)

**Source:** ACS OMEGA **Volume:** 7 **Issue:** 45 **Pages:** 40950-40962 **DOI:** 10.1021/acsomega.2c0410240950ACS **Early Access Date:** NOV 2022 **Published:** NOV 15 2022

---

**Record 507 of 1000**

**Title:** ESIPT geometrical isomers with distinct mechanofluorochromism and intra/intermolecular H-bonding controlled tunable fluorescence

**Author(s):** Gayathri, P (Gayathri, Parthasarathy); Ravi, S (Ravi, Sasikala); Akshaya, K (Akshaya, K.); Karthikeyan, S (Karthikeyan, Subramanian); Pannipara, M (Pannipara, Mehboobali); Al-Sehemi, AG (Al-Sehemi, Abdullah G. G.); Moon, D (Moon, Dohyun); Anthony, SP (Anthony, Savarimuthu Philip)

**Source:** CRYSTENGGCOMM **Volume:** 24 **Issue:** 46 **Pages:** 8126-8133 **DOI:** 10.1039/d2ce01210c **Early Access Date:** OCT 2022 **Published:** NOV 29 2022

---

**Record 508 of 1000**

**Title:** Molarity activity effect on mechanical and microstructure properties of geopolymer concrete: A review

**Author(s):** Shilar, FA (Shilar, Fatheali A.); Ganachari, SV (Ganachari, Sharanabasava, V); Patil, VB (Patil, Veerabhadragouda B.); Khan, TMY (Khan, T. M. Yunus); Khadar, SDA (Khadar, Shaik Dawood Abdul)

**Source:** CASE STUDIES IN CONSTRUCTION MATERIALS **Volume:** 16 **Article Number:** e01014 **DOI:** 10.1016/j.cscm.2022.e01014 **Early Access Date:** MAR 2022 **Published:** JUN 2022

---

**Record 509 of 1000**

**Title:** Ambient electrochemical N<sub>2</sub>-to-NH<sub>3</sub> conversion catalyzed by TiO<sub>2</sub> decorated juncus effusus-derived carbon microtubes

**Author(s):** Chen, HJ (Chen, Haijun); Liang, J (Liang, Jie); Dong, K (Dong, Kai); Yue, LC (Yue, Luchao); Li, TS (Li, Tingshuai); Luo, YS (Luo, Yongsong); Feng, ZS (Feng, Zhesheng); Li, N (Li, Na); Hamdy, MS (Hamdy, Mohamed S.); Alshehri, AA (Alshehri, Abdulmohsen Ali); Wang, Y (Wang, Yan); Sun, XP (Sun, Xuping); Liu, Q (Liu, Qian)

**Source:** INORGANIC CHEMISTRY FRONTIERS **Volume:** 9 **Issue:** 7 **Pages:** 1514-1519 **DOI:** 10.1039/d2qi00140c **Early Access Date:** FEB 2022 **Published:** MAR 29 2022

---

**Record 510 of 1000**

**Title:** A Box-Behnken Extraction Design and Hepatoprotective Effect of Isolated Eupalitin-3-O-β-D-Galactopyranoside from *Boerhavia diffusa* Linn.

**Author(s):** Thajudeen, KY (Thajudeen, Kamal Y.); Asiri, YI (Asiri, Yahya, I); Salam, S (Salam, Shahana); Thorakkattil, SA (Thorakkattil, Shabeer Ali); Rahamathulla, M (Rahamathulla, Mohamed); Uoorakkottil, I (Uoorakkottil, Ilyas)

**Source:** MOLECULES **Volume:** 27 **Issue:** 19 **Article Number:** 6444 **DOI:** 10.3390/molecules27196444 **Published:** OCT 2022

---

**Record 511 of 1000**

**Title:** The Structural, Biological, and In-Silico Profiling of Novel Capryloyl Tetra-Glucoside and Aliphatic Ester Constituents from the *Abutilon indicum* Offers New Perspectives on the Treatment of Pain and Inflammation

**Author(s):** Wahab, S (Wahab, Shadma); Alsayari, A (Alsayari, Abdulrhman); Bin Muhsinah, A (Bin Muhsinah, Abdullatif); Almaghaslah, D (Almaghaslah, Dalia); Haque, A (Haque, Anzarul); Khalid, M (Khalid, Mohammad); Alnasser, SM (Alnasser, Sulaiman Mohammed); Azam, F (Azam, Faizul); Hussain, MS (Hussain, Md Sarfaraj)



**Record 512 of 1000**

**Title:** Investigating the Role of Novel Benzotrithiophene-Based Bat-Shaped Non-Fullerene Acceptors for High Performance Organic Solar Cells

**Author(s):** Atiq, K (Atiq, Kainat); Hussain, R (Hussain, Riaz); Adnan, M (Adnan, Muhammad); Khan, MU (Khan, Muhammad Usman); Irshad, Z (Irshad, Zobia); Yaqoob, J (Yaqoob, Junaid); Khalid, M (Khalid, Muhammad); Assiri, MA (Assiri, Mohammed A.); Imran, M (Imran, Muhammad); Lim, J (Lim, Jongchul)

**Source:** JOURNAL OF COMPUTATIONAL BIOPHYSICS AND CHEMISTRY Volume: 21 Issue: 08 Pages: 981-998 DOI: 10.1142/S2737416522500442 Early Access Date: SEP 2022 Published: DEC 2022

---

**Record 513 of 1000**

**Title:** Oxacalix[4]arene based dual-signalling fluorimetric and electrochemical chemosensor for the selective detection of nitroaromatic compounds

**Author(s):** Vora, M (Vora, Manoj); Panchal, M (Panchal, Manthan); Dey, S (Dey, Shuvankar); Pandya, A (Pandya, Alok); Athar, M (Athar, Mohd); Verma, N (Verma, Nidhi); Irfan, A (Irfan, Ahmad); Jain, VK (Jain, V. K.)

**Source:** JOURNAL OF MOLECULAR LIQUIDS Volume: 362 Article Number: 119791 DOI: 10.1016/j.molliq.2022.119791 Early Access Date: JUL 2022 Published: SEP 15 2022

---

**Record 514 of 1000**

**Title:** All-Solid-State Potentiometric Platforms Modified with a Multi-Walled Carbon Nanotubes for Fluoxetine Determination

**Author(s):** Abd-Rabboh, HSM (Abd-Rabboh, Hisham S. M.); Hashem, HM (Hashem, Heba M.); Al Shagri, LMS (Al Shagri, Layla M. S.); Amr, AEGE (Amr, Abdel El-Galil E.); Almehezia, AA (Almehezia, Abdulrahman A.); Naglah, AM (Naglah, Ahmed M.); Kamel, AH (Kamel, Ayman H.)

**Source:** MEMBRANES Volume: 12 Issue: 5 Article Number: 446 DOI: 10.3390/membranes12050446 Published: MAY 2022

---

**Record 515 of 1000**

**Title:** Tailoring 2D carbides and nitrides based photo-catalytic nanomaterials for energy production and storage: a review

**Author(s):** Riaz, A (Riaz, Asma); Tahir, MB (Tahir, Muhammad Bilal); Rehman, JU (Ur Rehman, Jalil); Sagir, M (Sagir, Muhammad); Yousef, E (Yousef, El Sayed); Alrobei, H (Alrobei, Hussein); Alzaid, M (Alzaid, Meshal)

**Source:** ZEITSCHRIFT FUR PHYSIKALISCHE CHEMIE-INTERNATIONAL JOURNAL OF RESEARCH IN PHYSICAL CHEMISTRY & CHEMICAL PHYSICS Volume: 237 Issue: 1-2 Pages: 163-185 DOI: 10.1515/zpch-2021-3158 Early Access Date: DEC 2022 Published: FEB 23 2023

---

**Record 516 of 1000**

**Title:** Heavy metal contamination and risk characterisation in sediment of an urban riverine system in Bangladesh

**Author(s):** Proshad, R (Proshad, Ram); Idris, AM (Idris, Abubakr M.); Dey, HC (Dey, Hridoy Chandra)

**Source:** INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY DOI: 10.1080/03067319.2022.2098484 Early Access Date: JUL 2022

---

**Record 517 of 1000**

**Title:** Fabrication and Characterization of Poly(vinyl alcohol)-chitosan-capped Silver Nanoparticle Hybrid Membranes for Pervaporation Dehydration of Ethanol

**Author(s):** Naik, ML (Naik, Manu L.); Sajjan, AM (Sajjan, Ashok M.); Khan, TMY (Khan, T. M. Yunus); Ashwini, M (Ashwini, M.); Achappa, S (Achappa, Sharanappa); Banapurmath, NR (Banapurmath, Nagaraj R.); Ayachit, NH (Ayachit, Narasimha H.); Abdelmohimen, MAH (Abdelmohimen, Mostafa A. H.)

**Source:** GELS Volume: 8 Issue: 7 Article Number: 401 DOI: 10.3390/gels8070401 Published: JUL 2022

---

**Record 518 of 1000**

**Title:** Probing inhibition effect of novel biopolymer based composite for the inhibition of P110 steel corrosion in 15% HCl under dynamic condition

**Author(s):** Singh, A (Singh, Ambrish); Ansari, KR (Ansari, K. R.); Alanazi, AK (Alanazi, Abdullah K.); Quraishi, MA (Quraishi, M. A.); Ali, IH (Ali, Ismat H.); Lin, YH (Lin, Yuanhua)

### Record 519 of 1000

**Title:** Bioprocessing of Agro-Industrial Waste for Maximization of Pectinase Production by a Novel Native Strain *Aspergillus cervinus* ARS2 Using Statistical Approach

**Author(s):** Shet, AR (Shet, Anil R.); Muhsinah, AB (Muhsinah, Abdullatif Bin); Alhazmi, AY (Alhazmi, Abdulfattah Y.); Achappa, S (Achappa, Sharanappa); Desai, SV (Desai, Shivalingsarj V.); Mahnashi, MH (Mahnashi, Mater H.); Muddapur, UM (Muddapur, Uday M.); Khan, AA (Khan, Aejaz Abdullatif); Shaikh, IA (Shaikh, Ibrahim Ahmed)

**Source:** SEPARATIONS Volume: 9 Issue: 12 Article Number: 438 DOI: 10.3390/separations9120438 Published: DEC 2022

---

### Record 520 of 1000

**Title:** Green synthesis of Ag/Fe<sub>3</sub>O<sub>4</sub> nanoparticles using Mentha longifolia flower extract: evaluation of its antioxidant and anti-lung cancer effects

**Author(s):** Wang, L (Wang, Lei); Karmakar, B (Karmakar, Bikash); Al-Saeed, FA (Al-Saeed, Fatimah A.); Shati, AA (Shati, Ali A.); Bani-Fwaz, MZ (Bani-Fwaz, Mutasem Z.); El-Kott, AF (El-Kott, Attalla F.)

**Source:** HELIYON Volume: 8 Issue: 12 Article Number: e12326 DOI: 10.1016/j.heliyon.2022.e12326 Published: DEC 2022

---

### Record 521 of 1000

**Title:** Development of Polymeric-Based Formulation as Potential Smart Colonic Drug Delivery System

**Author(s):** Bayan, MF (Bayan, Mohammad F.); Marji, SM (Marji, Saeed M.); Salem, MS (Salem, Mutaz S.); Begum, MY (Begum, M. Yasmin); Chidambaram, K (Chidambaram, Kumarappan); Chandrasekaran, B (Chandrasekaran, Balakumar)

**Source:** POLYMERS Volume: 14 Issue: 17 Article Number: 3697 DOI: 10.3390/polym14173697 Published: SEP 2022

---

### Record 522 of 1000

**Title:** A review on bismuth-based nanocomposites for energy and environmental applications

**Author(s):** Sivasubramanian, P (Sivasubramanian, PratimaDevi); Chang, JH (Chang, Jih-Hsing); Nagendran, S (Nagendran, Santhanalakshmi); Dong, CD (Dong, Cheng-Di); Shkir, M (Shkir, Mohd); Kumar, M (Kumar, Mohanraj)

**Source:** CHEMOSPHERE Volume: 307 Article Number: 135652 DOI: 10.1016/j.chemosphere.2022.135652 Early Access Date: AUG 2022 Published: NOV 2022

---

### Record 523 of 1000

**Title:** Insighting the systematic impact of shape, size and substitution of heteroatoms in quinoidal oligomers to tune their optoelectronic properties

**Author(s):** Sarwar, F (Sarwar, Fatima); Muhammad, S (Muhammad, Shabbir); Shafiq-urRehman (Shafiq-urRehman); Bibi, S (Bibi, Shamsa); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Algarni, H (Algarni, H.); Kumar, S (Kumar, Santosh)

**Source:** OPTICAL AND QUANTUM ELECTRONICS Volume: 54 Issue: 6 Article Number: 356 DOI: 10.1007/s11082-022-03724-6 Published: JUN 2022

---

### Record 524 of 1000

**Title:** Investigation of Self-Healing Mortars with and without Bagasse Ash at Pre- and Post-Crack Times

**Author(s):** Tesfamariam, BB (Tesfamariam, Belay Brehane); Seyoum, R (Seyoum, Redeat); Andoshe, DM (Andoshe, Dinsefa Mensur); Terfasa, TT (Terfasa, Tatek Temesgen); Ahmed, GMS (Ahmed, Gulam Mohammed Sayeed); Badruddin, IA (Badruddin, Irfan Anjum); Khaleed, HMT (Khaleed, H. M. T.)

**Source:** MATERIALS Volume: 15 Issue: 5 Article Number: 1650 DOI: 10.3390/ma15051650 Published: MAR 2022

---

### Record 525 of 1000

**Title:** Synthesis and Characterization of High Surface Area Transparent SiOC Aerogels from Hybrid Silicon Alkoxide: A Comparison between Ambient Pressure and Supercritical Drying

**Author(s):** Abebe, AM (Abebe, Adane Muche); Soraru, GD (Soraru, Gian Domenico); Thothadri, G (Thothadri, Ganesh); Andoshe, DM (Andoshe, Dinsefa Mensur); Zambotti, A (Zambotti, Andrea); Ahmed, GMS (Ahmed, Gulam Mohammed Sayeed); Tirth, V (Tirth, Vineet); Algahtani, A (Algahtani, Ali)

**Record 526 of 1000**

**Title:** Recent Applications of the Electrocoagulation Process on Agro-Based Industrial Wastewater: A Review

**Author(s):** Kamyab, H (Kamyab, Hesam); Yuzir, MA (Yuzir, Muhammad Ali); Abdullah, N (Abdullah, Norhayati); Quan, LM (Quan, Le Minh); Riyadi, FA (Riyadi, Fatimah Azizah); Marzouki, R (Marzouki, Riadh); Rakhmania (Rakhmania)

**Source:** SUSTAINABILITY Volume: 14 Issue: 4 Article Number: 1985 DOI: 10.3390/su14041985 Published: FEB 2022

---

**Record 527 of 1000**

**Title:** Evaluating Zn-Porphyrin-Based Near-IR-Sensitive Non-Fullerene Acceptors for Efficient Panchromatic Organic Solar Cells

**Author(s):** Khan, MU (Khan, Muhammad Usman); Imran, M (Imran, Muhammad); Rehman, MFU (Rehman, Muhammad Fayyaz Ur); Assiri, MA (Assiri, Mohammed A.); Mashhadi, SMA (Mashhadi, Syed Muddassir Ali); Akram, MS (Akram, Muhammad Safwan); Lu, CR (Lu, Changrui)

**Source:** CHEMISTRYOPEN Volume: 11 Issue: 8 Article Number: e202200047 DOI: 10.1002/open.202200047 Published: AUG 2022

---

**Record 528 of 1000**

**Title:** Structural, thermal, morphological and antibacterial activities of hybrid bio-nanocomposite Chitosan/Au/Bi<sub>2</sub>O<sub>3</sub> for biomedical applications

**Author(s):** El Askary, A (El Askary, Ahmad); Awwad, NS (Awwad, Nasser S.); Ibrahim, HA (Ibrahim, Hala A.); Moustapha, ME (Moustapha, Moustapha Eid); Menazea, AA (Menazea, A. A.)

**Source:** JOURNAL OF POLYMER RESEARCH Volume: 29 Issue: 7 Article Number: 269 DOI: 10.1007/s10965-022-03116-0 Published: JUL 2022

---

**Record 529 of 1000**

**Title:** <sup>1</sup>H NMR-Based metabolomics and <sup>13</sup>C isotopic ratio evaluation to differentiate conventional and organic soy sauce

**Author(s):** Kamal, GM (Kamal, Ghulam Mustafa); Uddin, J (Uddin, Jalal); Bin Muhsinah, A (Bin Muhsinah, Abdullatif); Wang, XH (Wang, Xiaohua); Noreen, A (Noreen, Ayesha); Sabir, A (Sabir, Asma); Musharraf, SG (Musharraf, Syed Ghulam)

**Source:** ARABIAN JOURNAL OF CHEMISTRY Volume: 15 Issue: 1 Article Number: 103516 DOI: 10.1016/j.arabjc.2021.103516 Published: JAN 2022

---

**Record 530 of 1000**

**Title:** Polypyrrole/Magnetic/Tea Waste Composites for PO<sub>4</sub><sup>3-</sup> Ions Removal: Adsorption-Desorption, Kinetics, and Thermodynamics Studies

**Author(s):** Saleem, F (Saleem, Fatima); Bhatti, HN (Bhatti, Haq Nawaz); Khan, A (Khan, Amina); Ben Farhat, L (Ben Farhat, Lamia); Elqahtani, ZM (Elqahtani, Zainab Mufarreh); Alwadai, N (Alwadai, Norah); Iqbal, M (Iqbal, Munawar)

**Source:** ADSORPTION SCIENCE & TECHNOLOGY Volume: 2022 Article Number: 4071162 DOI: 10.1155/2022/4071162 Published: SEP 6 2022

---

**Record 531 of 1000**

**Title:** Effect of Fe ions beam on the structural, optical, photovoltaic properties of TiO<sub>2</sub> based dye-sensitized solar cells

**Author(s):** Irfan, M (Irfan, M.); Khan, MI (Khan, M., I); Ikram-ul-haq (Ikram-ul-haq); Amami, M (Amami, Mongi); Ahson, R (Ahson, R.); Alabbad, EA (Alabbad, Eman A.)

**Source:** OPTICAL MATERIALS Volume: 123 Article Number: 111794 DOI: 10.1016/j.optmat.2021.111794 Early Access Date: JAN 2022 Published: JAN 2022

---

**Record 532 of 1000**

**Title:** Media Optimization by Response Surface Methodology for the Enhanced Production of Acidic Extracellular Pectinase by the Indigenously Isolated Novel Strain *Aspergillus cervinus* ARS2 Using Solid-State Fermentation

**Author(s):** Shet, AR (Shet, Anil R.); Bin Muhsinah, A (Bin Muhsinah, Abdullatif); Alsayari, A (Alsayari, Abdulrahman); Achappa, S (Achappa, Sharanappa); Desai, SV (Desai, Shivalingsarj, V); Mahnashi, MH (Mahnashi, Mater H.);

Muddapur, UM (Muddapur, Uday M.); Shaikh, IA (Shaikh, Ibrahim Ahmed); Mannasaheb, BA (Mannasaheb, Basheerahmed Abdulaziz); Khan, AA (Khan, Aejaz Abdullatif)

**Source:** FERMENTATION-BASEL **Volume:** 8 **Issue:** 10 **Article Number:** 485 **DOI:** 10.3390/fermentation8100485 **Published:** OCT 2022

---

#### Record 533 of 1000

**Title:** Influence of End-Capped Modifications in the Nonlinear Optical Amplitude of Nonfullerene-Based Chromophores with a D- $\pi$ -A Architecture: A DFT/TDDFT Study

**Author(s):** Khalid, M (Khalid, Muhammad); Zafar, M (Zafar, Maryam); Hussain, S (Hussain, Shabbir); Asghar, MA (Asghar, Muhammad Adnan); Khera, RA (Khera, Rasheed Ahmad); Imran, M (Imran, Muhammad); Abookleesh, FL (Abookleesh, Frage Lhadi); Akram, MY (Akram, Muhammad Yasir); Ullah, A (Ullah, Aman)

**Source:** ACS OMEGA **DOI:** 10.1021/acsomega.2c02052 **Early Access Date:** JUN 2022

---

#### Record 534 of 1000

**Title:** Physical, optical, and advanced radiation absorption characteristics of cadmium lead phosphate glasses containing MoO<sub>3</sub>

**Author(s):** Shaaban, KS (Shaaban, Kh S.); Al-Baradi, AM (Al-Baradi, Ateyyah M.); Ali, AM (Ali, Atif Mossad)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 33 **Issue:** 6 **Pages:** 3297-3305 **DOI:** 10.1007/s10854-021-07530-w **Early Access Date:** JAN 2022 **Published:** FEB 2022

---

#### Record 535 of 1000

**Title:** Equilibrium and DFT modeling studies for the biosorption of Safranin O dye from water samples using *Bacillus subtilis* biosorbent

**Author(s):** Çetinkaya, S (Cetinkaya, Serap); Kaya, S (Kaya, Savas); Aksu, A (Aksu, Aysun); Çetintas, HI (Cetintas, Halil Ibrahim); Jalbani, NS (Jalbani, Nida Shams); Erkan, S (Erkan, Sultan); Marzouki, R (Marzouki, Riadh)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1276 **Article Number:** 134761 **DOI:** 10.1016/j.molstruc.2022.134761 **Early Access Date:** DEC 2022 **Published:** MAR 15 2023

---

#### Record 536 of 1000

**Title:** Photocatalytic Reduction of Hexavalent Chromium Using Cu<sub>3.21</sub>Bi<sub>4.79</sub>S<sub>9</sub>/g-C<sub>3</sub>N<sub>4</sub> Nanocomposite

**Author(s):** Ajiboye, TO (Ajiboye, Timothy O.); Oyewo, OA (Oyewo, Opeyemi A.); Marzouki, R (Marzouki, Riadh); Onwudiwe, DC (Onwudiwe, Damian C.)

**Source:** CATALYSTS **Volume:** 12 **Issue:** 10 **Article Number:** 1075 **DOI:** 10.3390/catal12101075 **Published:** OCT 2022

---

#### Record 537 of 1000

**Title:** Efficiency development of surface tension for different ionic liquids through novel model of Machine learning Technique: Application of in-thermal engineering

**Author(s):** Abourehab, MAS (Abourehab, Mohammed A. S.); Shawky, AM (Shawky, Ahmed M.); Venkatesan, K (Venkatesan, Kumar); Yasmin, S (Yasmin, Sabina); Alsubaiyel, AM (Alsubaiyel, Amal M.); AboRas, KM (AboRas, Kareem M.)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 367 **Article Number:** 120391 **DOI:** 10.1016/j.molliq.2022.120391 **Early Access Date:** SEP 2022 **Part:** A **Published:** DEC 1 2022

---

#### Record 538 of 1000

**Title:** The parametric computation of nonlinear convection magnetohydrodynamic nanofluid flow with internal heating across a fixed and spinning disk

**Author(s):** Bilal, M (Bilal, Muhammad); Ayed, H (Ayed, Hamdi); Saeed, A (Saeed, Anwar); Brahmia, A (Brahmia, Ameni); Gul, T (Gul, Taza); Kumam, P (Kumam, Poom)

**Source:** WAVES IN RANDOM AND COMPLEX MEDIA **DOI:** 10.1080/17455030.2022.2042621 **Early Access Date:** MAR 2022

---

#### Record 539 of 1000

**Title:** Spectral, thermal and DFT studies of novel nickel(II) complexes of 2-benzoylpyridine-N<sup>4</sup>-methyl-3-thiosemicarbazone: Crystal structure of a square planar azido-nickel(II) complex

**Author(s):** Jayakumar, K (Jayakumar, K.); Seena, EB (Seena, E. B.); Kurup, MRP (Kurup, M. R. Prathapachandra); Kayac, S (Kayac, Savas); Serdaroglu, G (Serdaroglu, Goncagul); Suresh, E (Suresh, E.); Marzouki, R (Marzouki, Riadh)  
**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1253 **Article Number:** 132257 **DOI:** 10.1016/j.molstruc.2021.132257 **Early Access Date:** JAN 2022 **Published:** APR 5 2022

---

#### Record 540 of 1000

**Title:** Synthetization and characterization of SnCaAl<sub>2</sub>O<sub>3</sub> nanocomposite and using as a superior adsorbent for Pb, Zn, and Cd ions in polluted water

**Author(s):** Sayqal, A (Sayqal, Ali); Snousy, MG (Snousy, Moustafa Gamal); Mubarak, MF (Mubarak, Mahmoud F.); Ragab, AH (Ragab, Ahmed H.); Mohamed, AMG (Mohamed, Atef Mohamed Gad); El Shahawy, A (El Shahawy, Abeer)

**Source:** PLOS ONE **Volume:** 17 **Issue:** 11 **Article Number:** e0276888 **DOI:** 10.1371/journal.pone.0276888 **Published:** NOV 3 2022

---

#### Record 541 of 1000

**Title:** Electroless platinum and palladium deposition over alumina coated stainless steel plates and their catalytic activity for hydrogen mitigation in severe nuclear accidents

**Author(s):** Alarfaji, SS (Alarfaji, Saleh S.); Hussain, S (Hussain, Sajjad); Arshed, M (Arshed, Muhammad); Talib, SH (Talib, Shamraiz Hussain); Rahman, TU (Rahman, Taj Ur); Rauf, A (Rauf, Abdul); Khan, IU (Khan, Islam Ullah)

**Source:** INTERNATIONAL JOURNAL OF HYDROGEN ENERGY **Volume:** 47 **Issue:** 87 **Pages:** 36843-36849 **DOI:** 10.1016/j.ijhydene.2022.08.260 **Early Access Date:** OCT 2022 **Published:** OCT 29 2022

---

#### Record 542 of 1000

**Title:** Optical investigations of Cu<sub>2</sub>CdSnS<sub>4</sub> quaternary alloy nanostructure for indoor optical wireless communications

**Author(s):** Fassi, B (Fassi, B.); Driz, S (Driz, S.); Al-Douri, Y (Al-Douri, Y.); Ameri, M (Ameri, M.); El-Rehim, AFA (El-Rehim, A. F. Abd)

**Source:** OPTICS COMMUNICATIONS **Volume:** 517 **Article Number:** 128351 **DOI:** 10.1016/j.optcom.2022.128351 **Early Access Date:** APR 2022 **Published:** AUG 15 2022

---

#### Record 543 of 1000

**Title:** Significance of thermal radiation, Lorentz force, and non-Darcian porous medium on the dynamics of second-grade fluid subject to exponential stretching sheet

**Author(s):** Awan, AU (Awan, Aziz Ullah); Al-Mubaddel, FS (Al-Mubaddel, Fahad S.); Ahmad, S (Ahmad, Sumble); Abbas, N (Abbas, Nadeem); Alam, MM (Alam, Mohammad Mahtab)

**Source:** WAVES IN RANDOM AND COMPLEX MEDIA **DOI:** 10.1080/17455030.2022.2111030 **Early Access Date:** AUG 2022

---

#### Record 544 of 1000

**Title:** Fabrication and Characterization of Acute Myocardial Infarction Myoglobin Biomarker Based on Chromium-Doped Zinc Oxide Nanoparticles

**Author(s):** Al Fatease, A (Al Fatease, Adel); Haque, M (Haque, Mazharul); Umar, A (Umar, Ahmad); Ansari, SG (Ansari, Shafeeque G.); Mahnashi, MH (Mahnashi, Mater H.); Alhamhoom, Y (Alhamhoom, Yahya); Ansari, ZA (Ansari, Zubaida A.)

**Source:** BIOSENSORS-BASEL **Volume:** 12 **Issue:** 8 **Article Number:** 585 **DOI:** 10.3390/bios12080585 **Published:** AUG 2022

---

#### Record 545 of 1000

**Title:** Growth and characterization of GeSnO thin films for thermoelectric power generation applications

**Author(s):** Ullah, I (Ullah, Inaam); Al-Harbi, FF (Al-Harbi, F. F.); ul Ahmad, A (ul Ahmad, Aqrab); Mahmood, K (Mahmood, K.); Ali, A (Ali, A.); Ikram, S (Ikram, Salma); Amin, N (Amin, N.); Javaid, K (Javaid, K.); Amami, M (Amami, Mongi); Sajjad, MA (Arif Sajjad, M.); Ali, MY (Yasir Ali, M.); Hussain, MS (Sharafat Hussain, M.)

**Source:** CHEMICAL PHYSICS LETTERS **Volume:** 801 **Article Number:** 139717 **DOI:** 10.1016/j.cplett.2022.139717 **Early Access Date:** MAY 2022 **Published:** AUG 16 2022

---

#### Record 546 of 1000

**Title:** Phytoconstituents of *Sansevieria suffruticosa* NEBr. Leaves and Its Hepatoprotective Effect via Activation of the NRF2/ARE Signaling Pathway in an Experimentally Induced Liver Fibrosis Rat Model

**Author(s):** Abdel-Rahman, RF (Abdel-Rahman, Rehab F.); Fayed, HM (Fayed, Hany M.); Ogaly, HA (Ogaly, Hanan A.); Hussein, RA (Hussein, Rehab A.); Raslan, MA (Raslan, Mona A.)

**Source:** CHEMISTRY & BIODIVERSITY **Volume:** 19 **Issue:** 4 **Article Number:** e202100960 **DOI:** 10.1002/cbdv.202100960 **Early Access Date:** MAR 2022 **Published:** APR 2022

---

#### Record 547 of 1000

**Title:** Impact of Co<sup>2+</sup> on the spectral, optoelectrical, and dielectric properties of Mg<sub>0.25</sub>Ni<sub>0.25</sub>Cu<sub>0.5-x</sub>Co<sub>x</sub>Fe<sub>1.97</sub>La<sub>0.03</sub>O<sub>4</sub> ferrites prepared via sol-gel auto-combustion route

**Author(s):** Abbas, G (Abbas, Ghulam); Rehman, AU (Rehman, Atta Ur); Gull, W (Gull, Waheed); Afzaal, M (Afzaal, M.); Amin, N (Amin, Nasir); Ben Farhat, L (Ben Farhat, Lamia); Amami, M (Amami, Mongi); Morley, NA (Morley, Nicola A.); Akhtar, M (Akhtar, Maria); Arshad, MI (Arshad, Muhammad Imran); Ghuffar, A (Ghuffar, Abdul); Mahmood, A (Mahmood, Abid); Ibrahim, M (Ibrahim, Muhammad)

**Source:** JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY **Volume:** 101 **Issue:** 2 **Pages:** 428-442 **DOI:** 10.1007/s10971-021-05713-9 **Early Access Date:** JAN 2022 **Published:** FEB 2022

---

#### Record 548 of 1000

**Title:** Waste biomass valorisation of *Bambusa vulgaris* dust and *Delonix regia* pods: Characterization and kinetic study

**Author(s):** Tiwari, AK (Tiwari, Amit Kumar); Prasad, N (Prasad, Nirupama); Jana, SK (Jana, Sumit Kumar); Srivastava, N (Srivastava, Neha); Alshahrani, MY (Alshahrani, Mohammad Y.); Ahmad, I (Ahmad, Irfan); Mishra, PK (Mishra, Pradeep Kumar); Pal, DB (Pal, Dan Bahadur)

**Source:** SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS **Volume:** 53 **Article Number:** 102590 **DOI:** 10.1016/j.seta.2022.102590 **Early Access Date:** JUL 2022 **Part:** B **Published:** OCT 2022

---

#### Record 549 of 1000

**Title:** Controlled preparation of grafted starch modified with Ni nanoparticles for biodegradable polymer nanocomposites and its application in food packaging

**Author(s):** Iqbal, S (Iqbal, Shahid); Nadeem, S (Nadeem, Sohail); Javed, M (Javed, Mohsin); Alsaab, HO (Alsaab, Hashem O.); Awwad, NS (Awwad, Nasser S.); Ibrahim, HA (Ibrahim, Hala A.); Mohyuddin, A (Mohyuddin, Ayesha)

**Source:** MICROSCOPY RESEARCH AND TECHNIQUE **Volume:** 85 **Issue:** 6 **Pages:** 2331-2337 **DOI:** 10.1002/jemt.24089 **Early Access Date:** MAR 2022 **Published:** JUN 2022

---

#### Record 550 of 1000

**Title:** Anti-Obesity Action of *Boerhavia diffusa* in Rats against High-Fat Diet-Induced Obesity by Blocking the Cannabinoid Receptors

**Author(s):** Khalid, M (Khalid, Mohammad); Alqarni, MH (Alqarni, Mohammed H.); Shoaib, A (Shoaib, Ambreen); Wahab, S (Wahab, Shadma); Foudah, AI (Foudah, Ahmed I.); Aljarba, TM (Aljarba, Tariq M.); Akhtar, J (Akhtar, Juber); Alamri, MA (Alamri, Mubarak A.); Ahmad, S (Ahmad, Sarfaraz)

**Source:** PLANTS-BASEL **Volume:** 11 **Issue:** 9 **Article Number:** 1158 **DOI:** 10.3390/plants11091158 **Published:** MAY 2022

---

#### Record 551 of 1000

**Title:** Acrylic Acid-Functionalized Cellulose Diacrylate-Carbon Nanocomposite Thin Film: Preparation, Characterization, and Applications

**Author(s):** Nadeem, S (Nadeem, Sohail); Javed, M (Javed, Mohsin); Iqbal, S (Iqbal, Shahid); Alsaab, HO (Alsaab, Hashem O.); Awwad, NS (Awwad, Nasser S.); Ibrahim, HA (Ibrahim, Hala A.); Ul Hassan, S (Ul Hassan, Sadaf); Mohyuddin, A (Mohyuddin, Ayesha); Bano, R (Bano, Razia); Tariq, K (Tariq, Kiran); Haroon, SM (Haroon, Shah Muhammad)

**Source:** JOM **Volume:** 74 **Issue:** 5 **Pages:** 2113-2119 **DOI:** 10.1007/s11837-022-05231-1 **Early Access Date:** MAR 2022 **Published:** MAY 2022

---

#### Record 552 of 1000

**Title:** Inhibition of Inflammation Associated Corneal Neovascularization by *Dalbergia sissou* and *Catharanthus roseus* Leaf Extracts in an Animal Model

**Author(s):** Ahmed, M (Ahmed, Munir); Sahibzada, MUK (Sahibzada, Muhammad Umar Khayam); Rasheed, HM (Rasheed, Hafiz Majid); Khan, T (Khan, Taous); Wahid, F (Wahid, Fazli); Farooq, U (Farooq, Umar); Khusro, A

(Khusro, Ameer); Uddin, J (Uddin, Jalal); Afzal, S (Afzal, Sher); Khan, A (Khan, Ajmal); Al-Harrasi, A (Al-Harrasi, Ahmed)

**Source:** SOUTH AFRICAN JOURNAL OF BOTANY **Volume:** 151 **Pages:** 379-386 **DOI:** 10.1016/j.sajb.2022.03.047 **Early Access Date:** DEC 2022 **Part:** B **Published:** DEC 2022

---

#### Record 553 of 1000

**Title:** Synthesis, characterization, anti-mycobacterial activity and *in silico* study of new 2,5-disubstituted-1,3,4-oxadiazole derivatives

**Author(s):** Azmi, MN (Azmi, M. N.); Hasmaruddin, NS (Hasmaruddin, N. S.); Ali, NAM (Ali, N. A. Mat); Osman, H (Osman, H.); Mohamad, S (Mohamad, S.); Parumasivam, T (Parumasivam, T.); Hassan, MZ (Hassan, M. Z.); Ghani, MSA (Ghani, M. S. Abd); Awang, K (Awang, K.)

**Source:** TROPICAL BIOMEDICINE **Volume:** 39 **Issue:** 3 **Pages:** 467-475 **DOI:** 10.47665/tb.39.3.019 **Published:** SEP 2022

---

#### Record 554 of 1000

**Title:** Antiproliferative and apoptotic potential of Glycyrrhizin against HPV16+Caski cervical cancer cells: A plausible association with downregulation of HPV E6 and E7 oncogenes and Notch signaling pathway

**Author(s):** Ahmad, A (Ahmad, Afza); Tiwari, RK (Tiwari, Rohit Kumar); Mishra, P (Mishra, Prakriti); Alkhatami, AG (Alkhatami, Ali G.); Almeleebia, TM (Almeleebia, Tahani M.); Alshahrani, MY (Alshahrani, Mohammad Y.); Ahmad, I (Ahmad, Irfan); Asiri, RA (Asiri, Rawan Amer); Alabdullah, NM (Alabdullah, Noura M.); Hussien, M (Hussien, Mohamed); Saeed, M (Saeed, Mohd); Ansari, IA (Ansari, Irfan Ahmad)

**Source:** SAUDI JOURNAL OF BIOLOGICAL SCIENCES **Volume:** 29 **Issue:** 5 **Pages:** 3264-3275 **DOI:** 10.1016/j.sjbs.2022.01.054 **Early Access Date:** MAR 2022 **Published:** MAY 2022

---

#### Record 555 of 1000

**Title:** The Impact of Cr<sub>2</sub>O<sub>3</sub> on the Mechanical, Physical, and Radiation Shielding Characteristics of Na<sub>2</sub>B<sub>4</sub>O<sub>7</sub>-CaO-SiO<sub>2</sub> Glasses

**Author(s):** Shaaban, KS (Shaaban, Kh S.); Al-Baradi, AM (Al-Baradi, Ateyyah M.); Ali, AM (Ali, Atif Mossad)

**Source:** SILICON **Volume:** 14 **Issue:** 16 **Pages:** 10375-10382 **DOI:** 10.1007/s12633-022-01783-8 **Early Access Date:** MAR 2022 **Published:** NOV 2022

---

#### Record 556 of 1000

**Title:** Ameliorative Sexual Behavior and Phosphodiesterase-5 Inhibitory Effects of *Spondias mangifera* Fruit Extract in Rodents: *In Silico*, *In Vitro*, and *In Vivo* Study

**Author(s):** Khalid, M (Khalid, Mohammad); Alqarni, MH (Alqarni, Mohammed H.); Wahab, S (Wahab, Shadma); Annadurai, S (Annadurai, Sivakumar); Alamri, MA (Alamri, Mubarak A.); Foudah, AI (Foudah, Ahmed, I); Aljarba, TM (Aljarba, Tariq M.); Akhtar, J (Akhtar, Juber); Badruddeen (Badruddeen); Ahmad, S (Ahmad, Sarfaraz)

**Source:** JOURNAL OF CLINICAL MEDICINE **Volume:** 11 **Issue:** 13 **Article Number:** 3732 **DOI:** 10.3390/jcm11133732 **Published:** JUL 2022

---

#### Record 557 of 1000

**Title:** Augmentation of Antidiabetic Activity of Glibenclamide Microspheres Using S-Protected Okra Powered by QbD: Scintigraphy and In Vivo Studies

**Author(s):** Rizg, WY (Rizg, Waleed Y.); Naveen, NR (Naveen, N. Raghavendra); Kurakula, M (Kurakula, Mallesh); Safhi, AY (Safhi, Awaji Y.); Murshid, SS (Murshid, Samar S.); Mushtaq, RY (Mushtaq, Rayan Y.); Abualsunun, WA (Abualsunun, Walaa A.); Alharbi, M (Alharbi, Majed); Bakhaidar, RB (Bakhaidar, Rana B.); Almehmady, AM (Almehmady, Alshaimaa M.); Salawi, A (Salawi, Ahmad); Al Fatease, A (Al Fatease, Adel); Hosny, KM (Hosny, Khaled M.)

**Source:** PHARMACEUTICALS **Volume:** 15 **Issue:** 4 **Article Number:** 491 **DOI:** 10.3390/ph15040491 **Published:** APR 2022

---

#### Record 558 of 1000

**Title:** Discovery of novel rigid analogs of 2-naphthol with potent anticancer activity through multi-target topoisomerase I & II and tyrosine kinase receptor EGFR & VEGFR-2 inhibition mechanism

**Author(s):** El-Mawgoud, HKA (El-Mawgoud, Heba K. A.); Fouda, AM (Fouda, Ahmed M.); El-Nassag, MAA (El-Nassag, Mohammed A. A.); Elhenawy, AA (Elhenawy, Ahmed A.); Alshahrani, MY (Alshahrani, Mohammed Y.); El-Agrody, AM (El-Agrody, Ahmed M.)

**Record 559 of 1000**

**Title:** Human Intelligence Analysis through Perception of AI in Teaching and Learning

**Author(s):** Kshirsagar, PR (Kshirsagar, Pravin R.); Jagannadham, DBV (Jagannadham, D. B. V.); Alqahtani, H (Alqahtani, Hamed); Naveed, QN (Noorulhasan Naveed, Quadri); Islam, S (Islam, Saiful); Thangamani, M (Thangamani, M.); Dejene, M (Dejene, Minilu)

**Source:** COMPUTATIONAL INTELLIGENCE AND NEUROSCIENCE Volume: 2022 Article Number: 9160727 DOI: 10.1155/2022/9160727 Published: JUN 11 2022

---

**Record 560 of 1000**

**Title:** Thermal, optical and electrical properties of WO<sub>3</sub>/carboxymethyl cellulose/polyvinyl alcohol composite synthesized by laser ablation

**Author(s):** El Askary, A (El Askary, Ahmad); Awwad, NS (Awwad, Nasser S.); Ibrahim, HA (Ibrahim, Hala A.); Moustapha, ME (Moustapha, Moustapha Eid); Menazea, AA (Menazea, A. A.)

**Source:** JOURNAL OF POLYMER RESEARCH Volume: 29 Issue: 5 Article Number: 155 DOI: 10.1007/s10965-022-02993-9 Published: MAY 2022

---

**Record 561 of 1000**

**Title:** Cr<sub>2</sub>O<sub>3</sub> effect on the structure, optical, and radiation shielding properties of Na<sub>2</sub>B<sub>4</sub>O<sub>7</sub>-SiO<sub>2</sub>-CaO-Cr<sub>2</sub>O<sub>3</sub> glasses

**Author(s):** Shaaban, KS (Shaaban, Kh S.); Al-Baradi, AM (Al-Baradi, Ateyyah M.); Ali, AM (Ali, Atif Mossad)

**Source:** APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING Volume: 128 Issue: 3 Article Number: 208 DOI: 10.1007/s00339-022-05348-9 Published: MAR 2022

---

**Record 562 of 1000**

**Title:** Rationally designed 1D CdS/TiO<sub>2</sub>@Ti<sub>3</sub>C<sub>2</sub> multi-components nanocomposites for enhanced visible light photocatalytic hydrogen production

**Author(s):** Meeran, MN (Meeran, M. Nagoor); Haridharan, N (Haridharan, Neelamegan); Shkir, M (Shkir, Mohd); Algarni, H (Algarni, H.); Reddy, VRM (Reddy, Vasudeva Reddy Minnam)

**Source:** CHEMICAL PHYSICS LETTERS Volume: 809 Article Number: 140150 DOI: 10.1016/j.cplett.2022.140150 Early Access Date: OCT 2022 Published: DEC 16 2022

---

**Record 563 of 1000**

**Title:** Fabrication of highly efficient and cost-effective dye-sensitized solar cells using ZnO/MWCNT nanocomposite as photoanode

**Author(s):** Vijayanath, S (Vijayanath, S.); Janaki, K (Janaki, K.); Gopal, R (Gopal, Ramalingam); Ragupathi, C (Ragupathi, C.); Rangasamy, B (Rangasamy, Baskaran); Alam, MM (Alam, Mohammed Mujahid)

**Source:** JOURNAL OF SOLID STATE ELECTROCHEMISTRY Volume: 27 Issue: 1 Pages: 183-194 DOI: 10.1007/s10008-022-05312-w Early Access Date: OCT 2022 Published: JAN 2023

---

**Record 564 of 1000**

**Title:** Machine Learning Technique for Precision Agriculture Applications in 5G-Based Internet of Things

**Author(s):** Murugamani, C (Murugamani, C.); Shitharth, S (Shitharth, S.); Hemalatha, S (Hemalatha, S.); Kshirsagar, PR (Kshirsagar, Pravin R.); Riyazuddin, K (Riyazuddin, K.); Naveed, QN (Naveed, Quadri Noorulhasan); Islam, S (Islam, Saiful); Ali, SPM (Mazher Ali, Syed Parween); Batu, A (Batu, Areda)

**Source:** WIRELESS COMMUNICATIONS & MOBILE COMPUTING Volume: 2022 Article Number: 6534238 DOI: 10.1155/2022/6534238 Published: JUN 7 2022

---

**Record 565 of 1000**

**Title:** A DFT study of the electronic and optical properties of four 2D thin films

**Author(s):** Barhoumi, M (Barhoumi, Mohamed); Said, I (Said, Imen); Sfina, N (Sfina, Noureddine); Al-Saleem, NK (Al-Saleem, Nouf K.); Ghrib, T (Ghrib, Taher)

**Source:** MATERIALS CHEMISTRY AND PHYSICS Volume: 286 Article Number: 126158 DOI: 10.1016/j.matchemphys.2022.126158 Early Access Date: MAY 2022 Published: JUL 1 2022

---



**Record 566 of 1000**

**Title:** Molecular structure, electronic properties, ESP map (polar aprotic and polar protic solvents), and topology investigations on 1-(tert-Butoxycarbonyl)-3-piperidinecarboxylic acid- Anticancer therapeutic agent

**Author(s):** Janani, S (Janani, S.); Rajagopal, H (Rajagopal, Hemamalini); Sakthivel, S (Sakthivel, S.); Aayisha, S (Aayisha, S.); Raja, M (Raja, M.); Irfan, A (Irfan, Ahmad); Javed, S (Javed, Saleem); Muthu, S (Muthu, S.)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1268 **Article Number:** 133696 **DOI:** 10.1016/j.molstruc.2022.133696 **Early Access Date:** JUL 2022 **Published:** NOV 15 2022

---

**Record 567 of 1000**

**Title:** Novel Drug Delivery Systems as an Emerging Platform for Stomach Cancer Therapy

**Author(s):** Hani, U (Hani, Umme); Osmani, RAM (Osmani, Riyaz Ali M.); Yasmin, S (Yasmin, Sabina); Gowda, BHJ (Gowda, B. H. Jaswanth); Ather, H (Ather, Hissana); Ansari, MY (Ansari, Mohammad Yousuf); Siddiqua, A (Siddiqua, Ayesha); Ghazwani, M (Ghazwani, Mohammed); Al Fatease, A (Al Fatease, Adel); Alamri, AH (Alamri, Ali H.); Rahamathulla, M (Rahamathulla, Mohamed); Begum, MY (Begum, M. Yasmin); Wahab, S (Wahab, Shadma)

**Source:** PHARMACEUTICS **Volume:** 14 **Issue:** 8 **Article Number:** 1576 **DOI:** 10.3390/pharmaceutics14081576 **Published:** AUG 2022

---

**Record 568 of 1000**

**Title:** Effect of TiO<sub>2</sub> Nanoparticles on Capillary-Driven Flow in Water Nanofilters Based on Chitosan Cellulose and Polyvinylidene Fluoride Nanocomposites: A Theoretical Study

**Author(s):** Mahdhi, N (Mahdhi, Nouredine); Alsaiani, NS (Alsaiani, Norah Salem); Amari, A (Amari, Abdelfattah); Chakhoum, MA (Chakhoum, Mohamed Ali)

**Source:** POLYMERS **Volume:** 14 **Issue:** 14 **Article Number:** 2908 **DOI:** 10.3390/polym14142908 **Published:** JUL 2022

---

**Record 569 of 1000**

**Title:** Disordered spinel cobalt oxide electrocatalyst for highly enhanced HER activity in an alkaline medium

**Author(s):** Muthukumar, P (Muthukumar, Pandi); 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:** 46 **Issue:** 26 **Pages:** 12558-12564 **DOI:** 10.1039/d2nj01879a **Early Access Date:** MAY 2022 **Published:** JUL 5 2022

---

**Record 570 of 1000**

**Title:** RETRACTED: Titanium doping effect on the sensing performance of ZnO nanosheets toward phosgene gas (Retracted Article)

**Author(s):** Menazea, AA (Menazea, A. A.); Awwad, NS (Awwad, Nasser S.); Ibrahim, HA (Ibrahim, Hala A.); Alharbi, KH (Alharbi, Khadijah H.); Alqahtani, MS (Alqahtani, Mohammed S.)

**Source:** PHYSICA SCRIPTA **Volume:** 97 **Issue:** 5 **Article Number:** 055816 **DOI:** 10.1088/1402-4896/ac6382 **Published:** MAY 1 2022

---

**Record 571 of 1000**

**Title:** Development of Advanced Artificial Intelligence and IoT Automation in the Crisis of COVID-19 Detection

**Author(s):** Kollu, PK (Kollu, Praveen Kumar); Kumar, K (Kumar, Kailash); Kshirsagar, PR (Kshirsagar, Pravin R.); Islam, S (Islam, Saiful); Naveed, QN (Naveed, Quadri Noorulhasan); Hussain, MR (Hussain, Mohammad Rashid); Sundramurthy, VP (Sundramurthy, Venkatesa Prabhu)

**Source:** JOURNAL OF HEALTHCARE ENGINEERING **Volume:** 2022 **Article Number:** 1987917 **DOI:** 10.1155/2022/1987917 **Published:** MAR 2 2022

---

**Record 572 of 1000**

**Title:** Optimizing the Metabolic Performance of Mixed Bacterial Culture Towards Dibenzothiophene Desulfurization under the Effect of Varying Nutrient and Environmental Factors

**Author(s):** Khan, J (Khan, Javed); Ali, MI (Ali, Muhammad Ishtiaq); Jamal, A (Jamal, Asif); Huang, ZX (Huang, Zaixing); Achakzai, JK (Achakzai, Jahangir Khan); Nasir, N (Nasir, Nazim); Muzammil, K (Muzammil, Khursheed); Qureshi, MZ (Qureshi, Muhammad Zahid)

**Source:** POLISH JOURNAL OF ENVIRONMENTAL STUDIES **Volume:** 31 **Issue:** 5 **Pages:** 4167-4175 **DOI:** 10.15244/pjoes/147650 **Published:** 2022

---

**Record 573 of 1000**

**Title:** Anti-HMG-CoA Reductase, Anti-diabetic, Anti-urease, Anti-tyrosinase and Anti-leukemia Cancer Potentials of Panicolin as a Natural Compound : In vitro and in silico Study

**Author(s):** Li, L (Li, Ling); Song, XY (Song, Xiyue); Ouyang, M (Ouyang, Meng); El-kott, AF (El-kott, Attalla F.); Bani-Fwaz, MZ (Bani-Fwaz, Mutasem Z.); Yu, ZB (Yu, Zebing)

**Source:** JOURNAL OF OLEO SCIENCE **Volume:** 71 **Issue:** 10 **Pages:** 1469-1480 **DOI:** 10.5650/jos.ess22156 **Published:** 2022

---

**Record 574 of 1000**

**Title:** Synthesis, crystal structure, Hirshfeld surface analysis, DNA binding, optical and nonlinear optical properties of Schiff bases derived from o-aminophenol

**Author(s):** Munawar, KS (Munawar, Khurram S.); Ali, S (Ali, Saqi); Muhammad, S (Muhammad, Shabbir); Ashfaq, M (Ashfaq, Muhammad); Abbas, SM (Abbas, Syed M.); Tahir, MN (Tahir, Muhammad N.); Siddeeg, SM (Siddeeg, Saifeldin M.); Ahmed, G (Ahmed, Gulzar)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1274 **Article Number:** 134427 **DOI:** 10.1016/j.molstruc.2022.134427 **Early Access Date:** OCT 2022 **Part:** 2 **Published:** FEB 15 2023

---

**Record 575 of 1000**

**Title:** Optimization and validation of stability indicating RP-HPLC method for the quantification of gefitinib in bulk drug and nanoformulations: An application towards *in vitro* and *ex vivo* performance evaluation

**Author(s):** Kumar, P (Kumar, Pankaj); Mangla, B (Mangla, Bharti); Beg, S (Beg, Sarwar); Afzal, O (Afzal, Obaid); Altamimi, ASA (Altamimi, Abdulmalik Saleh Alfawaz); Almalki, WH (Almalki, Waleed H.); Ullah, SNMN (Ullah, Shehla Nasar Mir Najib); Aggarwal, G (Aggarwal, Geeta)

**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 15 **Issue:** 12 **Article Number:** 104333 **DOI:** 10.1016/j.arabjc.2022.104333 **Early Access Date:** OCT 2022 **Published:** DEC 2022

---

**Record 576 of 1000**

**Title:** Ameliorative role of chitosan nanoparticles against silver nanoparticle-induced reproductive toxicity in male albino rats

**Author(s):** Mahgoob, AA (Mahgoob, Aya Abd Elhakeem); Tousson, E (Tousson, Ehab); Abd Eldaim, MA (Abd Eldaim, Mabrouk Attia); Ullah, S (Ullah, Sami); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Algarni, H (Algarni, Hamed); El Sayed, IE (El Sayed, Ibrahim El Tantawy)

**Source:** ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH **Volume:** 30 **Issue:** 7 **Pages:** 17374-17383 **DOI:** 10.1007/s11356-022-23312-1 **Early Access Date:** OCT 2022 **Published:** FEB 2023

---

**Record 577 of 1000**

**Title:** Hansen solubility parameters and green nanocarrier based removal of trimethoprim from contaminated aqueous solution

**Author(s):** Afzal, O (Afzal, Obaid); Alshammari, HA (Alshammari, Hisham Abdulaziz); Altamimi, MA (Altamimi, Mohammad A.); Hussain, A (Hussain, Afzal); Almohaywi, B (Almohaywi, Basmah); Altamimi, ASA (Altamimi, Abdulmalik S. A.)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 361 **Article Number:** 119657 **DOI:** 10.1016/j.molliq.2022.119657 **Published:** SEP 1 2022

---

**Record 578 of 1000**

**Title:** Studies on adsorption behavior of electrospun nanofibers for pollutant remediation from simulated wastewater

**Author(s):** Pal, DB (Pal, Dan Bahadur); Singh, A (Singh, Arvind); Saini, R (Saini, Roli); Srivastava, N (Srivastava, Neha); Muzammil, K (Muzammil, Khursheed); Ahmad, I (Ahmad, Irfan); Gupta, VK (Gupta, Vijai Kumar)

**Source:** APPLIED NANOSCIENCE **DOI:** 10.1007/s13204-022-02516-4 **Early Access Date:** JUL 2022

---

**Record 579 of 1000**

**Title:** New Potentiometric Screen-Printed Platforms Modified with Reduced Graphene Oxide and Based on Man-Made Imprinted Receptors for Caffeine Assessment

**Author(s):** Abd-Rabboh, HSM (Abd-Rabboh, Hisham S. M.); Amr, AEGE (Amr, Abdel El-Galil E.); Almehizia, AA (Almehizia, Abdulrahman A.); Naglah, AM (Naglah, Ahmed M.); Kamel, AH (Kamel, Ayman H.)

**Source:** POLYMERS **Volume:** 14 **Issue:** 10 **Article Number:** 1942 **DOI:** 10.3390/polym14101942 **Published:** MAY 2022

---

**Record 580 of 1000**

**Title:** Empowerment of Primary Healthcare Providers on the Prevention and Management of Dental or Oral Health Issues among Postchemotherapy Patients in Pandemic

**Author(s):** Paulsamym, P (Paulsamym, Premalatha); Venkatesan, K (Venkatesan, Krishnaraju); Mohamed, JMM (Mohamed, Jamal Moideen Muthu); Alshahrani, S (Alshahrani, ShadiaHamoud); Ramaiah, R (Ramaiah, Ramasubbamma); Easwaran, V (Easwaran, Vigneshwaran); El-Sherbiny, M (El-Sherbiny, Mohamed); Dosoky, M (Dosoky, Mohamed); Khan, NA (Khan, Noohu Abdulla); Prabahar, K (Prabahar, Kousalya); Kandasamy, G (Kandasamy, Geetha); Sahile, K (Sahile, Kibebe)

**Source:** JOURNAL OF HEALTHCARE ENGINEERING **Volume:** 2022 **Article Number:** 9087776 **DOI:** 10.1155/2022/9087776 **Published:** MAR 10 2022

---

**Record 581 of 1000**

**Title:** Particle Swarm-Assisted Artificial Neural Networks for Making Liquefied Natural Gas Processes Feasible Under Varying Feed Conditions

**Author(s):** Ahmad, A (Ahmad, Ashfaq); Qadeer, K (Qadeer, Kinza); Naquash, A (Naquash, Ahmad); Riaz, F (Riaz, Fahid); Hasan, M (Hasan, Mudassir); Qyyum, MA (Qyyum, Muhammad Abdul); Lee, M (Lee, Moonyong)

**Source:** FRONTIERS IN ENERGY RESEARCH **Volume:** 10 **Article Number:** 917656 **DOI:** 10.3389/fenrg.2022.917656 **Published:** JUL 11 2022

---

**Record 582 of 1000**

**Title:** siRNA-based nanocarriers for targeted drug delivery to control breast cancer

**Author(s):** Ashique, S (Ashique, Sumel); Almohaywi, B (Almohaywi, Basmah); Haider, N (Haider, Nazima); Yasmin, S (Yasmin, Sabina); Hussain, A (Hussain, Afzal); Mishra, N (Mishra, Neeraj); Garg, A (Garg, Ashish)

**Source:** ADVANCES IN CANCER BIOLOGY-METASTASIS **Volume:** 4 **Article Number:** 100047 **DOI:** 10.1016/j.adcanc.2022.100047 **Published:** JUL 2022

---

**Record 583 of 1000**

**Title:** Phytochemical investigations and biological work on aerial parts and roots of *Trigonella polycerata*

**Author(s):** Gull, S (Gull, Sadia); Chaudhry, BA (Chaudhry, Bashir Ahmad); Uzair, M (Uzair, Muhammad); Ghaffari, MA (Ghaffari, Muhammad Abuzar); Imran, M (Imran, Muhammad); Haneef, M (Haneef, Muhammad); Younus, M (Younus, Muhammad); Ashfaq, K (Ashfaq, Khuram); Abbas, M (Abbas, Muhammad); Razaque, G (Razaque, Ghulam)

**Source:** PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES **Volume:** 35 **Issue:** 4 **Special Issue:** SI **Pages:** 1261-1267 **DOI:** 10.36721/PJPS.2022.35.4.SP.1261-1267.1 **Published:** JUL 2022

---

**Record 584 of 1000**

**Title:** Nutraceutical and Pharmaceutical Behavior of Bioactive Compounds of Miracle Oilseeds: An Overview

**Author(s):** Morya, S (Morya, Sonia); Mena, F (Mena, Farid); Jiménez-López, C (Jimenez-Lopez, Cecilia); Lourenço-Lopes, C (Lourenco-Lopes, Catarina); BinMowyna, MN (BinMowyna, Mona Nasser); Alqahtani, A (Alqahtani, Ali)

**Source:** FOODS **Volume:** 11 **Issue:** 13 **Article Number:** 1824 **DOI:** 10.3390/foods11131824 **Published:** JUL 2022

---

**Record 585 of 1000**

**Title:** Investigation of BaO reinforced TiO<sub>2</sub>-p<sub>2</sub>O<sub>5</sub>-li<sub>2</sub>O glasses for optical and neutron shielding applications

**Author(s):** Shaaban, KS (Shaaban, Kh S.); Al-Baradi, AM (Al-Baradi, Ateyyah M.); Ali, AM (Ali, Atif Mossad)

**Source:** RSC ADVANCES **Volume:** 12 **Issue:** 5 **Pages:** 3036-3043 **DOI:** 10.1039/d2ra00171c **Published:** JAN 18 2022

---

**Record 586 of 1000**

**Title:** Valorization of spent coffee grounds for biogas production: A circular bioeconomy approach for a biorefinery

**Author(s):** Mahmoud, E (Mahmoud, Eyas); Atabani, AE (Atabani, A. E.); Badruddin, IA (Badruddin, Irfan Anjum)

**Source:** FUEL **Volume:** 328 **Article Number:** 125296 **DOI:** 10.1016/j.fuel.2022.125296 **Early Access Date:** JUL 2022 **Published:** NOV 15 2022

---

**Record 587 of 1000**

**Title:** Instrumental insemination: A nontraditional technique to produce superior quality honey bee (*Apis mellifera*) queens

**Author(s):** Khan, KA (Khan, Khalid Ali); Rafique, MK (Rafique, Muhammad Khalid); Lashari, MA (Lashari, Muhammad Akbar); Iqbal, A (Iqbal, Aneela); Mahmood, R (Mahmood, Rashid); Ahmed, AM (Ahmed, Agha Mushtaq); Khoso, FN (Khoso, Fahad Nazir); Ahmad, S (Ahmad, Saboor); AL-Shehri, BM (AL-Shehri, Badria M.); Mohammed, MEA (Mohammed, Mohammed Elimam Ahamed); Ghramh, HA (Ghramh, Hamed A.)

**Source:** JOURNAL OF KING SAUD UNIVERSITY SCIENCE **Volume:** 34 **Issue:** 5 **Article Number:** 102077 **DOI:** 10.1016/j.jksus.2022.102077 **Early Access Date:** MAY 2022 **Published:** JUL 2022

---

#### **Record 588 of 1000**

**Title:** Rubber composites based on renewable resources and their potential for application in flexible wearable antennas

**Author(s):** Al-Sehemi, A (Al-Sehemi, Abdullah); Al-Ghamdi, A (Al-Ghamdi, Ahmed); Dishovsky, N (Dishovsky, Nikolay); Atanasov, N (Atanasov, Nikolay); Atanasova, G (Atanasova, Gabriela)

**Source:** IRANIAN POLYMER JOURNAL **Volume:** 31 **Issue:** 9 **Pages:** 1117-1127 **DOI:** 10.1007/s13726-022-01061-9 **Early Access Date:** MAY 2022 **Published:** SEP 2022

---

#### **Record 589 of 1000**

**Title:** Effect of potassium on the structural, electronic, and optical properties of CsSrF<sub>3</sub> fluoro perovskite: First-principles computation with GGA-PBE

**Author(s):** Arif, H (Arif, Hina); Tahir, MB (Tahir, M. B.); Sagir, M (Sagir, M.); Alrobei, H (Alrobei, Hussein); Alzaid, M (Alzaid, Meshal); Ullah, S (Ullah, Sami); Hussien, M (Hussien, Mohamed)

**Source:** OPTIK **Volume:** 259 **Article Number:** 168741 **DOI:** 10.1016/j.ijleo.2022.168741 **Early Access Date:** MAR 2022 **Published:** JUN 2022

---

#### **Record 590 of 1000**

**Title:** The determination of potentially toxic elements (PTEs) in milk from the Southern Cities of Punjab, Pakistan: A health risk assessment study

**Author(s):** Kamal, GM (Kamal, Ghulam Mustafa); Rehmani, MN (Rehmani, Maham Nadia); Iqbal, SZ (Iqbal, Shahzad Zafar); Uddin, J (Uddin, Jalal); Nazir, S (Nazir, Saima); Ur Rehman, J (Ur Rehman, Jail); Hussain, AI (Hussain, Abdullah Ijaz); Khaneghah, AM (Khaneghah, Amin Mousavi)

**Source:** JOURNAL OF FOOD COMPOSITION AND ANALYSIS **Volume:** 108 **Article Number:** 104446 **DOI:** 10.1016/j.jfca.2022.104446 **Early Access Date:** FEB 2022 **Published:** MAY 2022

---

#### **Record 591 of 1000**

**Title:** Study of thermal characteristics of energy efficient micro channel heat sinks in advanced geometry structures and configurations: A review

**Author(s):** Rehman, Z (Rehman, Zabdur); Ahmad, F (Ahmad, Faraz); Muhammad, HA (Muhammad, Hafiz Ali); Riaz, F (Riaz, Fahid); Ayub, HMU (Ayub, Hafiz Muhammad Uzair); Hasan, M (Hasan, Mudassir); Lee, MY (Lee, Moonyong)

**Source:** FRONTIERS IN ENERGY RESEARCH **Volume:** 10 **Article Number:** 951066 **DOI:** 10.3389/fenrg.2022.951066 **Published:** JUL 25 2022

---

#### **Record 592 of 1000**

**Title:** Numerical study of heat transfer mechanism in the flow of ferromagnetic hybrid nanofluid over a stretching cylinder

**Author(s):** Sreenivasa, BR (Sreenivasa, B. R.); Faqeeh, AJ (Faqeeh, Alaa J.); Alsaiari, A (Alsaiari, Abdulmohsen); Alzahrani, HAH (Alzahrani, Hassan A. H.); Malik, MY (Malik, M. Y.)

**Source:** WAVES IN RANDOM AND COMPLEX MEDIA **DOI:** 10.1080/17455030.2022.2061084 **Early Access Date:** APR 2022

---

#### **Record 593 of 1000**

**Title:** Bioadsorbent and adsorbent-based heavy metal removal technologies from wastewater: new insight

**Author(s):** Tiwari, AK (Tiwari, Amit Kumar); Pal, SL (Pal, Sunder Lal); Srivastava, N (Srivastava, Neha); Shah, M (Shah, Maulin); Ahmad, I (Ahmad, Irfan); Alshahrani, MY (Alshahrani, Mohammad Y.); Pal, DB (Pal, Dan Bahadur)

**Source:** BIOMASS CONVERSION AND BIOREFINERY **Volume:** 13 **Issue:** 15 **Pages:** 13335-13356 **DOI:** 10.1007/s13399-022-02343-1 **Early Access Date:** JAN 2022 **Published:** OCT 2023

---

#### **Record 594 of 1000**

**Title:** Synthesis, anticancer evaluation, and molecular modeling study of new 2-(phenylamino)pyrazolo [1,5-a]pyrimidine analogues

**Author(s):** Azher, OA (Azher, Omer A.); Hossan, A (Hossan, Aisha); Pashameah, RA (Pashameah, Rami A.); Alsoliemy, A (Alsoliemy, Amerah); Alharbi, A (Alharbi, Arwa); Habeebullah, TM (Habeebullah, Turki M.); El-Metwaly, NM (El-Metwaly, Nashwa M.)

**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 16 **Issue:** 1 **Article Number:** 104437 **DOI:** 10.1016/j.arabjc.2022.104437 **Early Access Date:** NOV 2022 **Published:** JAN 2023

---

#### **Record 595 of 1000**

**Title:** Utilization of 4-fluoro-7-nitro-2,1,3-benzoxadiazole (NBD-F) as a fluorogenic reagent for the development of a spectrofluorometric assay method for taurine in energy drinks

**Author(s):** Alnajjar, AO (Alnajjar, Ahmed O.); Elbashir, AA (Elbashir, Abdallah Ahmed); Elgorashe, RE (Elgorashe, Rafea Elgack); Ebrahim, AM (Ebrahim, Ammar M.); Idris, AM (Idris, Abubakr M.); Abd El-Lateef, HM (Abd El-Lateef, Hany M.)

**Source:** JOURNAL OF CHEMICAL RESEARCH **Volume:** 46 **Issue:** 5 **Article Number:** 17475198221114760 **DOI:** 10.1177/17475198221114760 **Published:** SEP 2022

---

#### **Record 596 of 1000**

**Title:** Carbonization and optimization of biomass waste for HER application

**Author(s):** Thirumal, V (Thirumal, V.); Yuvakkumar, R (Yuvakkumar, R.); Saravanakumar, B (Saravanakumar, B.); Ravi, G (Ravi, G.); Isacfranklin, M (Isacfranklin, M.); Shobana, M (Shobana, M.); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Velauthapillai, D (Velauthapillai, Dhayalan)

**Source:** FUEL **Volume:** 324 **Article Number:** 124466 **DOI:** 10.1016/j.fuel.2022.124466 **Early Access Date:** MAY 2022 **Part:** A **Published:** SEP 15 2022

---

#### **Record 597 of 1000**

**Title:** One-step synthesis of rod-on-plate like 1D/2D-NiMoO<sub>4</sub>/BiOI nanocomposite for an efficient visible light driven photocatalyst for pollutant degradation

**Author(s):** Bavani, T (Bavani, Thirunghanam); Vinesh, V (Vinesh, Vasudevan); Neppolian, B (Neppolian, Bernaurdshaw); Murugesan, S (Murugesan, Sepperumal); Selvaraj, M (Selvaraj, Manickam); Madhavan, J (Madhavan, Jagannathan)

**Source:** ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH **Volume:** 29 **Issue:** 43 **Pages:** 65222-65232 **DOI:** 10.1007/s11356-022-19982-6 **Early Access Date:** APR 2022 **Published:** SEP 2022

---

#### **Record 598 of 1000**

**Title:** Phytogenic Fabrication of Copper Oxide Nanoparticles for Antibacterial and Antioxidant Screening: Physico-Chemical Study

**Author(s):** Rehman, FU (Rehman, Fazal Ur); Mahmood, R (Mahmood, Rashid); Haq, S (Haq, Sirajul); Ahmad, P (Ahmad, Pervaiz); Din, SU (Din, Salah Ud); Khandaker, MU (Khandaker, Mayeen Uddin); Idris, AM (Idris, Abubakr M. M.); Zekker, I (Zekker, Ivar)

**Source:** CRYSTALS **Volume:** 12 **Issue:** 12 **Article Number:** 1796 **DOI:** 10.3390/cryst12121796 **Published:** DEC 2022

---

#### **Record 599 of 1000**

**Title:** Performance of sunflower petal shaped CuCo<sub>2</sub>S<sub>4</sub> wrapping on GO asymmetric capacitor for energy storage applications

**Author(s):** Deepalakshmi, S (Deepalakshmi, S.); Revathy, MS (Revathy, M. S.); Marnadu, R (Marnadu, R.); Shkir, M (Shkir, Mohd)

**Source:** DIAMOND AND RELATED MATERIALS **Volume:** 127 **Article Number:** 109133 **DOI:** 10.1016/j.diamond.2022.109133 **Published:** AUG 2022

---

#### **Record 600 of 1000**

**Title:** Noticeably enhanced photosensing properties of Fe-doped Bi<sub>2</sub>S<sub>3</sub> thin films developed by nebulizer spray pyrolysis technique for photosensor applications

**Author(s):** Rajeswari, S (Rajeswari, S.); Ibrahim, MM (Ibrahim, M. Mohamed); Raj, ILP (Raj, I. Loyola Poul); Hakami, J (Hakami, Jabir); Imran, M (Imran, Mohd); AlFaify, S (AlFaify, S.); Shkir, M (Shkir, Mohd.)

**Source:** SENSORS AND ACTUATORS A-PHYSICAL **Volume:** 345 **Article Number:** 113759 **DOI:** 10.1016/j.sna.2022.113759 **Early Access Date:** JUL 2022 **Published:** OCT 1 2022

---

#### **Record 601 of 1000**

**Title:** Lattice Strain Analysis of Antimony Sulphide Nanorods

**Author(s):** Olatunde, OC (Olatunde, Olalekan C.); Marzouki, R (Marzouki, Riadh); Brahmia, A (Brahmia, Ameni); Onwudiwe, DC (Onwudiwe, Damian C.)

**Source:** JOURNAL OF CLUSTER SCIENCE **Volume:** 34 **Issue:** 4 **Pages:** 2017-2027 **DOI:** 10.1007/s10876-022-02363-x **Early Access Date:** OCT 2022 **Published:** JUL 2023

---

#### Record 602 of 1000

**Title:** Mathematical modeling and analysis of the SARS-Cov-2 disease with reinfection

**Author(s):** Atifa, A (Atifa, Asghar); Khan, MA (Khan, Muhammad Altaf); Iskakova, K (Iskakova, Kulpush); Al-Duais, FS (Al-Duais, Fuad S.); Ahmad, I (Ahmad, Irshad)

**Source:** COMPUTATIONAL BIOLOGY AND CHEMISTRY **Volume:** 98 **Article Number:** 107678 **DOI:** 10.1016/j.compbiolchem.2022.107678 **Early Access Date:** APR 2022 **Published:** JUN 2022

---

#### Record 603 of 1000

**Title:** Topological Attributes of Silicon Carbide  $\text{SiC}_{4-II[i,j]}$  Based on Ve-Degree and Ev-Degree

**Author(s):** Mahboob, A (Mahboob, Abid); Alrowaili, D (Alrowaili, Dalal); Alam, SM (Alam, Sajid Mahboob); Ali, R (Ali, Rifaqat); Rasheed, MW (Rasheed, Muhammad Waheed); Siddique, I (Siddique, Imran)

**Source:** JOURNAL OF CHEMISTRY **Volume:** 2022 **Article Number:** 3188993 **DOI:** 10.1155/2022/3188993 **Published:** APR 7 2022

---

#### Record 604 of 1000

**Title:** Experimental spectra, electronic energies (liquid and gaseous phases) quantum computational strategies and potential biological activity studies of (1E, 4E)-1, 5-bis (4-methoxyphenyl) penta-1,4-dien-3-one: An antiviral agent

**Author(s):** Aarthi, KV (Aarthi, K., V); Rajagopal, H (Rajagopal, Hemamalini); Muthu, S (Muthu, S.); Narayana, B (Narayana, B.); Asif, FB (Asif, Fazilath Basha); Irfan, A (Irfan, Ahmad); Javed, S (Javed, Saleem)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 356 **Article Number:** 119012 **DOI:** 10.1016/j.molliq.2022.119012 **Early Access Date:** MAR 2022 **Published:** JUN 15 2022

---

#### Record 605 of 1000

**Title:** Improved production of thermo-alkali-tolerant fungal cellulolytic cocktail following Co-fermentation of sugarcane bagasse and secondary sewage sludge

**Author(s):** Singh, P (Singh, Pardeep); Pal, DB (Pal, Dan Bahadur); Mohammad, A (Mohammad, Akbar); Alshahrani, MY (Alshahrani, Mohammad Y.); Ahmad, I (Ahmad, Irfan); Mishra, PK (Mishra, P. K.); Yoon, T (Yoon, Taeho); Srivastava, N (Srivastava, Neha)

**Source:** BIOMASS CONVERSION AND BIOREFINERY **DOI:** 10.1007/s13399-022-02694-9 **Early Access Date:** APR 2022

---

#### Record 606 of 1000

**Title:** First-principles calculations of electronic and optical properties of  $\text{AgGa}_{1-x}\text{Ti}_x\text{S}_2$  alloys: Analyses and design for solar cell applications

**Author(s):** Mouacher, R (Mouacher, R.); Seddik, T (Seddik, T.); Rezini, B (Rezini, B.); Ul Haq, B (Ul Haq, Bakhtiar); Batouche, M (Batouche, M.); Ugur, G (Ugur, G.); Ugur, S (Ugur, S.); Belfedal, A (Belfedal, A.)

**Source:** JOURNAL OF SOLID STATE CHEMISTRY **Volume:** 309 **Article Number:** 122996 **DOI:** 10.1016/j.jssc.2022.122996 **Early Access Date:** FEB 2022 **Published:** MAY 2022

---

#### Record 607 of 1000

**Title:** Physical, Mechanical, and Thermal Characteristics of  $\text{B}_2\text{O}_3 - \text{SiO}_2 - \text{Li}_2\text{O} - \text{Fe}_2\text{O}_3$  Glasses

**Author(s):** Shaaban, KS (Shaaban, Kh. S.); Al-Baradi, AM (Al-Baradi, Ateyyah M.); Ali, AM (Ali, Atif Mossad)

**Source:** SILICON **Volume:** 14 **Issue:** 15 **Pages:** 9609-9616 **DOI:** 10.1007/s12633-022-01703-w **Early Access Date:** FEB 2022 **Published:** OCT 2022

---

#### Record 608 of 1000

**Title:** RETRACTED: Molecular Docking and Green Synthesis of Bioinorganic  $\text{TiO}_2$  Nanoparticles against *E.coli* and *S.aureus* (Retracted Article)

**Author(s):** Al-Serwi, RH (Al-Serwi, Rasha Hamed); El-Sherbiny, M (El-Sherbiny, Mohamed); Kumar, TVA (Kumar, T. V. Ajay); Qasim, AA (Qasim, Abdulmalik Abdulghani); Khattar, T (Khattar, Thekra); Alghazwani, Y (Alghazwani,

Yahia); Alqahtani, A (Alqahtani, Ali); Krishnaraju, V (Krishnaraju, Venkatesan); Mohamed, JMM (Muthu Mohamed, Jamal Moideen); Sundramurthy, VP (Sundramurthy, Venkatesa Prabhu)

**Source:** BIOINORGANIC CHEMISTRY AND APPLICATIONS **Volume:** 2022 **Article Number:** 1142727 **DOI:** 10.1155/2022/1142727 **Published:** OCT 15 2022

---

#### Record 609 of 1000

**Title:** Structural Evaluation, Optical, and Dielectric Properties of Ba-Doped Ca<sub>4</sub>Ti<sub>3</sub>O<sub>10</sub>-Sintered Ceramics

**Author(s):** Ali, A (Ali, Asad); Zaman, A (Zaman, Abid); Khan, MK (Khan, Muhammad Kamran); Ben Farhat, L (Ben Farhat, Lamia); Jabbar, AH (Jabbar, Abdullah Hasan); Badi, KM (Badi, Karrar Mahdi); Ullah, I (Ullah, Ihsan); Tirth, V (Tirth, Vineet); Khan, S (Khan, Salman)

**Source:** JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM **Volume:** 35 **Issue:** 7 **Pages:** 1987-1993 **DOI:** 10.1007/s10948-022-06300-x **Early Access Date:** JUN 2022 **Published:** JUL 2022

---

#### Record 610 of 1000

**Title:** Morphological and optical investigation of 2D material-based ternary nanocomposite: Bi<sub>2</sub>O<sub>3</sub>/MgO/GO synthesized by a co-precipitation technique

**Author(s):** Urooj, A (Urooj, Ashwa); Rani, M (Rani, Malika); Shah, AA (Shah, Aqeel Ahmad); Aslam, S (Aslam, Samina); Siddiqui, R (Siddiqui, Rabia); Siddiqua, A (Siddiqua, Aisha); Neffati, R (Neffati, R.); Chandio, AD (Chandio, Ali Dad)

**Source:** RSC ADVANCES **Volume:** 12 **Issue:** 51 **Pages:** 32986-32993 **DOI:** 10.1039/d2ra04760h **Published:** NOV 15 2022

---

#### Record 611 of 1000

**Title:** Investigating the effect of alkali metals on the structural & optoelectronic properties of hexafluorozirconate red phosphors A<sub>2</sub>ZrF<sub>6</sub> (A = Cs, K, Na) using first-principles calculations: A prospect for warm-white LEDs (w-LEDs) applications

**Author(s):** Abbas, Z (Abbas, Zeesham); Fatima, K (Fatima, Kisa); Muhammad, S (Muhammad, Shabbir); Siddeeg, SM (Siddeeg, Saifeldin M.); Ali, A (Ali, Ahsan); Hussain, S (Hussain, Sajjad); Jung, JW (Jung, Jongwan)

**Source:** JOURNAL OF SOLID STATE CHEMISTRY **Volume:** 317 **Article Number:** 123689 **DOI:** 10.1016/j.jssc.2022.123689 **Early Access Date:** NOV 2022 **Part:** A **Published:** JAN 2023

---

#### Record 612 of 1000

**Title:** The status of natural radioactivity in Nigerian environments

**Author(s):** Olatunji, MA (Olatunji, Michael A.); Khandaker, MU (Khandaker, Mayeen U.); Nwankwo, VUJ (Nwankwo, Victor U. J.); Idris, AM (Idris, Abubakr M.)

**Source:** RADIATION AND ENVIRONMENTAL BIOPHYSICS **Volume:** 61 **Issue:** 4 **Pages:** 597-608 **DOI:** 10.1007/s00411-022-00993-3 **Early Access Date:** SEP 2022 **Published:** NOV 2022

---

#### Record 613 of 1000

**Title:** Extraction and Evaluation of the Antimicrobial Activity of Polyphenols from Banana Peels Employing Different Extraction Techniques

**Author(s):** Chaudhry, F (Chaudhry, Faiqa); Ahmad, ML (Ahmad, Muhammad Laiq); Hayat, Z (Hayat, Zafar); Ranjha, MMAN (Ranjha, Muhammad Modassar Ali Nawaz); Chaudhry, K (Chaudhry, Komal); Elboughdiri, N (Elboughdiri, Nouredine); Asmari, M (Asmari, Mufarreh); Uddin, J (Uddin, Jalal)

**Source:** SEPARATIONS **Volume:** 9 **Issue:** 7 **Article Number:** 165 **DOI:** 10.3390/separations9070165 **Published:** JUL 2022

---

#### Record 614 of 1000

**Title:** Structural Evolution and Microwave Dielectric Properties of Ba<sub>1-x</sub>Sr<sub>x</sub>Ti<sub>4</sub>O<sub>9</sub>, (0.0 ≤ x ≤ 0.06) Ceramics

**Author(s):** Ali, A (Ali, Asad); Zaman, A (Zaman, Abid); Abdulmani, SAA (Abdulmani, Sharah A. A.); Abbas, M (Abbas, Mujahid); Mushtaq, M (Mushtaq, Muhammad); Bashir, K (Bashir, Khalid); Amami, M (Amami, Mongi); Althubeiti, K (Althubeiti, Khaled)

**Source:** ACS OMEGA **Volume:** 7 **Issue:** 2 **Pages:** 2331-2336 **DOI:** 10.1021/acsomega.1c06212 **Early Access Date:** JAN 2022 **Published:** JAN 18 2022

---

#### Record 615 of 1000

**Title:** Single-Step Acer pentapomicum-Mediated Green Synthesis of Silver Nanoparticles and Their Potential Antimicrobial and Antioxidant Activities

**Author(s):** Khan, S (Khan, Shehla); Almarhoon, ZM (Almarhoon, Zainab M.); Bakht, J (Bakht, Jehan); Mabkhot, YN (Mabkhot, Yahia N.); Rauf, A (Rauf, Abdur); Shad, AA (Shad, Anwar Ali)

**Source:** JOURNAL OF NANOMATERIALS **Volume:** 2022 **Article Number:** 3783420 **DOI:** 10.1155/2022/3783420 **Published:** APR 11 2022

---

#### Record 616 of 1000

**Title:** Synthesis, Antimycobacterial Screening and Molecular Docking Studies of 2-(Furan-3-yl)-5-phenyl-1,3,4-oxadiazole Derivatives

**Author(s):** Halawi, M (Halawi, Mustafa); Almeahmadi, MM (Almeahmadi, Mazen M.); Abdulaziz, O (Abdulaziz, Osama); Asif, M (Asif, Mohammad); Kamal, M (Kamal, Mehnaz); Hassan, MZ (Hassan, Mohd. Zaheen)

**Source:** LATIN AMERICAN JOURNAL OF PHARMACY **Volume:** 41 **Issue:** 9 **Pages:** 1704-1710 **Published:** 2022

---

#### Record 617 of 1000

**Title:** Hyaluronic acid-based nanofibers: Electrospun synthesis and their medical applications; recent developments and future perspective

**Author(s):** Humaira (Humaira); Bukhari, SAR (Bukhari, Sayyad Ali Raza); Shakir, HA (Shakir, Hafiz Abdullah); Khan, M (Khan, Muhammad); Saeed, S (Saeed, Shagufta); Ahmad, I (Ahmad, Irfan); Muzammil, K (Muzammil, Khursheed); Franco, M (Franco, Marcelo); Irfan, M (Irfan, Muhammad); Li, K (Li, Kun)

**Source:** FRONTIERS IN CHEMISTRY **Volume:** 10 **Article Number:** 1092123 **DOI:** 10.3389/fchem.2022.1092123 **Published:** DEC 23 2022

---

#### Record 618 of 1000

**Title:** Two dimensional (2D) MXenes as an emerging class of materials for antimicrobial applications: properties and mechanisms

**Author(s):** Balu, SK (Balu, Satheesh kumar); Andra, S (Andra, Swetha); Chitra, S (Chitra, S.); Ramadoss, R (Ramadoss, Ramya); Kumar, YR (Kumar, Y. Ravi); Selvaraj, M (Selvaraj, Manickam); Ghramh, HA (Ghramh, Hamed A.); Assiri, MA (Assiri, Mohammed A.); Mohan, S (Mohan, Sakar)

**Source:** JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING **Volume:** 10 **Issue:** 6 **Article Number:** 108663 **DOI:** 10.1016/j.jece.2022.108663 **Early Access Date:** OCT 2022 **Published:** DEC 2022

---

#### Record 619 of 1000

**Title:** Variation in Vortex-Induced Vibration Phenomenon Due to Surface Roughness on Low- and High-Mass-Ratio Circular Cylinders: A Numerical Study

**Author(s):** Anwar, MU (Anwar, Muhammad Usman); Khan, NB (Khan, Niaz Bahadur); Arshad, M (Arshad, Muhammad); Munir, A (Munir, Adnan); Bashir, MN (Bashir, Muhammad Nasir); Jameel, M (Jameel, Mohammed); Rehman, MF (Rehman, Muhammad Faisal); Eldin, SM (Eldin, Sayed M.)

**Source:** JOURNAL OF MARINE SCIENCE AND ENGINEERING **Volume:** 10 **Issue:** 10 **Article Number:** 1465 **DOI:** 10.3390/jmse10101465 **Published:** OCT 2022

---

#### Record 620 of 1000

**Title:** Evaluation of Wound Healing Activity (Excision Wound Model) of Ointment Prepared from Infusion Extract of Polyherbal Tea Bag Formulation in Diabetes-Induced Rats

**Author(s):** Quazi, A (Quazi, Aamir); Patwekar, M (Patwekar, Mohsina); Patwekar, F (Patwekar, Faheem); Mezni, A (Mezni, Amine); Ahmad, I (Ahmad, Irfan); Islam, F (Islam, Fahadul)

**Source:** EVIDENCE-BASED COMPLEMENTARY AND ALTERNATIVE MEDICINE **Volume:** 2022 **Article Number:** 1372199 **DOI:** 10.1155/2022/1372199 **Published:** JUN 6 2022

---

#### Record 621 of 1000

**Title:** Numerical simulation and artificial neural network prediction of hydrodynamic and heat transfer in a geothermal heat exchanger to obtain the optimal diameter of tubes with the lowest entropy using water and Al<sub>2</sub>O<sub>3</sub>/water nanofluid

**Author(s):** El Jery, A (El Jery, Atef); Khudhair, AK (Khudhair, Ahmed Kareem); Abbas, SQ (Abbas, Saad Qasim); Abed, AM (Abed, Azher M.); Khedher, KM (Khedher, Khaled Mohamed)

**Source:** GEOTHERMICS **Volume:** 107 **Article Number:** 102605 **DOI:** 10.1016/j.geothermics.2022.102605 **Early Access Date:** NOV 2022 **Published:** JAN 2023

---



### Record 622 of 1000

**Title:** Fabrication, characterization of NiO-Co<sub>3</sub>O<sub>4</sub>/rGO based nanohybrid and application in the development of non-enzymatic glucose sensor

**Author(s):** Mustafa, A (Mustafa, Ahmad); Alsafari, IA (Alsafari, Ibrahim A.); Somaily, HH (Somaily, H. H.); Yousaf, S (Yousaf, Sheraz); Din, MI (Din, Muhammad Imran); Rahman, J (Rahman, Jameel); Shahid, M (Shahid, Muhammad); Ashraf, M (Ashraf, Muhammad); Warsi, MF (Warsi, Muhammad Farooq)

**Source:** PHYSICA B-CONDENSED MATTER **Volume:** 648 **Article Number:** 414404 **DOI:** 10.1016/j.physb.2022.414404 **Early Access Date:** OCT 2022 **Published:** JAN 1 2023

---

### Record 623 of 1000

**Title:** Evaluation of the corrosion inhibition behavior of N, S co-doped memory-type carbon dots for mild steel in HCl solution

**Author(s):** Guo, L (Guo, Lei); Zhu, MY (Zhu, Mengyue); Shi, W (Shi, Wei); Wang, K (Wang, Kai); Leng, SL (Leng, Senlin); Brahmia, A (Brahmia, Ameni)

**Source:** MATERIALS LETTERS **Volume:** 330 **Article Number:** 133403 **DOI:** 10.1016/j.matlet.2022.133403 **Early Access Date:** OCT 2022 **Published:** JAN 1 2023

---

### Record 624 of 1000

**Title:** Exploring Highly Functionalized Tetrahydropyridine as a Dual Inhibitor of Monoamine Oxidase A and B: Synthesis, Structural Analysis, Single Crystal XRD, Supramolecular Assembly Exploration by Hirshfeld Surface Analysis, and Computational Studies

**Author(s):** Khan, BA (Khan, Bilal Ahmad); Ashfaq, M (Ashfaq, Muhammad); Muhammad, S (Muhammad, Shabbir); Munawar, KS (Munawar, Khurram Shahzad); Tahir, MN (Tahir, Muhammad Nawaz); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Alarfaji, SS (Alarfaji, Saleh S.)

**Source:** ACS OMEGA **Volume:** 7 **Issue:** 33 **Pages:** 29452-29464 **DOI:** 10.1021/acsomega.2c03909 **Published:** AUG 23 2022

---

### Record 625 of 1000

**Title:** Environmental geochemistry of higher radioactivity in a transboundary Himalayan river sediment (Brahmaputra, Bangladesh): potential radiation exposure and health risks

**Author(s):** Khan, R (Khan, Rahat); Islam, HMT (Islam, Hossain Mohammad Touhidul); Apon, MAS (Apon, Md Adnan Sarker); Islam, AMT (Islam, Abu Reza Md Towfiqul); Habib, MA (Habib, Md Ahosan); Phoungthong, K (Phoungthong, Khamphe); Idris, AM (Idris, Abubakr M.); Techato, K (Techato, Kuaanan)

**Source:** ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH **Volume:** 29 **Issue:** 38 **Pages:** 57357-57375 **DOI:** 10.1007/s11356-022-19735-5 **Early Access Date:** MAR 2022 **Published:** AUG 2022

---

### Record 626 of 1000

**Title:** One-pot synthesis of bismuth yttrium tungstate nanosheet decorated 3D-BiOBr nanoflower heterostructure with enhanced visible light photocatalytic activity

**Author(s):** Bavani, T (Bavani, Thirungnanam); Selvi, A (Selvi, Adikesavan); Madhavan, J (Madhavan, Jagannathan); Selvaraj, M (Selvaraj, Manickam); Vinesh, V (Vinesh, Vasudevan); Neppolian, B (Neppolian, Bernaurdshaw); Vijayanand, S (Vijayanand, Selvaraj); Murugesan, S (Murugesan, Sepperumal)

**Source:** CHEMOSPHERE **Volume:** 297 **Article Number:** 133993 **DOI:** 10.1016/j.chemosphere.2022.133993 **Early Access Date:** MAR 2022 **Published:** JUN 2022

---

### Record 627 of 1000

**Title:** Numerical investigation of nanofluid flow with gold and silver nanoparticles injected inside a stenotic artery

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

**Source:** MATERIALS & DESIGN **Volume:** 223 **Article Number:** 111130 **DOI:** 10.1016/j.matdes.2022.111130 **Early Access Date:** SEP 2022 **Published:** NOV 2022

---

### Record 628 of 1000

**Title:** Novel nitrogen based heterocyclic compound as Q235 steel corrosion inhibitor in 15% HCl under dynamic condition: A detailed experimental and surface analysis

**Author(s):** Caihong, Y (Caihong, Yin); Singh, A (Singh, Ambrish); Ansari, KR (Ansari, K. R.); Ali, IH (Ali, Ismat H.); Kumar, R (Kumar, Raman)

**Record 629 of 1000**

**Title:** 3D CoMoO<sub>4</sub> nanoflake arrays decorated disposable pencil graphite electrode for selective and sensitive enzyme-less electrochemical glucose sensors

**Author(s):** Priyanga, N (Priyanga, N.); Sasikumar, K (Sasikumar, K.); Raja, AS (Raja, A. Sahaya); Pannipara, M (Pannipara, Mehboobali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Michael, RJV (Michael, R. Jude Vimal); Kumar, MP (Kumar, M. Praveen); Alphonsa, AT (Alphonsa, A. Therasa); Kumar, GG (Kumar, G. Gnana)

**Source:** MICROCHIMICA ACTA **Volume:** 189 **Issue:** 5 **Article Number:** 200 **DOI:** 10.1007/s00604-022-05270-0 **Published:** MAY 2022

---

**Record 630 of 1000**

**Title:** Gamma-ray shielding and mechanical characteristics of iron-doped lead phosphosilicate glasses

**Author(s):** Shaaban, KS (Shaaban, Kh S.); Al-Baradi, AM (Al-Baradi, Ateyyah M.); Ali, AM (Ali, Atif Mossad)

**Source:** SILICON **Volume:** 14 **Issue:** 14 **Pages:** 8971-8979 **DOI:** 10.1007/s12633-022-01702-x **Early Access Date:** JAN 2022 **Published:** SEP 2022

---

**Record 631 of 1000**

**Title:** Cell Cycle Arrest and Apoptosis-Inducing Ability of Benzimidazole Derivatives: Design, Synthesis, Docking, and Biological Evaluation

**Author(s):** Nazreen, S (Nazreen, Syed); Almalki, ASA (Almalki, Abdulraheem S. A.); Elbehairi, SEI (Elbehairi, Serag Eldin, I); Shati, AA (Shati, Ali A.); Alfaifi, MY (Alfaifi, Mohammad Y.); Elhenawy, AA (Elhenawy, Ahmed A.); Alsenani, NI (Alsenani, Nawaf, I); Alfarsi, A (Alfarsi, Anas); Alhadhrami, A (Alhadhrami, Abdulrahman); Alqurashi, EA (Alqurashi, Esam A.); Alam, MM (Alam, Mohammad Mahboob)

**Source:** MOLECULES **Volume:** 27 **Issue:** 20 **Article Number:** 6899 **DOI:** 10.3390/molecules27206899 **Published:** OCT 2022

---

**Record 632 of 1000**

**Title:** Fabrication of Ethosomes Containing Tocopherol Acetate to Enhance Transdermal Permeation: In Vitro and Ex Vivo Characterizations

**Author(s):** Akhtar, N (Akhtar, Naheed); Akhtar, N (Akhtar, Naveed); Mena, F (Mena, Farid); Alharbi, W (Alharbi, Walaa); Alaryani, FSS (Alaryani, Fatima Saad Salem); Alqahtani, AM (Alqahtani, Ali Musfer); Ahmad, F (Ahmad, Faizan)

**Source:** GELS **Volume:** 8 **Issue:** 6 **Article Number:** 335 **DOI:** 10.3390/gels8060335 **Published:** JUN 2022

---

**Record 633 of 1000**

**Title:** Pronounced effect of PbI<sub>2</sub> nanoparticles doping on optoelectronic properties of PVA films for photoelectronic applications

**Author(s):** El-Zahhar, AA (El-Zahhar, Adel A.); Ashraf, IM (Ashraf, I. M.); Idris, AM (Idris, Abubakr M.); Zkria, A (Zkria, Abdelrahman)

**Source:** PHYSICA B-CONDENSED MATTER **Volume:** 630 **Article Number:** 413604 **DOI:** 10.1016/j.physb.2021.413604 **Early Access Date:** JAN 2022 **Published:** APR 1 2022

---

**Record 634 of 1000**

**Title:** Machinability Performance Investigation of TiAlN-, DLC-, and CNT-Coated Tools during Turning of Difficult-to-Cut Materials

**Author(s):** Chenrayan, V (Chenrayan, Venkatesh); Manivannan, C (Manivannan, Chandru); Shahapurkar, K (Shahapurkar, Kiran); Krishna, A (Krishna, Ankit); Tirth, V (Tirth, Vineet); Algahtani, A (Algahtani, Ali); Alarifi, IM (Alarifi, Ibrahim M.)

**Source:** JOURNAL OF NANOMATERIALS **Volume:** 2022 **Article Number:** 9664365 **DOI:** 10.1155/2022/9664365 **Published:** NOV 28 2022

---

**Record 635 of 1000**

**Title:** A study on methylene blue degradation: enhanced photocatalytic activity of Ag-ZnO nanocomposites

**Author(s):** Sudhan, N (Sudhan, N.); Rathiha, SK (Rathiha, S. K.); Balasubramanian, V (Balasubramanian, V); Pandiaraman, M (Pandiaraman, M.); Aravind, D (Aravind, D.); Natarajan, V (Natarajan, Varagunapandiyani); Ismail, MA (Ismail, Mohamed A.); Vinodhkumar, G (Vinodhkumar, G.)

### Record 636 of 1000

**Title:** Preparation of photoluminescent nanocomposite ink for detection and mapping of fingerprints

**Author(s):** Snari, RM (Snari, Razan M.); Pashameah, RA (Pashameah, Rami A.); Alatawi, NM (Alatawi, Nada M.); Mogharbel, AT (Mogharbel, Amal T.); Al-Ahmed, ZA (Al-Ahmed, Zehbah A.); Abumelha, HM (Abumelha, Hana M.); El-Metwaly, NM (El-Metwaly, Nashwa M.)

**Source:** MICROSCOPY RESEARCH AND TECHNIQUE Volume: 85 Issue: 12 Pages: 3871-3881 DOI: 10.1002/jemt.24244 Early Access Date: OCT 2022 Published: DEC 2022

---

### Record 637 of 1000

**Title:** Heterocyclic Compounds as Dipeptidyl Peptidase-IV Inhibitors with Special Emphasis on Oxadiazoles as Potent Anti-Diabetic Agents

**Author(s):** Mohammad, BD (Mohammad, Badrud Duza); Baig, MS (Baig, Mirza Shahed); Bhandari, N (Bhandari, Neeraj); Siddiqui, FA (Siddiqui, Falak A.); Khan, SL (Khan, Sharuk L.); Ahmad, Z (Ahmad, Zubair); Khan, FS (Khan, Farhat S.); Tagde, P (Tagde, Priti); Jeandet, P (Jeandet, Philippe)

**Source:** MOLECULES Volume: 27 Issue: 18 Article Number: 6001 DOI: 10.3390/molecules27186001 Published: SEP 2022

---

### Record 638 of 1000

**Title:** Electrical, photoconductive, and photovoltaic characteristics of a Bi<sub>2</sub>Se<sub>3</sub> 3D insulator based metal-insulator-semiconductor diode

**Author(s):** Ocaya, RO (Ocaya, Richard O.); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Dere, A (Dere, Aysegul); Al-Ghamdi, AA (Al-Ghamdi, Ahmed A.); Yakuphanog, F (Yakuphanog, Fahrettin)

**Source:** SENSORS AND ACTUATORS A-PHYSICAL Volume: 341 Article Number: 113575 DOI: 10.1016/j.sna.2022.113575 Early Access Date: APR 2022 Published: JUL 1 2022

---

### Record 639 of 1000

**Title:** Porous Carbon Nanospheres and Gold Nanocomposite-Based Electrochemical Aptasensor for the Detection of Streptomycin

**Author(s):** Al Fatease, A (Al Fatease, Adel); Yin, JL (Yin, Junling); Guo, WJ (Guo, Wenjuan); Umar, A (Umar, Ahmad)

**Source:** JOURNAL OF BIOMEDICAL NANOTECHNOLOGY Volume: 18 Issue: 12 Pages: 2868-2876 DOI: 10.1166/jbn.2022.3500 Published: DEC 2022

---

### Record 640 of 1000

**Title:** Enhancing the photoinduced via a novel nano-combination of terbium oxide and nickel oxide on graphene oxide surface: Cytotoxicity and water treatment

**Author(s):** Khalaf, EI (Khalaf, Eman I.); El-Shafai, NM (El-Shafai, Nagi M.); Nassar, AM (Nassar, Ali M.); Assem, EE (Assem, Essam E.); Yahia, IS (Yahia, Ibrahim S.); El-Mehasseb, IM (El-Mehasseb, Ibrahim M.)

**Source:** SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY Volume: 286 Article Number: 121949 DOI: 10.1016/j.saa.2022.121949 Early Access Date: OCT 2022 Published: FEB 5 2023

---

### Record 641 of 1000

**Title:** DFT based modeling of asymmetric non-fullerene acceptors for high-performance organic solar cell

**Author(s):** Kanwal, N (Kanwal, Noureen); Hussain, R (Hussain, Riaz); Sattar, A (Sattar, Abdul); Assiri, MA (Assiri, Mohammed A.); Imran, M (Imran, Muhammad); Hussain, A (Hussain, Ajaz); Yawer, MA (Yawer, Mirza Arfan); Hussain, R (Hussain, Riaz); Mehboob, MY (Mehboob, Muhammad Yasir); Khalid, M (Khalid, Muhammad); Ayub, K (Ayub, Khurshid); Hassan, T (Hassan, Talha)

**Source:** OPTICAL AND QUANTUM ELECTRONICS Volume: 54 Issue: 9 Article Number: 546 DOI: 10.1007/s11082-022-03932-0 Published: SEP 2022

---

### Record 642 of 1000

**Title:** Biomass valorization of *Eichhornia crassipes* root using thermogravimetric analysis

**Author(s):** Pal, DB (Pal, Dan Bahadur); Tiwari, AK (Tiwari, Amit Kumar); Srivastava, N (Srivastava, Neha); Ahmad, I (Ahmad, Irfan); Abohashrh, M (Abohashrh, Mohammed); Gupta, VK (Gupta, Vijai Kumar)

**Source:** ENVIRONMENTAL RESEARCH **Volume:** 214 **Article Number:** 114046 **DOI:** 10.1016/j.envres.2022.114046 **Early Access Date:** AUG 2022 **Part:** 4 **Published:** NOV 2022

---

#### **Record 643 of 1000**

**Title:** Analysis of Natural Convection in Nanofluid Flow through a Channel with Source/Sink Effect

**Author(s):** Siddique, I (Siddique, Imran); Sadiq, K (Sadiq, Kashif); Jarad, F (Jarad, Fahd); Al Mesfer, MK (Al Mesfer, Mohammed K.); Danish, M (Danish, Mohd); Yaqoob, S (Yaqoob, Sonia)

**Source:** JOURNAL OF NANOMATERIALS **Volume:** 2022 **Article Number:** 2738398 **DOI:** 10.1155/2022/2738398 **Published:** MAY 4 2022

---

#### **Record 644 of 1000**

**Title:** Learning from Fullerenes and Predicting for Y6: Machine Learning and High-Throughput Screening of Small Molecule Donors for Organic Solar Cells

**Author(s):** Irfan, A (Irfan, Ahmad); Hussien, M (Hussien, Mohamed); Mehboob, MY (Mehboob, Muhammad Yasir); Ahmad, A (Ahmad, Aziz); Janjua, MRSA (Janjua, Muhammad Ramzan Saeed Ashraf)

**Source:** ENERGY TECHNOLOGY **Volume:** 10 **Issue:** 6 **Article Number:** 2101096 **DOI:** 10.1002/ente.202101096 **Early Access Date:** APR 2022 **Published:** JUN 2022

---

#### **Record 645 of 1000**

**Title:** Preferred coordination of polymers at MOFs enables improved lithium-ion battery anode performance

**Author(s):** Idrees, M (Idrees, Muhammad); Batool, S (Batool, Saima); Javed, MS (Javed, Muhammad Sufyan); Din, MAU (Din, Muhammad Aizaz Ud); Imran, M (Imran, Muhammad); Chen, ZW (Chen, Zhangwei)

**Source:** MATERIALS CHEMISTRY FRONTIERS **Volume:** 6 **Issue:** 12 **Pages:** 1690-1705 **DOI:** 10.1039/d2qm00174h **Early Access Date:** MAY 2022 **Published:** JUN 13 2022

---

#### **Record 646 of 1000**

**Title:** Comparative study of ternary metal chalcogenides (MX; M= Zn-Co-Ni; X= S, Se, Te): Formation process, charge storage mechanism and hybrid supercapacitor

**Author(s):** Ahmad, M (Ahmad, Muhammad); Hussain, I (Hussain, Iftikhar); Nawaz, T (Nawaz, Tehseen); Li, YX (Li, Yuxiang); Chen, X (Chen, Xi); Ali, S (Ali, Shafqat); Imran, M (Imran, Muhammad); Ma, XX (Ma, Xiaoxia); Zhang, KL (Zhang, Kaili)

**Source:** JOURNAL OF POWER SOURCES **Volume:** 534 **Article Number:** 231414 **DOI:** 10.1016/j.jpowsour.2022.231414 **Early Access Date:** APR 2022 **Published:** JUN 30 2022

---

#### **Record 647 of 1000**

**Title:** Quinoline conjugated 2-azetidinone derivatives as prospective anti-breast cancer agents: *In vitro* antiproliferative and anti-EGFR activities, molecular docking and in-silico drug likeliness studies

**Author(s):** Govindarao, K (Govindarao, K.); Srinivasan, N (Srinivasan, N.); Suresh, R (Suresh, R.); Raheja, RK (Raheja, R. K.); Annadurai, S (Annadurai, Sivakumar); Bhandare, RR (Bhandare, Richie R.); Shaik, AB (Shaik, Afzal B.)

**Source:** JOURNAL OF SAUDI CHEMICAL SOCIETY **Volume:** 26 **Issue:** 3 **Article Number:** 101471 **DOI:** 10.1016/j.jscs.2022.101471 **Early Access Date:** APR 2022 **Published:** MAY 2022

---

#### **Record 648 of 1000**

**Title:** Taguchi L25 (5<sup>4</sup>) Approach for Methylene Blue Removal by Polyethylene Terephthalate Nanofiber-Multi-Walled Carbon Nanotube Composite

**Author(s):** Essa, WK (Essa, Wafa K.); Yasin, SA (Yasin, Suhad A.); Abdullah, AH (Abdullah, Anwar H.); Thalji, MR (Thalji, Mohammad R.); Saeed, IA (Saeed, Ibtisam A.); Assiri, MA (Assiri, Mohammed A.); Chong, KF (Chong, Kwok Feng); Ali, GAM (Ali, Gomaa A. M.)

**Source:** WATER **Volume:** 14 **Issue:** 8 **Article Number:** 1242 **DOI:** 10.3390/w14081242 **Published:** APR 2022

---

#### **Record 649 of 1000**

**Title:** Pharmacological Justification for the Medicinal Use of *Plumeria rubra* Linn. in Cardiovascular Disorders

**Author(s):** Khan, IA (Khan, Imran Ahmad); Hussain, M (Hussain, Musaddique); Syed, SK (Syed, Shahzada Khurram); Saadullah, M (Saadullah, Malik); Alqahtani, AM (Alqahtani, Ali M.); Alqahtani, T (Alqahtani, Taha); Aldahish, AA (Aldahish, Afaf A.); Asiri, S (Asiri, Saeed); Zeng, LH (Zeng, Ling-Hui)

**Source:** MOLECULES **Volume:** 27 **Issue:** 1 **Article Number:** 251 **DOI:** 10.3390/molecules27010251 **Published:** JAN 2022

---

### Record 650 of 1000

**Title:** A review on toxic metal pollution and source-oriented risk apportionment in road dust of a highly polluted megacity in Bangladesh

**Author(s):** Proshad, R (Proshad, Ram); Dey, HC (Dey, Hridoy Chandra); Ritu, SA (Ritu, Sadia Afroz); Baroi, A (Baroi, Artho); Khan, MSU (Khan, Md Shihab Uddine); Islam, M (Islam, Maksudul); Idris, AM (Idris, Abubakr M.)

**Source:** ENVIRONMENTAL GEOCHEMISTRY AND HEALTH **Volume:** 45 **Issue:** 6 **Pages:** 2729-2762 **DOI:** 10.1007/s10653-022-01434-2 **Early Access Date:** DEC 2022 **Published:** JUN 2023

---

### Record 651 of 1000

**Title:** A review on optical properties and application of transparent ceramics

**Author(s):** Akinribide, OJ (Akinribide, Ojo Jeremiah); Mekgwe, GN (Mekgwe, Gadifele Nicolene); Akinwamide, SO (Akinwamide, Samuel Olukayode); Gamaoun, F (Gamaoun, Fehmi); Abeykoon, C (Abeykoon, Chamil); Johnson, OT (Johnson, Oluwagbenga T.); Olubambi, PA (Olubambi, Peter Apata)

**Source:** JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T **Volume:** 21 **Pages:** 712-738 **DOI:** 10.1016/j.jmrt.2022.09.027 **Early Access Date:** SEP 2022 **Published:** NOV-DEC 2022

---

### Record 652 of 1000

**Title:** HPMC crosslinked chitosan/hydroxyapatite scaffolds containing Lemongrass oil for potential bone tissue engineering applications

**Author(s):** Ali, HU (Ali, Hafiz U.); Iqbal, DN (Iqbal, Dure N.); Iqbal, M (Iqbal, Munawar); Ezzine, S (Ezzine, Safa); Arshad, A (Arshad, Aysha); Zeeshan, R (Zeeshan, Rabia); Chaudhry, AA (Chaudhry, Aqif A.); Alshawwa, SZ (Alshawwa, Samar Z.); Nazir, A (Nazir, Arif); Khan, AF (Khan, Ather F.)

**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 15 **Issue:** 7 **Article Number:** 103850 **DOI:** 10.1016/j.arabjc.2022.103850 **Early Access Date:** APR 2022 **Published:** JUL 2022

---

### Record 653 of 1000

**Title:** Comparative efficacy of cephradine-loaded silver and gold nanoparticles against resistant human pathogens

**Author(s):** Khan, A (Khan, Ajmal); Jabeen, H (Jabeen, Humera); Ahmad, T (Ahmad, Touqeer); Rehman, NU (Rehman, Najeeb Ur); Khan, SS (Khan, Saleha Suleman); Shareef, H (Shareef, Huma); Sarwar, R (Sarwar, Rizwana); Yahya, S (Yahya, Saira); Hussain, N (Hussain, Nusrat); Uddin, J (Uddin, Jalal); Hussain, J (Hussain, Javid); Al-Harrasi, A (Al-Harrasi, Ahmed)

**Source:** ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY **Volume:** 50 **Issue:** 1 **Pages:** 312-321 **DOI:** 10.1080/21691401.2022.2144340 **Published:** DEC 31 2022

---

### Record 654 of 1000

**Title:** A FeCo<sub>2</sub>O<sub>4</sub> nanowire array enabled electrochemical nitrate conversion to ammonia

**Author(s):** Li, J (Li, Jun); Zhao, DL (Zhao, Donglin); Zhang, LC (Zhang, Longcheng); Yue, LC (Yue, Luchao); Luo, YS (Luo, Yongsong); Liu, Q (Liu, Qian); Li, N (Li, Na); Alshehri, AA (Alshehri, Abdulmohsen Ali); Hamdy, MS (Hamdy, Mohamed S.); Li, Q (Li, Quan); Sun, XP (Sun, Xuping)

**Source:** CHEMICAL COMMUNICATIONS **Volume:** 58 **Issue:** 28 **Pages:** 4480-4483 **DOI:** 10.1039/d2cc00189f **Early Access Date:** MAR 2022 **Published:** APR 5 2022

---

### Record 655 of 1000

**Title:** Screening Method Synthesis of AgNPs Using *Petroselinum crispum* (parsley) Leaf: Spectral Analysis of the Particles and Antibacterial Study

**Author(s):** Alshahrani, SH (Alshahrani, Shadia Hamoud); Alameri, AA (Alameri, Ameer A.); Zabibah, RS (Zabibah, Rahman S.); Jalil, AT (Jalil, Abduladheem Turki); Ahmadi, O (Ahmadi, Omid); Behbudi, G (Behbudi, Gity)

**Source:** JOURNAL OF THE MEXICAN CHEMICAL SOCIETY **Volume:** 66 **Issue:** 4 **Pages:** 480-487 **DOI:** 10.29356/jmcs.v66i4.1803 **Published:** 2022

---

### Record 656 of 1000

**Title:** Catalytic Reduction of Dyes and Antibacterial Activity of AgNPs@Zn@Alginate Composite Aerogel Beads

**Author(s):** Benali, F (Benali, Fadila); Boukoussa, B (Boukoussa, Bouhadjar); Benkhedouda, NEH (Benkhedouda, Nour-El-Houda); Cheddad, A (Cheddad, Amina); Issam, I (Issam, Ismail); Iqbal, J (Iqbal, Jibrán); Hachemaoui, M (Hachemaoui, Mohammed); Abboud, M (Abboud, Mohamed); Mokhtar, A (Mokhtar, Adel)

**Source:** POLYMERS **Volume:** 14 **Issue:** 22 **Article Number:** 4829 **DOI:** 10.3390/polym14224829 **Published:** NOV 2022

---

### Record 657 of 1000

**Title:** Structural, optical, dielectric and photovoltaic properties of Sn doped CdS films prepared with green synthesis route

**Author(s):** Jaffar, R (Jaffar, Rida); Khan, MI (Khan, M. I.); Mustafa, GM (Mustafa, Ghulam M.); Ali, SS (Ali, S. S.); Ben Farhat, L (Ben Farhat, Lamia); Elqahtani, ZM (Elqahtani, Zainab Mufarreh); Alwadai, N (Alwadai, Norah)

**Source:** OPTICAL MATERIALS **Volume:** 133 **Article Number:** 112964 **DOI:** 10.1016/j.optmat.2022.112964 **Early Access Date:** SEP 2022 **Published:** NOV 2022

---

### Record 658 of 1000

**Title:** Risk Assessment of Hepatocellular Carcinoma with Aflatoxin B<sub>1</sub> Exposure in Edible Oils

**Author(s):** Jubeen, F (Jubeen, Farhat); Zahra, N (Zahra, Nida); Nazli, ZIH (Nazli, Zill-I-Huma); Saleemi, MK (Saleemi, Muhammad K.); Aslam, F (Aslam, Farheen); Naz, I (Naz, Iram); Farhat, LB (Farhat, Lamia B.); Saleh, A (Saleh, Asmaa); Alshawwa, SZ (Alshawwa, Samar Z.); Iqbal, M (Iqbal, Munawar)

**Source:** TOXINS **Volume:** 14 **Issue:** 8 **Article Number:** 547 **DOI:** 10.3390/toxins14080547 **Published:** AUG 2022

---

### Record 659 of 1000

**Title:** Green Biogenic Synthesis of Silver Nanoparticles Using Aqueous Extract of *Moringa Oleifera*: Access to a Powerful Antimicrobial, Anticancer, Pesticidal and Catalytic Agents

**Author(s):** Abdel-Rahman, LH (Abdel-Rahman, Laila H.); Al-Farhan, BS (Al-Farhan, Badriah Saad); Abou El-ezz, D (Abou El-ezz, Doaa); Abd-El Sayed, MA (Abd-El Sayed, M. A.); Zikry, MM (Zikry, Mallak Megalea); Abu-Dief, AM (Abu-Dief, Ahmed M.)

**Source:** JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS **Volume:** 32 **Issue:** 4 **Pages:** 1422-1435 **DOI:** 10.1007/s10904-021-02186-9 **Early Access Date:** JAN 2022 **Published:** APR 2022

---

### Record 660 of 1000

**Title:** Synthetic approach to achieve halo imine units: Solid-state assembly, DFT based electronic and non linear optical behavior

**Author(s):** Ashfaq, M (Ashfaq, Muhammad); Ali, A (Ali, Akbar); Tahir, MN (Tahir, Muhammad Nawaz); Khalid, M (Khalid, Muhammad); Assiri, MA (Assiri, Mohammed A.); Imran, M (Imran, Muhammad); Munawar, KS (Munawar, Khurram Shahzad); Habiba, U (Habiba, Ume)

**Source:** CHEMICAL PHYSICS LETTERS **Volume:** 803 **Article Number:** 139843 **DOI:** 10.1016/j.cplett.2022.139843 **Published:** SEP 16 2022

---

### Record 661 of 1000

**Title:** Routing Path Selection and Data Transmission in Industry-Based Mobile Communications Using Optimization Technique

**Author(s):** Bharti, RK (Bharti, Rajendra Kumar); Bhoopathy, V (Bhoopathy, V); Bhanarkar, P (Bhanarkar, Parul); Ambashtha, KL (Ambashtha, Kanahaiya Lal); Priya, K (Priya, K.); Durai, CAD (Durai, C. Anand Deva); Krishna, MV (Krishna, Manam Vamsi); Josephson, PJ (Josephson, P. Joel); Sahile, K (Sahile, Kibebe)

**Source:** WIRELESS COMMUNICATIONS & MOBILE COMPUTING **Volume:** 2022 **Article Number:** 5431413 **DOI:** 10.1155/2022/5431413 **Published:** JUL 21 2022

---

### Record 662 of 1000

**Title:** Soil Responses to High Olive Mill Wastewater Spreading

**Author(s):** Chaari, L (Chaari, Leila); Alsaïari, NS (Alsaïari, Norah Salem); Amari, A (Amari, Abdelfattah); Ben Rebah, F (Ben Rebah, Faouzi); Kallel, M (Kallel, Monem); Mechichi, T (Mechichi, Tahar)

**Source:** AGRONOMY-BASEL **Volume:** 12 **Issue:** 4 **Article Number:** 972 **DOI:** 10.3390/agronomy12040972 **Published:** APR 2022

---

### Record 663 of 1000

**Title:** Identification of New Drug Target in *Staphylococcus lugdunensis* by Subtractive Genomics Analysis and Their Inhibitors through Molecular Docking and Molecular Dynamic Simulation Studies

**Author(s):** Alhamhoom, Y (Alhamhoom, Yahya); Hani, U (Hani, Umme); Bennani, FE (Bennani, Fatima Ezzahra); Rahman, N (Rahman, Noor); Rashid, MA (Rashid, Md Abdur); Abbas, MN (Abbas, Muhammad Naseer); Rastrelli, L (Rastrelli, Luca)

**Source:** BIOENGINEERING-BASEL **Volume:** 9 **Issue:** 9 **Article Number:** 451 **DOI:** 10.3390/bioengineering9090451 **Published:** SEP 2022

---

**Record 664 of 1000**

**Title:** Essential Oil from Hibiscus Flowers through Advanced Microwave-Assisted Hydrodistillation and Conventional Hydrodistillation

**Author(s):** Rassem, HHA (Rassem, Hesham H. A.); Nour, AH (Nour, Abdurahman H. H.); Ali, GAM (Ali, Gomaa A. M.); Masood, N (Masood, Najat); Al-Bagawi, AH (Al-Bagawi, Amal H.); Alanazi, TYA (Alanazi, Tahani Y. A.); Magam, S (Magam, Sami); Assiri, MA (Assiri, Mohammed A.)

**Source:** JOURNAL OF CHEMISTRY **Volume:** 2022 **Article Number:** 2000237 **DOI:** 10.1155/2022/2000237 **Published:** SEP 30 2022

---

**Record 665 of 1000**

**Title:** Study of generalized Lemaitre-Tolman-Bondi spacetime in Palatini  $f(R)$  gravity

**Author(s):** Bani-Fwaz, MZ (Bani-Fwaz, Mutasem Z.); Bhatti, MZ (Bhatti, M. Z.); Yousaf, Z (Yousaf, Z.); Farwa, U (Farwa, U.); Galal, AM (Galal, Ahmed M.)

**Source:** EUROPEAN PHYSICAL JOURNAL C **Volume:** 82 **Issue:** 7 **Article Number:** 631 **DOI:** 10.1140/epjc/s10052-022-10599-0 **Published:** JUL 22 2022

---

**Record 666 of 1000**

**Title:** Hybrid Nanocomposites of Hydroxyapatite,  $\text{Eu}^{2+}$ ,  $\text{O}^{3-}$ , Graphene Oxide Via Ultrasonic Power: Microstructure, Morphology Design and Antibacterial for Biomedical Applications

**Author(s):** Ahmed, MK (Ahmed, M. K.); Awwad, NS (Awwad, Nasser S.); Ibrahim, HA (Ibrahim, Hala A.); Afifi, M (Afifi, M.)

**Source:** JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS **Volume:** 32 **Issue:** 5 **Pages:** 1786-1799 **DOI:** 10.1007/s10904-022-02279-z **Early Access Date:** MAR 2022 **Published:** MAY 2022

---

**Record 667 of 1000**

**Title:** An investigation on structural, optical and enhanced third order nonlinear optical properties of facilely synthesized Ce:CuS nanosheets

**Author(s):** Ahmad, N (Ahmad, Nafis); Alshehri, AM (Alshehri, A. M.); Khan, ZR (Khan, Z. R.); Almahdawi, SAM (Almahdawi, S. A. M.); Shkir, M (Shkir, Mohd); Hasan, PMZ (Hasan, P. M. Z.); Alshahrie, A (Alshahrie, Ahmed); Khan, F (Khan, Firoz); Al-Ahmed, A (Al-Ahmed, Amir)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 139 **Article Number:** 109363 **DOI:** 10.1016/j.inoche.2022.109363 **Early Access Date:** MAR 2022 **Published:** MAY 2022

---

**Record 668 of 1000**

**Title:** Enhanced triethylamine gas sensing and photocatalytic performance of Sn doped NiO (SNO) nanoparticles

**Author(s):** Sudha, S (Sudha, S.); Ramprasath, R (Ramprasath, R.); Cholan, S (Cholan, S.); Gokul, B (Gokul, B.); Sridhar, S (Sridhar, S.); Ali, HE (Ali, H. Elhosiny); Shkir, M (Shkir, Mohd)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 136 **Article Number:** 109104 **DOI:** 10.1016/j.inoche.2021.109104 **Published:** FEB 2022

---

**Record 669 of 1000**

**Title:** Layer-by-Layer Extracellular Biological Synthesis of Sustainable Ag-Based Nanoparticles for Catalytic Reduction of Methylene Blue Dye

**Author(s):** Kordy, MGM (Kordy, Mohamed G. M.); Ahmed, IA (Ahmed, Inas A.); Abdel-Gabbar, M (Abdel-Gabbar, Mohammed); Soliman, HA (Soliman, Hanan A.); Altowyan, AS (Altowyan, Abeer S.); Shaban, M (Shaban, Mohamed)

**Source:** CRYSTALS **Volume:** 12 **Issue:** 11 **Article Number:** 1576 **DOI:** 10.3390/cryst12111576 **Published:** NOV 2022

---

**Record 670 of 1000**

**Title:** Hydrothermal production of low-cost  $\text{CeNi}_2\text{S}_4$ -reduced graphene oxide composites as an efficient counter electrode for high performance dye-sensitized solar cells

**Author(s):** Paramasivaganesh, K (Paramasivaganesh, K.); Sakthilatha, D (Sakthilatha, D.); Sankar, A (Sankar, A.); Karthik, PS (Karthik, P. Siva); Shkir, M (Shkir, Mohd.); Maiz, F (Maiz, F.); Kim, WK (Kim, Woo Kyoung); Gedi, S (Gedi, Sreedevi)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 142 **Article Number:** 109701 **DOI:** 10.1016/j.inoche.2022.109701 **Published:** AUG 2022

---

**Record 671 of 1000**

**Title:** Heterogeneous nanocatalyst for biodiesel fuel production: bench scale from waste oil sources

**Author(s):** Shahid, I (Shahid, Iqra); Siddique, A (Siddique, Ayesha); Nawaz, T (Nawaz, Tasmia); Tahir, MB (Tahir, M. Bilal); Fatima, J (Fatima, Jawaria); Hussain, A (Hussain, Abid); Rehman, JU (Rehman, Jalil Ur); Assiri, MA (Assiri, Mohammed A.); Imran, M (Imran, Muhammad); Alzaid, M (Alzaid, Meshal); Alrobei, H (Alrobei, Hussein)

**Source:** ZEITSCHRIFT FUR PHYSIKALISCHE CHEMIE-INTERNATIONAL JOURNAL OF RESEARCH IN PHYSICAL CHEMISTRY & CHEMICAL PHYSICS **Volume:** 236 **Issue:** 10 **Pages:** 1377-1410 **DOI:** 10.1515/zpch-2021-3160 **Early Access Date:** JUL 2022 **Published:** OCT 26 2022

---

**Record 672 of 1000**

**Title:** Removal of organic matter and nutrients from hospital wastewater by electro bioreactor coupled with tubesettler

**Author(s):** Khan, RA (Khan, Roohul Abad); El Morabet, R (El Morabet, Rachida); Khan, NA (Khan, Nadeem A.); Ahmed, S (Ahmed, Sirajuddin); Alsubih, M (Alsubih, Majed); Mubarak, NM (Mubarak, Nabisab Mujawar); Dehghani, MH (Dehghani, Mohammad Hadi); Karri, RR (Karri, Rama Rao); Zomorodiyani, N (Zomorodiyani, Nooshin)

**Source:** SCIENTIFIC REPORTS **Volume:** 12 **Issue:** 1 **Article Number:** 9279 **DOI:** 10.1038/s41598-022-12166-9 **Published:** JUN 3 2022

---

**Record 673 of 1000**

**Title:** High-efficiency ammonia electrosynthesis via selective reduction of nitrate on ZnCo<sub>2</sub>O<sub>4</sub> nanosheet array

**Author(s):** Li, ZR (Li, Zerong); Liang, J (Liang, Jie); Liu, Q (Liu, Qian); Xie, LS (Xie, Lisi); Zhang, LC (Zhang, Longcheng); Ren, YC (Ren, Yuchun); Yue, LC (Yue, Luchao); Li, N (Li, Na); Tang, B (Tang, Bo); Alshehri, AA (Alshehri, Abdulmohsen Ali); Hamdy, MS (Hamdy, Mohamed S.); Luo, YL (Luo, Yonglan); Kong, QQ (Kong, Qingquan); Sun, XP (Sun, Xuping)

**Source:** MATERIALS TODAY PHYSICS **Volume:** 23 **Article Number:** 100619 **DOI:** 10.1016/j.mtphys.2022.100619 **Published:** MAR 2022

---

**Record 674 of 1000**

**Title:** Novel halochromic hydrazone chromophore immobilized into rice-straw based cellulose aerogel for vapochromic detection of ammonia

**Author(s):** Al-Qahtani, SD (Al-Qahtani, Sallah D.); Snari, RM (Snari, Razan M.); Al-Ahmed, ZA (Al-Ahmed, Zehbah A.); Hossan, A (Hossan, Aisha); Munshi, AM (Munshi, Alaa M.); Alfi, AA (Alfi, Alia Abdulaziz); El-Metwaly, NM (El-Metwaly, Nashwa M.)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 350 **Article Number:** 118539 **DOI:** 10.1016/j.molliq.2022.118539 **Early Access Date:** JAN 2022 **Published:** MAR 15 2022

---

**Record 675 of 1000**

**Title:** Synthesis of MXene and design the high-performance energy harvesting devices with multifunctional applications

**Author(s):** Hegazy, HH (Hegazy, H. H.); Afzal, AM (Afzal, Amir Muhammad); Shaaban, ER (Shaaban, E. R.); Iqbal, MW (Iqbal, Muhammad Waqas); Muhammad, S (Muhammad, Shabbir); Alahmari, AA (Alahmari, A. A.)

**Source:** CERAMICS INTERNATIONAL **Volume:** 49 **Issue:** 2 **Pages:** 1710-1719 **DOI:** 10.1016/j.ceramint.2022.09.135 **Early Access Date:** DEC 2022 **Published:** JAN 15 2023

---

**Record 676 of 1000**

**Title:** Performance evaluation of constructed wetland for removal of pharmaceutical compounds from hospital wastewater: Seasonal perspective

**Author(s):** Alsubih, M (Alsubih, Majed); El Morabet, R (El Morabet, Rachida); Khan, RA (Khan, Roohul Abad); Khan, NA (Khan, Nadeem A.); Khan, AR (Khan, Amadur Rahman); Khan, S (Khan, Saimah); Mushtaque, N (Mushtaque, Nazneen); Hussain, A (Hussain, Arshad); Yousefi, M (Yousefi, Mahmood)

**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 15 **Issue:** 12 **Article Number:** 104344 **DOI:** 10.1016/j.arabjc.2022.104344 **Early Access Date:** OCT 2022 **Published:** DEC 2022

---

**Record 677 of 1000**

**Title:** Water/transcutol/lecithin/M-812 green cationic nanoemulsion to treat oxytetracycline contaminated aqueous bulk solution

**Author(s):** Venkatesan, K (Venkatesan, Kumar); Haider, N (Haider, Nazima); Yusuf, M (Yusuf, Mohammad); Hussain, A (Hussain, Afzal); Afzal, O (Afzal, Obaid); Yasmin, S (Yasmin, Sabina); Altamimi, ASA (Altamimi, Abdulmalik S. A.)



**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 357 **Article Number:** 119154 **DOI:** 10.1016/j.molliq.2022.119154 **Early Access Date:** APR 2022 **Published:** JUL 1 2022

---

#### **Record 678 of 1000**

**Title:** First principle insight on Mn doped BeTe compound for optoelectronic and spintronic applications

**Author(s):** Ambreen, H (Ambreen, Hina); Aldaghfag, SA (Aldaghfag, Shatha A.); Yaseen, M (Yaseen, Muhammad); Zahid, M (Zahid, Muhammad); Somaily, HH (Somaily, H. H.)

**Source:** PHYSICA SCRIPTA **Volume:** 97 **Issue:** 4 **Article Number:** 045702 **DOI:** 10.1088/1402-4896/ac58cd **Published:** APR 1 2022

---

#### **Record 679 of 1000**

**Title:** Co nanoparticle-decorated pomelo-peel-derived carbon enabled high-efficiency electrocatalytic nitrate reduction to ammonia

**Author(s):** Chen, QY (Chen, Quanying); Liang, J (Liang, Jie); Liu, Q (Liu, Qin); Dong, K (Dong, Kai); Yue, LC (Yue, Luchao); Wei, PP (Wei, Peipei); Luo, YS (Luo, Yongsong); Liu, Q (Liu, Qian); Li, N (Li, Na); Tang, B (Tang, Bo); Alshehri, AA (Alshehri, Abdulmohsen Ali); Hamdy, MS (Hamdy, Mohamed S.); Jiang, ZJ (Jiang, Zhenju); Sun, XP (Sun, Xuping)

**Source:** CHEMICAL COMMUNICATIONS **Volume:** 58 **Issue:** 26 **Pages:** 4259-4262 **DOI:** 10.1039/d2cc00952h **Early Access Date:** MAR 2022 **Published:** MAR 29 2022

---

#### **Record 680 of 1000**

**Title:** Role of Heterocyclic Organic Compounds on the Optoelectronic Properties of Halide Perovskite Single Crystals

**Author(s):** Khanam, SJ (Khanam, Sarvani Jowhar); Parikh, N (Parikh, Nishi); Satapathi, S (Satapathi, Soumitra); Kalam, A (Kalam, Abul); Banavoth, M (Banavoth, Murali); Yadav, P (Yadav, Pankaj)

**Source:** ACS APPLIED ENERGY MATERIALS **DOI:** 10.1021/acsaem.2c01783 **Early Access Date:** NOV 2022

---

#### **Record 681 of 1000**

**Title:** Synthesis, single-crystal exploration, hirshfeld surface analysis, and DFT investigation of the thiosemicarbazones

**Author(s):** Ashfaq, M (Ashfaq, Muhammad); Ali, A (Ali, Akbar); Tahir, MN (Tahir, Muhammad Nawaz); Kuznetsov, A (Kuznetsov, Aleksey); Munawar, KS (Munawar, Khurram Shahzad); Muhammad, S (Muhammad, Shabbir)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1262 **Article Number:** 133088 **DOI:** 10.1016/j.molstruc.2022.133088 **Early Access Date:** APR 2022 **Published:** AUG 15 2022

---

#### **Record 682 of 1000**

**Title:** Quantum computational, spectroscopic, topological investigations and molecular docking studies on piperazine derivatives: A comparative study on Ethyl, Benzene and Furan sulfonyl Piperazine

**Author(s):** Wezhli, MM (Wezhli, M. Malar); Balamurugan, P (Balamurugan, P.); Raju, K (Raju, K.); Sevvanthi, S (Sevvanthi, S.); Irfan, A (Irfan, Ahmad); Javed, S (Javed, Saleem); Muthu, S (Muthu, S.)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1274 **Article Number:** 134324 **DOI:** 10.1016/j.molstruc.2022.134324 **Early Access Date:** OCT 2022 **Part:** 1 **Published:** FEB 15 2023

---

#### **Record 683 of 1000**

**Title:** Electronic and optical properties of quaternary selenides for optoelectronic applications: Insights from DFT plus U-computations

**Author(s):** Azam, S (Azam, Sikandar); Imran, M (Imran, Muhammad); Rahman, AU (Rahman, Amin Ur); Nadeem, A (Nadeem, Asif); Neffati, R (Neffati, Riadh)

**Source:** INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY **Volume:** 123 **Issue:** 3 **DOI:** 10.1002/qua.27025 **Early Access Date:** OCT 2022 **Published:** FEB 5 2023

---

#### **Record 684 of 1000**

**Title:** Theoretical search of crystal polymorphs of temozolomide

**Author(s):** Arputharaj, DS (Arputharaj, David Stephen); Rajasekaran, M (Rajasekaran, Meenashi); Jelsch, C (Jelsch, Christian); Kandasamy, S (Kandasamy, Saravanan); Al-Sehemi, AG (Al-Sehemi, Abdullah G.)

**Source:** HELIYON **Volume:** 8 **Issue:** 6 **Article Number:** e09608 **DOI:** 10.1016/j.heliyon.2022.e09608 **Early Access Date:** JUN 2022 **Published:** JUN 2022

---

#### **Record 685 of 1000**

**Title:** Enhanced photocatalytic activity of ZnO hexagonal tube/r-GO composite on degradation of organic aqueous pollutant and study of charge transport properties

**Author(s):** Elumalai, N (Elumalai, N.); Prabhu, S (Prabhu, S.); Selvaraj, M (Selvaraj, M.); Silambarasan, A (Silambarasan, A.); Navaneethan, M (Navaneethan, M.); Harish, S (Harish, S.); Ramu, P (Ramu, P.); Ramesh, R (Ramesh, R.)

**Source:** CHEMOSPHERE **Volume:** 291 **Article Number:** 132782 **DOI:** 10.1016/j.chemosphere.2021.132782 **Early Access Date:** JAN 2022 **Part:** 1 **Published:** MAR 2022

---

#### Record 686 of 1000

**Title:** Ba substituted SrFe<sub>2</sub>O<sub>4</sub> (SrBa<sub>0.3</sub>Fe<sub>1.7</sub>O<sub>4</sub>) for the removal of fluoride ions (F<sup>-1</sup>) from the drinking water

**Author(s):** Rehman, AU (Rehman, Atiq Ur); Ahmad, M (Ahmad, Mukhtar); Hassan, S (Hassan, Shahzaib); Hussain, SQ (Hussain, Shahzada Qamar); Iqbal, MW (Iqbal, Muhammad Waqas); Ali, HE (Ali, H. Elhosiny)

**Source:** MATERIALS CHEMISTRY AND PHYSICS **Volume:** 295 **Article Number:** 127165 **DOI:** 10.1016/j.matchemphys.2022.127165 **Early Access Date:** DEC 2022 **Published:** FEB 1 2023

---

#### Record 687 of 1000

**Title:** Zinc-induced changes on structural pathways, optical parameters, optical constants extracted by Kramers-Kronig Formulas, Photoluminescence Spectra and photovoltaic characteristics of n-Cd<sub>50</sub>-xZnxS<sub>50</sub>/i-AgSe/p-Si solar cells

**Author(s):** Alqahtani, A (Alqahtani, A.); Alfaqeer, ANA (Alfaqeer, Abdel-naser A.); Alrafai, HA (Alrafai, H. A.); Al-Dossari, M (Al-Dossari, M.); Shaaban, ER (Shaaban, E. R.); Qasem, A (Qasem, Ammar)

**Source:** OPTICAL MATERIALS **Volume:** 134 **Article Number:** 113055 **DOI:** 10.1016/j.optmat.2022.113055 **Early Access Date:** OCT 2022 **Part:** A **Published:** DEC 2022

---

#### Record 688 of 1000

**Title:** Facile low-cost/temperature nanoarchitectonics of Ag<sub>2</sub>HgI<sub>4</sub> nanostructures and their structural, vibrational, optical, dielectric, and photodetection studies

**Author(s):** Ashraf, IM (Ashraf, I. M.); Khan, ZR (Khan, Z. R.); Shkir, M (Shkir, Mohd)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 33 **Issue:** 23 **Pages:** 18807-18815 **DOI:** 10.1007/s10854-022-08730-8 **Early Access Date:** JUL 2022 **Published:** AUG 2022

---

#### Record 689 of 1000

**Title:** An experimental and empirical assessment of machining damage of hybrid glass-carbon FRP composite during abrasive water jet machining

**Author(s):** Chenrayan, V (Chenrayan, Venkatesh); Manivannan, C (Manivannan, Chandru); Shahapurkar, K (Shahapurkar, Kiran); Zewdu, GA (Zewdu, Girmachew Ashegiri); Maniselvam, N (Maniselvam, N.); Alarifi, IM (Alarifi, Ibrahim M.); Alblalaih, K (Alblalaih, Khalid); Tirth, V (Tirth, Vineet); Algahtani, A (Algahtani, Ali)

**Source:** JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T **Volume:** 19 **Pages:** 1148-1161 **DOI:** 10.1016/j.jmrt.2022.05.042 **Early Access Date:** JUN 2022 **Published:** JUL-AUG 2022

---

#### Record 690 of 1000

**Title:** Investigation of structural, magneto-electronic, elastic, mechanical and thermoelectric properties of novel lead-free halide double perovskite Cs<sub>2</sub>AgFeCl<sub>6</sub>: First-principles calculations

**Author(s):** Radja, K (Radja, Khatir); Farah, BL (Farah, Blaha Lamia); Ibrahim, A (Ibrahim, Ameri); Lamia, D (Lamia, Drici); Fatima, I (Fatima, Issad); Nabil, B (Nabil, Beloufa); Mohamed, A (Mohamed, Ameri); Al-Douri, Y (Al-Douri, Y.); El-Rehim, AFA (El-Rehim, A. F. Abd)

**Source:** JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS **Volume:** 167 **Article Number:** 110795 **DOI:** 10.1016/j.jpcs.2022.110795 **Early Access Date:** MAY 2022 **Published:** AUG 2022

---

#### Record 691 of 1000

**Title:** Ab Initio Study of Two-Dimensional Cross-Shaped Non-Fullerene Acceptors for Efficient Organic Solar Cells

**Author(s):** Riaz, S (Riaz, Saim); Hussain, R (Hussain, Riaz); Adnan, M (Adnan, Muhammad); Khan, MU (Khan, Muhammad Usman); Muhammad, S (Muhammad, Shabbir); Yaqoob, J (Yaqoob, Junaid); Alvi, MU (Alvi, Muhammad Usman); Khalid, M (Khalid, Muhammad); Irshad, Z (Irshad, Zobia); Ayub, K (Ayub, Khurshid)

**Source:** ACS OMEGA **Volume:** 7 **Issue:** 12 **Pages:** 10638-10648 **DOI:** 10.1021/acsomega.2c00285 **Published:** MAR 29 2022

---

#### Record 692 of 1000

**Title:** Multi-media compartments for assessing ecological and health risks from concurrent exposure to multiple contaminants on Bhola Island, Bangladesh

**Author(s):** Choudhury, TR (Choudhury, Tasrina Rabia); Islam, T (Islam, Tanjeela); Islam, AMT (Islam, Abu Reza Md Towfiqul); Hasanuzzaman, M (Hasanuzzaman, Md); Idris, AM (Idris, Abubakr M.); Rahman, MS (Rahman, M. Safiur); Alam, E (Alam, Edris); Chowdhury, AMS (Chowdhury, A. M. Sarwaruddin)

**Source:** EMERGING CONTAMINANTS **Volume:** 8 **Pages:** 134-150 **DOI:** 10.1016/j.emcon.2022.03.001 **Published:** 2022

---

#### Record 693 of 1000

**Title:** Pharmaco-characterization, Antioxidant, and Cytotoxic Activity of *Caesalpinia crista* Linn. and its Role in Prevention of Cell Proliferation in MG-63 Osteosarcoma Cell Lines

**Author(s):** Kumar, R (Kumar, Rajesh); Usmani, S (Usmani, Shazia); Kamal, M (Kamal, Mehnaz); Singh, B (Singh, Brijesh); Prakash, O (Prakash, Om); Wahab, S (Wahab, Shadma); Ullah, MF (Ullah, Mohammad Fahad)

**Source:** LATIN AMERICAN JOURNAL OF PHARMACY **Volume:** 41 **Issue:** 3 **Pages:** 580-588 **Published:** 2022

---

#### Record 694 of 1000

**Title:** Design and fabrication of high performance supercapacitor based MoS<sub>2</sub>@TiO<sub>2</sub> composite electrode for wide range temperature applications

**Author(s):** Rajeswari, M (Rajeswari, M.); Vanasundari, K (Vanasundari, K.); Mahalakshmi, G (Mahalakshmi, G.); Ponnarasi, P (Ponnarasi, P.); Parthibavarman, M (Parthibavarman, M.); Shkir, M (Shkir, Mohd.); Ashraf, IM (Ashraf, I. M.)

**Source:** CHEMICAL PHYSICS LETTERS **Volume:** 805 **Article Number:** 139936 **DOI:** 10.1016/j.cplett.2022.139936 **Early Access Date:** AUG 2022 **Published:** OCT 16 2022

---

#### Record 695 of 1000

**Title:** A density functional theory study of Au-decorated gallium nitride nano-tubes as chemical sensors for the recognition of sulfonamide

**Author(s):** Elesawy, BH (Elesawy, Basem H.); El Askary, A (El Askary, Ahmad); Awwad, NS (Awwad, Nasser S.); Ibrahim, HA (Ibrahim, Hala A.); Nezhad, PD (Nezhad, P. D.); Shkir, M (Shkir, Mohd)

**Source:** JOURNAL OF SULFUR CHEMISTRY **Volume:** 43 **Issue:** 5 **Pages:** 482-493 **DOI:** 10.1080/17415993.2022.2074794 **Early Access Date:** MAY 2022 **Published:** SEP 3 2022

---

#### Record 696 of 1000

**Title:** Cytotoxicity Profile of Calix[4]pyrrole Derivatives on HeLa and MCF-7 Human Cancer Cell Lines via *In vitro* Study and Molecular Modelling

**Author(s):** Kongor, A (Kongor, Anita); Athar, M (Athar, Mohd); Vora, M (Vora, Manoj); Bhatt, K (Bhatt, Keyur); Irfan, A (Irfan, Ahmad); Jain, V (Jain, Vinod)

**Source:** BIOINTERFACE RESEARCH IN APPLIED CHEMISTRY **Volume:** 12 **Issue:** 5 **Pages:** 6991-7000 **DOI:** 10.33263/BRIAC125.69917000 **Published:** NOV 11 2022

---

#### Record 697 of 1000

**Title:** Preparation of thermochromic and vapochromic cotton fibers finished with poly(*N*-vinylcaprolactam-co-hydrazone)

**Author(s):** Al-Ahmed, ZA (Al-Ahmed, Zehbah A.); Snari, RM (Snari, Razan M.); Alsoliemy, A (Alsoliemy, Amerah); Katouah, HA (Katouah, Hanadi A.); Bayazeed, A (Bayazeed, Abrar); Abumelha, HM (Abumelha, Hana M.); El-Metwaly, NM (El-Metwaly, Nashwa M.)

**Source:** CELLULOSE **Volume:** 29 **Issue:** 15 **Pages:** 8457-8472 **DOI:** 10.1007/s10570-022-04776-3 **Early Access Date:** AUG 2022 **Published:** OCT 2022

---

#### Record 698 of 1000

**Title:** Antibacterial activity of *Illicium verum* essential oil against MRSA clinical isolates and determination of its phyto-chemical components

**Author(s):** Bin Muhsinah, A (Bin Muhsinah, Abdullatif); Maqbul, MS (Maqbul, Muazzam Sheriff); Mahnashi, MH (Mahnashi, Mater H.); Jalal, MM (Jalal, Mohammed M.); Altayar, MA (Altayar, Malik A.); Saeedi, NH (Saeedi, Nizar H.); Alshehri, OM (Alshehri, Osama M.); Shaikh, IA (Shaikh, Ibrahim A.); Khan, AAL (Khan, Aejaz Abdul Latif); Iqbal, SMS (Iqbal, S. M. Shakeel); Khan, KA (Khan, Kayamkani Abedulla); Dawoud, A (Dawoud, Areej); Mannasaheb, BA (Mannasaheb, Basheerahmed Abdulaziz); Azzouz, S (Azzouz, Solafa); Mohammed, T (Mohammed, Tasneem)

**Record 699 of 1000**

**Title:** Bi nanodendrites for highly efficient electrocatalytic NO reduction to NH<sub>3</sub> at ambient conditions

**Author(s):** Lin, YT (Lin, Yiting); Liang, J (Liang, Jie); Li, HB (Li, Haobo); Zhang, LC (Zhang, Longcheng); Mou, T (Mou, Ting); Li, TS (Li, Tingshuai); Yue, LC (Yue, Luchao); Ji, YY (Ji, Yuyao); Liu, Q (Liu, Qian); Luo, YL (Luo, Yonglan); Li, N (Li, Na); Tang, B (Tang, Bo); Wu, Q (Wu, Qi); Hamdy, MS (Hamdy, Mohamed S.); Ma, DW (Ma, Dongwei); Sun, XP (Sun, Xuping)

**Source:** MATERIALS TODAY PHYSICS **Volume:** 22 **Article Number:** 100611 **DOI:** 10.1016/j.mtphys.2022.100611 **Early Access Date:** JAN 2022 **Published:** JAN 2022

---

**Record 700 of 1000**

**Title:** Theoretical investigation of X<sub>2</sub>NaIO<sub>6</sub> (X=Pb,Sr) double perovskites for thermoelectric and optoelectronic applications

**Author(s):** Aziz, A (Aziz, Asima); Aldaghfag, SA (Aldaghfag, Shatha A.); Zahid, M (Zahid, Muhammad); Iqbal, J (Iqbal, Javed); Misbah (Misbah); Yaseen, M (Yaseen, Muhammad); Smaili, HH (Smaili, H. H.)

**Source:** PHYSICA B-CONDENSED MATTER **Volume:** 630 **Article Number:** 413694 **DOI:** 10.1016/j.physb.2022.413694 **Early Access Date:** JAN 2022 **Published:** APR 1 2022

---

**Record 701 of 1000**

**Title:** Effect of sodium dodecyl sulfate surfactant concentrations on the novel strontium copper oxide nanostructures for enriching hydrogen evolution reaction electrochemical activity in alkaline solution

**Author(s):** Swathi, S (Swathi, S.); Yuvakkumar, R (Yuvakkumar, R.); Ravi, G (Ravi, G.); Shanthini, M (Shanthini, M.); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Thambidurai, M (Thambidurai, M.); Nguyen, HD (Nguyen, Hung D.); Velauthapillai, D (Velauthapillai, Dhayalan)

**Source:** JOURNAL OF ALLOYS AND COMPOUNDS **Volume:** 928 **Article Number:** 167001 **DOI:** 10.1016/j.jallcom.2022.167001 **Early Access Date:** SEP 2022 **Published:** DEC 20 2022

---

**Record 702 of 1000**

**Title:** Numerical Simulations of Magnetohydrodynamics Natural Convection and Entropy Production in a Porous Annulus Bounded by Wavy Cylinder and Koch Snowflake Loaded with Cu-Water Nanofluid

**Author(s):** Mourad, A (Mourad, Abed); Abderrahmane, A (Abderrahmane, Aissa); Younis, O (Younis, Obai); Marzouki, R (Marzouki, Riadh); Alazzam, A (Alazzam, Anas)

**Source:** MICROMACHINES **Volume:** 13 **Issue:** 2 **Article Number:** 182 **DOI:** 10.3390/mi13020182 **Published:** FEB 2022

---

**Record 703 of 1000**

**Title:** Fabrication of Ag-doped magnesium aluminate/ rGO composite: A highly efficient photocatalyst for visible light-driven photodegradation of crystal violet and phenol

**Author(s):** Farooq, A (Farooq, Anza); Anwar, M (Anwar, Mamoona); Smaili, HH (Smaili, H. H.); Zulfiqar, S (Zulfiqar, Sonia); Warsi, MF (Warsi, Muhammad Farooq); Din, MI (Din, Muhammad Imran); Muhammad, A (Muhammad, Ayyaz); Irshad, A (Irshad, Amna)

**Source:** PHYSICA B-CONDENSED MATTER **Volume:** 650 **Article Number:** 414508 **DOI:** 10.1016/j.physb.2022.414508 **Early Access Date:** DEC 2022 **Published:** FEB 1 2023

---

**Record 704 of 1000**

**Title:** Fabrication of chromium sulfide nanoparticles and reduced graphene oxide based high power asymmetric supercapacitor

**Author(s):** Iqbal, H (Iqbal, Hifza); Parveen, B (Parveen, Bushra); Kiran, S (Kiran, Sama); Imran, M (Imran, Muhammad); Saddique, F (Saddique, Farzana); Ul Hassan, M (Ul Hassan, Mahmood); Razaq, A (Razaq, Aamir)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 33 **Issue:** 32 **Pages:** 24845-24856 **DOI:** 10.1007/s10854-022-09195-5 **Early Access Date:** OCT 2022 **Published:** NOV 2022

---

**Record 705 of 1000**

**Title:** Heterostructured CoTe<sub>2</sub>/g-C<sub>3</sub>N<sub>4</sub> nanocomposite thin film counters electrodes for enhancing the photovoltaic performance of dye-sensitized solar cells

**Author(s):** Kannan, S (Kannan, S.); Thamaraiselvan, P (Thamaraiselvan, P.); Rameshkumar, KA (Rameshkumar, K. A.); Maadeswaran, P (Maadeswaran, P.); Shkir, M (Shkir, Mohd.); Maiz, F (Maiz, F.); Reddy, VRM (Reddy, Vasudeva Reddy Minnam); Gomathi, M (Gomathi, M.)

**Source:** DIAMOND AND RELATED MATERIALS **Volume:** 129 **Article Number:** 109318 **DOI:** 10.1016/j.diamond.2022.109318 **Early Access Date:** AUG 2022 **Published:** NOV 2022

---

#### Record 706 of 1000

**Title:** Catalytic degradation of organic dyes using Au-poly (styrene-*N*-isopropylmethacrylamide) hybrid microgels

**Author(s):** Arif, M (Arif, Muhammad); Shahid, M (Shahid, Muhammad); Irfan, A (Irfan, Ahmad); Wang, XF (Wang, Xiaofei); Noor, H (Noor, Hadia); Farooqi, ZH (Farooqi, Zahoor H.); Begum, R (Begum, Robina)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 144 **Article Number:** 109870 **DOI:** 10.1016/j.inoche.2022.109870 **Early Access Date:** AUG 2022 **Published:** OCT 2022

---

#### Record 707 of 1000

**Title:** Influence of spin-orbit coupling and biaxial strain on the inorganic lead iodide perovskites, APb<sub>3</sub> (A = K, Rb, and Cs)

**Author(s):** Islam, MR (Islam, Md Rasidul); Islam, ASMJ (Islam, A. S. M. Jannatul); Mitro, SK (Mitro, S. K.); Mojumder, MRH (Mojumder, Md Rayid Hasan); Moghal, BK (Moghal, Biazid Kabir); Ahmad, S (Ahmad, Sohail); Roy, S (Roy, Sourav); Islam, MZ (Islam, Md Zahidul)

**Source:** JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS **Volume:** 170 **Article Number:** 110919 **DOI:** 10.1016/j.jpcs.2022.110919 **Early Access Date:** AUG 2022 **Published:** NOV 2022

---

#### Record 708 of 1000

**Title:** Utility of 1-(4-Substituted Aminophenyl)Ethanones in Heterocyclic Synthesis Part (II)

**Author(s):** Salem, MA (Salem, Mohammed A.); Helal, MH (Helal, Mohamed H.); Alzahrani, AYA (Alzahrani, Abdullah Y. A.); Gouda, MA (Gouda, Moustafa A.)

**Source:** MINI-REVIEWS IN ORGANIC CHEMISTRY **Volume:** 19 **Issue:** 5 **Pages:** 575-590 **DOI:** 10.2174/1570193X18666210920123042 **Published:** 2022

---

#### Record 709 of 1000

**Title:** Effect of Poling on Multicatalytic Performance of 0.5Ba(Zr<sub>0.2</sub>Ti<sub>0.8</sub>)O<sub>3</sub>-0.5(Ba<sub>0.7</sub>Sr<sub>0.3</sub>)TiO<sub>3</sub> Ferroelectric Ceramic for Dye Degradation

**Author(s):** Gaur, A (Gaur, Akshay); Dubey, S (Dubey, Shivam); Elqahtani, ZM (Elqahtani, Zainab Mufarreh); Ben Ahmed, S (Ben Ahmed, Samia); Al-Buriahi, MSA (Al-Buriahi, Mohammed Sultan Abdulghaffar); Vaish, R (Vaish, Rahul); Chauhan, VS (Chauhan, Vishal Singh)

**Source:** MATERIALS **Volume:** 15 **Issue:** 22 **Article Number:** 8217 **DOI:** 10.3390/ma15228217 **Published:** NOV 2022

---

#### Record 710 of 1000

**Title:** Biologically Derived Gold Nanoparticles and Their Applications

**Author(s):** Roy, A (Roy, Arpita); Pandit, C (Pandit, Chetan); Gacem, A (Gacem, Amel); Alqahtani, MS (Alqahtani, Mohammed S.); Bilal, M (Bilal, Muhammad); Islam, S (Islam, Saiful); Hossain, MJ (Hossain, Md. Jamal); Jameel, M (Jameel, Mohammed)

**Source:** BIOINORGANIC CHEMISTRY AND APPLICATIONS **Volume:** 2022 **Article Number:** 8184217 **DOI:** 10.1155/2022/8184217 **Published:** AUG 1 2022

---

#### Record 711 of 1000

**Title:** Hydrothermal Extraction of Amorphous Silica from Locally Available Slate

**Author(s):** Ghani, U (Ghani, Usman); Hussain, S (Hussain, Shah); Ali, A (Ali, Asad); Tirth, V (Tirth, Vineet); Algahtani, A (Algahtani, Ali); Zaman, A (Zaman, Abid); Mushtaq, M (Mushtaq, Muhammad); Althubeiti, K (Althubeiti, Khaled); Aljohani, M (Aljohani, Mohammed)

**Source:** ACS OMEGA **Volume:** 7 **Issue:** 7 **Pages:** 6113-6120 **DOI:** 10.1021/acsomega.1c06553 **Published:** FEB 22 2022

---

#### Record 712 of 1000

**Title:** Copper-doped magnesium ferrite and its composite with rGO: Synthesis characterization, and degradation of organic effluents and antibacterial study

**Author(s):** Alhashmialameer, D (Alhashmialameer, Dalal); Ullah, S (Ullah, Shafiq); Irshad, A (Irshad, Amna); Alsafari, IA (Alsafari, Ibrahim A.); El-Gawad, HHA (El-Gawad, Hala H. Abd); Elsheikh, MAA (Elsheikh, Malik Abdalla Abdelrahman); Liu, XY (Liu, Xinying); Bashir, S (Bashir, Sheraz)

**Source:** CERAMICS INTERNATIONAL **Volume:** 48 **Issue:** 16 **Pages:** 24100-24113 **DOI:** 10.1016/j.ceramint.2022.05.373 **Published:** AUG 15 2022

---

#### Record 713 of 1000

**Title:** Correlation between structural, morphological and optical properties of Bi<sub>2</sub>S<sub>3</sub> thin films deposited by various aqueous and non-aqueous chemical bath deposition methods

**Author(s):** Fazal, T (Fazal, Tanzeela); Iqbal, S (Iqbal, Shahid); Shah, M (Shah, Mazloom); Ismail, B (Ismail, Bushra); Shaheen, N (Shaheen, Nusrat); Alharthi, AI (Alharthi, Abdulrahman, I); Awwad, NS (Awwad, Nasser S.); Ibrahim, HA (Ibrahim, Hala A.)

**Source:** RESULTS IN PHYSICS **Volume:** 40 **Article Number:** 105817 **DOI:** 10.1016/j.rinp.2022.105817 **Early Access Date:** JUL 2022 **Published:** SEP 2022

---

#### Record 714 of 1000

**Title:** DNA Nucleobase Interaction with Silicon Carbide Nanosheet

**Author(s):** Menazea, AA (Menazea, A. A.); Awwad, NS (Awwad, Nasser S.); Ibrahim, HA (Ibrahim, Hala A.); Derakh, M (Derakh, M.); Alqahtani, MS (Alqahtani, Mohammed S.)

**Source:** SILICON **Volume:** 14 **Issue:** 17 **Pages:** 11355-11362 **DOI:** 10.1007/s12633-022-01781-w **Early Access Date:** APR 2022 **Published:** NOV 2022

---

#### Record 715 of 1000

**Title:** Evaluation of Green Synthesized Gold Nanoparticles from *Abrus precatorius* Seeds for their Antibacterial, Anti-inflammatory, Anti-proliferative and Antidiabetic Properties

**Author(s):** Muddapur, UM (Muddapur, Uday M.); Lava, MB (Lava, M. B.); Mahnashi, MH (Mahnashi, Mater H.); Alshahrani, MA (Alshahrani, Mohammed Abdulrahman); Asiri, M (Asiri, Mohammed); Basavegowda, N (Basavegowda, Nagaraj); Yaraguppi, D (Yaraguppi, Deepak); Bagewadi, ZK (Bagewadi, Zabin K.); Khan, AA (Khan, Aejaz Abdullatif); Iqbal, SMS (Iqbal, S. M. Shakeel); Shaikh, IA (Shaikh, Ibrahim Ahmed); Mannasaheb, BA (Mannasaheb, Basheerahmed Abdulaziz)

**Source:** LATIN AMERICAN JOURNAL OF PHARMACY **Volume:** 41 **Issue:** 2 **Pages:** 420-427 **Published:** 2022

---

#### Record 716 of 1000

**Title:** Theoretical designing of non-fullerene derived organic heterocyclic compounds with enhanced nonlinear optical amplitude: a DFT based prediction

**Author(s):** Khalid, M (Khalid, Muhammad); Khan, M (Khan, Mashal); Mahmood, K (Mahmood, Khalid); Arshad, M (Arshad, Muhammad); Imran, M (Imran, Muhammad); Braga, AAC (Braga, Atualpa Albert Carmo); Hussain, R (Hussain, Riaz)

**Source:** SCIENTIFIC REPORTS **Volume:** 12 **Issue:** 1 **Article Number:** 20220 **DOI:** 10.1038/s41598-022-21894-x **Published:** NOV 23 2022

---

#### Record 717 of 1000

**Title:** Analysis of Anti-Arrhythmic Impacts of Crocin through Estimation of Expression of Cx43 in Myocardial Infarction Using a Rat Animal Model

**Author(s):** Li, H (Li, Huan); Li, J (Li, Jian); Wang, JL (Wang, Juanli); Afzal, O (Afzal, Obaid); Altamimi, ASA (Altamimi, Abdulmalik S. A.); Ullah, SNMN (Ullah, Shehla Nasar Mir Najib); Shilbayeh, SAR (Shilbayeh, Sireen Abdul Rahim); Ibrahim, AA (Ibrahim, Alnada Abdalla); Khan, S (Khan, Shahanavaj)

**Source:** ACS OMEGA **Volume:** 7 **Issue:** 42 **Pages:** 37164-37169 **DOI:** 10.1021/acsomega.2c03158 **Early Access Date:** OCT 2022 **Published:** OCT 25 2022

---

#### Record 718 of 1000

**Title:** Fabrication and analysis of barium-based metal organic framework characteristic properties

**Author(s):** Sajid, F (Sajid, Fatima); Rani, M (Rani, Malika); Shah, AA (Shah, Aqeel Ahmed); Neffati, R (Neffati, R.); Mahmood, A (Mahmood, Arshad)

**Source:** INTERNATIONAL JOURNAL OF MODERN PHYSICS B **Volume:** 36 **Issue:** 28 **Article Number:** 2250198 **DOI:** 10.1142/S0217979222501983 **Early Access Date:** AUG 2022 **Published:** NOV 10 2022

---

**Record 719 of 1000**

**Title:** An Experimental and Theoretical Study of the Optical Properties of  $C_2H_7NO_2$  for an Optoelectronic Application

**Author(s):** Ferjani, H (Ferjani, Hela); Ben Smida, Y (Ben Smida, Youssef); Onwudiwe, DC (Onwudiwe, Damian C.); Elamin, NY (Elamin, Nuha Y.); Ezzine, S (Ezzine, Safa); Almotlaq, NS (Almotlaq, Norah S.)

**Source:** INORGANICS **Volume:** 10 **Issue:** 4 **Article Number:** 48 **DOI:** 10.3390/inorganics10040048 **Published:** APR 2022

---

**Record 720 of 1000**

**Title:** Green synthesis of Size-Controlled copper oxide nanoparticles as catalysts for  $H_2$  production from industrial waste aluminum

**Author(s):** Amrani, MA (Amrani, Mokhtar Ali); Alrafai, HA (Alrafai, H. A.); Al-nami, SY (Al-nami, Samar Y.); Obeidat, F (Obeidat, Firas); Alwabhani, F (Alwabhani, Fawaz); Alhammadi, MA (Alhammadi, Mohammed A.); Qasem, A (Qasem, Ammar)

**Source:** INTERNATIONAL JOURNAL OF ENERGY RESEARCH **Volume:** 46 **Issue:** 10 **Pages:** 14023-14035 **DOI:** 10.1002/er.8118 **Early Access Date:** MAY 2022 **Published:** AUG 2022

---

**Record 721 of 1000**

**Title:** Bi-functional green-synthesis of  $Co_3O_4$  NPs for photocatalytic and electrochemical applications

**Author(s):** Khalid, NR (Khalid, N. R.); Gull, A (Gull, Areeg); Ali, F (Ali, Faisal); Tahir, MB (Tahir, M. B.); Iqbal, T (Iqbal, T.); Rafique, M (Rafique, M.); Assiri, MA (Assiri, Mohammad A.); Imran, M (Imran, Muhammad); Alzaid, M (Alzaid, Meshal)

**Source:** CERAMICS INTERNATIONAL **Volume:** 48 **Issue:** 21 **Pages:** 32009-32021 **DOI:** 10.1016/j.ceramint.2022.07.138 **Early Access Date:** SEP 2022 **Published:** NOV 1 2022

---

**Record 722 of 1000**

**Title:** The photovoltaic application and optics of  $ZnO$ - $CdO$  and  $ZnO$ - $NiO$  nanocomposite binary system

**Author(s):** Soylyu, M (Soylyu, M.); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Dere, A (Dere, Aysegul); Al-Ghamdi, AA (Al-Ghamdi, Ahmed A.); Yakuphanoglu, F (Yakuphanoglu, F.)

**Source:** MICRO AND NANOSTRUCTURES **Volume:** 165 **Article Number:** 207190 **DOI:** 10.1016/j.micrna.2022.207190 **Published:** MAY 2022

---

**Record 723 of 1000**

**Title:** Computational investigation, effects of polar and non-polar solvents on optimized structure with topological parameters (ELF, LOL, AIM, and RDG) of three glycine derivative compounds

**Author(s):** Manickavelu, T (Manickavelu, Thirunavukkarasu); Govindrajan, B (Govindrajan, Balaji); Sambantham, M (Sambantham, Muthu); Panneerselvam, P (Panneerselvam, Prabakaran); Irfan, A (Irfan, Ahmad)

**Source:** STRUCTURAL CHEMISTRY **Volume:** 33 **Issue:** 4 **Pages:** 1295-1319 **DOI:** 10.1007/s11224-022-01930-2 **Early Access Date:** APR 2022 **Published:** AUG 2022

---

**Record 724 of 1000**

**Title:** Dry Grinding Synthesis and Docking Study of Cyclopentanone-Sulfur Containing Compounds with Anti-Proliferative Activity for HepG-2 and A-549 Cancer Cell Lines

**Author(s):** Muhammad, ZA (Muhammad, Zeinab A.); Farghaly, TA (Farghaly, Thoraya A.); Al-Hussain, SA (Al-Hussain, Sami A.); Edrees, MM (Edrees, Mastoura M.); Zaki, MEA (Zaki, Magdi E. A.); Shabaan, SN (Shabaan, Sara N.)

**Source:** MEDICINAL CHEMISTRY **Volume:** 18 **Issue:** 10 **Pages:** 1086-1099 **DOI:** 10.2174/1573406418666220324155119 **Published:** 2022

---

**Record 725 of 1000**

**Title:** Ambient  $N_2$ -to- $NH_3$  fixation over a  $CeO_2$  nanoparticle decorated three-dimensional carbon skeleton

**Author(s):** Liu, CC (Liu, Chengchen); Li, SX (Li, Shaoxiong); Li, ZR (Li, Zerong); Zhang, LC (Zhang, Longcheng); Chen, HJ (Chen, Haijun); Zhao, DL (Zhao, Donglin); Sun, SJ (Sun, Shengjun); Luo, YL (Luo, Yonglan); Alshehri, AA (Alshehri, Abdulmohsen Ali); Hamdy, MS (Hamdy, Mohamed S.); Liu, Q (Liu, Qian); Sun, XP (Sun, Xuping)

**Source:** SUSTAINABLE ENERGY & FUELS **Volume:** 6 **Issue:** 14 **Pages:** 3344-3348 **DOI:** 10.1039/d2se00557c **Early Access Date:** JUN 2022 **Published:** JUL 12 2022

---

**Record 726 of 1000**

**Title:** Exploration of Nonlinear Optical Properties for the First Theoretical Framework of Non-Fullerene DTS(FBTTh<sub>2</sub>-Based Derivatives

**Author(s):** Khan, MU (Khan, Muhammad Usman); Hussain, S (Hussain, Shabbir); Asghar, MA (Asghar, Muhammad Adnan); Munawar, KS (Munawar, Khurram Shahzad); Khera, RA (Khera, Rasheed Ahmad); Imran, M (Imran, Muhammad); Ibrahim, MM (Ibrahim, Mohamed M.); Hessien, MM (Hessien, Mahmoud M.); Mersal, GAM (Mersal, Gaber A. M.)

**Source:** ACS OMEGA **Volume:** 7 **Issue:** 21 **Pages:** 18027-18040 **DOI:** 10.1021/acsomega.2c01474 **Early Access Date:** MAY 2022 **Published:** MAY 31 2022

---

**Record 727 of 1000**

**Title:** Molecular modeling of new thiazolyl-thiophene based compounds as antioxidant agents

**Author(s):** Abumelha, HM (Abumelha, Hana M.); Bayazeed, A (Bayazeed, Abrar); Alsoliemy, A (Alsoliemy, Amerah); Hossan, A (Hossan, Aisha); Alharbi, A (Alharbi, Arwa); Saad, FA (Saad, Fawaz A.); El-Metwaly, NM (El-Metwaly, Nashwa M.)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1262 **Article Number:** 133112 **DOI:** 10.1016/j.molstruc.2022.133112 **Early Access Date:** APR 2022 **Published:** AUG 15 2022

---

**Record 728 of 1000**

**Title:** Efficient nitric oxide electroreduction toward ambient ammonia synthesis catalyzed by a CoP nanoarray

**Author(s):** Liang, J (Liang, Jie); Hu, WF (Hu, Wen-Feng); Song, BY (Song, Bingyi); Mou, T (Mou, Ting); Zhang, LC (Zhang, Longcheng); Luo, YS (Luo, Yongsong); Liu, Q (Liu, Qian); Alshehri, AA (Alshehri, Abdulmohsen Ali); Hamdy, MS (Hamdy, Mohamed S.); Yang, LM (Yang, Li-Ming); Sun, XP (Sun, Xuping)

**Source:** INORGANIC CHEMISTRY FRONTIERS **Volume:** 9 **Issue:** 7 **Pages:** 1366-1372 **DOI:** 10.1039/d2qi00002d **Early Access Date:** FEB 2022 **Published:** MAR 29 2022

---

**Record 729 of 1000**

**Title:** Recognition of Diabetic Retinopathy with Ground Truth Segmentation Using Fundus Images and Neural Network Algorithm

**Author(s):** Kshirsagar, PR (Kshirsagar, Pravin R.); Manoharan, H (Manoharan, Hariprasath); Meshram, P (Meshram, Pratiksha); Alqahtani, J (Alqahtani, Jarallah); Naveed, QN (Naveed, Quadri Noorulhasan); Islam, S (Islam, Saiful); Abebe, TG (Abebe, Tewodros Getinet)

**Source:** COMPUTATIONAL INTELLIGENCE AND NEUROSCIENCE **Volume:** 2022 **Article Number:** 8356081 **DOI:** 10.1155/2022/8356081 **Published:** SEP 29 2022

---

**Record 730 of 1000**

**Title:** Arsenic Exposure through Dietary Intake and Associated Health Hazards in the Middle East

**Author(s):** Khan, MI (Khan, Mohammad Idreesh); Ahmad, MF (Ahmad, Md Faruque); Ahmad, I (Ahmad, Irfan); Ashfaq, F (Ashfaq, Fauzia); Wahab, S (Wahab, Shadma); Alsayegh, AA (Alsayegh, Abdulrahman A.); Kumar, S (Kumar, Sachil); Hakeem, KR (Hakeem, Khalid Rehman)

**Source:** NUTRIENTS **Volume:** 14 **Issue:** 10 **Article Number:** 2136 **DOI:** 10.3390/nu14102136 **Published:** MAY 2022

---

**Record 731 of 1000**

**Title:** Challenges, Opportunities and Future Directions of Membrane Technology for Natural Gas Purification: A Critical Review

**Author(s):** Imtiaz, A (Imtiaz, Aniq); Othman, MHD (Othman, Mohd Hafiz Dzarfan); Jilani, A (Jilani, Asim); Khan, IU (Khan, Imran Ullah); Kamaludin, R (Kamaludin, Roziana); Iqbal, J (Iqbal, Javed); Al-Sehemi, AG (Al-Sehemi, Abdullah G.)

**Source:** MEMBRANES **Volume:** 12 **Issue:** 7 **Article Number:** 646 **DOI:** 10.3390/membranes12070646 **Published:** JUL 2022

---

**Record 732 of 1000**

**Title:** Perspectives on composite films of chitosan-based natural products (Ginger, Curcumin, and Cinnamon) as biomaterials for wound dressing

**Author(s):** Ismail, KA (Ismail, Khadiga Ahmed); El Askary, A (El Askary, Ahmad); Farea, MO (Farea, M. O.); Awwad, NS (Awwad, Nasser S.); Ibrahim, HA (Ibrahim, Hala A.); Moustapha, ME (Moustapha, Moustapha Eid); Menazea, AA



(Menazea, A. A.)

**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 15 **Issue:** 4 **Article Number:** 103716 **DOI:** 10.1016/j.arabjc.2022.103716 **Early Access Date:** JAN 2022 **Published:** APR 2022

---

#### **Record 733 of 1000**

**Title:** Metal-organic frameworks (MOFs) based nanofiber architectures for the removal of heavy metal ions

**Author(s):** Adil, HI (Adil, Heja Ibrahim); Thalji, MR (Thalji, Mohammad R.); Yasin, SA (Yasin, Suhad A.); Saeed, IA (Saeed, Ibtisam A.); Assiri, MA (Assiri, Mohammed A.); Chong, KF (Chong, Kwok Feng); Ali, GAM (Ali, Gomaa A. M.)

**Source:** RSC ADVANCES **Volume:** 12 **Issue:** 3 **Pages:** 1433-1450 **DOI:** 10.1039/d1ra07034g **Published:** JAN 5 2022

---

#### **Record 734 of 1000**

**Title:** Anticancer and microbicide action of carbon quantum dots derived from microcrystalline cellulose: Hydrothermal versus infrared assisted techniques

**Author(s):** Mogharbel, AT (Mogharbel, Amal T.); Abu-Melha, S (Abu-Melha, Sraa); Hameed, A (Hameed, Ahmed); Attar, RMS (Attar, Roba M. S.); Alrefaei, AF (Alrefaei, Abdulmajeed F.); Almahri, A (Almahri, Albandary); El-Metwaly, N (El-Metwaly, Nashwa)

**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 16 **Issue:** 1 **Article Number:** 104419 **DOI:** 10.1016/j.arabjc.2022.104419 **Early Access Date:** NOV 2022 **Published:** JAN 2023

---

#### **Record 735 of 1000**

**Title:** Recent Advances of Sustainable Textile Fabric Coatings for UV Protection Properties

**Author(s):** Attia, NF (Attia, Nour F.); Osama, R (Osama, Rokaya); Elashery, SEA (Elashery, Sally E. A.); Kalam, A (Kalam, Abul); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Algarni, H (Algarni, Hamed)

**Source:** COATINGS **Volume:** 12 **Issue:** 10 **Article Number:** 1597 **DOI:** 10.3390/coatings12101597 **Published:** OCT 2022

---

#### **Record 736 of 1000**

**Title:** In Silico Studies, Biological Effects and Anti-Lung Cancer Potential of Triacetyl Resveratrol as Natural Phenolic Compound

**Author(s):** Pei, YZ (Pei, Yanzhi); Gong, SN (Gong, Shuning); Song, M (Song, Min); El-kott, AF (El-kott, Attalla F.); Bani-Fwaz, MZ (Bani-Fwaz, Mutasem Z.); Xu, Y (Xu, Yan)

**Source:** CHEMISTRYSELECT **Volume:** 7 **Issue:** 30 **Article Number:** e202201491 **DOI:** 10.1002/slct.202201491 **Published:** AUG 12 2022

---

#### **Record 737 of 1000**

**Title:** FEM-Based Simulative Study for Multi-Response Optimization of Powder Bed Fusion Process

**Author(s):** Sood, AK (Sood, Anoop Kumar); Equbal, A (Equbal, Azhar); Khan, ZA (Khan, Zahid A.); Badruddin, IA (Badruddin, Irfan Anjum); Hussien, M (Hussien, Mohamed)

**Source:** MATHEMATICS **Volume:** 10 **Issue:** 14 **Article Number:** 2505 **DOI:** 10.3390/math10142505 **Published:** JUL 2022

---

#### **Record 738 of 1000**

**Title:** Essence of Thermal Analysis to Assess Biodiesel Combustion Performance

**Author(s):** Atgur, V (Atgur, Vinay); Manavendra, G (Manavendra, G.); Banapurmath, NR (Banapurmath, Nagaraj R.); Rao, BN (Rao, Boggarapu Nageswar); Rajhi, AA (Rajhi, Ali A.); Khan, TMY (Khan, T. M. Yunus); Vadlamudi, C (Vadlamudi, Chandramouli); Krishnappa, S (Krishnappa, Sanjay); Sajjan, AM (Sajjan, Ashok M.); Venkatesh, R (Venkatesh, R.)

**Source:** ENERGIES **Volume:** 15 **Issue:** 18 **Article Number:** 6622 **DOI:** 10.3390/en15186622 **Published:** SEP 2022

---

#### **Record 739 of 1000**

**Title:** High-Efficiency Electrosynthesis of Ammonia with Selective Reduction of Nitrate in Neutral Media Enabled by Self-Supported Mn<sub>2</sub>CoO<sub>4</sub> Nanoarray

**Author(s):** Xie, LS (Xie, Lisi); Liu, Q (Liu, Qian); Sun, SJ (Sun, Shengjun); Hu, L (Hu, Long); Zhang, LC (Zhang, Longcheng); Zhao, DL (Zhao, Donglin); Liu, Q (Liu, Qin); Chen, J (Chen, Jie); Li, J (Li, Jun); Ouyang, L (Ouyang,

Ling); Alshehri, AA (Alshehri, Abdulmohsen Ali); Hamdy, MS (Hamdy, Mohamed S.); Kong, QQ (Kong, Qingquan); Sun, XP (Sun, Xuping)

**Source:** ACS APPLIED MATERIALS & INTERFACES **Volume:** 14 **Issue:** 29 **Pages:** 33242-33247 **DOI:** 10.1021/acsami.2c07818 **Early Access Date:** JUL 2022 **Published:** JUL 27 2022

---

#### Record 740 of 1000

**Title:** Development of a highly sensitive UV sensor using Al, Ga, and In-doped NiO thin films via nebulizer spray pyrolysis method for photodetector applications

**Author(s):** Raj, ILP (Raj, I. Loyola Poul); Valanarasu, S (Valanarasu, S.); Asuntha, A (Asuntha, A.); Isaac, RSR (Rimal Isaac, R. S.); Shkir, M (Shkir, Mohd.); Algarni, H (Algarni, H.); AlFaify, S (AlFaify, S.)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 33 **Issue:** 15 **Pages:** 11753-11767 **DOI:** 10.1007/s10854-022-08140-w **Early Access Date:** APR 2022 **Published:** MAY 2022

---

#### Record 741 of 1000

**Title:** Enhancing the performance of TiO<sub>2</sub> based N-DSSC using dye extracted from Cladophora Columbiana, Ludwigia repens and mixed sensitizer

**Author(s):** Vinaayak, SB (Vinaayak, S. B.); Balasubramani, V (Balasubramani, V.); Shkir, M (Shkir, Mohd); Manthrammel, MA (Manthrammel, M. Aslam); Sreedevi, G (Sreedevi, Gedi)

**Source:** OPTICAL MATERIALS **Volume:** 133 **Article Number:** 112968 **DOI:** 10.1016/j.optmat.2022.112968 **Early Access Date:** SEP 2022 **Published:** NOV 2022

---

#### Record 742 of 1000

**Title:** Performance of latent heat storage (LHS) systems using pure paraffin wax as working substance

**Author(s):** Gunjo, DG (Gunjo, Dawit Gudeta); Yadav, VK (Yadav, Vinod Kumar); Sinha, DK (Sinha, Devendra Kumar); Refaey, HA (Refaey, H. A.); Ahmed, GMS (Ahmed, Gulam Mohammed Sayeed); Abelmohimen, MAH (Abelmohimen, Mostafa A. H.)

**Source:** CASE STUDIES IN THERMAL ENGINEERING **Volume:** 39 **Article Number:** 102399 **DOI:** 10.1016/j.csite.2022.102399 **Early Access Date:** SEP 2022 **Published:** NOV 2022

---

#### Record 743 of 1000

**Title:** Investigating the Drinking Water Quality and Associated Health Risks in Metropolis Area of Pakistan

**Author(s):** Sohail, MT (Sohail, Muhammad Tayyab); Ehsan, M (Ehsan, Muhsan); Riaz, S (Riaz, Sidra); Elkaeed, EB (Elkaeed, Eslam B.); Awwad, NS (Awwad, Nasser S.); Ibrahim, HA (Ibrahim, Hala A.)

**Source:** FRONTIERS IN MATERIALS **Volume:** 9 **Article Number:** 864254 **DOI:** 10.3389/fmats.2022.864254 **Published:** APR 8 2022

---

#### Record 744 of 1000

**Title:** Physicochemical characteristics and ex vivo skin permeability for three phosphodiesterase 5 inhibitors (sildenafil, tadalafil and vardenafil): A proof-of-concept study for topical penile therapy

**Author(s):** Mohamad, SA (Mohamad, Soad A.); Mustafa, WW (Mustafa, Wesam W.); Salem, H (Salem, Hesham); Elrehany, M (Elrehany, Mahmoud); Rofaail, RR (Rofaail, Remon Roshdy); Abdelkader, H (Abdelkader, Hamdy)

**Source:** JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY **Volume:** 70 **Article Number:** 103166 **DOI:** 10.1016/j.jddst.2022.103166 **Early Access Date:** MAR 2022 **Published:** APR 2022

---

#### Record 745 of 1000

**Title:** Photoelectrochemical properties and photocatalytic degradation of methyl orange dye by different ZnO nanostructures

**Author(s):** Jayakrishnan, C (Jayakrishnan, C.); Sheeja, SR (Sheeja, S. R.); Duraimurugan, J (Duraimurugan, J.); Prabhu, S (Prabhu, S.); Ramesh, R (Ramesh, R.); Kumar, GS (Kumar, G. Suresh); Maadeswaran, P (Maadeswaran, P.); Shkir, M (Shkir, Mohd)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 33 **Issue:** 12 **Special Issue:** SI **Pages:** 9732-9742 **DOI:** 10.1007/s10854-022-07801-0 **Early Access Date:** FEB 2022 **Published:** APR 2022

---

#### Record 746 of 1000

**Title:** Fluorometric and electrochemical dual-mode detection of toxic flavonoid rutin based on new nitrogen and sulfur co-doped carbon dots: Enhanced selectivity based on masking the interfering flavonoids with BSA complexation

**Author(s):** Mahmoud, AM (Mahmoud, Ashraf M.); Mahnashi, MH (Mahnashi, Mater H.); Al Fatease, AM (Al Fatease, Adel M.); Mostafa, MAH (Mostafa, Mahmoud A. H.); El-Wekil, MM (El-Wekil, Mohamed M.); Ali, R (Ali, Ramadan)  
**Source:** JOURNAL OF FOOD COMPOSITION AND ANALYSIS **Volume:** 108 **Article Number:** 104428 **DOI:** 10.1016/j.jfca.2022.104428 **Early Access Date:** FEB 2022 **Published:** MAY 2022

---

#### Record 747 of 1000

**Title:** Thermohydraulic and irreversibility assessment of Power-law fluid flow within wedge shape channel

**Author(s):** Rehman, S (Rehman, Sohail); Hasim (Hasim); Alqahtani, S (Alqahtani, Sultan); Hassine, SB (Hassine, Siwar Ben Hadj); Eldin, SM (Eldin, Sayed M.)

**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 16 **Issue:** 3 **Article Number:** 104475 **DOI:** 10.1016/j.arabjc.2022.104475 **Early Access Date:** DEC 2022 **Published:** MAR 2023

---

#### Record 748 of 1000

**Title:** Synthesis and biological evaluation of 4-dimethylaminobenzaldehyde derivatives of Schiff bases metal complexes: A review

**Author(s):** Ali, A (Ali, Aemin); Pervaiz, M (Pervaiz, Muhammad); Saeed, Z (Saeed, Zohaib); Younas, U (Younas, Umer); Bashir, R (Bashir, Rashida); Ullah, S (Ullah, Sami); Bukhari, SM (Bukhari, Syed Majid); Ali, F (Ali, Faisal); Jelani, S (Jelani, Seemal); Rashid, A (Rashid, Ayoub); Adnan, A (Adnan, Ahmad)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 145 **Article Number:** 109903 **DOI:** 10.1016/j.inoche.2022.109903 **Early Access Date:** SEP 2022 **Published:** NOV 2022

---

#### Record 749 of 1000

**Title:** Experimental spectroscopic investigations, solute-solvent interactions, topological analysis and biological evaluations of N-(9-Fluorenylmethoxycarbonyloxy)succinimide: An effective agent in anti-breast cancer activity

**Author(s):** Thirunavukkarasu, M (Thirunavukkarasu, M.); Balaji, G (Balaji, G.); Shanthi, D (Shanthi, D.); Prabakaran, P (Prabakaran, P.); Irfan, A (Irfan, Ahmad); Muthu, S (Muthu, S.)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 362 **Article Number:** 119756 **DOI:** 10.1016/j.molliq.2022.119756 **Early Access Date:** JUL 2022 **Published:** SEP 15 2022

---

#### Record 750 of 1000

**Title:** Acid tolerant multicomponent bacterial enzymes production enhancement under the influence of corn cob waste substrate

**Author(s):** Srivastava, N (Srivastava, Neha); Singh, R (Singh, Rajeev); Mohammad, A (Mohammad, Akbar); Pal, DB (Pal, Dan Bahadur); Ahmad, I (Ahmad, Irfan); Alam, MM (Alam, Mohammad Mahtab); Mishra, PK (Mishra, P. K.); Gupta, VK (Gupta, Vijai Kumar)

**Source:** INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY **Volume:** 373 **Article Number:** 109698 **DOI:** 10.1016/j.ijfoodmicro.2022.109698 **Early Access Date:** MAY 2022 **Published:** JUL 16 2022

---

#### Record 751 of 1000

**Title:** Insights Into the Mn(VII) and Cr(VI) Adsorption Mechanisms on Purified Diatomite/MCM-41 Composite: Experimental Study and Statistical Physics Analysis

**Author(s):** Ahmed, IA (Ahmed, Inas A.); Badawi, M (Badawi, Michael); Bonilla-Petriciolet, A (Bonilla-Petriciolet, Adrian); Lima, EC (Lima, Eder C.); Seliem, MK (Seliem, Moaz K.); Mobarak, M (Mobarak, Mohamed)

**Source:** FRONTIERS IN CHEMISTRY **Volume:** 9 **Article Number:** 814431 **DOI:** 10.3389/fchem.2021.814431 **Published:** FEB 8 2022

---

#### Record 752 of 1000

**Title:** Green Synthesis and Antibacterial Activity of Ag/Fe<sub>2</sub>O<sub>3</sub> Nanocomposite Using *Buddleja lindleyana* Extract

**Author(s):** Al-Zahrani, FAM (Al-Zahrani, Fatimah A. M.); Salem, SS (Salem, Salem S.); Al-Ghamdi, HA (Al-Ghamdi, Huda A.); Nhari, LM (Nhari, Laila M.); Lin, L (Lin, Long); El-Shishtawy, RM (El-Shishtawy, Reda M.)

**Source:** BIOENGINEERING-BASEL **Volume:** 9 **Issue:** 9 **Article Number:** 452 **DOI:** 10.3390/bioengineering9090452 **Published:** SEP 2022

---

#### Record 753 of 1000

**Title:** Superhydrophobic Nanosilica Decorated Electrospun Polyethylene Terephthalate Nanofibers for Headspace Solid Phase Microextraction of 16 Organochlorine Pesticides in Environmental Water Samples

**Author(s):** Najarzadegan, H (Najarzadegan, Hamid); Sereshti, H (Sereshti, Hassan); Ahmad, I (Ahmad, Irfan); Shahabuddin, S (Shahabuddin, Syed); Nodeh, HR (Nodeh, Hamid Rashidi); Sridewi, N (Sridewi, Nanthini)

**Source:** POLYMERS **Volume:** 14 **Issue:** 17 **Article Number:** 3682 **DOI:** 10.3390/polym14173682 **Published:** SEP 2022

---

#### Record 754 of 1000

**Title:** Structural, vibrational and opto-nonlinear properties of spin coater derived  $\text{PbI}_2$  films: Effect of solute concentrations

**Author(s):** Khan, ZR (Khan, Z. R.); Alshammari, AS (Alshammari, Abdullah S.); Mohamed, M (Mohamed, Mansour); Shkir, M (Shkir, Mohd)

**Source:** PHYSICA B-CONDENSED MATTER **Volume:** 645 **Article Number:** 414270 **DOI:** 10.1016/j.physb.2022.414270 **Early Access Date:** AUG 2022 **Published:** NOV 15 2022

---

#### Record 755 of 1000

**Title:** Toward the Noninvasive Diagnosis of Alzheimer's Disease: Molecular Basis for the Specificity of Curcumin for Fibrillar Amyloid- $\beta$

**Author(s):** Khurshid, B (Khurshid, Beenish); Rehman, AU (Rehman, Ashfaq Ur); Muhammad, S (Muhammad, Shabbir); Wadood, A (Wadood, Abdul); Anwar, J (Anwar, Jamshed)

**Source:** ACS OMEGA **Volume:** 7 **Issue:** 25 **DOI:** 10.1021/acsomega.2c0299522032ACS **Published:** JUN 13 2022

---

#### Record 756 of 1000

**Title:** A review on two-dimensional (2D) magnetic materials and their potential applications in spintronics and spin-caloritronic

**Author(s):** Elahi, E (Elahi, Ehsan); Dastgeer, G (Dastgeer, Ghulam); Nazir, G (Nazir, Ghazanfar); Nisar, S (Nisar, Sobia); Bashir, M (Bashir, Mudasar); Qureshi, HA (Qureshi, Haroon Akhter); Kim, DK (Kim, Deok-kee); Aziz, J (Aziz, Jamal); Aslam, M (Aslam, Muhammad); Hussain, K (Hussain, Kashif); Assiri, MA (Assiri, Mohammed A.); Imran, M (Imran, Muhammad)

**Source:** COMPUTATIONAL MATERIALS SCIENCE **Volume:** 213 **Article Number:** 111670 **DOI:** 10.1016/j.commatsci.2022.111670 **Early Access Date:** AUG 2022 **Published:** OCT 2022

---

#### Record 757 of 1000

**Title:** MiRNA fine tuning for crop improvement: using advance computational models and biotechnological tools

**Author(s):** Abbas, A (Abbas, Asad); Shah, AN (Shah, Adnan Noor); Tanveer, M (Tanveer, Mohsin); Ahmed, W (Ahmed, Waseem); Shah, AA (Shah, Anis Ali); Fiaz, S (Fiaz, Sajid); Waqas, MM (Waqas, Muhammad Mohsin); Ullah, S (Ullah, Sami)

**Source:** MOLECULAR BIOLOGY REPORTS **DOI:** 10.1007/s11033-022-07231-5 **Early Access Date:** FEB 2022

---

#### Record 758 of 1000

**Title:** Theoretical Approach to Evaluate the Gas-Sensing Performance of Graphene Nanoribbon/Oligothiophene Composites

**Author(s):** Ashraf, A (Ashraf, Ayesha); Herbert, JM (Herbert, John M.); Muhammad, S (Muhammad, Shabbir); Farooqi, BA (Farooqi, Bilal Ahmad); Farooq, U (Farooq, Umar); Salman, M (Salman, Muhammad); Ayub, K (Ayub, Khurshid)

**Source:** ACS OMEGA **Volume:** 7 **Issue:** 2 **Pages:** 2260-2274 **DOI:** 10.1021/acsomega.1c05863 **Early Access Date:** JAN 2022 **Published:** JAN 18 2022

---

#### Record 759 of 1000

**Title:** Potential COVID-19 Drug Candidates Based on Diazinyl-Thiazol-Imine Moieties: Synthesis and Greener Pastures Biological Study

**Author(s):** Abu-Melha, S (Abu-Melha, Sraa); Edrees, MM (Edrees, Mastoura Mohamed); Said, MA (Said, Musa A.); Riyadh, SM (Riyadh, Sayed M.); Al-Kaff, NS (Al-Kaff, Nadia S.); Gomha, SM (Gomha, Sobhi M.)

**Source:** MOLECULES **Volume:** 27 **Issue:** 2 **Article Number:** 488 **DOI:** 10.3390/molecules27020488 **Published:** JAN 2022

---

#### Record 760 of 1000

**Title:** First-principles study of polar magnets corundum double-oxides  $\text{Mn}_2\text{FeMO}_6$  (M = W and Mo)

**Author(s):** Ali, A (Ali, Akbar); Elsaedy, HI (Elsaedy, H. I.); Ullah, S (Ullah, Sami); Khan, SA (Khan, Sayed Ali); Khan, I (Khan, Imad)

**Source:** JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS **Volume:** 563 **Article Number:** 169942 **DOI:** 10.1016/j.jmmm.2022.169942 **Early Access Date:** SEP 2022 **Published:** DEC 1 2022

---

#### Record 761 of 1000

**Title:** Nanomedicines Targeting Heat Shock Protein 90 Gene Expression in the Therapy of Breast Cancer

**Author(s):** Zaib, S (Zaib, Sumera); Areeba, BS (Areeba, B. S.); Rana, BSN (Rana, B. S. Nehal); Wattoo, JI (Wattoo, Javed Iqbal); Alsaab, HO (Alsaab, Hashem O.); Alzhrani, RM (Alzhrani, Rami M.); Awwad, NS (Awwad, Nasser S.); Ibrahim, HA (Ibrahim, Hala A.); Khan, I (Khan, Imtiaz)

**Source:** CHEMISTRYSELECT **Volume:** 7 **Issue:** 14 **Article Number:** e202104553 **DOI:** 10.1002/slct.202104553 **Published:** APR 12 2022

---

#### Record 762 of 1000

**Title:** Modulation of optical, photophysical and electrical properties of poly(3-hexylthiophene) via Gd:CdS nanoparticles

**Author(s):** Khan, MT (Khan, Mohd Taukeer); Shkir, M (Shkir, Mohd.); Alhourri, B (Alhourri, Baraa); Almohammedi, A (Almohammedi, Abdullah); Ismail, YAM (Ismail, Yasser A. M.)

**Source:** OPTIK **Volume:** 260 **Article Number:** 169092 **DOI:** 10.1016/j.ijleo.2022.169092 **Early Access Date:** APR 2022 **Published:** JUN 2022

---

#### Record 763 of 1000

**Title:** Crystallization and Radiation Proficiency of Transparent Sodium Silicate Glass Doped Zirconia

**Author(s):** Wahab, EAA (Wahab, E. A. Abdel); Al-Baradi, AM (Al-Baradi, Ateyyah M.); Sayed, MA (Sayed, M. A.); Ali, AM (Ali, Atif Mossad); Makhlof, SA (Makhlof, Sayed A.); Shaaban, KS (Shaaban, Kh S.)

**Source:** SILICON **Volume:** 14 **Issue:** 14 **Pages:** 8581-8597 **DOI:** 10.1007/s12633-021-01652-w **Early Access Date:** JAN 2022 **Published:** SEP 2022

---

#### Record 764 of 1000

**Title:** Assessment of heavy metal contamination in sediment at the newly established tannery industrial Estate in Bangladesh: A case study

**Author(s):** Rahman, MS (Rahman, M. Safiur); Ahmed, Z (Ahmed, Zia); Seefat, SM (Seefat, Sirajum Munir); Alam, R (Alam, Rafiul); Islam, AMT (Islam, Abu Reza Md Towfiqul); Choudhury, TR (Choudhury, Tasrina Rabia); Begum, BA (Begum, Bilkis Ara); Idris, AM (Idris, Abubakr M.)

**Source:** ENVIRONMENTAL CHEMISTRY AND ECOTOXICOLOGY **Volume:** 4 **Pages:** 1-12 **DOI:** 10.1016/j.eneco.2021.10.001 **Published:** 2022

---

#### Record 765 of 1000

**Title:** Chemical Profiling, Antioxidant, and Antimicrobial Activity of Saudi Propolis Collected by Arabian Honey Bee (*Apis mellifera jemenitica*) Colonies

**Author(s):** ALaerjani, WMA (ALaerjani, Wed Mohammed Ali); Khan, KA (Khan, Khalid Ali); Al-Shehri, BM (Al-Shehri, Badria M.); Ghramh, HA (Ghramh, Hamed A.); Hussain, A (Hussain, Ajaz); Mohammed, MEA (Mohammed, Mohammed Elimam Ahamed); Imran, M (Imran, Muhammad); Ahmad, I (Ahmad, Irfan); Ahmad, S (Ahmad, Saboor); Al-Awadi, AS (Al-Awadi, Abdulrhman S.)

**Source:** ANTIOXIDANTS **Volume:** 11 **Issue:** 7 **Article Number:** 1413 **DOI:** 10.3390/antiox11071413 **Published:** JUL 2022

---

#### Record 766 of 1000

**Title:** CF<sup>3</sup> H-bonding locked aromatic stacking of picric acid with mechanofluorochromic fluorophores: highly selective reusable sensor and rewritable fluorescence platform

**Author(s):** Gayathri, P (Gayathri, Parthasarathy); Ravi, S (Ravi, Sasikala); Nantheeswaran, P (Nantheeswaran, Periyappan); Mariappan, M (Mariappan, Mariappan); Karthikeyan, S (Karthikeyan, Subramanian); Pannipara, M (Pannipara, Mehboobali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Moon, D (Moon, Dohyun); Anthony, SP (Anthony, Savarimuthu Philip)

**Source:** MOLECULAR SYSTEMS DESIGN & ENGINEERING **Volume:** 7 **Issue:** 10 **Pages:** 1277-1286 **DOI:** 10.1039/d2me00075j **Early Access Date:** JUN 2022 **Published:** OCT 3 2022

---

#### Record 767 of 1000

**Title:** Nanosecond Laser Induced Surface Structuring of Cadmium after Ablation in Air and Propanol Ambient

**Author(s):** Umm-I-Kalsoom (Umm-I-Kalsoom); Ali, N (Ali, Nisar); Bashir, S (Bashir, Shazia); Akbar, S (Akbar, Samina); Rafique, MS (Rafique, Muhammad Shahid); Alshehri, AM (Alshehri, Ali Mohammad); Begum, N (Begum, Narjis); Iqbal, T (Iqbal, Tanveer); Anwar, A (Anwar, Aneela)

**Source:** INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES **Volume:** 23 **Issue:** 21 **Article Number:** 12749 **DOI:** 10.3390/ijms232112749 **Published:** NOV 2022

---

#### Record 768 of 1000

**Title:** Experimental and TDDFT materials simulation of thermal characteristics and entropy optimized of Williamson Cu-methanol and Al<sub>2</sub>O<sub>3</sub>-methanol nanofluid flowing through solar collector

**Author(s):** Jamshed, W (Jamshed, Wasim); Eid, MR (Eid, Mohamed R.); Al-Hossainy, AF (Al-Hossainy, Ahmed F.); Raizah, Z (Raizah, Zehba); El Din, EMT (El Din, El Sayed M. Tag); Sajid, T (Sajid, Tanveer)

**Source:** SCIENTIFIC REPORTS **Volume:** 12 **Issue:** 1 **Article Number:** 18130 **DOI:** 10.1038/s41598-022-23025-y **Published:** OCT 28 2022

---

#### Record 769 of 1000

**Title:** The Synthesis of Metal-Organic-Framework-Based Ternary Nanocomposite for the Adsorption of Organic Dyes from Aqueous Solutions

**Author(s):** Alsaiari, NS (Alsaiari, Norah Salem); Osman, H (Osman, Haitham); Amari, A (Amari, Abdelfattah); Tahoon, MA (Tahoon, Mohamed A.)

**Source:** MAGNETOCHEMISTRY **Volume:** 8 **Issue:** 10 **Article Number:** 133 **DOI:** 10.3390/magnetochemistry8100133 **Published:** OCT 2022

---

#### Record 770 of 1000

**Title:** Toward the Noninvasive Diagnosis of Alzheimer's Disease: Molecular Basis for the Specificity of Curcumin for Fibrillar Amyloid- $\beta$

**Author(s):** Khurshid, B (Khurshid, Beenish); Rehman, AU (Rehman, Ashfaq Ur); Muhammad, S (Muhammad, Shabbir); Wadood, A (Wadood, Abdul); Anwar, J (Anwar, Jamshed)

**Source:** ACS OMEGA **Volume:** 7 **Issue:** 25 **Pages:** 22032-22038 **DOI:** 10.1021/acsomega.2c02995 **Early Access Date:** JUN 2022 **Published:** JUN 13 2022

---

#### Record 771 of 1000

**Title:** Phytosterol-Loaded Surface-Tailored Bioactive-Polymer Nanoparticles for Cancer Treatment: Optimization, In Vitro Cell Viability, Antioxidant Activity, and Stability Studies

**Author(s):** Karim, S (Karim, Shahid); Akhter, MH (Akhter, Md Habban); Burzangi, AS (Burzangi, Abdulhadi S.); Alkreathy, H (Alkreathy, Huda); Alharthy, B (Alharthy, Basma); Kotta, S (Kotta, Sabna); Md, S (Md, Shadab); Rashid, MA (Rashid, Md Abdur); Afzal, O (Afzal, Obaid); Altamimi, ASA (Altamimi, Abdulmalik S. A.); Khalilullah, H (Khalilullah, Habibullah)

**Source:** GELS **Volume:** 8 **Issue:** 4 **Article Number:** 219 **DOI:** 10.3390/gels8040219 **Published:** APR 2022

---

#### Record 772 of 1000

**Title:** Photocatalytic Degradation of Yellow-50 Using ZnO/Polyorthoethylaniline Nanocomposites

**Author(s):** Ahmad, MN (Ahmad, Mirza Nadeem); Nadeem, S (Nadeem, Sohail); Javed, M (Javed, Mohsin); Iqbal, S (Iqbal, Shahid); ul Hassan, S (ul Hassan, Sadaf); Khan, M (Khan, Mazhar); Alsaab, HO (Alsaab, Hashem O.); Awwad, NS (Awwad, Nasser S.); Ibrahim, HA (Ibrahim, Hala A.); Mohyuddin, A (Mohyuddin, Ayesha)

**Source:** JOM **Volume:** 74 **Issue:** 5 **Pages:** 2106-2112 **DOI:** 10.1007/s11837-022-05230-2 **Early Access Date:** MAR 2022 **Published:** MAY 2022

---

#### Record 773 of 1000

**Title:** Fabrication and characterization of novel Ga-doped WO<sub>3</sub> films and n-Ga@WO<sub>3</sub>/p-Si junction diode for optoelectronic device applications

**Author(s):** Raja, M (Raja, M.); Marnadu, R (Marnadu, R.); Balaji, M (Balaji, M.); Ravikumar, K (Ravikumar, K.); Krishna, VG (Krishna, V. Gopala); Kumar, M (Kumar, Mohanraj); Massoud, EE (Massoud, Ehab El Sayed)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 139 **Article Number:** 109291 **DOI:** 10.1016/j.inoche.2022.109291 **Early Access Date:** FEB 2022 **Published:** MAY 2022

---

#### Record 774 of 1000

**Title:** Effect of Al-doping on the thermoelectric properties of CZTS thin film grown by sol-gel method

**Author(s):** Ashfaq, A (Ashfaq, Arslan); Jacob, J (Jacob, Jolly); Amami, M (Amami, Mongi); Al-Harbi, FF (Al-Harbi, F. F.); Ali, A (Ali, A.); Mahmood, K (Mahmood, K.); Rehman, U (Rehman, U.); Amin, N (Amin, N.); Ikram, S (Ikram, S.); Akbar, ST (Akbar, S. Tahir); Hussain, S (Hussain, S.)

**Source:** SOLID STATE COMMUNICATIONS **Volume:** 345 **Article Number:** 114701 **DOI:** 10.1016/j.ssc.2022.114701 **Early Access Date:** FEB 2022 **Published:** APR 1 2022

---

#### Record 775 of 1000

**Title:** Increased percentage of apoptotic and CTLA-4 (CD152) expressing cells in CD4<sup>+</sup>/CD8<sup>+</sup> cells in COVID-19 patients

**Author(s):** Zahran, AM (Zahran, Asmaa M.); Nafady-Hego, H (Nafady-Hego, Hanaa); Rashad, A (Rashad, Alaa); El-Badawy, O (El-Badawy, Omnia); Nasif, KA (Nasif, Khalid Ali); Mostafa, AT (Mostafa, Amr Talat); Osman, HA (Osman, Heba Ahmed); Dongol, EM (Dongol, Eptehal Mohammed); Hashim, AA (Hashim, Abdelkader Ahmed); Abdelrazek, GM (Abdelrazek, Ghada M.); Abd Elrahman, NH (Abd Elrahman, Nehad Hassan); Nafady, A (Nafady, Asmaa)

**Source:** MEDICINE **Volume:** 101 **Issue:** 38 **Article Number:** e30650 **DOI:** 10.1097/MD.00000000000030650 **Published:** SEP 23 2022

---

#### Record 776 of 1000

**Title:** Application of Wavelet Characteristics and GMDH Neural Networks for Precise Estimation of Oil Product Types and Volume Fractions

**Author(s):** Mayet, AM (Mayet, Abdulilah Mohammad); Alizadeh, SM (Alizadeh, Seyed Mehdi); Hamakarim, KM (Hamakarim, Karwan Mohammad); Al-Qahtani, AA (Al-Qahtani, Ali Awadh); Alanazi, AK (Alanazi, Abdullah K.); Guerrero, JWG (Guerrero, John William Grimaldo); Alhashim, HH (Alhashim, Hala H.); Eftekhari-Zadeh, E (Eftekhari-Zadeh, Ehsan)

**Source:** SYMMETRY-BASEL **Volume:** 14 **Issue:** 9 **Article Number:** 1797 **DOI:** 10.3390/sym14091797 **Published:** SEP 2022

---

#### Record 777 of 1000

**Title:** Engineering of W-shaped benzodithiophenedione-based small molecular acceptors with improved optoelectronic properties for high efficiency organic solar cells

**Author(s):** Rashid, EU (Rashid, Ehsan Ullah); Hadia, NMA (Hadia, N. M. A.); Iqbal, J (Iqbal, Javed); Mehmood, RF (Mehmood, Rana Farhat); Somaily, HH (Somaily, H. H.); Akram, SJ (Akram, Sahar Javaid); Shawky, AM (Shawky, Ahmed M.); Khan, MI (Khan, Muhammad Imran); Noor, S (Noor, Sadia); Khara, RA (Khara, Rasheed Ahmad)

**Source:** RSC ADVANCES **Volume:** 12 **Issue:** 34 **Pages:** 21801-21820 **DOI:** 10.1039/d2ra03280e **Published:** AUG 4 2022

---

#### Record 778 of 1000

**Title:** Tetracycline Encapsulated in Au Nanoparticle-Decorated ZnO Nanohybrids for Enhanced Antibacterial Activity

**Author(s):** Ahmed, SA (Ahmed, Saleh A.); Hasan, MN (Hasan, Md Nur); Altass, HM (Altass, Hatem M.); Bera, A (Bera, Arpan); Alsantali, RI (Alsantali, Reem, I); Pan, N (Pan, Nivedita); Alzahrani, AYA (Alzahrani, Abdullah Y. A.); Bagchi, D (Bagchi, Damayanti); Al-Fahemi, JH (Al-Fahemi, Jabir H.); Khder, AS (Khder, Abdelrahman S.); Pal, SK (Pal, Samir Kumar)

**Source:** ACS APPLIED NANO MATERIALS **Volume:** 5 **Issue:** 3 **Pages:** 4484-4492 **DOI:** 10.1021/acsnm.2c00655 **Published:** MAR 25 2022

---

#### Record 779 of 1000

**Title:** Evaluation of synthesized inorganic nanomaterials *Plumeria alba* against *Aedes aegypti* and *in vivo* toxicity

**Author(s):** Al-Hakimi, AN (Al-Hakimi, Ahmed N.); Alhag, SK (Alhag, Sadeq K.); Abdulghani, MAM (Abdulghani, Mahfoudh A. M.); Aroua, LM (Aroua, Lotfi M.); Mahyoub, JA (Mahyoub, Jazem A.)

**Source:** MAIN GROUP CHEMISTRY **Volume:** 21 **Issue:** 3 **Pages:** 929-942 **DOI:** 10.3233/MGC-220003 **Published:** 2022

---

#### Record 780 of 1000

**Title:** Superior Long-Term Corrosion Inhibition of N80 Steel by New Eco- friendly Hydrazone-Based Compounds in a Simulated Oil Well Acidizing Environment: Establishing the Mechanism at the Molecular Level

**Author(s):** El-Haitout, B (El-Haitout, Badr); Hejjaj, C (Hejjaj, Chaymae); Lgaz, H (Lgaz, Hassane); Al-Hadeethi, MR (Al-Hadeethi, Mustafa R.); Ali, OM (Ali, Omeed Maroof); Lee, HS (Lee, Han-Seung); Ali, IH (Ali, Ismat H.); Salghi, R (Salghi, Rachid)

**Record 781 of 1000**

**Title:** Expression of MiRNA-29b and MiRNA-31 and their diagnostic and prognostic values in Egyptian females with breast cancer

**Author(s):** Abbas, MA (Abbas, Mona Ahmed); El Sayed, IE (El Sayed, Ibrahim El Tantawy); Abdu-Allah, AMK (Abdu-Allah, Azza Mohamed Kamel); Kalam, A (Kalam, Abul); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Al-Hartomy, OA (Al-Hartomy, Omar A.); El-rahman, MSA (El-rahman, Maha Salah Abd)

**Source:** NON-CODING RNA RESEARCH **Volume:** 7 **Issue:** 4 **Pages:** 248-257 **DOI:** 10.1016/j.ncrna.2022.09.003 **Published:** DEC 2022

---

**Record 782 of 1000**

**Title:** Fouling characteristics and cleaning approach of ultrafiltration membrane during xylose reductase separation

**Author(s):** Krishnan, S (Krishnan, Santhana); Nasrullah, M (Nasrullah, Mohd); Kamyab, H (Kamyab, Hesam); Suzana, N (Suzana, Noor); Ab Munaim, MS (Ab Munaim, Mimi Sakinah); Ab Wahid, Z (Ab Wahid, Zularisam); Ali, IH (Ali, Ismat H.); Salehi, R (Salehi, Reza); Chairapat, S (Chairapat, Sumate)

**Source:** BIOPROCESS AND BIOSYSTEMS ENGINEERING **Volume:** 45 **Issue:** 7 **Pages:** 1125-1136 **DOI:** 10.1007/s00449-022-02726-8 **Early Access Date:** APR 2022 **Published:** JUL 2022

---

**Record 783 of 1000**

**Title:** Thymol ameliorated neurotoxicity and cognitive deterioration in a thioacetamide-induced hepatic encephalopathy rat model; involvement of the BDNF/CREB signaling pathway

**Author(s):** Ogaly, HA (Ogaly, Hanan A.); Abdel-Rahman, RF (Abdel-Rahman, Rehab F.); Mohamed, MA (Mohamed, Marawan Abd Elbaset); Ahmed-Farid, OA (Ahmed-Farid, O. A.); Khattab, MS (Khattab, Marwa S.); Abd-Elsalam, RM (Abd-Elsalam, Reham M.)

**Source:** FOOD & FUNCTION **Volume:** 13 **Issue:** 11 **Pages:** 6180-6194 **DOI:** 10.1039/d1fo04292k **Early Access Date:** APR 2022 **Published:** JUN 6 2022

---

**Record 784 of 1000**

**Title:** Engineering the Physical Properties of Polyvinyl Pyrrolidone/Polyvinyl Alcohol Blend Films by Adding Tb-NiO Nanoparticles for Flexible Optoelectronics Applications

**Author(s):** Ali, HE (Ali, H. Elhosiny); Khan, ZR (Khan, Z. R.); Algarni, H (Algarni, H.); El-Shamy, EF (El-Shamy, E. F.); Shkir, M (Shkir, Mohd.); Khairy, Y (Khairy, Yasmin)

**Source:** JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS **Volume:** 17 **Issue:** 3 **Pages:** 374-382 **DOI:** 10.1166/jno.2022.3216 **Published:** MAR 2022

---

**Record 785 of 1000**

**Title:** Anti-breast Adenocarcinoma and Anti-urease Anti-tyrosinase Properties of 5-Pentylresorcinol as Natural Compound with Molecular Docking Studies

**Author(s):** Yang, XP (Yang, Xiaopeng); Zhao, ZY (Zhao, Zhenyu); Zhao, CH (Zhao, Chenhui); Li, Y (Li, Yan); El-kott, AF (El-kott, Attalla F.); Bani-Fwaz, MZ (Bani-Fwaz, Mutasem Z.)

**Source:** JOURNAL OF OLEO SCIENCE **Volume:** 71 **Issue:** 7 **Pages:** 1031-1038 **DOI:** 10.5650/jos.ess22024 **Published:** 2022

---

**Record 786 of 1000**

**Title:** Synthesis, Characterization, and Application of Magnetized Lanthanum (III)-Based Metal-Organic Framework for the Organic Dye Removal from Water

**Author(s):** Alzahrani, FM (Alzahrani, Fatimah Mohammed); Alsaiari, NS (Alsaiari, Norah Salem); Katubi, KM (Katubi, Khadijah Mohammedsaleh); Amari, A (Amari, Abdelfattah); Tahoona, MA (Tahoona, Mohamed A.)

**Source:** ADSORPTION SCIENCE & TECHNOLOGY **Volume:** 2022 **Article Number:** 3513829 **DOI:** 10.1155/2022/3513829 **Published:** JUL 18 2022

---

**Record 787 of 1000**

**Title:** Hydrothermal development of a novel NiO/rGO nanocomposites for dual supercapacitor and photocatalytic applications

**Author(s):** Shanmugam, V (Shanmugam, V.); Mohan, S (Mohan, S.); Manimaran, P (Manimaran, P.); Ravikumar, K (Ravikumar, K.); Chandekar, KV (Chandekar, Kamlesh V.); Trabelsi, AB (Trabelsi, Amira Ben Gouider); Alkallas, FH



(Alkallas, Fatemah H.); Shkir, M (Shkir, Mohd)

**Source:** MATERIALS CHEMISTRY AND PHYSICS **Volume:** 289 **Article Number:** 126425 **DOI:** 10.1016/j.matchemphys.2022.126425 **Early Access Date:** JUN 2022 **Published:** SEP 15 2022

---

#### Record 788 of 1000

**Title:** Preparation, QTAIM and Single-Crystal Exploration of the Pyrimethamine-Based Co-Crystal Salts with Substituted Benzoic Acids

**Author(s):** Ali, A (Ali, Akbar); Khalid, M (Khalid, Muhammad); Ashfaq, M (Ashfaq, Muhammad); Malik, AN (Malik, Abida Naseem); Tahir, MN (Tahir, Muhammad Nawaz); Assiri, MA (Assiri, Mohammed A.); Imran, M (Imran, Muhammad); AlcântaraMorais, SF (AlcantaraMorais, Sara Figueiredo); Braga, AAC (Braga, Atualpa Albert Carmo)

**Source:** CHEMISTRYSELECT **Volume:** 7 **Issue:** 17 **Article Number:** e202200349 **DOI:** 10.1002/slct.202200349 **Published:** MAY 6 2022

---

#### Record 789 of 1000

**Title:** Fe<sub>2</sub>O<sub>3</sub> Incorporated Anatase/Brookite Biphasic TiO<sub>2</sub> for degradation of Phenol under Simulated Solar Light

**Author(s):** Ali, AM (Ali, Atif Mossad); El-hosainy, H (El-hosainy, Hamza); Al-Hajji, LA (Al-Hajji, L. A.); Alhassan, IY (Alhassan, I. Y.); Ismail, AA (Ismail, Adel A.); Algarni, H (Algarni, Hamed); El-Bery, HM (El-Bery, Haitham M.)

**Source:** OPTICAL MATERIALS **Volume:** 127 **Article Number:** 112247 **DOI:** 10.1016/j.optmat.2022.112247 **Early Access Date:** MAR 2022 **Published:** MAY 2022

---

#### Record 790 of 1000

**Title:** Valorizing food wastes: assessment of novel yeast strains for enhanced production of single-cell protein from wasted date molasses

**Author(s):** Hashem, M (Hashem, M.); Al-Qahtani, MS (Al-Qahtani, M. S.); Alamri, SA (Alamri, S. A.); Moustafa, YS (Moustafa, Y. S.); Lyberatos, G (Lyberatos, G.); Ntaikou, I (Ntaikou, I.)

**Source:** BIOMASS CONVERSION AND BIOREFINERY **Volume:** 12 **Issue:** 10 **Pages:** 4491-4502 **DOI:** 10.1007/s13399-022-02415-2 **Early Access Date:** FEB 2022 **Published:** OCT 2022

---

#### Record 791 of 1000

**Title:** New epoxy-Nano metal oxide-based coatings for enhanced corrosion protection

**Author(s):** Arunadevi, N (Arunadevi, N.); Swathika, M (Swathika, M.); Mehala, M (Mehala, M.); Kumar, ER (Kumar, E. Ranjith); Bawazeer, TM (Bawazeer, Tahani M.); Morad, M (Morad, Moataz); Alkhamis, K (Alkhamis, Kholood); Al-nami, SY (Al-nami, Samar Y.); El-Metwaly, NM (El-Metwaly, Nashwa M.)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1250 **Article Number:** 131790 **DOI:** 10.1016/j.molstruc.2021.131790 **Part:** 2 **Published:** FEB 15 2022

---

#### Record 792 of 1000

**Title:** Natural and anthropogenic contributions to the elemental compositions and subsequent ecological consequences of a transboundary river's sediments (Punarhaba, Bangladesh)

**Author(s):** Hossain, S (Hossain, Shabiha); Khan, R (Khan, Rahat); Anik, AH (Anik, Amit Hasan); Siddique, MAB (Siddique, Md Abu Bakar); Tamim, U (Tamim, Umma); Islam, ARMT (Islam, Abu Reza Md Towfiqul); Idris, AM (Idris, Abubakr M.); Khaleque, MA (Khaleque, Md. Abdul)

**Source:** ENVIRONMENTAL RESEARCH **Volume:** 216 **Article Number:** 114444 **DOI:** 10.1016/j.envres.2022.114444 **Early Access Date:** OCT 2022 **Part:** 1 **Published:** JAN 1 2023

---

#### Record 793 of 1000

**Title:** Growth optimization of single-phase novel colloidal perovskite Cs<sub>3</sub>Bi<sub>2</sub>I<sub>9</sub> nanocrystals and Cs<sub>3</sub>Bi<sub>2</sub>I<sub>9</sub>@SiO<sub>2</sub> core-shell nanocomposites for bio-medical application

**Author(s):** Vedi, S (Vedi, Santhana); Dheivasigamani, T (Dheivasigamani, Thangaraju); Selvam, GS (Selvam, Govarthini Seerangan); Kawakami, T (Kawakami, Takashi); Rajeswaran, N (Rajeswaran, Narmadha); Rajendran, S (Rajendran, Selvakumar); Muthukaruppan, A (Muthukaruppan, Alagar); AlFaify, S (AlFaify, S.); Shkir, M (Shkir, Mohd)

**Source:** BIOMATERIALS SCIENCE **Volume:** 10 **Issue:** 20 **Pages:** 5956-5967 **DOI:** 10.1039/d2bm00773h **Early Access Date:** AUG 2022 **Published:** OCT 11 2022

---

#### Record 794 of 1000

**Title:** Pseudo Janus based on rhombohedral homobilayer transition metal dichalcogenides

**Author(s):** Lin, CQ (Lin, Changqing); Xiang, H (Xiang, Hui); Xiong, HQ (Xiong, Heqi); Ahmad, S (Ahmad, Sohail); Xu, B (Xu, Bo); Zhao, PQ (Zhao, Puqin); Cheng, YC (Cheng, Yingchun)

**Source:** JOURNAL OF MATERIALS CHEMISTRY C **Volume:** 10 **Issue:** 31 **Pages:** 11347-11353 **DOI:** 10.1039/d2tc02227c **Early Access Date:** JUL 2022 **Published:** AUG 11 2022

---

#### Record 795 of 1000

**Title:** Wireless Communication for Robotic Process Automation Using Machine Learning Technique

**Author(s):** Murugamani, C (Murugamani, C.); Sahoo, SK (Sahoo, Santosh Kumar); Kshirsagar, PR (Kshirsagar, Pravin R.); Prathap, BR (Prathap, Boppuru Rudra); Islam, S (Islam, Saiful); Naveed, QN (Noorulhasan Naveed, Quadri); Hussain, MR (Hussain, Mohammad Rashid); Hung, BT (Hung, Bui Thanh); Teresa, DM (Teresa, Dawit Mamiru)

**Source:** WIRELESS COMMUNICATIONS & MOBILE COMPUTING **Volume:** 2022 **Article Number:** 4723138 **DOI:** 10.1155/2022/4723138 **Published:** APR 16 2022

---

#### Record 796 of 1000

**Title:** Photodiode performance and infrared light sensing capabilities of quaternary Cu<sub>2</sub>ZnSnS<sub>4</sub> chalcogenide

**Author(s):** Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Karabulut, A (Karabulut, Abdulkirim); Dere, A (Dere, Aysegul); Al-Ghamdi, AA (Al-Ghamdi, Ahmed A.); Yakuphanoglu, F (Yakuphanoglu, F.)

**Source:** SURFACES AND INTERFACES **Volume:** 29 **Article Number:** 101802 **DOI:** 10.1016/j.surfin.2022.101802 **Early Access Date:** FEB 2022 **Published:** APR 2022

---

#### Record 797 of 1000

**Title:** Monoterpene Indole Alkaloids from the Aerial Parts of *Rhazya stricta* Induce Cytotoxicity and Apoptosis in Human Adenocarcinoma Cells

**Author(s):** Abdul-Hameed, ZH (Abdul-Hameed, Zainab H.); Bawakid, NO (Bawakid, Nahed O.); Alorfi, HS (Alorfi, Hajar S.); Sobahi, TR (Sobahi, Tariq R.); Alburae, NA (Alburae, Najla Ali); Abdel-Lateff, A (Abdel-Lateff, Ahmed); Elbehairi, SEI (Elbehairi, Serag Eldin I.); Alfaihi, MY (Alfaihi, Mohammad Y.); Alhakamy, NA (Alhakamy, Nabil A.); Alarif, WM (Alarif, Walied M.)

**Source:** MOLECULES **Volume:** 27 **Issue:** 4 **Article Number:** 1422 **DOI:** 10.3390/molecules27041422 **Published:** FEB 2022

---

#### Record 798 of 1000

**Title:** Porphyrin based channel for separation of proton isotope: A density functional theory study

**Author(s):** Ayub, A (Ayub, Amna); Gul, S (Gul, Sehrish); Ayub, R (Ayub, Riffat); Bibi, Z (Bibi, Zeeshana); Hashmi, MA (Hashmi, Muhammad Ali); Lakhani, A (Lakhani, Ahmed); Dahshan, A (Dahshan, A.); Ayub, K (Ayub, Khurshid); Iqbal, J (Iqbal, Javed)

**Source:** JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS **Volume:** 171 **Article Number:** 111032 **DOI:** 10.1016/j.jpcs.2022.111032 **Early Access Date:** OCT 2022 **Published:** DEC 2022

---

#### Record 799 of 1000

**Title:** Synthesis of carbon supported iron oxide nanochips and their composite with glutathione: A novel electrochemical sensitive material

**Author(s):** Tariq, R (Tariq, Rabbia); Zulfiqar, S (Zulfiqar, Sonia); Smaili, HH (Smaili, H. H.); Warsi, MF (Warsi, Muhammad Farooq); Ayman, I (Ayman, Imtisal); Hanif, F (Hanif, Farzana); Akhtar, M (Akhtar, Mehwish); Aadil, M (Aadil, Muhammad)

**Source:** SURFACES AND INTERFACES **Volume:** 34 **Article Number:** 102350 **DOI:** 10.1016/j.surfin.2022.102350 **Early Access Date:** OCT 2022 **Published:** NOV 2022

---

#### Record 800 of 1000

**Title:** Integration and Applications of Nanomaterials for Ultrafast Photonics

**Author(s):** Zhao, XL (Zhao, Xiaoli); Jin, H (Jin, Hong); Liu, JY (Liu, Jiayao); Chao, JL (Chao, Jiale); Liu, TY (Liu, Tingyi); Zhang, H (Zhang, Han); Wang, G (Wang, Gang); Lyu, WH (Lyu, Wenhao); Wageh, S (Wageh, Swelm); Al-Hartomy, OA (Al-Hartomy, Omar A.); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Fu, B (Fu, Bo); Zhang, H (Zhang, Han)

**Source:** LASER & PHOTONICS REVIEWS **Volume:** 16 **Issue:** 11 **Article Number:** 2200386 **DOI:** 10.1002/lpor.202200386 **Early Access Date:** SEP 2022 **Published:** NOV 2022

---

#### Record 801 of 1000

**Title:** Aerial Separation and Receiver Arrangements on Identifying Lung Syndromes Using the Artificial Neural Network  
**Author(s):** Manoharan, H (Manoharan, Hariprasath); Rambola, RK (Rambola, Radha Krishna); Kshirsagar, PR (Kshirsagar, Pravin R.); Chakrabarti, P (Chakrabarti, Prasun); Alqahtani, J (Alqahtani, Jarallah); Naveed, QN (Naveed, Quadri Noorulhasan); Islam, S (Islam, Saiful); Mekuriyaw, WD (Mekuriyaw, Walelign Dinku)  
**Source:** COMPUTATIONAL INTELLIGENCE AND NEUROSCIENCE **Volume:** 2022 **Article Number:** 7298903 **DOI:** 10.1155/2022/7298903 **Published:** AUG 23 2022

---

#### Record 802 of 1000

**Title:** Accrual and Dismemberment of Brain Tumours Using Fuzzy Interface and Grey Textures for Image Disproportion  
**Author(s):** Kshirsagar, PR (Kshirsagar, Pravin R.); Manoharan, H (Manoharan, Hariprasath); Nagaraju, VS (Nagaraju, V. Siva); Alqahtani, H (Alqahtani, Hamed); Noorulhasan, Q (Noorulhasan, Quadri); Islam, S (Islam, Saiful); Thangamani, M (Thangamani, M.); Sahni, V (Sahni, Varsha); Adigo, AG (Adigo, Amsalu Gosu)  
**Source:** COMPUTATIONAL INTELLIGENCE AND NEUROSCIENCE **Volume:** 2022 **Article Number:** 2609387 **DOI:** 10.1155/2022/2609387 **Published:** JUL 30 2022

---

#### Record 803 of 1000

**Title:** Degradation of Reactive Yellow 18 Using Ionizing Radiation Based Advanced Oxidation Processes: Cytotoxicity, Mutagenicity and By-Product Distribution  
**Author(s):** Shahzadi, M (Shahzadi, Maryam); Bokhari, TH (Bokhari, Tanveer Hussain); Nazish, N (Nazish, Nadia); Usman, M (Usman, Muhammad); Ezzine, S (Ezzine, Safa); Alwadai, N (Alwadai, Norah); Iqbal, M (Iqbal, Munawar); Alfryyan, N (Alfryyan, Nada); Iqbal, M (Iqbal, Mazhar); Khosa, MK (Khosa, Muhammad Kaleem); Abbas, M (Abbas, Mazhar)  
**Source:** WATER **Volume:** 14 **Issue:** 11 **Article Number:** 1688 **DOI:** 10.3390/w14111688 **Published:** JUN 2022

---

#### Record 804 of 1000

**Title:** Nuts as a Part of Dietary Strategy to Improve Metabolic Biomarkers: A Narrative Review  
**Author(s):** Khalili, L (Khalili, Leila); A-Elgadir, TME (A-Elgadir, Thoraya Mohamed Elhassan); Mallick, AK (Mallick, Ayaz Khurram); El Enshasy, HA (El Enshasy, Hesham Ali); Sayyed, RZ (Sayyed, R. Z.)  
**Source:** FRONTIERS IN NUTRITION **Volume:** 9 **Article Number:** 881843 **DOI:** 10.3389/fnut.2022.881843 **Published:** MAR 29 2022

---

#### Record 805 of 1000

**Title:** First-principles calculations to investigate structural, electronics, optical and elastic properties of Sn-based inorganic Halide-perovskites  $CsSnX_3$  ( $X = I, Br, Cl$ ) for solar cell applications  
**Author(s):** Rehman, JU (Rehman, Jalil Ur); Usman, M (Usman, Muhammad); Amjid, S (Amjid, Sana); Sagir, M (Sagir, Muhammad); Tahir, MB (Tahir, M. Bilal); Hussain, A (Hussain, Abid); Alam, I (Alam, Iftikhar); Nazir, R (Nazir, Ruqia); Alrobei, H (Alrobei, Hussein); Ullah, S (Ullah, Sami); Assiri, MA (Assiri, Mohammed ALi)  
**Source:** COMPUTATIONAL AND THEORETICAL CHEMISTRY **Volume:** 1209 **Article Number:** 113624 **DOI:** 10.1016/j.comptc.2022.113624 **Early Access Date:** FEB 2022 **Published:** MAR 2022

---

#### Record 806 of 1000

**Title:** Introducing a bionanocomposite (Ultrasound-assisted synthesis of Ag nanoparticles embedded *Aloe vera* gel) for the treatment of cervical carcinoma  
**Author(s):** Yan, J (Yan, Jing); Karmakar, B (Karmakar, Bikash); Zaki, MSA (Zaki, Mohamed Samir A.); Osman, R (Osman, Rihab); Abdalla, AM (Abdalla, Asim M.); Shati, AA (Shati, Ali A.); El-kott, AF (El-kott, Attalla F.); Yousef, FM (Yousef, Fatimah M.); Aggad, SS (Aggad, Sarah S.); Batiha, GE (Batiha, Gaber El-Saber)  
**Source:** JOURNAL OF EXPERIMENTAL NANOSCIENCE **Volume:** 17 **Issue:** 1 **Pages:** 617-630 **DOI:** 10.1080/17458080.2022.2134562 **Published:** DEC 31 2022

---

#### Record 807 of 1000

**Title:** Investigation of  $X_2GaAgCl_6$  ( $X = K, Cs$ ) for Optoelectronic Devices: A Density Functional Theory Study  
**Author(s):** Nasarullah (Nasarullah); Younas, A (Younas, Aasma); Elqahtani, ZM (Elqahtani, Zainab Mufarreh); Aldaghfag, SA (Aldaghfag, Shatha A.); Yaseen, M (Yaseen, Muhammad); Zahid, M (Zahid, Muhammad); Somaily, HH (Somaily, Hamoud H.)  
**Source:** PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS **Volume:** 259 **Issue:** 11 **DOI:** 10.1002/pssb.202200189 **Early Access Date:** OCT 2022 **Published:** NOV 2022

---

### Record 808 of 1000

**Title:** Optical-intensity modulators with PbTe thermoelectric nanopowders for ultrafast photonics

**Author(s):** Li, XH (Li, Xiaohui); Xu, WS (Xu, Wenshuai); Wang, YM (Wang, Yamin); Zhang, XL (Zhang, Xiaoli); Hui, ZQ (Hui, Zhanqiang); Zhang, H (Zhang, Han); Wageh, S (Wageh, S.); Al-Hartomy, OA (Al-Hartomy, Omar A.); Al-Sehemi, AG (Al-Sehemi, Abdullah G.)

**Source:** APPLIED MATERIALS TODAY **Volume:** 28 **Article Number:** 101546 **DOI:** 10.1016/j.apmt.2022.101546 **Early Access Date:** JUN 2022 **Published:** AUG 2022

---

### Record 809 of 1000

**Title:** Physicochemical changes of hydroxyapatite,  $V_2O_5$ , and graphene oxide composites for medical usages

**Author(s):** Ashraf, S (Ashraf, Sherif); El-Morsy, MA (El-Morsy, M. A.); Awwad, NS (Awwad, Nasser S.); Ibrahim, HA (Ibrahim, Hala A.)

**Source:** JOURNAL OF THE AUSTRALIAN CERAMIC SOCIETY **Volume:** 58 **Issue:** 4 **Pages:** 1399-1413 **DOI:** 10.1007/s41779-022-00735-0 **Early Access Date:** APR 2022 **Published:** SEP 2022

---

### Record 810 of 1000

**Title:** Antiproliferative and Proapoptotic Effect of *Daucus carota* in Cervical Cancer Cells: An *In Vitro* Approach

**Author(s):** Zaib, S (Zaib, Sumera); Virk, UY (Virk, Urooj Y.); Wattoo, JI (Wattoo, Javed, I); Shah, HS (Shah, Hamid S.); Awwad, NS (Awwad, Nasser S.); Ibrahim, HA (Ibrahim, Hala A.); Khan, I (Khan, Imtiaz)

**Source:** CHEMISTRYSELECT **Volume:** 7 **Issue:** 12 **Article Number:** e202200082 **DOI:** 10.1002/slct.202200082 **Published:** MAR 29 2022

---

### Record 811 of 1000

**Title:** Animal- and Human-Inspired Nanostructures as Supercapacitor Electrode Materials: A Review

**Author(s):** Hussain, I (Hussain, Iftikhar); Lamiel, C (Lamiel, Charmaine); Sahoo, S (Sahoo, Sumanta); Javed, MS (Javed, Muhammad Sufyan); Ahmad, M (Ahmad, Muhammad); Chen, X (Chen, Xi); Gu, S (Gu, Shuai); Qin, N (Qin, Ning); Assiri, MA (Assiri, Mohammed A.); Zhang, KL (Zhang, Kaili)

**Source:** NANO-MICRO LETTERS **Volume:** 14 **Issue:** 1 **Article Number:** 199 **DOI:** 10.1007/s40820-022-00944-z **Published:** DEC 2022

---

### Record 812 of 1000

**Title:** Efficient adsorption of hexavalent chromium ions onto novel ferrochrome slag/polyaniline nanocomposite: ANN modeling, isotherms, kinetics, and thermodynamic studies

**Author(s):** Khan, MI (Khan, Mohammed Ilyas); Almesfer, MK (Almesfer, Mohammed Khaloufa); Elkhaleefa, AM (Elkhaleefa, Abubakr Mustafa); Aamary, A (Aamary, Abdelfattah); Ali, IH (Ali, Ismat Hassan); Shamim, MZ (Shamim, Mohammed Zubair); Shoukry, H (Shoukry, Hamada); Rehan, M (Rehan, Mohmmad)

**Source:** ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH **Volume:** 29 **Issue:** 57 **Pages:** 86665-86679 **DOI:** 10.1007/s11356-022-21778-7 **Early Access Date:** JUL 2022 **Published:** DEC 2022

---

### Record 813 of 1000

**Title:** Miconazole Mitigates Acetic Acid-Induced Experimental Colitis in Rats: Insight into Inflammation, Oxidative Stress and Keap1/Nrf-2 Signaling Crosstalk

**Author(s):** Alsharif, IA (Alsharif, Ifat A.); Fayed, HM (Fayed, Hany M.); Abdel-Rahman, RF (Abdel-Rahman, Rehab F.); Abd-Elsalam, RM (Abd-Elsalam, Reham M.); Ogaly, HA (Ogaly, Hanan A.)

**Source:** BIOLOGY-BASEL **Volume:** 11 **Issue:** 2 **Article Number:** 303 **DOI:** 10.3390/biology11020303 **Published:** FEB 2022

---

### Record 814 of 1000

**Title:** Numerical Simulations of Environmental Energy Features in Solar Pump Application by Using Hybrid Nanofluid Flow: Prandtl-Eyring Case

**Author(s):** Jamshed, W (Jamshed, Wasim); Safdar, R (Safdar, Rabia); Brahmia, A (Brahmia, Ameni); Alanazi, AK (Alanazi, Abdullah K.); Abo-Dief, HM (Abo-Dief, Hala M.); Eid, MR (Eid, Mohamed Rabea)

**Source:** ENERGY & ENVIRONMENT **Volume:** 34 **Issue:** 4 **Pages:** 780-807 **Article Number:** 0958305X211073806 **DOI:** 10.1177/0958305X211073806 **Early Access Date:** FEB 2022 **Published:** JUN 2023

---

**Record 815 of 1000**

**Title:** Unsteady MHD stagnation point flow of ternary hybrid nanofluid over a spinning sphere with Joule heating

**Author(s):** Mahmood, Z (Mahmood, Zafar); Alhazmi, SE (Alhazmi, Sharifah E.); Khan, U (Khan, Umar); Bani-Fwaz, MZ (Bani-Fwaz, Mutasem Z.); Galal, AM (Galal, Ahmed M.)

**Source:** INTERNATIONAL JOURNAL OF MODERN PHYSICS B **Volume:** 36 **Issue:** 32 **Article Number:** 2250230 **DOI:** 10.1142/S0217979222502307 **Early Access Date:** SEP 2022 **Published:** DEC 30 2022

---

**Record 816 of 1000**

**Title:** Removal of erythrosine B dye from wastewater using chitosan boric acid composite material: Experimental and density functional theory findings

**Author(s):** Çetinkaya, HF (Cetinkaya, Huseyin Fatih); Cebeci, MS (Cebeci, Meltem Sarioglu); Kaya, S (Kaya, Savas); Jalbani, NS (Jalbani, Nida Shams); Maslov, MM (Maslov, Mikhail M.); Marzouki, R (Marzouki, Riadh)

**Source:** JOURNAL OF PHYSICAL ORGANIC CHEMISTRY **Volume:** 36 **Issue:** 12 **Special Issue:** SI **Article Number:** e4400 **DOI:** 10.1002/poc.4400 **Early Access Date:** JUN 2022 **Published:** DEC 2023

---

**Record 817 of 1000**

**Title:** FeP nanorod array: A high-efficiency catalyst for electroreduction of NO to NH<sub>3</sub> under ambient conditions

**Author(s):** Liang, J (Liang, Jie); Zhou, Q (Zhou, Qiang); Mou, T (Mou, Ting); Chen, HY (Chen, Hongyu); Yue, LC (Yue, Luchao); Luo, YS (Luo, Yongsong); Liu, Q (Liu, Qian); Hamdy, MS (Hamdy, Mohamed S.); Alshehri, AA (Alshehri, Abdulmohsen Ali); Gong, F (Gong, Feng); Sun, XP (Sun, Xuping)

**Source:** NANO RESEARCH **Volume:** 15 **Issue:** 5 **Pages:** 4008-4013 **Article Number:** O4 **DOI:** 10.1007/s12274-022-4174-0 **Early Access Date:** MAR 2022 **Published:** MAY 2022

---

**Record 818 of 1000**

**Title:** A Two-Year Study on Yield and Yield Components of Maize-White Bean Intercropping Systems under Different Sowing Techniques

**Author(s):** Zhanbota, A (Zhanbota, Aidyn); Noor, RS (Noor, Rana Shahzad); Khan, AI (Khan, Azeem Iqbal); Wang, GY (Wang, Gangyi); Waqas, MM (Waqas, Muhammad Mohsin); Shah, AN (Shah, Adnan Noor); Ullah, S (Ullah, Sami)

**Source:** AGRONOMY-BASEL **Volume:** 12 **Issue:** 2 **Article Number:** 240 **DOI:** 10.3390/agronomy12020240 **Published:** FEB 2022

---

**Record 819 of 1000**

**Title:** Sulfurization temperature induced enhancement in thermoelectric properties of polycrystalline WS<sub>2</sub> nanomaterials

**Author(s):** Ikram, S (Ikram, Salma); Jacob, J (Jacob, Jolly); Al-Harbi, FF (Al-Harbi, F. F.); Mahmood, K (Mahmood, K.); Ali, A (Ali, A.); Amin, N (Amin, N.); Sikindar, T (Sikindar, Tariq); Amami, M (Amami, Mongi); Hussain, S (Hussain, S.); Javaid, K (Javaid, K.)

**Source:** OPTICAL MATERIALS **Volume:** 124 **Article Number:** 112004 **DOI:** 10.1016/j.optmat.2022.112004 **Early Access Date:** JAN 2022 **Published:** FEB 2022

---

**Record 820 of 1000**

**Title:** Development and performance evaluation of solar heating system for biogas production process

**Author(s):** Gunjo, DG (Gunjo, Dawit Gudeta); Yadav, VK (Yadav, Vinod Kumar); Sinha, DK (Sinha, Devendra Kumar); Elseesy, IE (Elseesy, Ibrahim E.); Ahmed, GMS (Ahmed, Gulam Mohammed Sayeed); Abdelmohimen, MAH (Abdelmohimen, Mostafa A. H.)

**Source:** CASE STUDIES IN THERMAL ENGINEERING **Volume:** 39 **Article Number:** 102438 **DOI:** 10.1016/j.csite.2022.102438 **Early Access Date:** SEP 2022 **Published:** NOV 2022

---

**Record 821 of 1000**

**Title:** Synthesis, theoretical investigations and biological evaluation of ibuprofen drug hybrids

**Author(s):** Tatheer, A (Tatheer, Adina); Murtaza, S (Murtaza, Shahzad); Kausar, N (Kausar, Naghmana); Altaf, AA (Altaf, Ataf Ali); Kausar, S (Kausar, Samia); Ahmed, S (Ahmed, Safer); Muhammad, S (Muhammad, Shabbir); Hussain, A (Hussain, Amjad)

**Source:** MEDICINAL CHEMISTRY RESEARCH **Volume:** 31 **Issue:** 11 **Pages:** 2032-2044 **DOI:** 10.1007/s00044-022-02955-2 **Early Access Date:** SEP 2022 **Published:** NOV 2022

---

### Record 822 of 1000

**Title:** Graphene oxide sheets wrapped with poly (aniline-co-melamine) nanofibers furnished with SnO<sub>2</sub> nanoparticles for electrochemical energy storage

**Author(s):** Ahmed, I (Ahmed, Ishtiaq); Rehman, W (Rehman, Wajid); Mir, S (Mir, Sadullah); Somaily, HH (Somaily, H. H.); Khalid, M (Khalid, Mohammad); Numan, A (Numan, Arshid)

**Source:** JOURNAL OF MATERIALS RESEARCH **Volume:** 37 **Issue:** 21 **Pages:** 3505-3521 **DOI:** 10.1557/s43578-022-00718-8 **Early Access Date:** SEP 2022 **Published:** NOV 14 2022

---

### Record 823 of 1000

**Title:** Computational simulation and investigations on the molecular separation of Ibuprofen from aqueous solution using polymeric membranes

**Author(s):** Alsalhi, A (Alsalhi, Abdullah); Al-Shati, AS (Al-Shati, Ahmed Salah); Almaghrabi, M (Almaghrabi, Mohammed); Alzahrani, MS (Alzahrani, Mohammad S.); Huwaimel, B (Huwaimel, Bader); Alshehri, S (Alshehri, Sameer); Venkatesan, K (Venkatesan, Kumar); Abduljabbar, MH (Abduljabbar, Maram H.)

**Source:** ENVIRONMENTAL TECHNOLOGY & INNOVATION **Volume:** 28 **Article Number:** 102939 **DOI:** 10.1016/j.eti.2022.102939 **Early Access Date:** OCT 2022 **Published:** NOV 2022

---

### Record 824 of 1000

**Title:** Construction of nickel molybdenum sulfide (NiMoS<sub>3</sub>)/bio carbon (BC) heterostructure photoanodes and optimization of light scattering to improve the photovoltaic performance of dye sensitized solar cells (DSSCs)

**Author(s):** Sumathi, T (Sumathi, T.); Fredrick, SR (Fredrick, Sonia R.); Shkir, M (Shkir, Mohd); Hakami, J (Hakami, Jabir); Umar, A (Umar, Ahmad)

**Source:** PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES **Volume:** 143 **Article Number:** 115362 **DOI:** 10.1016/j.physe.2022.115362 **Early Access Date:** JUN 2022 **Published:** SEP 2022

---

### Record 825 of 1000

**Title:** Cytotoxic urea Schiff base complexes for multidrug discovery as anticancer activity and *in vivo* oral assessing toxicity

**Author(s):** Aroua, LM (Aroua, Lotfi M.); Al-Hakimi, AN (Al-Hakimi, Ahmed N.); Abdulghani, MAM (Abdulghani, Mahfoudh A. M.); Alhag, SK (Alhag, Sadeq K.)

**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 15 **Issue:** 8 **Article Number:** 103986 **DOI:** 10.1016/j.arabjc.2022.103986 **Early Access Date:** JUN 2022 **Published:** AUG 2022

---

### Record 826 of 1000

**Title:** An efficient and stable iodine-doped nickel hydroxide electrocatalyst for water oxidation: synthesis, electrochemical performance, and stability

**Author(s):** Yousaf, S (Yousaf, Sheraz); Zulfiqar, S (Zulfiqar, Sonia); Somaily, HH (Somaily, H. H.); Warsi, MF (Warsi, Muhammad Farooq); Rasheed, A (Rasheed, Aamir); Shahid, M (Shahid, Muhammad); Ahmad, I (Ahmad, Iqbal)

**Source:** RSC ADVANCES **Volume:** 12 **Issue:** 36 **Pages:** 23454-23465 **DOI:** 10.1039/d2ra03873k **Published:** AUG 16 2022

---

### Record 827 of 1000

**Title:** A coupled novel framework for assessing vulnerability of water resources using hydrochemical analysis and data-driven models

**Author(s):** Islam, AMT (Islam, Abu Reza Md Towfiqul); Pal, SC (Pal, Subodh Chandra); Chakraborty, R (Chakraborty, Rabin); Idris, AM (Idris, Abubakr M.); Salam, R (Salam, Roquia); Islam, MS (Islam, Md Saiful); Zahid, A (Zahid, Anwar); Shahid, S (Shahid, Shamsuddin); Bin Ismail, Z (Bin Ismail, Zulhilmi)

**Source:** JOURNAL OF CLEANER PRODUCTION **Volume:** 336 **Article Number:** 130407 **DOI:** 10.1016/j.jclepro.2022.130407 **Early Access Date:** JAN 2022 **Published:** FEB 15 2022

---

### Record 828 of 1000

**Title:** Experimental and Molecular Docking Studies of Cyclic Diphenyl Phosphonates as DNA Gyrase Inhibitors for Fluoroquinolone-Resistant Pathogens

**Author(s):** Saleh, NM (Saleh, Neveen M.); Moemen, YS (Moemen, Yasmine S.); Mohamed, SH (Mohamed, Sara H.); Fathy, G (Fathy, Ghady); Ahmed, AAS (Ahmed, Abdullah A. S.); Al-Ghamdi, AA (Al-Ghamdi, Ahmed A.); Ullah, S (Ullah, Sami); El Sayed, IE (El Sayed, Ibrahim El-Tantawy)

**Source:** ANTIBIOTICS-BASEL **Volume:** 11 **Issue:** 1 **Article Number:** 53 **DOI:** 10.3390/antibiotics11010053 **Published:** JAN 2022

---

**Record 829 of 1000**

**Title:** Augmenting the Photocatalytic Performance of Direct Z-Scheme Bi<sub>2</sub>O<sub>3</sub>/g-C<sub>3</sub>N<sub>4</sub> Nanocomposite

**Author(s):** Mahalakshmi, K (Mahalakshmi, Krishnasamy); Ranjith, R (Ranjith, Rajendran); Thangavelu, P (Thangavelu, Pazhanivel); Priyadharshini, M (Priyadharshini, Matheshwaran); Palanivel, B (Palanivel, Baskaran); Manthrammel, MA (Manthrammel, Mohamed Aslam); Shkir, M (Shkir, Mohd); Diravidamani, B (Diravidamani, Barathi)

**Source:** CATALYSTS **Volume:** 12 **Issue:** 12 **Article Number:** 1544 **DOI:** 10.3390/catal12121544 **Published:** DEC 2022

---

**Record 830 of 1000**

**Title:** First theoretical probe for efficient enhancement of optical nonlinearity *via* structural modifications into phenylene based D- $\pi$ -A configured molecules

**Author(s):** Khalid, M (Khalid, Muhammad); Naz, S (Naz, Salma); Mahmood, K (Mahmood, Khalid); Hussain, S (Hussain, Shabbir); Braga, AAC (Braga, Atualpa Albert Carmo); Hussain, R (Hussain, Riaz); Ragab, AH (Ragab, Ahmed H.); Al-Mhyawi, SR (Al-Mhyawi, Saedah R.)

**Source:** RSC ADVANCES **Volume:** 12 **Issue:** 48 **Pages:** 31192-31204 **DOI:** 10.1039/d2ra04844b **Published:** OCT 27 2022

---

**Record 831 of 1000**

**Title:** Enhanced Path Routing with Buffer Allocation Method Using Coupling Node Selection Algorithm in MANET

**Author(s):** Bharti, RK (Bharti, Rajendra Kumar); Soundarajan, S (Soundarajan, S.); Sumant, SV (Sumant, Sushma, V); Durai, CAD (Durai, C. Anand Deva); Kumar, RA (Kumar, Relangi Anil); Singh, K (Singh, Kamlesh); Palivela, H (Palivela, Hemant); Kumar, BR (Kumar, B. Rajesh); Debtera, B (Debtera, Baru)

**Source:** WIRELESS COMMUNICATIONS & MOBILE COMPUTING **Volume:** 2022 **Article Number:** 1955290 **DOI:** 10.1155/2022/1955290 **Published:** JUL 18 2022

---

**Record 832 of 1000**

**Title:** Development of Biocompatible Polyhydroxyalkanoate/Chitosan-Tungsten Disulphide Nanocomposite for Antibacterial and Biological Applications

**Author(s):** Mukheem, A (Mukheem, Abdul); Shahabuddin, S (Shahabuddin, Syed); Akbar, N (Akbar, Noor); Ahmad, I (Ahmad, Irfan); Sudesh, K (Sudesh, Kumar); Sridewi, N (Sridewi, Nanthini)

**Source:** POLYMERS **Volume:** 14 **Issue:** 11 **Article Number:** 2224 **DOI:** 10.3390/polym14112224 **Published:** JUN 2022

---

**Record 833 of 1000**

**Title:** Synthesis, antimicrobial potential and computational studies of crystalline 4-bromo-2-(1,4,5-triphenyl-1*H*-imidazole-2-yl)phenol and its metal complexes

**Author(s):** Siddique, A (Siddique, Abu Bakar); Ahmad, S (Ahmad, Saeed); Shaheen, MA (Shaheen, Muhammad Ashraf); Ali, A (Ali, Akbar); Tahir, MN (Tahir, Muhammad Nawaz); Vieira, LC (Vieira, Lucas Campos); Muhammad, S (Muhammad, Shabbir); Siddeeg, SM (Siddeeg, Saifeldin M.)

**Source:** CRYSTENGCOMM **Volume:** 24 **Issue:** 47 **Pages:** 8237-8247 **DOI:** 10.1039/d2ce01118b **Early Access Date:** OCT 2022 **Published:** DEC 5 2022

---

**Record 834 of 1000**

**Title:** A Training Exoskeleton for Rehabilitation in Upper Extremity for Stroke Patients

**Author(s):** Faiz, S (Faiz, Sohaib); Waris, A (Waris, Asim); Mushtaq, S (Mushtaq, Shafaq); Khan, NB (Khan, Niaz B.); Jameel, M (Jameel, Mohammed); Galal, AM (Galal, Ahmed M.)

**Source:** JOURNAL OF COMPUTATIONAL BIOPHYSICS AND CHEMISTRY **Volume:** 22 **Issue:** 03 **Pages:** 273-281 **DOI:** 10.1142/S2737416523400033 **Early Access Date:** SEP 2022 **Published:** MAY 2023

---

**Record 835 of 1000**

**Title:** Tuning the Composition of Hydroxyapatite/Holmium Oxide/Graphene Oxide Mixed Systems for Biomedical Applications

**Author(s):** El-Morsy, MA (El-Morsy, M. A.); Awwad, NS (Awwad, Nasser S.); Ibrahim, HA (Ibrahim, Hala A.); Menazea, AA (Menazea, A. A.)

**Source:** JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS **Volume:** 33 **Issue:** 1 **Pages:** 76-89 **DOI:** 10.1007/s10904-022-02436-4 **Early Access Date:** SEP 2022 **Published:** JAN 2023

---

**Record 836 of 1000**

**Title:** First-principles Calculations to Investigate Emerging Double Perovskites  $K_2NaMoX_6$  (X=Cl, I) Compounds for Magnetic and Optoelectronic Applications

**Author(s):** Munir, S (Munir, Sheharyar); Butt, MK (Butt, Mehwish Khalid); Aldaghfag, SA (Aldaghfag, Shatha A.); Misbah (Misbah); Yaseen, M (Yaseen, Muhammad); Nasarullah (Nasarullah); Nazar, M (Nazar, Mubashar); Somaily, HH (Somaily, H. H.)

**Source:** PHYSICA B-CONDENSED MATTER **Volume:** 645 **Article Number:** 414252 **DOI:** 10.1016/j.physb.2022.414252 **Early Access Date:** AUG 2022 **Published:** NOV 15 2022

---

**Record 837 of 1000**

**Title:** Fluorometric and electrochemical dual-mode detection of toxic flavonoid rutin based on new nitrogen and sulfur co-doped carbon dots: Enhanced selectivity based on masking the interfering flavonoids with BSA complexation (vol 108, 104428, 2022)

**Author(s):** Mahmoud, AM (Mahmoud, Ashraf M.); Mahnashi, MH (Mahnashi, Mater H.); Al Fatease, A (Al Fatease, Adel); Mostafa, MAH (Mostafa, Mahmoud A. H.); El-Wekil, MM (El-Wekil, Mohamed M.); Ali, R (Ali, Ramadan)

**Source:** JOURNAL OF FOOD COMPOSITION AND ANALYSIS **Volume:** 110 **Article Number:** 104575 **DOI:** 10.1016/j.jfca.2022.104575 **Early Access Date:** MAY 2022 **Published:** JUL 2022

---

**Record 838 of 1000**

**Title:** Simplified Route for Deposition of Binary and Ternary Bismuth Sulphide Thin Films for Solar Cell Applications

**Author(s):** Fazal, T (Fazal, Tanzeela); Ismail, B (Ismail, Bushra); Shah, M (Shah, Mazloom); Iqbal, S (Iqbal, Shahid); Elkaeed, EB (Elkaeed, Eslam B.); Awwad, NS (Awwad, Nasser S.); Ibrahim, HA (Ibrahim, Hala A.)

**Source:** SUSTAINABILITY **Volume:** 14 **Issue:** 8 **Article Number:** 4603 **DOI:** 10.3390/su14084603 **Published:** APR 2022

---

**Record 839 of 1000**

**Title:** Assessment of the impacts of climate change on drought in an arid area using drought indices and Landsat remote sensing data

**Author(s):** Derdour, A (Derdour, Abdessamed); Bouarfa, S (Bouarfa, Said); Kaid, N (Kaid, Noureddine); Baili, J (Baili, Jamel); Al-Bahrani, M (Al-Bahrani, Mohammed); Menni, Y (Menni, Younes); Ahmad, H (Ahmad, Hijaz)

**Source:** INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES **Volume:** 17 **Pages:** 1459-1469 **Article Number:** ctac123 **DOI:** 10.1093/ijlct/ctac123 **Published:** FEB 8 2022

---

**Record 840 of 1000**

**Title:** Enhanced thermoelectric power generation performance of mixed-phase  $FeS/FeS_2$  nanostructures by controlling the reaction time duration

**Author(s):** Rehman, UU (Rehman, Ubaid ur); Mahmood, K (Mahmood, Khalid); Kamran, MA (Kamran, Muhammad Arshad); Mohammed, RM (Mohammed, Rawaa M.); Somaily, HH (Somaily, H. H.); Ashfaq, A (Ashfaq, Arslan); Gul, Q (Gul, Qeemat); Ali, A (Ali, Adnan); Iqbal, MF (Iqbal, Muhammad Faisal); ul Sahar, K (ul Sahar, Kashaf)

**Source:** CERAMICS INTERNATIONAL **Volume:** 49 **Issue:** 1 **Pages:** 512-517 **DOI:** 10.1016/j.ceramint.2022.09.018 **Early Access Date:** NOV 2022 **Published:** JAN 1 2023

---

**Record 841 of 1000**

**Title:** First-principles calculations to investigate structural, dynamical, thermodynamic and thermoelectric properties of  $CdYF_3$  perovskite

**Author(s):** Manzoor, M (Manzoor, Mumtaz); Behera, D (Behera, Debidatta); Chowdhury, S (Chowdhury, Suman); Sharma, R (Sharma, Ramesh); Iqbal, MW (Iqbal, Muhammad Waqas); Mukherjee, SK (Mukherjee, S. K.); Alarfaji, SS (Alarfaji, Saleh S.); Alzahrani, HA (Alzahrani, Huda A.)

**Source:** COMPUTATIONAL AND THEORETICAL CHEMISTRY **Volume:** 1217 **Article Number:** 113928 **DOI:** 10.1016/j.comptc.2022.113928 **Early Access Date:** NOV 2022 **Published:** NOV 2022

---

**Record 842 of 1000**

**Title:** Structural modification on Dimethoxythienothiophene based non-fullerene acceptor molecule for construction of high-performance organic chromophores by employing DFT approach

**Author(s):** Saeed, MU (Saeed, Muhammad Umar); Iqbal, J (Iqbal, Javed); Mehmood, RF (Mehmood, Rana Farhat); Riaz, M (Riaz, Muhammad); Akram, SJ (Akram, Sahar Javid); Somaily, HH (Somaily, H. H.); Shawky, AM (Shawky,



Ahmed M.); Raheel, M (Raheel, Muhammad); Khan, MI (Khan, Muhammad Imran); Rashid, EU (Rashid, Ehsan Ullah); Khera, RA (Khera, Rasheed Ahmad)

**Source:** JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS **Volume:** 170 **Article Number:** 110906 **DOI:** 10.1016/j.jpcs.2022.110906 **Early Access Date:** AUG 2022 **Published:** NOV 2022

---

#### **Record 843 of 1000**

**Title:** SnO<sub>2</sub>/UV/H<sub>2</sub>O and TiO<sub>2</sub>/UV/H<sub>2</sub>O Efficiency for the Degradation of Reactive Yellow 160A: By-Product Distribution, Cytotoxicity and Mutagenicity Evaluation

**Author(s):** Kousar, T (Kousar, Tasneem); Bokhari, TH (Bokhari, Tanveer Hussain); Altaf, A (Altaf, Awais); ul Haq, A (ul Haq, Atta); Muneer, M (Muneer, Majid); Ben Farhat, L (Ben Farhat, Lamia); Alwadai, N (Alwadai, Norah); Alfryyan, N (Alfryyan, Nada); Jilani, MI (Jilani, Muhammad Idrees); Iqbal, M (Iqbal, Munawar); Khan, MI (Khan, Muhammad, I); Khosa, MK (Khosa, Muhammad Kaleem)

**Source:** CATALYSTS **Volume:** 12 **Issue:** 5 **Article Number:** 553 **DOI:** 10.3390/catal12050553 **Published:** MAY 2022

---

#### **Record 844 of 1000**

**Title:** Influence of the A-site cation on hysteresis and ion migration in lead-free perovskite single crystals

**Author(s):** Tailor, NK (Tailor, Naveen Kumar); Mahapatra, A (Mahapatra, Apurba); Abul Kalam (Abul Kalam); Pandey, M (Pandey, Manoj); Yadav, P (Yadav, Pankaj); Satapathi, S (Satapathi, Soumitra)

**Source:** PHYSICAL REVIEW MATERIALS **Volume:** 6 **Issue:** 4 **Article Number:** 045401 **DOI:** 10.1103/PhysRevMaterials.6.045401 **Published:** APR 4 2022

---

#### **Record 845 of 1000**

**Title:** Larvicidal activity of leaf extract of Nerium oleander L. and its synthesized metallic nanomaterials on dengue vector, Aedes aegypti

**Author(s):** Al-Hakimi, AN (Al-Hakimi, Ahmed N.); Abdulghani, MAM (Abdulghani, Mahfoudh A. M.); Alhag, SK (Alhag, Sadeq K.); Aroua, LM (Aroua, Lotfi M.); Mahyoub, JA (Mahyoub, Jazem A.)

**Source:** ENTOMOLOGICAL RESEARCH **Volume:** 52 **Issue:** 3 **Pages:** 148-158 **DOI:** 10.1111/1748-5967.12574 **Early Access Date:** MAR 2022 **Published:** MAR 2022

---

#### **Record 846 of 1000**

**Title:** The synthesis of nanocellulose-based nanocomposites for the effective removal of hexavalent chromium ions from aqueous solution

**Author(s):** Alzahrani, FM (Alzahrani, Fatimah Mohammed); Amari, A (Amari, Abdelfattah); Katubi, KM (Katubi, Khadijah Mohammedsaleh); Alsaiari, NS (Alsaiari, Norah Salem); Tahoona, MA (Tahoona, Mohamed A.)

**Source:** OPEN CHEMISTRY **Volume:** 20 **Issue:** 1 **Pages:** 970-983 **DOI:** 10.1515/chem-2022-0215 **Published:** SEP 30 2022

---

#### **Record 847 of 1000**

**Title:** Synthesis and self-assembly of novel pH triggered smart organogelators from novel alkyl-substituted chalcone-based hydrazone-triazole derivatives

**Author(s):** Qurban, J (Qurban, Jihan); Al-Hazmi, GAA (Al-Hazmi, Gamil A. A.); Alamrani, NA (Alamrani, Nasser A.); Alessa, H (Alessa, Hussain); Alsoliemy, A (Alsoliemy, Amerah); Saad, FA (Saad, Fawaz A.); El-Metwaly, NM (El-Metwaly, Nashwa M.)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 364 **Article Number:** 120005 **DOI:** 10.1016/j.molliq.2022.120005 **Early Access Date:** AUG 2022 **Published:** OCT 15 2022

---

#### **Record 848 of 1000**

**Title:** Facile synthesis of Y<sub>2</sub>O<sub>3</sub>/CuO nanocomposites for photodegradation of dyes/mixed dyes under UV- and visible light irradiation

**Author(s):** El-Sayed, F (El-Sayed, F.); Ganesh, V (Ganesh, V); Hussien, MSA (Hussien, Mai S. A.); AlAbdulaal, TH (AlAbdulaal, T. H.); Zahran, HY (Zahran, H. Y.); Yahia, IS (Yahia, I. S.); Abdel-wahab, MS (Abdel-wahab, Mohamed Sh); Shakir, M (Shakir, Mohd); Bitla, Y (Bitla, Yugandhar)

**Source:** JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T **Volume:** 19 **Pages:** 4867-4880 **DOI:** 10.1016/j.jmrt.2022.06.163 **Early Access Date:** JUL 2022 **Published:** JUL-AUG 2022

---

#### **Record 849 of 1000**

**Title:** Investigation of the Structural, Elastic, Electronic, and Optical Properties of Half-Heusler CaMgZ (Z = C, Si, Ge, Sn, Pb) Compounds

**Author(s):** Saim, A (Saim, A.); Belkharroubi, F (Belkharroubi, F.); Boufadi, FZ (Boufadi, F. Z.); Ameri, I (Ameri, I); Blaha, LF (Blaha, L. F.); Tebboune, A (Tebboune, A.); Belkaid, MN (Belkaid, M. N.); Belkilali, W (Belkilali, W.); Ameri, M (Ameri, M.); Al-Douri, Y (Al-Douri, Y.); Abd El-Rehim, AF (Abd El-Rehim, A. F.)

**Source:** JOURNAL OF ELECTRONIC MATERIALS **Volume:** 51 **Issue:** 7 **Special Issue:** SI **Pages:** 4014-4028 **DOI:** 10.1007/s11664-022-09659-8 **Early Access Date:** MAY 2022 **Published:** JUL 2022

---

#### Record 850 of 1000

**Title:** RETRACTED: Recent global warming as a proximate cause of deforestation and forest degradation in northern Pakistan (Retracted Article)

**Author(s):** Ullah, S (Ullah, Saif); Syed, NM (Syed, Nizami Moazzam); Gang, T (Gang, Tian); Noor, RS (Noor, Rana Shahzad); Ahmad, S (Ahmad, Sarir); Waqas, MM (Waqas, Muhammad Mohsin); Shah, AN (Shah, Adnan Noor); Ullah, S (Ullah, Sami)

**Source:** PLOS ONE **Volume:** 17 **Issue:** 1 **Article Number:** e0260607 **DOI:** 10.1371/journal.pone.0260607 **Published:** JAN 21 2022

---

#### Record 851 of 1000

**Title:** Optimizing growth, linear and 3rd order nonlinear optical traits of potassium aluminium sulfate (KAS) crystal by tuning pH for photonic device applications

**Author(s):** Ramteke, SP (Ramteke, S. P.); Muley, GG (Muley, G. G.); Baig, MI (Baig, M. I.); Ibrahim, A (Ibrahim, A.); Manthrammel, MA (Manthrammel, M. Aslam); Muzammil, K (Muzammil, Khursheed); Shkir, M (Shkir, Mohd.); Anis, M (Anis, Mohd)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 140 **Article Number:** 109484 **DOI:** 10.1016/j.inoche.2022.109484 **Early Access Date:** APR 2022 **Published:** JUN 2022

---

#### Record 852 of 1000

**Title:** Investigating the potential of AgZnO thin film composites for waste heat recovery using Seebeck data

**Author(s):** Ullah, I (Ullah, Inaam); Jacob, J (Jacob, Jolly); Al-Harbi, FF (Al-Harbi, F. F.); Mahmood, K (Mahmood, K.); Ali, A (Ali, A.); Tamseel, M (Tamseel, M.); Ikram, S (Ikram, Salma); Amin, N (Amin, N.); Javaid, K (Javaid, K.); Ben Farhat, L (Ben Farhat, Lamia); Hussain, S (Hussain, S.); Ali, MY (Ali, M. Yasir)

**Source:** OPTICAL MATERIALS **Volume:** 127 **Article Number:** 112318 **DOI:** 10.1016/j.optmat.2022.112318 **Early Access Date:** APR 2022 **Published:** MAY 2022

---

#### Record 853 of 1000

**Title:** Potentially toxic elements in vegetable and rice species in Bangladesh and their exposure assessment

**Author(s):** Islam, MS (Islam, Md. Saiful); Islam, ARMT (Islam, Abu Reza Md. Towfiqul); Phoungthong, K (Phoungthong, Khampho); Ustaoglu, F (Ustaoglu, Fikret); Tokatli, C (Tokatli, Cem); Ahmed, R (Ahmed, Ramal); Ibrahim, KA (Ibrahim, Khalid A.); Idris, AM (Idris, Abubakr M.)

**Source:** JOURNAL OF FOOD COMPOSITION AND ANALYSIS **Volume:** 106 **Article Number:** 104350 **DOI:** 10.1016/j.jfca.2021.104350 **Published:** MAR 2022

---

#### Record 854 of 1000

**Title:** Transition metal oxide-based membranes for oxygen separation

**Author(s):** Hou, JF (Hou, Jianfeng); Shen, ZF (Shen, Zhangfeng); Tan, XH (Tan, Xihan); Ali, TE (Ali, Tarik E.); Assiri, MA (Assiri, Mohammed A.); Asif, S (Asif, Saira); Han, N (Han, Ning)

**Source:** CHEMOSPHERE **Volume:** 308 **Article Number:** 136272 **DOI:** 10.1016/j.chemosphere.2022.136272 **Part:** 2 **Published:** DEC 2022

---

#### Record 855 of 1000

**Title:** Synthesis of a visible-light-driven Ag<sub>2</sub>O-Co<sub>3</sub>O<sub>4</sub> Z-scheme photocatalyst for enhanced photodegradation of a reactive yellow dye

**Author(s):** Saeed, M (Saeed, Muhammad); Al-Saeed, FA (Al-Saeed, Fatimah A.); Altaf, M (Altaf, Muhammad); Alahmari, SD (Alahmari, Saeed D.); Bokhari, TH (Bokhari, Tanveer Hussain); Bajaber, MA (Bajaber, Majed A.); Khan, I (Khan, Iltaf); Ahmed, AE (Ahmed, Ahmed Ezzat)

**Source:** NEW JOURNAL OF CHEMISTRY **Volume:** 46 **Issue:** 48 **Pages:** 23297-23304 **DOI:** 10.1039/d2nj03791b **Early Access Date:** NOV 2022 **Published:** DEC 12 2022

---

### Record 856 of 1000

**Title:** Synthesis and spectroscopic characterization of nicotinaldehyde based derivatives: SC-XRD, linear and non-linear optical studies

**Author(s):** Ahmed, A (Ahmed, Adnan); Adeel, M (Adeel, Muhammad); Khan, I (Khan, Ilham); Khalid, M (Khalid, Muhammad); Raouf, A (Raouf, Abdul); Aiman, U (Aiman, Ume); Villinger, A (Villinger, Alexander); Braga, AAC (Braga, Atualpa A. C.); Assiri, MA (Assiri, Mohammed A.); Imran, M (Imran, Muhammad)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1273 **Article Number:** 134236 **DOI:** 10.1016/j.molstruc.2022.134236 **Early Access Date:** OCT 2022 **Published:** FEB 5 2023

---

### Record 857 of 1000

**Title:** Reconciling the geogenic and non-crustal origins of elements in an Indo-Bangla transboundary river, Atrai: Pollution status, sediment quality, and preliminary risk assessment

**Author(s):** Anik, AH (Anik, Amit Hasan); Khan, R (Khan, Rahat); Hossain, S (Hossain, Shabiha); Siddique, MA (Siddique, Md. Abu Bakar); Tamim, U (Tamim, Umma); Islam, ARMT (Islam, A. R. M. Towfiqul); Idris, AM (Idris, Abubakr M.); Tareq, SM (Tareq, Shafi M.)

**Source:** ENVIRONMENTAL RESEARCH **Volume:** 214 **Article Number:** 114134 **DOI:** 10.1016/j.envres.2022.114134 **Early Access Date:** AUG 2022 **Part:** 4 **Published:** NOV 2022

---

### Record 858 of 1000

**Title:** Effect of Sintering Temperatures, Reinforcement Size on Mechanical Properties and Fortification Mechanisms on the Particle Size Distribution of B<sub>4</sub>C, SiC and ZrO<sub>2</sub> in Titanium Metal Matrix Composites

**Author(s):** Gameda, BA (Gameda, Birhane Assefa); Sinha, DK (Sinha, Devendra Kumar); Singh, GK (Singh, Gyanendra Kumar); Alghtani, AH (Alghtani, Abdulaziz H.); Tirth, V (Tirth, Vineet); Algahtani, A (Algahtani, Ali); Mengesha, GA (Mengesha, Getinet Asrat); Ahmed, GMS (Ahmed, Gulam Mohammed Sayeed); Hossain, N (Hossain, Nazia)

**Source:** MATERIALS **Volume:** 15 **Issue:** 16 **Article Number:** 5525 **DOI:** 10.3390/ma15165525 **Published:** AUG 2022

---

### Record 859 of 1000

**Title:** Chitosan-modified nanocarriers as carriers for anticancer drug delivery: Promises and hurdles

**Author(s):** Alhodieb, FS (Alhodieb, Fahad Saad); Abul Barkat, M (Abul Barkat, Md); Abul Barkat, H (Abul Barkat, Harshita); Ab Hadi, H (Ab Hadi, Hazrina); Khan, MI (Khan, Muhammad Idrees); Ashfaq, F (Ashfaq, Fauzia); Rahman, MA (Rahman, Mohammad Akhlaquer); Hassan, MZ (Hassan, Mohd Zaheen); Alanezi, AA (Alanezi, Abdulkareem A.)

**Source:** INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES **Volume:** 217 **Pages:** 457-469 **DOI:** 10.1016/j.ijbiomac.2022.06.201 **Early Access Date:** JUL 2022 **Published:** SEP 30 2022

---

### Record 860 of 1000

**Title:** Receptor model-oriented sources and risks evaluation of metals in sediments of an industrial affected riverine system in Bangladesh

**Author(s):** Proshad, R (Proshad, Ram); Uddin, M (Uddin, Minhaz); Idris, AM (Idris, Abubakr M.); Al, MA (Abdullah Al, Mamun)

**Source:** SCIENCE OF THE TOTAL ENVIRONMENT **Volume:** 838 **Article Number:** 156029 **DOI:** 10.1016/j.scitotenv.2022.156029 **Early Access Date:** MAY 2022 **Part:** 1 **Published:** SEP 10 2022

---

### Record 861 of 1000

**Title:** Elaboration of novel urea bearing schiff bases as potent *in vitro* anticancer candidates with low *in vivo* acute oral toxicity

**Author(s):** Aroua, LM (Aroua, Lotfi M.); Al-Hakimi, AN (Al-Hakimi, Ahmed N.); Abdulghani, MAM (Abdulghani, Mahfoudh A. M.); Alhag, SK (Alhag, Sadeq K.)

**Source:** MAIN GROUP CHEMISTRY **Volume:** 21 **Issue:** 4 **Pages:** 953-973 **DOI:** 10.3233/MGC-220019 **Published:** 2022

---

### Record 862 of 1000

**Title:** Application of catalysts in the synthesis of 4-(4-(dimethylamino)benzylidene)-3-methylisoxazol-5(4H)-one: experimental and theoretical studies

**Author(s):** Ali, SMA (Ali, Shazalia Mahmoud Ahmed); Chrouda, A (Chrouda, Amani); Elamin, MB (Elamin, Manahil Babiker); Yahia, IS (Yahia, Ibrahim S.); Zahran, HY (Zahran, Heba Y.); Zyoud, SH (Zyoud, Samer H.)

**Record 863 of 1000**

**Title:** Electrical Properties and Alkali-Pathways Simulation of New Mixed Ionic Conductor Na<sub>2</sub>K<sub>2</sub>Co<sub>5.5</sub>Al(AsO<sub>4</sub>)<sub>6</sub>

**Author(s):** Marzouki, A (Marzouki, Amira); Brahmia, A (Brahmia, Ameni); AlTherwah, YN (AlTherwah, Yara N.); Bani-Fwaz, MZ (Bani-Fwaz, Mutasem Z.); Hussien, M (Hussien, Mohamed); Marzouki, R (Marzouki, Riadh); Zid, MF (Zid, Mohamed Faouzi)

**Source:** INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE **Volume:** 17 **Issue:** 6 **Article Number:** 220638 **DOI:** 10.20964/2022.06.28 **Published:** JUN 2022

---

**Record 864 of 1000**

**Title:** Facile synthesis and high-performance dielectric properties of polyethylene oxide-chitosan- iron oxide nano-composite for electrical applications

**Author(s):** Menazea, AA (Menazea, A. A.); Ibrahim, HA (Ibrahim, Hala A.); Awwad, NS (Awwad, Nasser S.); Moustapha, ME (Moustapha, Moustapha Eid); Farea, MO (Farea, M. O.); Bajaber, MA (Bajaber, Majed A.)

**Source:** JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T **Volume:** 18 **Pages:** 2273-2281 **DOI:** 10.1016/j.jmrt.2022.03.058 **Early Access Date:** APR 2022 **Published:** MAY-JUN 2022

---

**Record 865 of 1000**

**Title:** Spectral characterization, solvation effects on topological aspects, and biological attributes of Fmoc-L-glutamic acid 5-tert-butyl ester: An effective reagent in anticancer evaluations

**Author(s):** Thirunavukkarasu, M (Thirunavukkarasu, M.); Balaji, G (Balaji, G.); Prabakaran, P (Prabakaran, P.); Basha, SJ (Basha, Shaik Jaheer); Irfan, A (Irfan, Ahmad); Javed, SS (Javed, S. Saleem); Muthu, S (Muthu, S.)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1269 **Article Number:** 133793 **DOI:** 10.1016/j.molstruc.2022.133793 **Published:** DEC 5 2022

---

**Record 866 of 1000**

**Title:** ZnO-doped PFPAMA: a novel transparent conducting polymer for fast photodiodes

**Author(s):** Ocaya, RO (Ocaya, Richard O.); Erol, I (Erol, Ibrahim); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Dere, A (Dere, Aysegul); Al-Ghamdi, AA (Al-Ghamdi, Ahmed A.); Yakuphanoglu, F (Yakuphanoglu, Fahrettin)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 33 **Issue:** 32 **Pages:** 24803-24818 **DOI:** 10.1007/s10854-022-09192-8 **Early Access Date:** OCT 2022 **Published:** NOV 2022

---

**Record 867 of 1000**

**Title:** Improvement of Medical Applicability of Hydroxyapatite/Antimonous Oxide/Graphene Oxide Mixed Systems for Biomedical Application

**Author(s):** Menazea, AA (Menazea, A. A.); Mostafa, MS (Mostafa, Mervat S.); Awwad, NS (Awwad, Nasser S.); Ali, HE (Ali, H. Elhosiny); Moustapha, ME (Moustapha, Moustapha Eid); Bajaber, MA (Bajaber, Majed A.)

**Source:** JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS **Volume:** 32 **Issue:** 8 **Pages:** 3220-3234 **DOI:** 10.1007/s10904-022-02355-4 **Early Access Date:** MAY 2022 **Published:** AUG 2022

---

**Record 868 of 1000**

**Title:** Effect of mixing on nickel tartrate and Ni/NiO core/shell nanoparticles: Implications for morphology, magnetic, optical, dielectric and adsorption properties

**Author(s):** Amrani, MA (Amrani, Mokhtar Ali); Alrafai, HA (Alrafai, H. A.); Al-nami, SY (Al-nami, Samar Y.); Labhasetwar, NK (Labhasetwar, Nitin K.); Qasem, A (Qasem, Ammar)

**Source:** OPTICAL MATERIALS **Volume:** 127 **Article Number:** 112321 **DOI:** 10.1016/j.optmat.2022.112321 **Early Access Date:** APR 2022 **Published:** MAY 2022

---

**Record 869 of 1000**

**Title:** Implementation of Whale Optimization for Budding Healthiness of Fishes with Preprocessing Approach

**Author(s):** Kshirsagar, PR (Kshirsagar, Pravin R.); Manaoharan, H (Manaoharan, Hariprasath); Tirth, V (Tirth, Vineet); Islam, S (Islam, Saiful); Srivastava, S (Srivastava, Sandeep); Sahni, V (Sahni, Varsha); Thangamani, M (Thangamani, M.); Khanapurkar, MM (Khanapurkar, M. M.); Sundramurthy, VP (Sundramurthy, Venkatesa Prabhu)

**Record 870 of 1000**

**Title:** NiSe<sub>2</sub> nanocrystals intercalated rGO sheets as a high-performance asymmetric supercapacitor electrode

**Author(s):** Khan, BA (Khan, Basit Ali); Hussain, R (Hussain, Rafaqat); Shah, A (Shah, A.); Mahmood, A (Mahmood, Arshad); Shah, MZU (Shah, Muhammad Zia Ullah); Ismail, J (Ismail, Javaid); Rahman, SU (Rahman, Shams ur); Sajjad, M (Sajjad, Muhammad); Assiri, MA (Assiri, Mohammed A.); Imran, M (Imran, Muhammad); Javed, MS (Javed, Muhammad Sufyan)

**Source:** CERAMICS INTERNATIONAL **Volume:** 48 **Issue:** 4 **Pages:** 5509-5517 **DOI:** 10.1016/j.ceramint.2021.11.095 **Early Access Date:** JAN 2022 **Published:** FEB 15 2022

---

**Record 871 of 1000**

**Title:** Computational Screening of D- $\pi$ -A Structured with Acceptor-Tuned Metal-Free Organic Dye Molecules for DSSCs

**Author(s):** Arunkumar, A (Arunkumar, A.); Anbarasan, PM (Anbarasan, P. M.); Shkir, M (Shkir, Mohd); Balasubramani, V (Balasubramani, V.)

**Source:** JOURNAL OF COMPUTATIONAL BIOPHYSICS AND CHEMISTRY **Volume:** 22 **Issue:** 02 **Pages:** 219-229 **DOI:** 10.1142/S2737416523500138 **Early Access Date:** DEC 2022 **Published:** MAR 2023

---

**Record 872 of 1000**

**Title:** Development of novel photoluminescent fibers from recycled polyester waste using plasma-assisted dyeing toward ultraviolet sensing and protective textiles

**Author(s):** Attar, RMS (Attar, Roba M. S.); Alshareef, M (Alshareef, Mubark); Snari, RM (Snari, Razan M.); Alaysuy, O (Alaysuy, Omaymah); Aldawsari, AM (Aldawsari, Afrah M.); Abu-Melha, S (Abu-Melha, Sraa); El-Metwaly, NM (El-Metwaly, Nashwa M.)

**Source:** JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T **Volume:** 21 **Pages:** 1630-1642 **DOI:** 10.1016/j.jmrt.2022.09.115 **Early Access Date:** OCT 2022 **Published:** NOV-DEC 2022

---

**Record 873 of 1000**

**Title:** DFT molecular modeling of A2-D-A1-D-A2 type DF-PCIC based small molecules acceptors for organic photovoltaic cells

**Author(s):** Sabir, S (Sabir, Saliha); Hadia, NMA (Hadia, N. M. A.); Iqbal, J (Iqbal, Javed); Mehmood, RF (Mehmood, Rana Farhat); Akram, SJ (Akram, Sahar Javaid); Khan, MI (Khan, Muhammad Imran); Shawky, AM (Shawky, Ahmed M.); Raheel, M (Raheel, Muhmmad); Somaily, HH (Somaily, H. H.); Khera, RA (Khera, Rasheed Ahmad)

**Source:** CHEMICAL PHYSICS LETTERS **Volume:** 806 **Article Number:** 140026 **DOI:** 10.1016/j.cplett.2022.140026 **Early Access Date:** SEP 2022 **Published:** NOV 2022

---

**Record 874 of 1000**

**Title:** Facile preparation strategy of photochromic dual-mode authentication nanofibers by solution blowing spinning of cellulose nanowhiskers-supported polyacrylonitrile

**Author(s):** Khattab, TA (Khattab, Tawfik A.); El-Naggar, ME (El-Naggar, Mehrez E.); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Pannipara, M (Pannipara, Mehboobali); Abu-Saied, MA (Abu-Saied, M. A.); Abou Taleb, MF (Abou Taleb, Manal F.)

**Source:** CELLULOSE **Volume:** 29 **Issue:** 11 **Pages:** 6181-6192 **DOI:** 10.1007/s10570-022-04645-z **Early Access Date:** JUN 2022 **Published:** JUL 2022

---

**Record 875 of 1000**

**Title:** Annealing induced morphology evolution and phase transition in SnO<sub>x</sub> thin films grown by e-beam evaporation method

**Author(s):** Alnuwaiser, MA (Alnuwaiser, Maha Abdallah); Javaid, K (Javaid, Kashif); Jacob, J (Jacob, Jolly); Saleem, M (Saleem, Maleeha); Liang, LY (Liang, Lingyan); Cao, HT (Cao, Hongtao); Amami, M (Amami, Mongi); Mahmood, K (Mahmood, K.); Ali, A (Ali, A.); Amin, N (Amin, N.); Ikram, S (Ikram, Salma)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 140 **Article Number:** 109473 **DOI:** 10.1016/j.inoche.2022.109473 **Early Access Date:** APR 2022 **Published:** JUN 2022

---

**Record 876 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 **Volume:** 68 **Issue:** 5 **Pages:** 2383-2389 **DOI:** 10.7754/Clin.Lab.2021.211017 **Published:** 2022

---

#### Record 877 of 1000

**Title:** Headspace Extraction of Chlorobenzenes from Water Using Electrospun Nanofibers Fabricated with Calix[4]arene-Doped Polyurethane-Polysulfone

**Author(s):** Najarzadekan, H (Najarzadekan, Hamid); Kamboh, MA (Kamboh, Muhammad Afzal); Sereshti, H (Sereshti, Hassan); Ahmad, I (Ahmad, Irfan); Sridewi, N (Sridewi, Nanthini); Shahabuddin, S (Shahabuddin, Syed); Nodeh, HR (Nodeh, Hamid Rashidi)

**Source:** POLYMERS **Volume:** 14 **Issue:** 18 **Article Number:** 3760 **DOI:** 10.3390/polym14183760 **Published:** SEP 2022

---

#### Record 878 of 1000

**Title:** Synthesis of ZnO/Ag/phosphorene for photocatalytic reduction of hexavalent chromium (Cr-VI)

**Author(s):** Fatima, N (Fatima, Nisar); Tanveer, M (Tanveer, Muhammad); Nawaz, T (Nawaz, Tasmia); Tahir, MB (Tahir, M. B.); Sagir, M (Sagir, M.); Rafique, M (Rafique, Muhammad); Assiri, MA (Assiri, Mohammed A.); Imran, M (Imran, Muhammad); Alzaid, M (Alzaid, Meshal); Alrobei, H (Alrobei, Hussein)

**Source:** APPLIED NANOSCIENCE **Volume:** 12 **Issue:** 8 **Pages:** 2379-2387 **DOI:** 10.1007/s13204-022-02509-3 **Early Access Date:** JUN 2022 **Published:** AUG 2022

---

#### Record 879 of 1000

**Title:** Vibrational spectroscopy, electrical, and thermal properties of [N(CH<sub>3</sub>)<sub>4</sub>][N(C<sub>2</sub>H<sub>5</sub>)<sub>4</sub>]CoCl<sub>4</sub> compound

**Author(s):** Drissi, N (Drissi, Nidhal); Dakhlou, I (Dakhlou, Imen); Karoui, K (Karoui, Karim); Zaghrioui, M (Zaghrioui, Mustapha); Jomni, F (Jomni, Fathi)

**Source:** APPLIED ORGANOMETALLIC CHEMISTRY **Volume:** 36 **Issue:** 5 **Article Number:** e6621 **DOI:** 10.1002/aoc.6621 **Early Access Date:** FEB 2022 **Published:** MAY 2022

---

#### Record 880 of 1000

**Title:** Spectroscopic, quantum mechanical, electronic excitation properties (Ethanol solvent), DFT investigations and molecular docking analysis of an anti-cancer drug Bendamustine

**Author(s):** Ramana, PV (Ramana, P. Venkata); Sundius, T (Sundius, Tom); Muthu, S (Muthu, S.); Mouli, KC (Mouli, K. Chandra); Krishna, YR (Krishna, Y. Rama); Prasad, KV (Prasad, K. Venkata); Devi, RN (Devi, R. Niranjana); Irfan, A (Irfan, Ahmad); Santhamma, C (Santhamma, C.)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1253 **Article Number:** 132211 **DOI:** 10.1016/j.molstruc.2021.132211 **Published:** APR 5 2022

---

#### Record 881 of 1000

**Title:** Phyto-Capped Ag Nanoparticles: Green Synthesis, Characterization, and Catalytic and Antioxidant Activities

**Author(s):** Kordy, MGM (Kordy, Mohamed G. M.); Abdel-Gabbar, M (Abdel-Gabbar, Mohammed); Soliman, HA (Soliman, Hanan A.); Aljohani, G (Aljohani, Ghadah); BinSabt, M (BinSabt, Mohammad); Ahmed, IA (Ahmed, Inas A.); Shaban, M (Shaban, Mohamed)

**Source:** NANOMATERIALS **Volume:** 12 **Issue:** 3 **Article Number:** 373 **DOI:** 10.3390/nano12030373 **Published:** FEB 2022

---

#### Record 882 of 1000

**Title:** Computational investigation of a covalent triazine framework (CTF-0) as an efficient electrochemical sensor

**Author(s):** Sarfaraz, S (Sarfaraz, Sehrish); Yar, M (Yar, Muhammad); Ans, M (Ans, Muhammad); Gilani, MA (Gilani, Mazhar Amjad); Ludwig, R (Ludwig, Ralf); Hashmi, MA (Hashmi, Muhammad Ali); Hussain, M (Hussain, Masroor); Muhammad, S (Muhammad, Shabbir); Ayub, K (Ayub, Khurshid)

**Source:** RSC ADVANCES **Volume:** 12 **Issue:** 7 **Pages:** 3909-3923 **DOI:** 10.1039/d1ra08738j **Published:** JAN 28 2022

---

**Record 883 of 1000**

**Title:** Management of the energy harvesting for MEMS/NEMS via newmark current method

**Author(s):** Shang, K (Shang, Kun); Shan, HF (Shan, Huafeng); Alkhalaf, S (Alkhalaf, Salem); Marzouki, R (Marzouki, Riyadh); Khadimallah, MA (Khadimallah, Mohamed Amine)

**Source:** ADVANCES IN NANO RESEARCH **Volume:** 12 **Issue:** 6 **Pages:** 567-581 **DOI:** 10.12989/anr.2022.12.6.567 **Published:** JUN 2022

---

**Record 884 of 1000**

**Title:** A review of COVID-19: Treatment strategies and CRISPR/Cas9 gene editing technology approaches to the coronavirus disease

**Author(s):** Ullah, MF (Ullah, Muhammad Farhat); Ali, Y (Ali, Yasir); Khan, MR (Khan, Muhammad Ramzan); Khan, IU (Khan, Inam Ullah); Yan, B (Yan, Bing); Khan, MI (Khan, M. Ijaz); Malik, MY (Malik, M. Y.)

**Source:** SAUDI JOURNAL OF BIOLOGICAL SCIENCES **Volume:** 29 **Issue:** 2 **Pages:** 860-871 **DOI:** 10.1016/j.sjbs.2021.10.020 **Early Access Date:** FEB 2022 **Published:** FEB 2022

---

**Record 885 of 1000**

**Title:** IN-VITRO EVALUATION OF ANTHELMINTIC ACTIVITY AND MEMBRANE-STABILIZING POTENTIAL OF *Randia Dumetorum* LEAF EXTRACT

**Author(s):** Al Ragib, A (Al Ragib, Abdullah); Hosain, F (Hosain, Faruk); Islam, T (Islam, Tariqul); Shil, S (Shil, Sanket); Hoque, MN (Hoque, Md Najmol); Kormoker, T (Kormoker, Tapos); Idris, AM (Idris, Abubakr M.)

**Source:** FRESENIUS ENVIRONMENTAL BULLETIN **Volume:** 31 **Issue:** 8 **Pages:** 7659-7665 **Published:** 2022

---

**Record 886 of 1000**

**Title:** Colloidal Quantum Dots: Synthesis, Composition, Structure, and Emerging Optoelectronic Applications

**Author(s):** Zhang, J (Zhang, Jian); Zhang, SH (Zhang, Shaohui); Zhang, YL (Zhang, Yule); Al-Hartomy, O (Al-Hartomy, Omar A.); Wageh, S (Wageh, Swelm); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Hao, YB (Hao, Yabin); Gao, LF (Gao, Lingfeng); Wang, H (Wang, Hao); Zhang, H (Zhang, Han)

**Source:** LASER & PHOTONICS REVIEWS **Volume:** 17 **Issue:** 3 **DOI:** 10.1002/lpor.202200551 **Early Access Date:** DEC 2022 **Published:** MAR 2023

---

**Record 887 of 1000**

**Title:** Impact of temperature on the properties of MoS<sub>2</sub> nanoflakes synthesized by facile hydrothermal method for electrochemical supercapacitor applications

**Author(s):** Vidhya, M (Vidhya, M.); Selvakumari, TM (Selvakumari, T. M.); Marnadu, R (Marnadu, R.); Ashraf, IM (Ashraf, I. M.); Shkir, M (Shkir, Mohd.)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 145 **Article Number:** 109928 **DOI:** 10.1016/j.inoche.2022.109928 **Early Access Date:** SEP 2022 **Published:** NOV 2022

---

**Record 888 of 1000**

**Title:** Blockchain Adoption for Sustainable Supply Chain Management: Economic, Environmental, and Social Perspectives

**Author(s):** Munir, MA (Munir, M. Adeel); Habib, MS (Habib, M. Salman); Hussain, A (Hussain, Amjad); Shahbaz, MA (Shahbaz, Muhammad Ali); Qamar, A (Qamar, Adnan); Masood, T (Masood, Tariq); Sultan, M (Sultan, M.); Mujtaba, MA (Mujtaba, M. A.); Imran, S (Imran, Shahid); Hasan, M (Hasan, Mudassir); Akhtar, MS (Akhtar, Muhammad Saeed); Ayub, HMU (Ayub, Hafiz Muhammad Uzair); Salman, CA (Salman, Chaudhary Awais)

**Source:** FRONTIERS IN ENERGY RESEARCH **Volume:** 10 **Article Number:** 899632 **DOI:** 10.3389/fenrg.2022.899632 **Published:** MAY 30 2022

---

**Record 889 of 1000**

**Title:** Personal protective equipment (PPE) pollution in the Caspian Sea, the largest enclosed inland water body in the world

**Author(s):** Hatami, T (Hatami, Tara); Rakib, MRJ (Rakib, Md Refat Jahan); Madadi, R (Madadi, Reyhane); De-la-Torre, GE (De-la-Torre, Gabriel E.); Idris, AM (Idris, Abubakr M.)

**Source:** SCIENCE OF THE TOTAL ENVIRONMENT **Volume:** 824 **Article Number:** 153771 **DOI:** 10.1016/j.scitotenv.2022.153771 **Early Access Date:** FEB 2022 **Published:** JUN 10 2022

---

**Record 890 of 1000**

**Title:** Development of silica-coated rare-earth doped strontium aluminate toward superhydrophobic, anti-corrosive and long-persistent photoluminescent epoxy coating

**Author(s):** Al-Qahtani, SD (Al-Qahtani, Salhah D.); Snari, RM (Snari, Razan M.); Alkhamis, K (Alkhamis, Kholood); Alatawi, NM (Alatawi, Nada M.); Alhasani, M (Alhasani, Mona); Al-Nami, SY (Al-Nami, Samar Y.); El-Metwaly, NM (El-Metwaly, Nashwa M.)

**Source:** LUMINESCENCE **Volume:** 37 **Issue:** 3 **Pages:** 479-489 **DOI:** 10.1002/bio.4198 **Early Access Date:** FEB 2022 **Published:** MAR 2022

---

#### Record 891 of 1000

**Title:** Recent trend of CeO<sub>2</sub>-based nanocomposites electrode in supercapacitor: A review on energy storage applications

**Author(s):** Das, HT (Das, Himadri Tanaya); Balaji, E (Balaji, Elango); Dutta, S (Dutta, Swapnamoy); Das, N (Das, Nigamananda); Das, P (Das, Payaswini); Mondal, A (Mondal, Aniruddha); Imran, M (Imran, Muhammad)

**Source:** JOURNAL OF ENERGY STORAGE **Volume:** 50 **Article Number:** 104643 **DOI:** 10.1016/j.est.2022.104643 **Early Access Date:** APR 2022 **Published:** JUN 2022

---

#### Record 892 of 1000

**Title:** Synthesis, structural, vibrational, molecular docking and nonlinear optical studies of (E)-N'-(2,3-dimethoxybenzylidene)-4-fluorobenzohydrazide

**Author(s):** Jeeva, P (Jeeva, P.); Barathi, D (Barathi, D.); Mani, R (Mani, Rajaboopathi); Stephen, AD (Stephen, David A.); Louhi-Kultanen, M (Louhi-Kultanen, Marjatta); Vinitha, G (Vinitha, G.); Al-Sehemi, AG (Al-Sehemi, Abdullah G.)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1254 **Article Number:** 132375 **DOI:** 10.1016/j.molstruc.2022.132375 **Early Access Date:** JAN 2022 **Published:** APR 15 2022

---

#### Record 893 of 1000

**Title:** Fabrication and characterizations of hybrid materials based on polyaniline, metal oxide, and graphene nanoplatelets for supercapacitor electrodes

**Author(s):** Iqbal, K (Iqbal, Kashif); Ishaq, MA (Ishaq, Muhammad Ahmad); Ahmad, A (Ahmad, Ali); Ali, MD (Ali, Muhammad Danish); Zeeshan, T (Zeeshan, Talat); Tahir, W (Tahir, Waqia); Aslam, A (Aslam, Ammara); Amami, M (Amami, Mongi); ben Farhat, I (ben Farhat, Iamia); ben Ahmed, S (ben Ahmed, Samia); Abdelhak, J (Abdelhak, Jawher)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 137 **Article Number:** 109201 **DOI:** 10.1016/j.inoche.2022.109201 **Early Access Date:** FEB 2022 **Published:** MAR 2022

---

#### Record 894 of 1000

**Title:** Investigation of the structural, mechanical, optoelectronic and, thermoelectric characteristics of cubic GeTiO<sub>3</sub>: An ab initio study

**Author(s):** Manzoor, M (Manzoor, Mumtaz); Behera, D (Behera, Debidatta); Sharma, R (Sharma, Ramesh); Iqbal, MW (Iqbal, Muhammad Waqas); Mukherjee, SK (Mukherjee, Sanat Kumar); Khenata, R (Khenata, Rabah); Alarfaji, SS (Alarfaji, Saleh S.); Alzahrani, HA (Alzahrani, Huda A.)

**Source:** MATERIALS TODAY COMMUNICATIONS **Volume:** 34 **Article Number:** 105053 **DOI:** 10.1016/j.mtcomm.2022.105053 **Early Access Date:** DEC 2022 **Published:** MAR 2023

---

#### Record 895 of 1000

**Title:** Investigation of comparative 3D nonlinear radiative heat transfer in [(MnZnFe<sub>2</sub>O<sub>4</sub>-NiZnFe<sub>2</sub>O<sub>4</sub>)/C<sub>8</sub>H<sub>18</sub>]<sub>hnf</sub> and C<sub>8</sub>H<sub>18</sub> under the surface permeability with modified slip effects

**Author(s):** Adnan (Adnan); Alqahtani, B (Alqahtani, Bader); Alhazmi, SE (Alhazmi, Sharifah E.); Iqbal, Z (Iqbal, Zahoor); Bani-Fwaz, MZ (Bani-Fwaz, Mutasem Z.); Abbas, W (Abbas, Waseem); Khan, U (Khan, Umar)

**Source:** INTERNATIONAL JOURNAL OF MODERN PHYSICS B **Volume:** 36 **Issue:** 24 **Article Number:** 2250157 **DOI:** 10.1142/S0217979222501570 **Published:** SEP 30 2022

---

#### Record 896 of 1000

**Title:** Novel thiazole derivatives incorporating phenyl sulphonyl moiety as potent BRAFV600E kinase inhibitors targeting melanoma

**Author(s):** Khormi, AY (Khormi, Afaf Y.); Farghaly, TA (Farghaly, Thoraya A.); Bayazeed, A (Bayazeed, Abrar); Al-Ghamdi, YO (Al-Ghamdi, Youssef O.); Abdulwahab, HG (Abdulwahab, Hanan Gaber); Shaaban, MR (Shaaban, Mohamed R.)

**Source:** RSC ADVANCES **Volume:** 12 **Issue:** 42 **Pages:** 27355-27369 **DOI:** 10.1039/d2ra03624j **Published:** SEP 22 2022



---

**Record 897 of 1000**

**Title:** Recycling rice straw ash to produce low thermal conductivity and moisture-resistant geopolymer adobe bricks

**Author(s):** Morsy, MI (Morsy, Mohamed, I); Alakeel, KA (Alakeel, Khaled A.); Ahmed, AE (Ahmed, Ahmed E.); Abbas, AM (Abbas, Ahmed M.); Omara, AI (Omara, Abdelaziz, I); Abdelsalam, NR (Abdelsalam, Nader R.); Emaish, HH (Emaish, Haitham H.)

**Source:** SAUDI JOURNAL OF BIOLOGICAL SCIENCES **Volume:** 29 **Issue:** 5 **Pages:** 3759-3771 **DOI:** 10.1016/j.sjbs.2022.02.046 **Early Access Date:** MAR 2022 **Published:** MAY 2022

---

**Record 898 of 1000**

**Title:** Ag NPs supported chitosan-agarose modified Fe<sub>3</sub>O<sub>4</sub> nanocomposite catalyzed synthesis of indazolo[2,1-b]phthalazines and anticancer studies against liver and lung cancer cells

**Author(s):** Cai, Y (Cai, Yi); Karmakar, B (Karmakar, Bikash); Salem, MA (Salem, Mohamed A.); Alzahrani, AY (Alzahrani, Abdullah Y.); Bani-Fwaz, MZ (Bani-Fwaz, Mutasem Z.); Oyouni, AAA (Oyouni, Atif Abdulwahab A.); Al-Amer, O (Al-Amer, Osama); Batiha, GE (Batiha, Gaber El-Saber)

**Source:** INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES **Volume:** 208 **Pages:** 20-28 **DOI:** 10.1016/j.ijbiomac.2022.02.172 **Early Access Date:** MAR 2022 **Published:** MAY 31 2022

---

**Record 899 of 1000**

**Title:** Experimental investigation on the flexural response of epoxy composites filled with environmental pollutant crump rubber

**Author(s):** Alblalaih, K (Alblalaih, Khalid); Shahapurkar, K (Shahapurkar, Kiran); Chennarayan, V (Chennarayan, Venkatesh); Beyecha, H (Beyecha, Hailu); Tirth, V (Tirth, Vineet); Algahtani, A (Algahtani, Ali); Soudagar, MEM (Soudagar, Manzoore Elahi M.); Talugeri, V (Talugeri, Vinayak)

**Source:** MATERIALS RESEARCH EXPRESS **Volume:** 9 **Issue:** 3 **Article Number:** 035503 **DOI:** 10.1088/2053-1591/ac5caf **Published:** MAR 1 2022

---

**Record 900 of 1000**

**Title:** Self-powered, ultra-fast and high photoresponsivity of MoTe<sub>2</sub>/HfSe<sub>2</sub> heterostructure broadband photovoltaic device

**Author(s):** Hegazy, HH (Hegazy, H. H.); Mumtaz, S (Mumtaz, Sohail); Shaaban, ER (Shaaban, E. R.); Afzal, AM (Afzal, Amir Muhammad); Muhammad, S (Muhammad, Shabbir); Alahmari, AA (Alahmari, A. A.)

**Source:** MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING **Volume:** 155 **Article Number:** 107204 **DOI:** 10.1016/j.mssp.2022.107204 **Early Access Date:** NOV 2022 **Published:** MAR 1 2023

---

**Record 901 of 1000**

**Title:** Glycerol-mediated synthesis of copper-doped zinc sulfide with ultrathin nanoflakes for flexible energy electrode materials

**Author(s):** Abbas, N (Abbas, Nadir); Shaheen, I (Shaheen, Irum); Hussain, I (Hussain, Iftikhar); Lamiel, C (Lamiel, Charmaine); Ahmad, M (Ahmad, Muhammad); Ma, XX (Ma, Xiaoxia); Qureshi, A (Qureshi, Anjum); Niazi, JH (Niazi, Javed H.); Imran, M (Imran, Muhammad); Ansari, MZ (Ansari, Mohd Zahid); Zhang, KL (Zhang, Kaili)

**Source:** JOURNAL OF ALLOYS AND COMPOUNDS **Volume:** 919 **Article Number:** 165701 **DOI:** 10.1016/j.jallcom.2022.165701 **Early Access Date:** JUN 2022 **Published:** OCT 25 2022

---

**Record 902 of 1000**

**Title:** green synthesis of silver nanoparticles using plant extracts and their antimicrobial activities: a review of recent literature (Vol 11, pg 2804, 2021)

**Author(s):** Vanlalveni, C (Vanlalveni, Chhange); Lallianrawna, S (Lallianrawna, Samuel); Biswas, A (Biswas, Aayushi); Selvaraj, M (Selvaraj, Manickam); Changmai, B (Changmai, Bishwajit); Rokhum, SL (Rokhum, Samuel Lalthazuala)

**Source:** RSC ADVANCES **Volume:** 12 **Issue:** 25 **Pages:** 16093-16093 **DOI:** 10.1039/d2ra90055f **Published:** MAY 23 2022

---

**Record 903 of 1000**

**Title:** A mechanistic approach for toxicity and risk assessment of heavy metals, hydroquinone and microorganisms in cosmetic creams

**Author(s):** Irfan, M (Irfan, Muhammad); Shafeeq, A (Shafeeq, Amir); Siddiq, U (Siddiq, Umair); Bashir, F (Bashir, Farzana); Ahmad, T (Ahmad, Tausif); Athar, M (Athar, Muhammad); Butt, MT (Butt, Muhammad Tahir); Ullah, S (Ullah, Sami); Mukhtar, A (Mukhtar, Ahmad); Hussien, M (Hussien, Mohamed); Lam, SS (Lam, Su Shiung)

**Source:** JOURNAL OF HAZARDOUS MATERIALS **Volume:** 433 **Article Number:** 128806 **DOI:** 10.1016/j.jhazmat.2022.128806 **Early Access Date:** APR 2022 **Published:** JUL 5 2022

---

#### **Record 904 of 1000**

**Title:** Development and Evaluation of <i>Ginkgo biloba</i>/Sodium Alginate Nanocomplex Gel as a Long-Acting Formulation for Wound Healing

**Author(s):** Md, S (Md, Shadab); Abdullah, S (Abdullah, Samaa); Alhakamy, NA (Alhakamy, Nabil A.); Shaik, RA (Shaik, Rasheed A.); Eldakhakhny, BM (Eldakhakhny, Basmah Medhat); Omar, UM (Omar, Ulfat Mohammad); Eid, BG (Eid, Basma G.); Ansari, AR (Ansari, Akhalakur Rahman); Alamoudi, AJ (Alamoudi, Abdulmohsin J.); Rizg, WY (Rizg, Waleed Y.); Riadi, Y (Riadi, Yassine); Venkateswaran, SP (Venkateswaran, Sunil Pazhayanur); Rashid, MA (Rashid, Md Abdur)

**Source:** GELS **Volume:** 8 **Issue:** 3 **Article Number:** 189 **DOI:** 10.3390/gels8030189 **Published:** MAR 2022

---

#### **Record 905 of 1000**

**Title:** Co-delivery of anticancer drugs via poly(ionic crosslinked chitosan-palladium) nanocapsules: Targeting more effective and sustainable cancer therapy

**Author(s):** Hassan, YA (Hassan, Yasser A.); Alfaifi, MY (Alfaifi, Mohammad Y.); Shati, AA (Shati, Ali A.); Elbehairi, SEI (Elbehairi, Serag Eldin, I); Elshaarawy, RFM (Elshaarawy, Reda F. M.); Kamal, I (Kamal, Islam)

**Source:** JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY **Volume:** 69 **Article Number:** 103151 **DOI:** 10.1016/j.jddst.2022.103151 **Early Access Date:** FEB 2022 **Published:** MAR 2022

---

#### **Record 906 of 1000**

**Title:** Investigation of Ce doped BaTiO<sub>3</sub> compound for optoelectronic devices

**Author(s):** Naz, A (Naz, Adeeba); Aldaghfag, SA (Aldaghfag, Shatha A.); Yaseen, M (Yaseen, Muhammad); Butt, MK (Butt, Mehwish K.); Kashif, M (Kashif, Muhammad); Zahid, M (Zahid, Muhammad); Mubashir, S (Mubashir, Shanza); Somaily, HH (Somaily, H. H.)

**Source:** PHYSICA B-CONDENSED MATTER **Volume:** 631 **Article Number:** 413714 **DOI:** 10.1016/j.physb.2022.413714 **Early Access Date:** FEB 2022 **Published:** APR 15 2022

---

#### **Record 907 of 1000**

**Title:** Nanoantioxidants: The Fourth Generation of Antioxidants-Recent Research Roadmap and Future Perspectives

**Author(s):** Shah, ST (Shah, Syed Tawab); Chowdhury, ZZ (Chowdhury, Zaira Zaman); Simarani, K (Simarani, Khanom); Basirun, WJ (Basirun, Wan Jeffrey); Badruddin, IA (Badruddin, Irfan Anjum); Hussien, M (Hussien, Mohamed); Alrobei, H (Alrobei, Hussein); Kamangar, S (Kamangar, Sarfaraz)

**Source:** COATINGS **Volume:** 12 **Issue:** 10 **Article Number:** 1568 **DOI:** 10.3390/coatings12101568 **Published:** OCT 2022

---

#### **Record 908 of 1000**

**Title:** Rice Husk-Derived Mesoporous Silica Nanostructure for Supercapacitors Application: a Possible Approach for Recycling Bio-Waste into a Value-Added Product

**Author(s):** Araichimani, P (Araichimani, P.); Prabu, KM (Prabu, K. M.); Kumar, GS (Kumar, G. Suresh); Karunakaran, G (Karunakaran, Gopalu); Surendhiran, S (Surendhiran, S.); Shkir, M (Shkir, Mohd); AlFaify, S (AlFaify, S.)

**Source:** SILICON **Volume:** 14 **Issue:** 15 **Pages:** 10129-10135 **DOI:** 10.1007/s12633-022-01699-3 **Early Access Date:** FEB 2022 **Published:** OCT 2022

---

#### **Record 909 of 1000**

**Title:** Interplay of dietary antioxidants and gut microbiome in human health: What has been learnt thus far?

**Author(s):** Naliyadhara, N (Naliyadhara, Nikunj); Kumar, A (Kumar, Aviral); Gangwar, SK (Gangwar, Shailendra Kumar); Devanarayanan, TN (Devanarayanan, Thulsidharan Nair); Hegde, M (Hegde, Mangala); Alqahtani, MS (Alqahtani, Mohammed S.); Abbas, M (Abbas, Mohamed); Sethi, G (Sethi, Gautam); Kunnumakara, A (Kunnumakara, Ajaikumar)

**Source:** JOURNAL OF FUNCTIONAL FOODS **Volume:** 100 **Article Number:** 105365 **DOI:** 10.1016/j.jff.2022.105365 **Early Access Date:** DEC 2022 **Published:** JAN 2023

---

#### **Record 910 of 1000**

**Title:** Characterization of Date Seed Powder Derived Porous Graphene Oxide and Its Application as an Environmental Functional Material to Remove Dye from Aqueous Solutions

**Author(s):** Al-Zahrani, FAM (Al-Zahrani, Fatimah A. M.); Al-Shehri, BM (Al-Shehri, Badria M.); El-Shishtawy, RM (El-Shishtawy, Reda M.); Awwad, NS (Awwad, Nasser S.); Khan, KA (Khan, Khalid Ali); Sayed, MA (Sayed, M. A.); Siddeeg, SM (Siddeeg, Saifeldin M.)

**Source:** MATERIALS **Volume:** 15 **Issue:** 22 **Article Number:** 8136 **DOI:** 10.3390/ma15228136 **Published:** NOV 2022

---

#### Record 911 of 1000

**Title:** One-pot ultrasonic-assisted synthesis of magnetic hydroxyapatite nanoparticles using mussel shell biowaste with the aid of trisodium citrate

**Author(s):** Agalya, P (Agalya, P.); Kumar, GS (Kumar, G. Suresh); Prabu, KM (Prabu, K. M.); Cholan, S (Cholan, S.); Karunakaran, G (Karunakaran, Gopal); Hakami, J (Hakami, Jabir); Shkir, M (Shkir, Mohd); Ramalingam, S (Ramalingam, Srinivasan)

**Source:** CERAMICS INTERNATIONAL **Volume:** 48 **Issue:** 19 **Pages:** 28299-28307 **DOI:** 10.1016/j.ceramint.2022.06.137 **Early Access Date:** AUG 2022 **Part:** A **Published:** OCT 1 2022

---

#### Record 912 of 1000

**Title:** Thermal, optical, and gamma/neutron radiation absorption of  $PbO - P_2O_5 - SiO_2 - Na_2O - Fe_2O_3$  glasses

**Author(s):** Shaaban, KS (Shaaban, Kh S.); Al-Baradi, AM (Al-Baradi, Ateyyah M.); Ali, AM (Ali, Atif Mossad); Alotaibi, BM (Alotaibi, B. M.)

**Source:** JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T **Volume:** 18 **Pages:** 1909-1921 **DOI:** 10.1016/j.jmrt.2022.03.090 **Published:** MAY-JUN 2022

---

#### Record 913 of 1000

**Title:** The optical and electrical properties of Ba thin films for junction diode application by jet nebulizer spray pyrolysis method

**Author(s):** Sakthivel, M (Sakthivel, M.); Mary, SS (Mary, S. Stella); Balasubramani, V (Balasubramani, V.); Ibrahim, A (Ibrahim, A.); Hakami, J (Hakami, Jabir); Reddy, VRM (Reddy, Vasudeva Reddy Minnam)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 141 **Article Number:** 109511 **DOI:** 10.1016/j.inoche.2022.109511 **Early Access Date:** APR 2022 **Published:** JUL 2022

---

#### Record 914 of 1000

**Title:** Influence of Recycling Waste Glass as Fine Aggregate on the Concrete Properties

**Author(s):** Hadi, RA (Hadi, Rafal A.); Abd, SM (Abd, Suhad M.); Najm, HM (Najm, Hadee Mohammed); Qaidi, S (Qaidi, Shaker); Eldirderi, MMA (Eldirderi, Moutaz Mustafa A.); Khedher, KM (Khedher, Khaled Mohamed)

**Source:** JOURNAL OF RENEWABLE MATERIALS **DOI:** 10.32604/jrm.2023.025558 **Early Access Date:** NOV 2022

---

#### Record 915 of 1000

**Title:** Theoretical design and prediction of novel fluorene-based non-fullerene acceptors for environmentally friendly organic solar cell

**Author(s):** Khan, MU (Khan, Muhammad Usman); Hussain, R (Hussain, Riaz); Yaqoob, J (Yaqoob, Junaid); Rehman, MFU (Rehman, Muhammad Fayyaz ur); Asghar, MA (Asghar, Muhammad Adnan); Kanmazalp, SD (Kanzmazalp, Sibel Demir); Assiri, MA (Assiri, Mohammed A.); Imran, M (Imran, Muhammad); Lu, CR (Lu, Changrui); Akram, MS (Akram, Muhammad Safwan)

**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 16 **Issue:** 1 **Article Number:** 104374 **DOI:** 10.1016/j.arabjc.2022.104374 **Early Access Date:** NOV 2022 **Published:** JAN 2023

---

#### Record 916 of 1000

**Title:** Solar light induced photocatalytic activation of peroxydisulfate by ultra-thin  $Ti^{3+}$  self-doped  $Fe_2O_3/TiO_2$  nanoflakes for the degradation of naphthalene

**Author(s):** Sayed, M (Sayed, Murtaza); Ren, BX (Ren, Bangxing); Ali, AM (Ali, Atif Mossad); Al-Anazi, A (Al-Anazi, Abdulaziz); Nadagouda, MN (Nadagouda, Mallikarjuna N.); Ismail, AA (Ismail, Adel A.); Dionysiou, DD (Dionysiou, Dionysios D.)

**Source:** APPLIED CATALYSIS B-ENVIRONMENTAL **Volume:** 315 **Article Number:** 121532 **DOI:** 10.1016/j.apcatb.2022.121532 **Early Access Date:** MAY 2022 **Published:** OCT 15 2022

---

#### Record 917 of 1000

**Title:** Surface modification of CuO nanoparticles with conducting polythiophene as a non-enzymatic amperometric sensor for sensitive and selective determination of hydrogen peroxide

**Author(s):** Rashed, MA (Rashed, Md. A.); Ahmed, J (Ahmed, Jahir); Faisal, M (Faisal, M.); Alsareii, SA (Alsareii, S. A.); Jalalah, M (Jalalah, Mohammed); Tirth, V (Tirth, Vineet); Harraz, FA (Harraz, Farid A.)

**Source:** SURFACES AND INTERFACES **Volume:** 31 **Article Number:** 101998 **DOI:** 10.1016/j.surfin.2022.101998 **Early Access Date:** APR 2022 **Published:** JUL 2022

---

#### Record 918 of 1000

**Title:** Utilization of Dairy Scum Waste as a Feedstock for Biodiesel Production via Different Heating Sources for Catalytic Transesterification

**Author(s):** Johari, SAM (Mohd Johari, Siti Aminah); Ayoub, M (Ayoub, Muhammad); Inayat, A (Inayat, Abrar); Ullah, S (Ullah, Sami); Uroos, M (Uroos, Maliha); Naqvi, SR (Naqvi, Salman Raza); Farukkh, S (Farukkh, Sarah)

**Source:** CHEMBIOENG REVIEWS **Volume:** 9 **Issue:** 6 **Pages:** 605-632 **DOI:** 10.1002/cben.202200003 **Early Access Date:** JUL 2022 **Published:** DEC 2022

---

#### Record 919 of 1000

**Title:** Performance evaluation of newly synthesized bi-pyrazole derivatives as corrosion inhibitors for mild steel in acid environment

**Author(s):** Cherrak, K (Cherrak, K.); Khamaysa, OMA (Khamaysa, O. M. A.); Bidi, H (Bidi, H.); El Massaoudi, M (El Massaoudi, M.); Ali, IA (Ali, Ismat A.); Radi, S (Radi, S.); El Ouadi, Y (El Ouadi, Y.); El-Hajjaji, F (El-Hajjaji, F.); Zarrouk, A (Zarrouk, A.); Dafali, A (Dafali, A.)

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1261 **Article Number:** 132925 **DOI:** 10.1016/j.molstruc.2022.132925 **Early Access Date:** APR 2022 **Published:** AUG 5 2022

---

#### Record 920 of 1000

**Title:** Co-NCNT nanohybrid as a highly active catalyst for the electroreduction of nitrate to ammonia

**Author(s):** Chen, J (Chen, Jie); Zhou, Q (Zhou, Qiang); Yue, LC (Yue, Luchao); Zhao, DL (Zhao, Donglin); Zhang, LC (Zhang, Longcheng); Luo, YS (Luo, Yongsong); Liu, Q (Liu, Qian); Li, N (Li, Na); Alshehri, AA (Alshehri, Abdulmohsen Ali); Hamdy, MS (Hamdy, Mohamed S.); Gong, F (Gong, Feng); Sun, XP (Sun, Xuping)

**Source:** CHEMICAL COMMUNICATIONS **Volume:** 58 **Issue:** 23 **Pages:** 3787-3790 **DOI:** 10.1039/d2cc00245k **Early Access Date:** FEB 2022 **Published:** MAR 18 2022

---

#### Record 921 of 1000

**Title:** CeO<sub>2</sub> Reinforced B<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub>-MoO<sub>3</sub> Glass System: A Characterization Study Through Physical, Mechanical and Gamma/Neutron Shields Characteristics

**Author(s):** Shaaban, KS (Shaaban, Kh S.); Alyousef, HA (Alyousef, Haifa A.); Abd El-Rehim, AF (Abd El-Rehim, A. F.)

**Source:** SILICON **Volume:** 14 **Issue:** 17 **Pages:** 12001-12012 **DOI:** 10.1007/s12633-022-02124-5 **Early Access Date:** SEP 2022 **Published:** NOV 2022

---

#### Record 922 of 1000

**Title:** Sustainable approaches towards green synthesis of TiO<sub>2</sub> nanomaterials and their applications in photocatalysis-mediated sensing to monitor environmental pollution

**Author(s):** Singh, T (Singh, Tripti); Sharma, S (Sharma, Shalini); Singh, R (Singh, Rajeev); Pal, DB (Pal, Dan Bahadur); Ahmad, I (Ahmad, Irfan); Alam, MM (Alam, Mohammad Mahtab); Singh, NL (Singh, Nand Lal); Srivastava, M (Srivastava, Manish); Srivastava, N (Srivastava, Neha)

**Source:** LUMINESCENCE **Volume:** 38 **Issue:** 7 **Pages:** 999-1010 **DOI:** 10.1002/bio.4370 **Early Access Date:** SEP 2022 **Published:** JUL 2023

---

#### Record 923 of 1000

**Title:** Synthesis of 3-Methoxy-6-[(2, 4, 6-trimethyl-phenylamino)-methyl]-phenol Schiff base characterized by spectral, in-silico and in-vitro studies

**Author(s):** Murugan, S (Murugan, Suganya); Nehru, J (Nehru, Jayasudha); Arputharaj, DS (Arputharaj, David Stephen); Paul, AC (Paul, Anaglit Catherine); Gunasekaran, P (Gunasekaran, Prasanth); Dege, N (Dege, Necmi); Cinar, EB (Cinar, Emine Berrin); Balasubramani, K (Balasubramani, Kasthuri); Savaridasson, JK (Savaridasson, Jose Kavitha); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Rajakannan, V (Rajakannan, Venkatachalam); Hemamalini, M (Hemamalini, Madhukar)

**Source:** HELIYON **Volume:** 8 **Issue:** 8 **Article Number:** e10070 **DOI:** 10.1016/j.heliyon.2022.e10070 **Early Access Date:** AUG 2022 **Published:** AUG 2022

---

**Record 924 of 1000**

**Title:** Enhanced N<sub>2</sub>-to-NH<sub>3</sub> conversion efficiency on Cu<sub>3</sub>P nanoribbon electrocatalyst

**Author(s):** Liu, Q (Liu, Qian); Lin, YT (Lin, Yiting); Gu, S (Gu, Shuang); Cheng, ZQ (Cheng, Ziqiang); Xie, LS (Xie, Lisi); Sun, SJ (Sun, Shengjun); Zhang, LC (Zhang, Longcheng); Luo, YS (Luo, Yongsong); Alshehri, AA (Alshehri, Abdulmohsen Ali); Hamdy, MS (Hamdy, Mohamed S.); Kong, QQ (Kong, Qingquan); Wang, JH (Wang, Jiahong); Sun, XP (Sun, Xuping)

**Source:** NANO RESEARCH **Volume:** 15 **Issue:** 8 **Pages:** 7134-7138 **DOI:** 10.1007/s12274-022-4568-z **Early Access Date:** JUN 2022 **Published:** AUG 2022

---

**Record 925 of 1000**

**Title:** Polymer based nanocomposites: A strategic tool for detection of toxic pollutants in environmental matrices

**Author(s):** Shakeel, A (Shakeel, Ahmad); Rizwan, K (Rizwan, Komal); Farooq, U (Farooq, Ujala); Iqbal, S (Iqbal, Shahid); Iqbal, T (Iqbal, Tanveer); Awwad, NS (Awwad, Nasser S.); Ibrahim, HA (Ibrahim, Hala A.)

**Source:** CHEMOSPHERE **Volume:** 303 **Article Number:** 134923 **DOI:** 10.1016/j.chemosphere.2022.134923 **Early Access Date:** MAY 2022 **Part:** 1 **Published:** SEP 2022

---

**Record 926 of 1000**

**Title:** Nonfullerene Near-Infrared Sensitive Acceptors ?Octacyclic Naphtho[1,2-b:5,6-b] Dithiophene Core? for Organic Solar Cell Applications: *In Silico* Molecular Engineering

**Author(s):** Sattar, A (Sattar, Abdul); Hussain, R (Hussain, Riaz); Ishaq, S (Ishaq, Sahar); Assiri, MA (Assiri, Mohammed A.); Imran, M (Imran, Muhammad); Hussain, A (Hussain, Ajaz); Yawer, MA (Yawer, Mirza Arfan); Jan, S (Jan, Saleem); Hussain, R (Hussain, Riaz); Mehboob, MY (Mehboob, Muhammad Yasir); Khalid, M (Khalid, Muhammad); Ayub, K (Ayub, Khurshid)

**Source:** ACS OMEGA **Volume:** 7 **Issue:** 19 **Pages:** 16716-16727 **DOI:** 10.1021/acsomega.2c01255 **Published:** MAY 17 2022

---

**Record 927 of 1000**

**Title:** On Chemical Invariants of Semitotal-Point Graph and Its Line Structure of the Acyclic Kragujevac Network: A Novel Mathematical Analysis

**Author(s):** Kanwal, S (Kanwal, Salma); Safdar, R (Safdar, Rabia); Rauf, A (Rauf, Asia); Afzal, A (Afzal, Ammara); Jamshed, W (Jamshed, Wasim); Alanazi, MM (Alanazi, Meznah M.); Zahran, HY (Zahran, H. Y.)

**Source:** JOURNAL OF CHEMISTRY **Volume:** 2022 **Article Number:** 7995704 **DOI:** 10.1155/2022/7995704 **Published:** FEB 22 2022

---

**Record 928 of 1000**

**Title:** Unveiling the effect of Gd-Co co-substitution in the enrichment of structural and dielectric properties of SrBaMn based magnetic oxide

**Author(s):** Lodhi, MY (Lodhi, Maria Yousuf); Khan, MA (Khan, Muhammad Azhar); Majeed, A (Majeed, Abdul); Alharthi, S (Alharthi, Sarah); Amin, MA (Amin, Mohammed A.); Boukhris, I (Boukhris, Imed)

**Source:** CERAMICS INTERNATIONAL **Volume:** 48 **Issue:** 6 **Pages:** 8612-8619 **DOI:** 10.1016/j.ceramint.2021.12.072 **Early Access Date:** FEB 2022 **Published:** MAR 15 2022

---

**Record 929 of 1000**

**Title:** Green synthesis of magnesium oxide nanosheets by using *Citrullus colocynthis* fruit extract and its use in biofuel production

**Author(s):** Khan, UN (Khan, Umar Nawaz); Inayat, A (Inayat, Abid); Shah, GM (Shah, Ghulam Mujtaba); Hassan, HMA (Hassan, Hassan M. A.); Zaki, MEA (Zaki, Magdi E. A.); Alanazi, AA (Alanazi, Abdulaziz A.); El-Zahhar, AA (El-Zahhar, Adel A.); Noureen, S (Noureen, Shama); Abbas, SM (Abbas, Syed Mustansar)

**Source:** BIOMASS & BIOENERGY **Volume:** 167 **Article Number:** 106640 **DOI:** 10.1016/j.biombioe.2022.106640 **Early Access Date:** OCT 2022 **Published:** DEC 2022

---

**Record 930 of 1000**

**Title:** A Promising Review on Cyclodextrin Conjugated Paclitaxel Nanoparticles for Cancer Treatment

**Author(s):** Velhal, K (Velhal, Kamini); Barage, S (Barage, Sagar); Roy, A (Roy, Arpita); Lakkakula, J (Lakkakula, Jaya); Yamgar, R (Yamgar, Ramesh); Alqahtani, MS (Alqahtani, Mohammed S.); Yadav, KK (Yadav, Krishna Kumar); Ahn, Y (Ahn, Yongtae); Jeon, BH (Jeon, Byong-Hun)

### Record 931 of 1000

**Title:** Novel clorsulon voltammetric sensors based on zinc oxide nanostructure

**Author(s):** Al-nami, SY (Al-nami, Samar Y.); Aljuhani, E (Aljuhani, Enas); Al-Qahtani, SD (Al-Qahtani, Salhah D.); Alharbi, A (Alharbi, Arwa); Ibarhiam, SF (Ibarhiam, Saham F.); Alzahrani, HK (Alzahrani, Hanan K.); El-Metwaly, NM (El-Metwaly, Nashwa M.)

**Source:** JOURNAL OF SAUDI CHEMICAL SOCIETY Volume: 26 Issue: 3 Article Number: 101444 DOI: 10.1016/j.jscs.2022.101444 Early Access Date: MAR 2022 Published: MAY 2022

---

### Record 932 of 1000

**Title:** Robust effectiveness behavior of synthesized cobalt doped Prussian blue graphene oxide ferrite against EMI shielding

**Author(s):** Ali, MD (Ali, Muhammad Danish); Aslam, A (Aslam, Ammara); Zeeshan, T (Zeeshan, Talat); Mubaraka, R (Mubaraka, Rafia); Bukhari, SA (Bukhari, Syed Aashir); Shoaib, M (Shoaib, Muhammad); Amami, M (Amami, Mongi); ben Farhat, I (ben Farhat, Iamia); ben Ahmed, S (ben Ahmed, Samia); Abdelhak, J (Abdelhak, Jawher); Waseem, S (Waseem, Salma)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS Volume: 137 Article Number: 109204 DOI: 10.1016/j.inoche.2022.109204 Early Access Date: JAN 2022 Published: MAR 2022

---

### Record 933 of 1000

**Title:** Computationally Inexpensive 1D-CNN for the Prediction of Noisy Data of NO<sub>x</sub> Emissions From 500 MW Coal-Fired Power Plant

**Author(s):** Saif-Ul-Allah, MW (Saif-Ul-Allah, Muhammad Waqas); Khan, J (Khan, Javed); Ahmed, F (Ahmed, Faisal); Salman, CA (Salman, Chaudhary Awais); Gillani, Z (Gillani, Zeeshan); Hussain, A (Hussain, Arif); Yasin, M (Yasin, Muhammad); Ul-Haq, N (Ul-Haq, Noaman); Khan, AU (Khan, Asad Ullah); Bazmi, AA (Bazmi, Aqeel Ahmed); Ahmad, Z (Ahmad, Zubair); Hasan, M (Hasan, Mudassir)

**Source:** FRONTIERS IN ENERGY RESEARCH Volume: 10 Article Number: 945769 DOI: 10.3389/fenrg.2022.945769 Published: AUG 16 2022

---

### Record 934 of 1000

**Title:** Synthesis, characterization and self-assembly of novel fluorescent alkoxy-substituted 1, 4-diarylated 1, 2, 3-triazoles organogelators

**Author(s):** Al-Qahtani, SD (Al-Qahtani, Salhah D.); Snari, RM (Snari, Razan M.); Bayazeed, A (Bayazeed, Abrar); Alnoman, RB (Alnoman, Rua B.); Hossan, A (Hossan, Aisha); Alsoliemy, A (Alsoliemy, Amerah); El-Metwaly, NM (El-Metwaly, Nashwa M.)

**Source:** ARABIAN JOURNAL OF CHEMISTRY Volume: 15 Issue: 6 Article Number: 103874 DOI: 10.1016/j.arabjc.2022.103874 Early Access Date: APR 2022 Published: JUN 2022

---

### Record 935 of 1000

**Title:** Recent Advances in Methods for Synthesis of Carbon Nanotubes and Carbon Nanocomposite and their Emerging Applications: A Descriptive Review

**Author(s):** Gacem, A (Gacem, Amel); Modi, S (Modi, Shreya); Yadav, VK (Yadav, Virendra Kumar); Islam, S (Islam, Saiful); Patel, A (Patel, Aradhna); Dawane, V (Dawane, Vinars); Jameel, M (Jameel, Mohammed); Inwati, GK (Inwati, Gajendra Kumar); Piplode, S (Piplode, Satish); Solanki, VS (Solanki, Vijendra Singh); Basnet, A (Basnet, Anup)

**Source:** JOURNAL OF NANOMATERIALS Volume: 2022 Article Number: 7238602 DOI: 10.1155/2022/7238602 Published: SEP 29 2022

---

### Record 936 of 1000

**Title:** Hydrogen production and photocatalytic activity of HTAB assisted titanium doped a-Fe<sub>2</sub>O<sub>3</sub> nanoparticles treated by microwave irradiation process

**Author(s):** Sangaiya, P (Sangaiya, P.); Jayaprakash, R (Jayaprakash, R.); Shkir, M (Shkir, Mohd.); Ashraf, IM (Ashraf, I. M.); Gedi, S (Gedi, Sreedevi)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS Volume: 144 Article Number: 109852 DOI: 10.1016/j.inoche.2022.109852 Early Access Date: AUG 2022 Published: OCT 2022

---

### Record 937 of 1000

**Title:** Sonochemically synthesized cobalt oxide nanoparticles as an additive for natural polymer iodide electrolyte based dye-sensitized solar cells

**Author(s):** Goh, ZL (Goh, Z. L.); Saidi, NM (Saidi, Norshahirah M.); Farhana, NK (Farhana, N. K.); Bashir, S (Bashir, Shahid); Iqbal, J (Iqbal, Javed); Ramesh, K (Ramesh, K.); Ramesh, S (Ramesh, S.); Wageh, S (Wageh, S.); Kalam, A (Kalam, Abul)

**Source:** SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS **Volume:** 49 **Article Number:** 101746 **DOI:** 10.1016/j.seta.2021.101746 **Published:** FEB 2022

---

#### Record 938 of 1000

**Title:** Public Health Vulnerability Due to the Exposure of Dissolved Metal(oid)s in Tap Water from a Mega City (Dhaka, Bangladesh): Source and Quality Appraisals

**Author(s):** Hossain, S (Hossain, Shabiha); Anik, AH (Anik, Amit Hasan); Khan, R (Khan, Rahat); Ahmed, FT (Ahmed, Farah Tasneem); Siddique, MA (Siddique, Md Abu Bakar); Khan, AHA (Khan, Abdul Hadi Al Nafi); Saha, N (Saha, Narottam); Idris, AM (Idris, Abubakr M.); Alam, M (Alam, Mahbub)

**Source:** EXPOSURE AND HEALTH **Volume:** 14 **Issue:** 3 **Pages:** 713-732 **DOI:** 10.1007/s12403-021-00446-0 **Early Access Date:** JAN 2022 **Published:** SEP 2022

---

#### Record 939 of 1000

**Title:** Synthesis, Characterization, Crystal Structure and Computational Study of Third-Order NLO Properties of Schiff bases

**Author(s):** Munawar, KS (Munawar, Khurram Shahzad); Ali, S (Ali, Saqib); Ashfaq, M (Ashfaq, Muhammad); Tahir, MN (Tahir, Muhammad Nawaz); Muhammad, S (Muhammad, Shabbir); Alarfaji, SS (Alarfaji, Saleh S.); Ahmed, G (Ahmed, Gulzar); Al-Sehemi, AG (Al-Sehemi, Abdullah G.)

**Source:** CHEMISTRYSELECT **Volume:** 7 **Issue:** 43 **Article Number:** e202203015 **DOI:** 10.1002/slct.202203015 **Published:** NOV 18 2022

---

#### Record 940 of 1000

**Title:** Methoxy substituent facilitated wide solvatofluorochromism, white light emission, polymorphism and stimuli-responsive fluorescence switching in donor-acceptor

**Author(s):** Gayathri, P (Gayathri, Parthasarathy); Nantheeswaran, P (Nantheeswaran, Periyappan); Mariappan, M (Mariappan, Mariappan); Karthikeyan, S (Karthikeyan, Subramanian); Pannipara, M (Pannipara, Mehboobali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Moon, D (Moon, Dohyun); Anthony, SP (Anthony, Savarimuthu Philip)

**Source:** SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY **Volume:** 286 **Article Number:** 121989 **DOI:** 10.1016/j.saa.2022.121989 **Early Access Date:** OCT 2022 **Published:** FEB 5 2023

---

#### Record 941 of 1000

**Title:** Electrical and magnetic properties of 6H-BaTiO<sub>3</sub> 8 B site doped: The case of double cation couple (Fe<sup>3+</sup>+Mo<sup>6+</sup>) and (Fe<sup>3+</sup>+W<sup>6+</sup>)

**Author(s):** Bourguiba, F (Bourguiba, Faycal); Kacem, H (Kacem, Hend); Nasr, S (Nasr, Samia); Abassi, M (Abassi, M.); Hlil, EK (Hlil, E. K.); Dhahri, J (Dhahri, J.); Taibi, K (Taibi, K.); Belmabrouk, H (Belmabrouk, H.)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 145 **Article Number:** 109882 **DOI:** 10.1016/j.inoche.2022.109882 **Early Access Date:** SEP 2022 **Published:** NOV 2022

---

#### Record 942 of 1000

**Title:** Electrical characteristics and photosensing properties of Al/symmetrical CuPc/p-Si photodiodes

**Author(s):** Demirezen, S (Demirezen, S.); Al-Sehemi, AG (Al-Sehemi, A. G.); Yüzer, A (Yuzer, A.); Ince, M (Ince, M.); Dere, A (Dere, A.); Al-Ghamdi, AA (Al-Ghamdi, A. A.); Yakuphanoglu, F (Yakuphanoglu, F.)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS **Volume:** 33 **Issue:** 26 **Pages:** 21011-21021 **DOI:** 10.1007/s10854-022-08906-2 **Early Access Date:** AUG 2022 **Published:** SEP 2022

---

#### Record 943 of 1000

**Title:** Increasing the Efficiency of a Control System for Detecting the Type and Amount of Oil Product Passing through Pipelines Based on Gamma-Ray Attenuation, Time Domain Feature Extraction, and Artificial Neural Networks

**Author(s):** Mayet, AM (Mayet, Abdulilah Mohammad); Alizadeh, SM (Alizadeh, Seyed Mehdi); Kakarash, ZA (Kakarash, Zana Azeez); Al-Qahtani, AA (Al-Qahtani, Ali Awadh); Alanazi, AK (Alanazi, Abdullah K.); Guerrero, JWG (Guerrero, John William Grimaldo); Alhashimi, HH (Alhashimi, Hala H.); Eftekhari-Zadeh, E (Eftekhari-Zadeh, Ehsan)

**Source:** POLYMERS **Volume:** 14 **Issue:** 14 **Article Number:** 2852 **DOI:** 10.3390/polym14142852 **Published:** JUL 2022

---

#### **Record 944 of 1000**

**Title:** Ultrasonic assisted in situ mineralization of hydroxyapatite nanoparticles in the presence of drug molecule: An insight on biowaste derived materials for the local drug delivery

**Author(s):** Agalya, P (Agalya, P.); Cholan, S (Cholan, S.); Prabu, KM (Prabu, K. M.); Kumar, GS (Kumar, G. Suresh); Karunakaran, G (Karunakaran, Gopal); Shkir, M (Shkir, Mohd.); Kolesnikov, E (Kolesnikov, Evgeny); Ramalingam, S (Ramalingam, Srinivasan)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 143 **Article Number:** 109788 **DOI:** 10.1016/j.inoche.2022.109788 **Early Access Date:** JUL 2022 **Published:** SEP 2022

---

#### **Record 945 of 1000**

**Title:** Effects of Strontium on the Structural, Optical, and Microwave Dielectric Properties of Ba<sub>2</sub>Ti<sub>9</sub>O<sub>20</sub> Ceramics Synthesized by a Mixed Oxide Route

**Author(s):** Ali, A (Ali, Asad); Zaman, A (Zaman, Abid); Jabbar, AH (Jabbar, Abdullah Hasan); Tirth, V (Tirth, Vineet); Algahtani, A (Algahtani, Ali); Alhodaib, A (Alhodaib, Aiyeshah); Ullah, I (Ullah, Ihsan); Ahmed, SJ (Ahmed, Sara J.); Aljohani, M (Aljohani, Mohammed)

**Source:** ACS OMEGA **Volume:** 7 **Issue:** 29 **Pages:** 25573-25579 **DOI:** 10.1021/acsomega.2c02733 **Early Access Date:** JUL 2022 **Published:** JUL 26 2022

---

#### **Record 946 of 1000**

**Title:** Introducing a Precise System for Determining Volume Percentages Independent of Scale Thickness and Type of Flow Regime

**Author(s):** Mayet, AM (Mayet, Abdulilah Mohammad); Alizadeh, SM (Alizadeh, Seyed Mehdi); Kakarash, ZA (Kakarash, Zana Azeez); Al-Qahtani, AA (Al-Qahtani, Ali Awadh); Alanazi, AK (Alanazi, Abdullah K.); Alhashimi, HH (Alhashimi, Hala H.); Eftekhari-Zadeh, E (Eftekhari-Zadeh, Ehsan); Nazemi, E (Nazemi, Ehsan)

**Source:** MATHEMATICS **Volume:** 10 **Issue:** 10 **Article Number:** 1770 **DOI:** 10.3390/math10101770 **Published:** MAY 2022

---

#### **Record 947 of 1000**

**Title:** Studying Different Operating Conditions on Reverse Osmosis Performance in the Treatment of Wastewater Containing Nickel (II) Ions

**Author(s):** Shigidi, I (Shigidi, Ihab); Harharah, RH (Harharah, Ramzi H. H.); Abdalla, GMT (Abdalla, Ghassan M. T.); Elkhaleefa, A (Elkhaleefa, Abubakar); Alsaiani, NS (Alsaiani, Norah S. S.); Harharah, HN (Harharah, Hamed N. N.); Amari, A (Amari, Abdelfattah); Hassan, MG (Hassan, Mohamed G. G.)

**Source:** MEMBRANES **Volume:** 12 **Issue:** 11 **Article Number:** 1163 **DOI:** 10.3390/membranes12111163 **Published:** NOV 2022

---

#### **Record 948 of 1000**

**Title:** Evaluation of Soil Organic Carbon Stock in Coastal Sabkhas under Different Vegetation Covers

**Author(s):** Eid, EM (Eid, Ebrahim M.); Arshad, M (Arshad, Muhammad); Alrumman, SA (Alrumman, Sulaiman A.); Al-Bakre, DA (Al-Bakre, Dhafer A.); Ahmed, MT (Ahmed, Mohamed T.); Almahasheer, H (Almahasheer, Hanan); Keshta, AE (Keshta, Amr E.)

**Source:** JOURNAL OF MARINE SCIENCE AND ENGINEERING **Volume:** 10 **Issue:** 9 **Article Number:** 1234 **DOI:** 10.3390/jmse10091234 **Published:** SEP 2022

---

#### **Record 949 of 1000**

**Title:** Synthesis and In Vitro/Ex Vivo Characterizations of Ceftriaxone-Loaded Sodium Alginate/poly(vinyl alcohol) Clay Reinforced Nanocomposites: Possible Applications in Wound Healing

**Author(s):** Bibi, S (Bibi, Shabana); Mir, S (Mir, Sadullah); Rehman, W (Rehman, Wajid); Mena, F (Mena, Farid); Gul, A (Gul, Alia); Alaryani, FSS (Alaryani, Fatima Saad Salem); Alqahtani, AM (Alqahtani, Ali M.); Haq, S (Haq, Sirajul); Abdellatif, MH (Abdellatif, Magda H.)

**Source:** MATERIALS **Volume:** 15 **Issue:** 11 **Article Number:** 3885 **DOI:** 10.3390/ma15113885 **Published:** JUN 2022

---

#### **Record 950 of 1000**

**Title:** Green and sustainable tannin-immobilized cellulose dipstick for metallochromic sensing of ferric cations



**Author(s):** Abou Taleb, M (Abou Taleb, Manal); Kalam, A (Kalam, Abul); Alghamdi, NA (Alghamdi, Noweir Ahmad); Salem, WM (Salem, Waheed M.)

**Source:** JOURNAL OF MOLECULAR LIQUIDS **Volume:** 358 **Article Number:** 119180 **DOI:** 10.1016/j.molliq.2022.119180 **Early Access Date:** APR 2022 **Published:** JUL 15 2022

---

#### Record 951 of 1000

**Title:** Synthesis of Au<i>NPs/Quince</i> nanoparticles mediated by<i> Quince</i> extract for the treatment of human cervical cancer: Introducing a novel chemotherapeutic supplement

**Author(s):** Li, N (Li, Na); Li, GD (Li, Guodong); Li, RA (Li, RuiNa); Karmakar, B (Karmakar, Bikash); El-kott, AF (El-kott, Attalla F.); Bani-Fwaz, MZ (Bani-Fwaz, Mutasem Z.); Negm, S (Negm, Sally); Morsy, K (Morsy, Kareem)

**Source:** MATERIALS EXPRESS **Volume:** 12 **Issue:** 12 **Pages:** 1465-1473 **DOI:** 10.1166/mex.2022.2300 **Published:** DEC 2022

---

#### Record 952 of 1000

**Title:** Practical parameter tuning toward enhancing thermomechanical shock resistance of the nanocomposite structure

**Author(s):** Amari, A (Amari, Abdelfattah); Hassan, ZK (Hassan, Zainab Kassim); Al-Bahrani, M (Al-Bahrani, Mohammed); Saberi, L (Saberi, Leila); Maktoof, MAJ (Maktoof, Mohammed Abdul Jaleel)

**Source:** MECHANICS OF ADVANCED MATERIALS AND STRUCTURES **DOI:** 10.1080/15376494.2022.2145531 **Early Access Date:** NOV 2022

---

#### Record 953 of 1000

**Title:** Numerical Investigation of Heat Transfer Enhancement in a Microchannel with Conical-Shaped Reentrant Cavity

**Author(s):** Muzhaimy, SSS (Muzhaimy, Syarif Syahrul Syazwan); Ghazali, NNN (Ghazali, Nik Nazri Nik); Zainon, MZ (Zainon, Mohd Zamri); Badruddin, IA (Badruddin, Irfan Anjum); Hussien, M (Hussien, Mohamed); Kamangar, S (Kamangar, Sarfaraz); Ahammad, NA (Ahammad, N. Ameer)

**Source:** MATHEMATICS **Volume:** 10 **Issue:** 22 **Article Number:** 4330 **DOI:** 10.3390/math10224330 **Published:** NOV 2022

---

#### Record 954 of 1000

**Title:** Numerical heat performance of TiO<sub>2</sub>/Glycerin under nanoparticles aggregation and nonlinear radiative heat flux in dilating/squeezing channel

**Author(s):** Adnan (Adnan); Alharbi, KAM (Alharbi, Khalid Abdulkhaliq M.); Bani-Fwaz, MZ (Bani-Fwaz, Mutasem Z.); Eldin, SM (Eldin, Sayed M.); Yassen, MF (Yassen, Mansour F.)

**Source:** CASE STUDIES IN THERMAL ENGINEERING **Volume:** 41 **Article Number:** 102568 **DOI:** 10.1016/j.csite.2022.102568 **Early Access Date:** DEC 2022 **Published:** JAN 2023

---

#### Record 955 of 1000

**Title:** Nickel-Iron-Zinc Phosphide with Three-Dimensional Petal-Like Nanostructure as a Highly Efficient Electrocatalyst for Oxygen Evolution Reaction in Alkaline Electrolytes

**Author(s):** Parkash, A (Parkash, Anand); Solangi, N (Solangi, Nizamuddin); Seehar, TH (Seehar, Tahir Hussain); Ali, S (Ali, Salamat); Larik, R (Larik, Rimsha); Bajaber, MA (Bajaber, Majed A.); Shahid, H (Shahid, Hira); Jatoi, AS (Jatoi, Abdul Sattar)

**Source:** ECS JOURNAL OF SOLID STATE SCIENCE AND TECHNOLOGY **Volume:** 11 **Issue:** 8 **Article Number:** 081008 **DOI:** 10.1149/2162-8777/ac861d **Published:** AUG 1 2022

---

#### Record 956 of 1000

**Title:** Glass FRP-Reinforced Geopolymer Based Columns Comprising Hybrid Fibres: Testing and FEA Modelling

**Author(s):** Rashedi, A (Rashedi, Ahmad); Marzouki, R (Marzouki, Riadh); Raza, A (Raza, Ali); Ali, K (Ali, Khawar); Olaiya, NG (Olaiya, Niyi Gideon); Kalimuthu, M (Kalimuthu, Mayandi)

**Source:** POLYMERS **Volume:** 14 **Issue:** 2 **Article Number:** 324 **DOI:** 10.3390/polym14020324 **Published:** JAN 2022

---

#### Record 957 of 1000

**Title:** Ameliorative Effect of Pomegranate Peel Extract (PPE) on Hepatotoxicity Prompted by Iron Oxide Nanoparticles (Fe<sub>2</sub>O<sub>3</sub>-NPs) in Mice

**Author(s):** Abd El-Aziz, YM (Abd El-Aziz, Yasmin M.); Hendam, BM (Hendam, Basma M.); Al-Salmi, FA (Al-Salmi, Fawziah A.); Qahl, SH (Qahl, Safa H.); Althubaiti, EH (Althubaiti, Eman H.); Elsaid, FG (Elsaid, Fahmy G.); Shati, AA

(Shati, Ali A.); Hosny, NM (Hosny, Nasser M.); Fayad, E (Fayad, Eman); Abu Almaaty, AH (Abu Almaaty, Ali H.)

**Source:** NANOMATERIALS **Volume:** 12 **Issue:** 17 **Article Number:** 3074 **DOI:**

10.3390/nano12173074 **Published:** SEP 2022

---

#### **Record 958 of 1000**

**Title:** Diversity and novel mutations in membrane transporters of *Mycobacterium tuberculosis*

**Author(s):** Khan, MT (Khan, Muhammad Tahir); Khan, TA (Khan, Taj Ali); Ahmad, I (Ahmad, Irshad); Muhammad, S (Muhammad, Shabbir); Wei, DQ (Wei, Dong-Qing)

**Source:** BRIEFINGS IN FUNCTIONAL GENOMICS **Volume:** 22 **Issue:** 2 **Pages:** 168-179 **DOI:**

10.1093/bfpg/elac018 **Early Access Date:** JUL 2022 **Published:** APR 13 2023

---

#### **Record 959 of 1000**

**Title:** Simultaneous synthesis of H<sub>2</sub>, O<sub>2</sub>, and N<sub>2</sub> via an innovatory energy system in Coronavirus pandemic time: Design, techno-economic assessment, and optimization approaches

**Author(s):** Wei, HR (Wei, Haoran); Dai, J (Dai, Jie); Maharik, I (Maharik, Ibrahim); Ghasemi, A (Ghasemi, Amir); Mouldi, A (Mouldi, Abir); Brahmia, A (Brahmia, Ameni)

**Source:** INTERNATIONAL JOURNAL OF HYDROGEN ENERGY **Volume:** 47 **Issue:** 62 **Pages:** 26038-

26052 **DOI:** 10.1016/j.ijhydene.2021.12.044 **Published:** JUL 22 2022

---

#### **Record 960 of 1000**

**Title:** Analysis of nano-particle release from the surface of structural concrete members by laser ablation using soft computing

**Author(s):** Su, ZB (Su, Zibing); Wang, R (Wang, Rui); Petkovic, D (Petkovic, Dalibor); Denic, N (Denic, Nebojsa); Marzouki, R (Marzouki, Riadh); Khadimallah, MA (Khadimallah, Mohamed Amine)

**Source:** OPTICS AND LASER TECHNOLOGY **Volume:** 155 **Article Number:** 108401 **DOI:**

10.1016/j.optlastec.2022.108401 **Early Access Date:** JUN 2022 **Published:** NOV 2022

---

#### **Record 961 of 1000**

**Title:** Development of a Sensitive and Selective Optical Sensor for Measuring Ultra-Trace Amounts of Fe(II) and Fe(III) Ions in Water

**Author(s):** Al-Qahtani, SD (Al-Qahtani, Salhah D.); Shah, R (Shah, Reem); Aljuhani, E (Aljuhani, Enas); Al-Ahmed, ZA (Al-Ahmed, Zehbah A.); Habeebullah, TM (Habeebullah, Turki M.); Saad, F (Saad, Fawaz); Shahat, A (Shahat, Ahmed); El-Metwaly, NM (El-Metwaly, Nashwa M.)

**Source:** CHEMISTRYSELECT **Volume:** 7 **Issue:** 6 **Article Number:** e202103402 **DOI:**

10.1002/slct.202103402 **Published:** FEB 11 2022

---

#### **Record 962 of 1000**

**Title:** Entropy analysis of radiative [MgZn<sub>6</sub>Zr-Cu/EO] Casson hybrid nanoliquid with variant thermal conductivity along a stretching surface: Implementing Keller box method

**Author(s):** Jamshed, W (Jamshed, Wasim); Nasir, NAAM (Nasir, Nor Ain Azeany Mohd); Brahmia, A (Brahmia, Ameni); Nisar, KS (Nisar, Kottakkaran Sooppy); Eid, MR (Eid, Mohamed R.)

**Source:** PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE **Volume:** 236 **Issue:** 12 **Pages:** 6501-6520 **DOI:**

10.1177/09544062211065696 **Early Access Date:** MAR 2022 **Published:** JUN 2022

---

#### **Record 963 of 1000**

**Title:** Binder-Free Porous 3D-ZnO Hexagonal-Cubes for Electrochemical Energy Storage Applications

**Author(s):** Abbas, Q (Abbas, Qasim); Wen, LH (Wen, Lianghua); Javed, MS (Javed, Muhammad Sufyan); Ahmad, A (Ahmad, Awais); Nazir, MS (Nazir, Muhammad Shahzad); Assiri, MA (Assiri, Mohammed A.); Imran, M (Imran, Muhammad); Bocchetta, P (Bocchetta, Patrizia)

**Source:** MATERIALS **Volume:** 15 **Issue:** 6 **Article Number:** 2250 **DOI:** 10.3390/ma15062250 **Published:** MAR 2022

---

#### **Record 964 of 1000**

**Title:** Biophysical, Biochemical, and Molecular Docking Investigations of Anti-Glycating, Antioxidant, and Protein Structural Stability Potential of Garlic

**Author(s):** Khan, MWA (Khan, Mohd W. A.); Otaibi, AA (Otaibi, Ahmed A.); Alsukaibi, AKD (Alsukaibi, Abdulmohsen K. D.); Alshammari, EM (Alshammari, Eida M.); Al-Zahrani, SA (Al-Zahrani, Salma A.); Sherwani, S (Sherwani, Subuhi); Khan, WA (Khan, Wahid A.); Saha, R (Saha, Ritika); Verma, SR (Verma, Smita R.); Ahmed, N (Ahmed, Nessar)

**Source:** MOLECULES **Volume:** 27 **Issue:** 6 **Article Number:** 1868 **DOI:** 10.3390/molecules27061868 **Published:** MAR 2022

---

#### Record 965 of 1000

**Title:** Low temperature assisted phase transitions in thermally evaporated Cu<sub>2</sub>Se/Ga<sub>3</sub>Se<sub>2</sub>/In<sub>3</sub>Se<sub>2</sub> multilayer thin film structure: Raman signatures of a pristine chalcopyrite CuIn<sub>x</sub>Ga<sub>1-x</sub>Se<sub>2</sub> structure

**Author(s):** Nelson, PI (Nelson, P. Issac); Mohan, A (Mohan, A.); Kannan, RR (Kannan, R. Rathes); Krishnan, MG (Krishnan, M. Gopala); Moorthy, KS (Moorthy, K. Sathya); Vidhya, B (Vidhya, B.); Rajesh, S (Rajesh, S.); Massoud, EE (Massoud, Ehab El Sayed); Reddy, VRM (Reddy, Vasudeva Reddy Minnam)

**Source:** SURFACES AND INTERFACES **Volume:** 29 **Article Number:** 101800 **DOI:** 10.1016/j.surfin.2022.101800 **Early Access Date:** FEB 2022 **Published:** APR 2022

---

#### Record 966 of 1000

**Title:** Polymer microgels for the stabilization of gold nanoparticles and their application in the catalytic reduction of nitroarenes in aqueous media

**Author(s):** Arif, M (Arif, Muhammad); Shahid, M (Shahid, Muhammad); Irfan, A (Irfan, Ahmad); Nisar, J (Nisar, Jan); Wu, WT (Wu, Weitai); Farooqi, ZH (Farooqi, Zahoor H.); Begum, R (Begum, Robina)

**Source:** RSC ADVANCES **Volume:** 12 **Issue:** 9 **Pages:** 5105-5117 **DOI:** 10.1039/d1ra09380k **Published:** FEB 10 2022

---

#### Record 967 of 1000

**Title:** Advances in synthesis and biological activities of benzotriazole analogues: A micro review

**Author(s):** Bollikolla, HB (Bollikolla, Hari Babu); Boddapati, SNM (Boddapati, S. N. Murthy); Thangamani, S (Thangamani, Swetha); Mutchu, BR (Mutchu, Baby Ramana); Alam, MM (Alam, Mohammed Mujahid); Hussien, M (Hussien, Mohamed); Jonnalagadda, SB (Jonnalagadda, Sreekantha Babu)

**Source:** JOURNAL OF HETEROCYCLIC CHEMISTRY **Volume:** 60 **Issue:** 5 **Pages:** 705-742 **DOI:** 10.1002/jhet.4587 **Early Access Date:** NOV 2022 **Published:** MAY 2023

---

#### Record 968 of 1000

**Title:** Impact of Mo-Doping on the Structural, Optical, and Electrocatalytic Degradation of ZnO Nanoparticles: Novel Approach

**Author(s):** Ganesh, V (Ganesh, Vanga); Hussien, MSA (Hussien, Mai S. A.); Shaik, UP (Shaik, Ummar Pasha); Ade, R (Ade, Ramesh); Mohammed, MI (Mohammed, Mervat, I); AlAbdulaal, TH (AlAbdulaal, Thekayat H.); Zahran, HY (Zahran, Heba Y.); Yahia, IS (Yahia, Ibrahim S.); Abdel-wahab, MS (Abdel-wahab, Mohamed Sh)

**Source:** CRYSTALS **Volume:** 12 **Issue:** 9 **Article Number:** 1239 **DOI:** 10.3390/cryst12091239 **Published:** SEP 2022

---

#### Record 969 of 1000

**Title:** Potential biomedical applications of *Araucaria araucana* as an antispasmodic, bronchodilator, vasodilator, and antiemetic: Involvement of calcium channels

**Author(s):** Khan, AW (Khan, Abdul Waheed); ul Abidin, Z (ul Abidin, Zain); Sahibzada, MUK (Sahibzada, Muhammad Umar Khayam); Faheem, M (Faheem, Muhammad); Qazi, NG (Qazi, Neelam Gul); Alam, M (Alam, Mahboob); Ullah, I (Ullah, Irfan); Uddin, J (Uddin, Jalal); Khan, A (Khan, Ajmal); Al-Harrasi, A (Al-Harrasi, Ahmed)

**Source:** JOURNAL OF ETHNOPHARMACOLOGY **Volume:** 298 **Article Number:** 115651 **DOI:** 10.1016/j.jep.2022.115651 **Early Access Date:** AUG 2022 **Published:** NOV 15 2022

---

#### Record 970 of 1000

**Title:** Design of Distributed Bragg Reflectors for Green Light-Emitting Devices Based on Quantum Dots as Emission Layer

**Author(s):** Shaaban, IE (Shaaban, Iman E.); Samra, AS (Samra, Ahmed S.); Muhammad, S (Muhammad, Shabbir); Wageh, S (Wageh, Swelm)

**Source:** ENERGIES **Volume:** 15 **Issue:** 3 **Article Number:** 1237 **DOI:** 10.3390/en15031237 **Published:** FEB 2022

---

### Record 971 of 1000

**Title:** Outstanding Performance of a New Exfoliated Clay Impregnated with Rutile TiO<sub>2</sub> Nanoparticles Composite for Dyes Adsorption: Experimental and Theoretical Studies

**Author(s):** Ahmed, IA (Ahmed, Inas A.); Seliem, MK (Seliem, Moaaz K.); Lima, EC (Lima, Eder C.); Badawi, M (Badawi, Michael); Li, ZC (Li, Zichao); Bonilla-Petriciolet, A (Bonilla-Petriciolet, Adrian); Anastopoulos, I (Anastopoulos, Ioannis)

**Source:** COATINGS **Volume:** 12 **Issue:** 1 **Article Number:** 22 **DOI:** 10.3390/coatings12010022 **Published:** JAN 2022

---

### Record 972 of 1000

**Title:** Functionalization of poly(glycidylmethacrylate) with iminodiacetate and imino phosphonate groups for enhanced sorption of neodymium-sorption performance and molecular modeling

**Author(s):** Galhoum, AA (Galhoum, Ahmed A.); Akashi, T (Akashi, Takaya); Linnolahti, M (Linnolahti, Mikko); Hirvi, JT (Hirvi, Janne T.); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Kalam, A (Kalam, Abul); Guibal, E (Guibal, Eric)

**Source:** REACTIVE & FUNCTIONAL POLYMERS **Volume:** 180 **Article Number:** 105389 **DOI:** 10.1016/j.reactfunctpolym.2022.105389 **Early Access Date:** SEP 2022 **Published:** NOV 2022

---

### Record 973 of 1000

**Title:** Curcumin-Injected *Musca domestica* Larval Hemolymph: Cecropin Upregulation and Potential Anticancer Effect

**Author(s):** Mahmoud, S (Mahmoud, Shaymaa); El-Nabi, SH (Hassab El-Nabi, Sobhy); Hawash, A (Hawash, Asmaa); El-Seedi, HR (El-Seedi, Hesham R.); Khalifa, SAM (Khalifa, Shaden A. M.); Ullah, S (Ullah, Sami); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); El-Garawani, IM (El-Garawani, Islam M.)

**Source:** MOLECULES **Volume:** 27 **Issue:** 5 **Article Number:** 1570 **DOI:** 10.3390/molecules27051570 **Published:** MAR 2022

---

### Record 974 of 1000

**Title:** Noticeably Improved Visible Light Photocatalytic Activity of TiO<sub>2</sub> Nanoparticles through co-Doping of Activated Charcoal and Fe Towards Methylene Blue Degradation

**Author(s):** Girija, R (Girija, Ramanujam); Mary, S (Mary, Stella); Balakrishnan, G (Balakrishnan, G.); Mariappan, SM (Mariappan, Sivalingam M.); Hamdy, MS (Hamdy, Mohamed S.); Shkir, M (Shkir, Mohd)

**Source:** CHEMISTRYSELECT **Volume:** 7 **Issue:** 5 **Article Number:** e202103614 **DOI:** 10.1002/slct.202103614 **Published:** FEB 4 2022

---

### Record 975 of 1000

**Title:** Immobilized Au nanoparticles on chitosan-biguanidine modified Fe<sub>3</sub>O<sub>4</sub> nanoparticles and investigation of its anti-human lung cancer activity

**Author(s):** Xue, Y (Xue, Yang); Karmakar, B (Karmakar, Bikash); Ke, JL (Ke, Jianlin); Ibrahim, HA (Ibrahim, Hala A.); Awwad, NS (Awwad, Nasser S.); El-kott, AF (El-kott, Attalla F.)

**Source:** JOURNAL OF SAUDI CHEMICAL SOCIETY **Volume:** 26 **Issue:** 1 **Article Number:** 101391 **DOI:** 10.1016/j.jscs.2021.101391 **Published:** JAN 2022

---

### Record 976 of 1000

**Title:** Geospatial Evaluation of Cropping Pattern and Cropping Intensity Using Multi Temporal Harmonized Product of Sentinel-2 Dataset on Google Earth Engine

**Author(s):** Ghosh, T (Ghosh, Tathagata); Gacem, A (Gacem, Amel); Alsufyani, T (Alsufyani, Taghreed); Alam, MM (Alam, M. Mujahid); Yadav, KK (Yadav, Krishna Kumar); Amanullah, M (Amanullah, Mohammed); Cabral-Pinto, MMS (Cabral-Pinto, Marina M. S.)

**Source:** APPLIED SCIENCES-BASEL **Volume:** 12 **Issue:** 24 **Article Number:** 12583 **DOI:** 10.3390/app122412583 **Published:** DEC 2022

---

### Record 977 of 1000

**Title:** Examining computationally the structural, elastic, optical, and electronic properties of CaQCl<sub>3</sub> (Q = Li and K) chloroperovskites using DFT framework

**Author(s):** Husain, M (Husain, Mudasser); Rahman, N (Rahman, Nasir); Albalawi, H (Albalawi, Hind); Ezzine, S (Ezzine, Safa); Amami, M (Amami, Mongi); Zaman, T (Zaman, Tahir); Rehman, AU (Rehman, Altaf Ur); Sohail, M (Sohail, Mohammad); Khan, R (Khan, Rajwali); Khan, AA (Khan, Abid Ali); Tahir (Tahir); Khan, A (Khan, Aurangzeb)

### Record 978 of 1000

**Title:** Silver doped NiAl<sub>2</sub>O<sub>4</sub> nanoplates anchored onto the 2D graphitic carbon nitride sheets for high-performance supercapacitor applications

**Author(s):** Irshad, A (Irshad, Amna); Somaily, HH (Somaily, H. H.); Zulfiqar, S (Zulfiqar, Sonia); Warsi, MF (Warsi, Muhammad Farooq); Din, MI (Din, Muhammad Imran); Chaudhary, K (Chaudhary, Khadija); Shahid, M (Shahid, Muhammad)

**Source:** JOURNAL OF ALLOYS AND COMPOUNDS Volume: 934 Article Number: 167705 DOI: 10.1016/j.jallcom.2022.167705 Early Access Date: NOV 2022 Published: FEB 10 2023

---

### Record 979 of 1000

**Title:** Characteristic Aspects of Uranium(VI) Adsorption Utilizing Nano-Silica/Chitosan from Wastewater Solution

**Author(s):** Sakr, AK (Sakr, Ahmed K.); Aal, MMA (Aal, Mostafa M. Abdel); Abd El-Rahem, KA (Abd El-Rahem, Khaled A.); Allam, EM (Allam, Eman M.); Dayem, SMA (Dayem, Samia M. Abdel); Elshehy, EA (Elshehy, Emad A.); Hanfi, MY (Hanfi, Mohamed Y.); Alqahtani, MS (Alqahtani, Mohammed S.); Cheira, MF (Cheira, Mohamed F.)

**Source:** NANOMATERIALS Volume: 12 Issue: 21 Article Number: 3866 DOI: 10.3390/nano12213866 Published: NOV 2022

---

### Record 980 of 1000

**Title:** Development of nanocomposite based on hydroxyapatite/hematite/graphene oxide for medical applications

**Author(s):** Awwad, NS (Awwad, Nasser S.); Eed, EM (Eed, Emad M.); El Askary, A (El Askary, Ahmad); Ibrahim, HA (Ibrahim, Hala A.); Moustapha, ME (Moustapha, Moustapha E.); Ahmed, MK (Ahmed, M. K.)

**Source:** JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T Volume: 18 Pages: 4340-4352 DOI: 10.1016/j.jmrt.2022.03.129 Early Access Date: MAY 2022 Published: MAY-JUN 2022

---

### Record 981 of 1000

**Title:** A DFT approach towards therapeutic potential of phosphorene as a novel carrier for the delivery of felodipine (cardiovascular drug)

**Author(s):** Jaffar, K (Jaffar, Kinza); Riaz, S (Riaz, Saima); Afzal, QQ (Afzal, Qaba Qusain); Perveen, M (Perveen, Mehvish); Tahir, MA (Tahir, Muhammad Asif); Nazir, S (Nazir, Sidra); Iqbal, J (Iqbal, Javed); Alrowaili, ZA (Alrowaili, Z. A.); ben Ahmed, S (ben Ahmed, Samia); Al-Buriahi, MS (Al-Buriahi, M. S.)

**Source:** COMPUTATIONAL AND THEORETICAL CHEMISTRY Volume: 1212 Article Number: 113724 DOI: 10.1016/j.comptc.2022.113724 Early Access Date: MAY 2022 Published: JUN 2022

---

### Record 982 of 1000

**Title:** Tailoring of new Ni(II), Hg(II) and UO<sub>2</sub>(II)-hydrazide complexes: characterization, studies *in-vitro* and *in-silico* as well as the Hartree-Fock modeling

**Author(s):** Qurban, J (Qurban, Jihan); Al-Qahtani, SD (Al-Qahtani, Salhah D.); Alsoliemy, A (Alsoliemy, Amerah); Alharbi, A (Alharbi, Arwa); Alkhamis, K (Alkhamis, Kholood); Al-nami, SY (Al-nami, Samar Y.); Zaky, R (Zaky, Rania); El-Metwaly, NM (El-Metwaly, Nashwa M.)

**Source:** JOURNAL OF SAUDI CHEMICAL SOCIETY Volume: 26 Issue: 3 Article Number: 101477 DOI: 10.1016/j.jscs.2022.101477 Published: MAY 2022

---

### Record 983 of 1000

**Title:** Thermal-Induced Effects on the Structural and Photocatalytic Properties of Nickel Oxide Nanoparticles for Indigo Carmine Dye Removal

**Author(s):** Abd-Elnaiem, AM (Abd-Elnaiem, Alaa M.); Hakamy, A (Hakamy, A.); Ibrahim, IA (Ibrahim, Ibrahim A.); Ali, AM (Ali, Atif M.); Mohamed, WAA (Mohamed, Walied A. A.); Zeid, EFA (Zeid, E. F. Abo)

**Source:** JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS Volume: 32 Issue: 6 Pages: 2209-2220 DOI: 10.1007/s10904-022-02277-1 Early Access Date: MAR 2022 Published: JUN 2022

---

### Record 984 of 1000

**Title:** Drug Delivery Challenges and Current Progress in Nanocarrier-Based Ocular Therapeutic System

**Author(s):** Akhter, MH (Akhter, Md Habban); Ahmad, I (Ahmad, Irfan); Alshahrani, MY (Alshahrani, Mohammad Y.); Al-Harbi, AI (Al-Harbi, Alhanouf I.); Khalilullah, H (Khalilullah, Habibullah); Afzal, O (Afzal, Obaid); Altamimi, ASA

(Altamimi, Abdulmalik S. A.); Ullah, SNMN (Ullah, Shehla Nasar Mir Najib); Ojha, A (Ojha, Abhijeet); Karim, S (Karim, Shahid)

**Source:** GELS **Volume:** 8 **Issue:** 2 **Article Number:** 82 **DOI:** 10.3390/gels8020082 **Published:** FEB 2022

---

#### **Record 985 of 1000**

**Title:** Construction of direct FeMoO<sub>4</sub>/g-C<sub>3</sub>N<sub>4</sub>-2D/2D Z-scheme heterojunction with enhanced photocatalytic treatment of textile wastewater to eliminate the toxic effect in marine environment

**Author(s):** Arumugam, S (Arumugam, Swaminathan); Bavani, T (Bavani, Thirugnanam); Selvaraj, M (Selvaraj, Manickam); Al-Shehri, BM (Al-Shehri, Badria M.); Preeyanghaa, M (Preeyanghaa, Mani); Jung, SO (Jung, Sieon); Theerthagiri, J (Theerthagiri, Jayaraman); Neppolian, B (Neppolian, Bernardshaw); Murugesan, S (Murugesan, Sepperumal); Madhavan, J (Madhavan, Jagannathan); Choi, MY (Choi, Myong Yong)

**Source:** CHEMOSPHERE **Volume:** 313 **Article Number:** 137552 **DOI:** 10.1016/j.chemosphere.2022.137552 **Early Access Date:** DEC 2022 **Published:** FEB 2023

---

#### **Record 986 of 1000**

**Title:** High pressure CO<sub>2</sub> adsorption onto Malaysian Mukah-Balingian coals: Adsorption isotherms, thermodynamic and kinetic investigations

**Author(s):** Abunowara, M (Abunowara, Mustafa); Bustam, MA (Bustam, Mohamad Azmi); Sufian, S (Sufian, Suriati); Babar, M (Babar, Muhammad); Eldemerdash, U (Eldemerdash, Usama); Mukhtar, A (Mukhtar, Ahmad); Ullah, S (Ullah, Sami); Assiri, MA (Assiri, Mohammed Ali); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Lam, SS (Lam, Su Shiung)

**Source:** ENVIRONMENTAL RESEARCH **Volume:** 218 **Article Number:** 114905 **DOI:** 10.1016/j.envres.2022.114905 **Early Access Date:** DEC 2022 **Published:** FEB 1 2023

---

#### **Record 987 of 1000**

**Title:** Hydrothermal Synthesis of ZnO-Doped Poly-2-(4-Fluorophenyl)-2-Oxoethyl-2-Methylprop-2-Enoate Nanocomposites for Electronic Devices

**Author(s):** Erol, I (Erol, I); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Tataroglu, A (Tataroglu, A.); Dere, A (Dere, A.); Al-Ghamdi, AA (Al-Ghamdi, Ahmed A.); Yakuphanoglu, F (Yakuphanoglu, F.)

**Source:** JOURNAL OF MACROMOLECULAR SCIENCE PART B-PHYSICS **Volume:** 61 **Issue:** 7-8 **Pages:** 958-970 **DOI:** 10.1080/00222348.2022.2122310 **Early Access Date:** SEP 2022 **Published:** AUG 3 2022

---

#### **Record 988 of 1000**

**Title:** Novel fluorescent nanofibrous polyether template developed by S<sub>N</sub>Ar polymerization of fluoroaryl-containing 1, 3, 4-oxadiazole: Photophysical properties, mesogenic phases and self-assembly

**Author(s):** Khattab, TA (Khattab, Tawfik A.); El-Naggar, ME (El-Naggar, Mehrez E.); Al-Sehemi, AG (Al-Sehemi, Abdullah G.); Al-Ghamdi, AA (Al-Ghamdi, Ahmed A.); Taleb, MFA (Taleb, Manal F. Abou)

**Source:** EUROPEAN POLYMER JOURNAL **Volume:** 173 **Article Number:** 111270 **DOI:** 10.1016/j.eurpolymj.2022.111270 **Early Access Date:** MAY 2022 **Published:** JUN 15 2022

---

#### **Record 989 of 1000**

**Title:** Enhanced Plasmon Based Ag and Au Nanosystems and Their Improved Biomedical Impacts

**Author(s):** Inwati, GK (Inwati, Gajendra Kumar); Yadav, VK (Yadav, Virendra Kumar); Ali, IH (Ali, Ismat Hassan); Kakodiya, SD (Kakodiya, Shakti Devi); Choudhary, N (Choudhary, Nisha); Makwana, BA (Makwana, Bharat A.); Lal, C (Lal, Chhagan); Yadav, KK (Yadav, Krishna Kumar); Singh, B (Singh, Bijendra); Islam, S (Islam, Saiful); Cavalu, S (Cavalu, Simona)

**Source:** CRYSTALS **Volume:** 12 **Issue:** 5 **Article Number:** 589 **DOI:** 10.3390/cryst12050589 **Published:** MAY 2022

---

#### **Record 990 of 1000**

**Title:** Biogenic plant mediated synthesis of monometallic zinc and bimetallic Copper/Zinc nanoparticles and their dye adsorption and antioxidant studies

**Author(s):** Riaz, T (Riaz, Tauheeda); Assey, N (Assey, Nabila); Javed, M (Javed, Mohsin); Shahzadi, T (Shahzadi, Tayyaba); Zaib, M (Zaib, Maria); Shahid, S (Shahid, Sammia); Iqbal, S (Iqbal, Shahid); Elkaeed, EB (Elkaeed, Eslam B.); Alzhrani, RM (Alzhrani, Rami M.); Alsaab, HO (Alsaab, Hashem O.); Awwad, NS (Awwad, Nasser S.); Ibrahim, HA (Ibrahim, Hala A.); Fatima, U (Fatima, Urooj)

**Source:** INORGANIC CHEMISTRY COMMUNICATIONS **Volume:** 140 **Article Number:** 109449 **DOI:** 10.1016/j.inoche.2022.109449 **Early Access Date:** APR 2022 **Published:** JUN 2022

---

### Record 991 of 1000

**Title:** The Vital Role of TiO<sub>2</sub> on the Bioglass System P<sub>2</sub>O<sub>5</sub>-CaO-B<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub>-K<sub>2</sub>O for Optics and Shielding Characteristics

**Author(s):** Shaaban, KS (Shaaban, Kh. S.); Alyousef, HA (Alyousef, Haifa A.); Alotaibi, BM (Alotaibi, B. M.); Abd El-Rehim, AF (Abd El-Rehim, A. F.); Wahab, EAA (Wahab, E. A. Abdel)

**Source:** JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS **Volume:** 32 **Issue:** 11 **Pages:** 4295-4303 **DOI:** 10.1007/s10904-022-02446-2 **Early Access Date:** JUL 2022 **Published:** NOV 2022

---

### Record 992 of 1000

**Title:** Fabrication of lithium borosilicate glasses containing Fe<sub>2</sub>O<sub>3</sub> and ZnO for FT-IR, UV-Vis-NIR, DTA, and highly efficient shield

**Author(s):** Shaaban, KS (Shaaban, Kh S.); Alotaibi, BM (Alotaibi, B. M.); Alharbiy, N (Alharbiy, Nuha); Abd El-Rehim, AF (Abd El-Rehim, A. F.)

**Source:** APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING **Volume:** 128 **Issue:** 4 **Article Number:** 333 **DOI:** 10.1007/s00339-022-05474-4 **Published:** APR 2022

---

### Record 993 of 1000

**Title:** Formulation and characterization of a novel anti-human endometrial cancer supplement by gold nanoparticles green-synthesized using *Spinacia oleracea* L. Leaf aqueous extract

**Author(s):** Zhu, B (Zhu, Bing); Xie, N (Xie, Na); Yue, LL (Yue, Lulu); Wang, K (Wang, Kun); Bani-Fwaz, MZ (Bani-Fwaz, Mutasem Z.); Osman, HEH (Osman, Hosam-Eldin Hussein); El-kott, AF (El-kott, Attalla F.); Bai, XL (Bai, Xuelian)

**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 15 **Issue:** 3 **Article Number:** 103576 **DOI:** 10.1016/j.arabjc.2021.103576 **Published:** MAR 2022

---

### Record 994 of 1000

**Title:** A comprehensive analysis to assess the impact of nano MoS<sub>2</sub> on the wear characteristic of Al-TiB<sub>2</sub>-Gr composite

**Author(s):** Chenrayan, V (Chenrayan, Venkatesh); Vaishnav, V (Vaishnav, V.); Shahapurkar, K (Shahapurkar, Kiran); Tirth, V (Tirth, Vineet); Alarifi, IM (Alarifi, Ibrahim M.); Manivannan, C (Manivannan, Chandru); Soudagar, MEM (Soudagar, Manzoore Elahi M.)

**Source:** MATERIALS RESEARCH EXPRESS **Volume:** 9 **Issue:** 1 **Article Number:** 016525 **DOI:** 10.1088/2053-1591/ac4c18 **Published:** JAN 1 2022

---

### Record 995 of 1000

**Title:** Phosphorus co-doped reduced graphene oxide embedded flower-like CoS/CoS<sub>2</sub> heterostructure as an efficient electrocatalyst for hydrogen evolution reaction in acidic media

**Author(s):** Balaji, D (Balaji, Dhandapani); Madhavan, J (Madhavan, Jagannathan); Preeyanghaa, M (Preeyanghaa, Mani); Hussien, M (Hussien, Mohamed); Selvaraj, M (Selvaraj, Manickam); Murugesan, S (Murugesan, Sepperumal); Neppolian, B (Neppolian, Bernaurdshaw)

**Source:** JOURNAL OF ALLOYS AND COMPOUNDS **Volume:** 907 **Article Number:** 164506 **DOI:** 10.1016/j.jallcom.2022.164506 **Early Access Date:** MAR 2022 **Published:** JUN 25 2022

---

### Record 996 of 1000

**Title:** IOT Based Smart Wastewater Treatment Model for Industry 4.0 Using Artificial Intelligence

**Author(s):** Narendar, SD (Narendar, Singh D.); Murugamani, C (Murugamani, C.); Kshirsagar, PR (Kshirsagar, Pravin R.); Tirth, V (Tirth, Vineet); Islam, S (Islam, Saiful); Qaiyum, S (Qaiyum, Sana); Suneela, B (Suneela, B.); Al Duhayyim, M (Al Duhayyim, Mesfer); Waji, YA (Waji, Yosef Asrat)

**Source:** SCIENTIFIC PROGRAMMING **Volume:** 2022 **Article Number:** 5134013 **DOI:** 10.1155/2022/5134013 **Published:** FEB 25 2022

---

### Record 997 of 1000

**Title:** Experimental-Theoretical approach for determination of Metformin solubility in supercritical carbon dioxide: Thermodynamic modeling

**Author(s):** Venkatesan, K (Venkatesan, Kumar); Alshahrani, SM (Alshahrani, Saad M.); Alsubaiyel, AM (Alsubaiyel, Amal M.); Abduljabbar, MH (Abduljabbar, Maram H.); Alosaimi, ME (Alosaimi, Manal E.); Grishina, M (Grishina, Maria); Shirazian, S (Shirazian, Saeed)

**Source:** CASE STUDIES IN THERMAL ENGINEERING **Volume:** 41 **Article Number:** 102649 **DOI:** 10.1016/j.csite.2022.102649 **Early Access Date:** DEC 2022 **Published:** JAN 2023

---

**Record 998 of 1000**

**Title:** Application of novel Fe<sub>3</sub>O<sub>4</sub>/Zn-metal organic framework magnetic nanostructures as an antimicrobial agent and magnetic nanocatalyst in the synthesis of heterocyclic compounds

**Author(s):** Bashar, BS (Bashar, Bashar S.); Kareem, HA (Kareem, Hawraa A.); Hasan, YM (Hasan, Yaser Mohamed); Ahmad, N (Ahmad, Nafis); Alshehri, AM (Alshehri, A. M.); Al-Majdi, K (Al-Majdi, Kadhum); Hadrawi, SK (Hadrawi, Salema K.); AL Kubaisy, MMR (AL Kubaisy, Munthir Mohammed Radhy); Qasim, MT (Qasim, Maytham T.)

**Source:** FRONTIERS IN CHEMISTRY **Volume:** 10 **Article Number:** 1014731 **DOI:** 10.3389/fchem.2022.1014731 **Published:** OCT 10 2022

---

**Record 999 of 1000**

**Title:** Design, Synthesis, In Silico Testing, and In Vitro Evaluation of Thiazolidinone-Based Benzothiazole Derivatives as Inhibitors of  $\alpha$ -Amylase and  $\alpha$ -Glucosidase

**Author(s):** Khan, S (Khan, Shoaib); Iqbal, S (Iqbal, Shahid); Khan, M (Khan, Marwa); Rehman, W (Rehman, Wajid); Shah, M (Shah, Mazloom); Hussain, R (Hussain, Rafaqat); Rasheed, L (Rasheed, Liaqat); Khan, Y (Khan, Yousaf); Dera, AA (Dera, Aayed A.); Pashameah, RA (Pashameah, Rami Adel); Alzahrani, E (Alzahrani, Eman); Farouk, AE (Farouk, Abd-ElAzim)

**Source:** PHARMACEUTICALS **Volume:** 15 **Issue:** 10 **Article Number:** 1164 **DOI:** 10.3390/ph15101164 **Published:** OCT 2022

---

**Record 1000 of 1000**

**Title:** Harvesting enhanced electrochemical performance of mixed structured nickel cobalt phosphate for energy storage application

**Author(s):** Numan, A (Numan, Arshid); Bibi, F (Bibi, Faiza); Omar, FS (Omar, Fatin Saiha); Ullah, S (Ullah, Sami); Al-Hartomy, OA (Al-Hartomy, Omar A.); Khalid, M (Khalid, Mohammad)

**Source:** JOURNAL OF ALLOYS AND COMPOUNDS **Volume:** 927 **Article Number:** 167031 **DOI:** 10.1016/j.jallcom.2022.167031 **Early Access Date:** SEP 2022 **Published:** DEC 15 2022

---

End of File