

Yunusa Umar

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

631
citations

623188

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h-index

676716

22
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51
all docs

51
docs citations

51
times ranked

617
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Development and characterization of polyvinyl alcohol filled with date palm midrib powder. Journal of Thermoplastic Composite Materials, 2023, 36, 1437-1449. | 2.6 | 1 |
| 2 | Analysis of the Structures, Electronic, and Spectroscopic Properties of Piperidine-Based Analgesic Drugs Carfentanil and Acetylfentanyl. Arabian Journal for Science and Engineering, 2022, 47, 511-522. | 1.7 | 4 |
| 3 | Polymeric Materials as Potential Inhibitors Against SARS-CoV-2. Journal of Polymers and the Environment, 2022, 30, 1244-1263. | 2.4 | 11 |
| 4 | Investigation of the Molecular Structures, Electronic Properties and Vibrational Spectrum of Trifluoroacetophenone Using Density Functional Theory. Journal of Applied Hematology, 2022, 19, . | 0.1 | 1 |
| 5 | Experimental (FT-IR, FT-Raman, and NMR) and DFT studies of the structures and spectral properties of diphenylcarbazone and diphenylthiocarbazone. Journal of Molecular Structure, 2022, 1264, 133230. | 1.8 | 3 |
| 6 | Fabrication and characterization of composites from recycled polyethylene and date palm seed powder. Journal of Thermoplastic Composite Materials, 2021, 34, 316-327. | 2.6 | 6 |
| 7 | Mild sulfonated polyether ketone ether ketone ketone incorporated polysulfone membranes for microbial fuel cell application. Journal of Applied Polymer Science, 2021, 138, 50216. | 1.3 | 6 |
| 8 | A comparative DFT study of tetracyanoquinodimethane and its difluoro and tetrafluoro analogs. Journal of the Indian Chemical Society, 2021, 98, 100032. | 1.3 | 6 |
| 9 | Application and Suitability of Polymeric Materials as Insulators in Electrical Equipment. Energies, 2021, 14, 2758. | 1.6 | 23 |
| 10 | Theoretical Study on Geometry and Intramolecular Hydrogen Bonding in 8-Hydroxy-1-Naphthaldehyde. Bulletin of the Korean Chemical Society, 2021, 42, 1310-1318. | 1.0 | 2 |
| 11 | DFT STUDY OF THE STRUCTURE, CONFORMATIONAL PROFILE AND THE VIBRATIONAL ANALYSIS OF 2-FURANCARBOTHIALDEHYDE AND 3-FURANCARBOTHIALDEHYDE. Journal of Structural Chemistry, 2021, 62, 1485-1497. | 0.3 | 0 |
| 12 | Theoretical investigation of the molecular structure, vibrational spectra, and molecular docking of tramadol using density functional theory. Journal of the Chinese Chemical Society, 2020, 67, 62-71. | 0.8 | 10 |
| 13 | Preparation of pH-Indicative and Flame-Retardant Nanocomposite Films for Smart Packaging Applications. Sensors, 2020, 20, 5462. | 2.1 | 13 |
| 14 | Theoretical studies of the rotational and tautomeric states, electronic and spectroscopic properties of favipiravir and its structural analogues: a potential drug for the treatment of COVID-19. Journal of Taibah University for Science, 2020, 14, 1613-1625. | 1.1 | 15 |
| 15 | Isolation and characterization of microcrystalline cellulose from date seeds (Phoenix dactylifera L.). International Journal of Biological Macromolecules, 2020, 155, 730-739. | 3.6 | 86 |
| 16 | DFT/QTAIM analysis of favipiravir adsorption on pristine and silicon doped C20 fullerenes. Main Group Metal Chemistry, 2019, 42, 143-149. | 0.6 | 29 |
| 17 | Conformational Stabilities, Rotational Barriers, and Vibrational Spectra of 2-Pyrrolicarboxaldehyde and 3-Pyrrolicarboxaldehyde Calculated Using Density Functional Theory. Journal of Structural Chemistry, 2019, 60, 186-197. | 0.3 | 7 |
| 18 | Experimental FTIR and theoretical investigation of the molecular structure and vibrational spectra of acetanilide using DFT and dispersion correction to DFT. Journal of Theoretical and Computational Chemistry, 2019, 18, 1950009. | 1.8 | 9 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Theoretical study of the syn- and anti-conformers of 2,2- \hat{E}^1 -bifuran derivatives: rotational barrier and solvent effect. <i>Physics and Chemistry of Liquids</i> , 2019, 57, 174-183. | 0.4 | 3 |
| 20 | Optical and pH-Responsive Nanocomposite Film for Food Packaging Application. <i>Proceedings (mdpi)</i> , 2019, 42, . | 0.2 | 0 |
| 21 | Polymeric Materials for Conversion of Electromagnetic Waves from the Sun to Electric Power. <i>Polymers</i> , 2018, 10, 307. | 2.0 | 9 |
| 22 | HEADSPACE GAS CHROMATOGRAPHY FOR THE DETERMINATION OF RESIDUAL SOLVENTS IN METFORMIN HYDROCHLORIDE AND HYDROCHLOROTHIAZIDE. <i>Journal of Applied Hematology</i> , 2018, 16, . | 0.1 | 1 |
| 23 | Theoretical Study of Mono-terminal Functionalized Oligo Acetylene [C _n H _n +2X] (n=3-5, X= -COOH, and) Tj ETQq1 1 0.784314 rgBT /Qv 0.1 | 0.1 | 0 |
| 24 | Optical nonlinearity of D-A- \hat{E} -D and D-A- \hat{E} -A type of new chalcones for potential applications in optical limiting and density functional theory studies. <i>Journal of Molecular Structure</i> , 2017, 1143, 306-317. | 1.8 | 22 |
| 25 | DFT Study of the Molecular Structure, Conformational Preference, HOMO, LUMO, and Vibrational Analysis of 2-, and 3-Furoyl Chloride. <i>Journal of Solution Chemistry</i> , 2017, 46, 741-758. | 0.6 | 17 |
| 26 | Synthesis, crystal structure, experimental and theoretical investigations of 3-(4-ethoxy-3-methoxyphenyl)-1-phenylprop-2-en-1-one. <i>Journal of Molecular Structure</i> , 2017, 1127, 742-750. | 1.8 | 8 |
| 27 | A Flexible Optical pH Sensor Based on Polysulfone Membranes Coated with pH-Responsive Polyaniline Nanofibers. <i>Sensors</i> , 2016, 16, 986. | 2.1 | 49 |
| 28 | Density functional theory studies of conformational stabilities and rotational barriers of 2- and 3-thiophenecarboxaldehydes. <i>Journal of Structural Chemistry</i> , 2016, 57, 1545-1553. | 0.3 | 12 |
| 29 | Internal Rotation of 2-, 3- and 4-Pyridine Carboxaldehydes and Their Chalcogen Analogues (S and Se) in the Gas and Solution Phases: A Theoretical Investigation. <i>Journal of Solution Chemistry</i> , 2016, 45, 1195-1212. | 0.6 | 9 |
| 30 | Conformational and Vibrational Analysis of 2-, 3- and 4-Pyridinecarbonyl Chloride Using DFT. <i>Zeitschrift Fur Physikalische Chemie</i> , 2016, 230, 867-882. | 1.4 | 10 |
| 31 | Theoretical Investigation of the Conformational Stabilities, Internal Rotations, and Vibrational Infrared Spectra of 2-Formylpyridine, 3-Formylpyridine, and 4-Formylpyridine. , 2016, , 139-154. | | 1 |
| 32 | Density functional theory study of the rotational barriers, conformational preference, and vibrational spectra of 2-formylfuran and 3-formylfuran. <i>Journal of Structural Chemistry</i> , 2015, 56, 1305-1312. | 0.3 | 13 |
| 33 | Polymer Basics: Classroom Activities Manipulating Paper Clips To Introduce the Structures and Properties of Polymers. <i>Journal of Chemical Education</i> , 2014, 91, 1667-1670. | 1.1 | 7 |
| 34 | Rheological behavior of associating ionic polymers based on diallylammonium salts containing single-, twin-, and triple-tailed hydrophobes. <i>European Polymer Journal</i> , 2010, 46, 1063-1073. | 2.6 | 13 |
| 35 | Rheological behavior of pH- \hat{E} -responsive associating ionic polymers of diallylammonium salts and sulfur dioxide. <i>Journal of Applied Polymer Science</i> , 2009, 111, 125-131. | 1.3 | 2 |
| 36 | Density functional theory calculations of the internal rotations and vibrational spectra of 2-, 3- and 4-formyl pyridine. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009, 71, 1907-1913. | 2.0 | 14 |

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|----|--|-----|-----------|
| 37 | Synthesis and viscosity of hydrophobically modified polymers containing dendritic segments. <i>Journal of Applied Polymer Science</i> , 2008, 109, 1781-1792. | 1.3 | 7 |
| 38 | Ab initio and DFT studies of the molecular structures and vibrational spectra of succinonitrile. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2007, 66, 1133-1140. | 2.0 | 19 |
| 39 | Synthesis and comparative solution properties of single-, twin-, and triple-tailed associating ionic polymers based on diallylammonium salts. <i>Journal of Polymer Science Part A</i> , 2006, 44, 5480-5494. | 2.5 | 23 |
| 40 | Theoretical investigation of the structure and vibrational spectra of carbamoyl azide. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006, 64, 568-573. | 2.0 | 8 |
| 41 | The effects of charge densities on the associative properties of a pH-responsive hydrophobically modified sulfobetaine/sulfur dioxide terpolymer. <i>Polymer</i> , 2005, 46, 10709-10717. | 1.8 | 20 |
| 42 | Ab initio and density functional calculations of the structures and vibrational spectra of formaldoxime. <i>Computational and Theoretical Chemistry</i> , 2005, 725, 157-161. | 1.5 | 16 |
| 43 | Theoretical investigation of the structure and vibrational spectra of diethynyl ketone. <i>Computational and Theoretical Chemistry</i> , 2005, 728, 111-115. | 1.5 | 4 |
| 44 | Influence of hydrophobe content and salt concentration on dilute solution behaviour of hydrophobically modified ionic polymers from diallylammonium salts/sulfur dioxide cyclocopolymerization: Light scattering and fluorescence spectroscopy. <i>European Polymer Journal</i> , 2005, 41, 2224-2231. | 2.6 | 5 |
| 45 | Amphiphilic cycloterpolymers of diallyldimethylammonium chloride, diallyloctadecylammonium chloride, and sulfur dioxide. <i>Journal of Applied Polymer Science</i> , 2005, 97, 1298-1306. | 1.3 | 10 |
| 46 | The effects of zwitterionic and anionic charge densities in polymer chains on the viscosity behavior of a pH-responsive hydrophobically modified ionic polymer. <i>Journal of Applied Polymer Science</i> , 2005, 98, 1404-1411. | 1.3 | 15 |
| 47 | Synthesis and solution properties of a new poly(electrolyte-zwitterion). <i>Polymer</i> , 2004, 45, 125-132. | 1.8 | 17 |
| 48 | Synthesis and solution properties of hydrophobically associating ionic polymers made from diallylammonium salts/sulfur dioxide cyclocopolymerization. <i>Polymer</i> , 2004, 45, 3651-3661. | 1.8 | 40 |
| 49 | Electrical Properties of Different Polymeric Materials and their Applications: The Influence of Electric Field. , 0, , . | | 15 |
| 50 | Electrically Conductive Polyacrylamide-Polyaniline Superabsorbing Polymer Hydrogels. , 0, , . | | 7 |
| 51 | Polyaniline-Coated Polysulfone Membranes as Flexible Optical pH Sensors. , 0, , . | | 3 |