

# Yunusa Umar

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6686790/publications.pdf>

Version: 2024-02-01

51  
papers

631  
citations

623188

14  
h-index

676716

22  
g-index

51  
all docs

51  
docs citations

51  
times ranked

617  
citing authors

#	ARTICLE	IF	CITATIONS
1	Isolation and characterization of microcrystalline cellulose from date seeds ( <i>Phoenix dactylifera</i> L.). <i>International Journal of Biological Macromolecules</i> , 2020, 155, 730-739.	3.6	86
2	A Flexible Optical pH Sensor Based on Polysulfone Membranes Coated with pH-Responsive Polyaniline Nanofibers. <i>Sensors</i> , 2016, 16, 986.	2.1	49
3	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
4	DFT/QTAIM analysis of favipiravir adsorption on pristine and silicon doped C20 fullerenes. <i>Main Group Metal Chemistry</i> , 2019, 42, 143-149.	0.6	29
5	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
6	Application and Suitability of Polymeric Materials as Insulators in Electrical Equipment. <i>Energies</i> , 2021, 14, 2758.	1.6	23
7	Optical nonlinearity of D-A- $\pi$ -D and D-A- $\pi$ -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
8	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
9	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
10	Synthesis and solution properties of a new poly(electrolyte-zwitterion). <i>Polymer</i> , 2004, 45, 125-132.	1.8	17
11	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
12	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
13	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
14	Electrical Properties of Different Polymeric Materials and their Applications: The Influence of Electric Field. , 0, , .		15
15	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. <i>Journal of Taibah University for Science</i> , 2020, 14, 1613-1625.	1.1	15
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Preparation of pH-Indicative and Flame-Retardant Nanocomposite Films for Smart Packaging Applications. <i>Sensors</i> , 2020, 20, 5462.	2.1	13
20	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
21	Polymeric Materials as Potential Inhibitors Against SARS-CoV-2. <i>Journal of Polymers and the Environment</i> , 2022, 30, 1244-1263.	2.4	11
22	Amphiphilic cycloterpolymer of diallyldimethylammonium chloride, diallyloctadecylammonium chloride, and sulfur dioxide. <i>Journal of Applied Polymer Science</i> , 2005, 97, 1298-1306.	1.3	10
23	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
24	Theoretical investigation of the molecular structure, vibrational spectra, and molecular docking of tramadol using density functional theory. <i>Journal of the Chinese Chemical Society</i> , 2020, 67, 62-71.	0.8	10
25	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
26	Polymeric Materials for Conversion of Electromagnetic Waves from the Sun to Electric Power. <i>Polymers</i> , 2018, 10, 307.	2.0	9
27	Experimental FTIR and theoretical investigation of the molecular structure and vibrational spectra of acetanilide using DFT and dispersion correction to DFT. <i>Journal of Theoretical and Computational Chemistry</i> , 2019, 18, 1950009.	1.8	9
28	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
29	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
30	Synthesis and viscosity of hydrophobically modified polymers containing dendritic segments. <i>Journal of Applied Polymer Science</i> , 2008, 109, 1781-1792.	1.3	7
31	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
32	Conformational Stabilities, Rotational Barriers, and Vibrational Spectra of 2-Pyrrolicarboxaldehyde and 3-Pyrrolicarboxaldehyde Calculated Using Density Functional Theory. <i>Journal of Structural Chemistry</i> , 2019, 60, 186-197.	0.3	7
33	Electrically Conductive Polyacrylamide-Polyaniline Superabsorbing Polymer Hydrogels. , 0, , ,		7
34	Fabrication and characterization of composites from recycled polyethylene and date palm seed powder. <i>Journal of Thermoplastic Composite Materials</i> , 2021, 34, 316-327.	2.6	6
35	Mild sulfonated polyether ketone ether ketone ketone incorporated polysulfone membranes for microbial fuel cell application. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50216.	1.3	6
36	A comparative DFT study of tetracyanoquinodimethane and its difluoro and tetrafluoro analogs. <i>Journal of the Indian Chemical Society</i> , 2021, 98, 100032.	1.3	6

#	ARTICLE	IF	CITATIONS
37	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
38	Theoretical investigation of the structure and vibrational spectra of diethynyl ketone. <i>Computational and Theoretical Chemistry</i> , 2005, 728, 111-115.	1.5	4
39	Analysis of the Structures, Electronic, and Spectroscopic Properties of Piperidine-Based Analgesic Drugs Carfentanil and Acetylfentanyl. <i>Arabian Journal for Science and Engineering</i> , 2022, 47, 511-522.	1.7	4
40	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
41	<strong></strong>Polyaniline-Coated Polysulfone Membranes as Flexible Optical pH Sensors</strong>, 0, , .		3
42	Experimental (FT-IR, FT-Raman, and NMR) and DFT studies of the structures and spectral properties of diphenylcarbazone and diphenylthiocarbazone. <i>Journal of Molecular Structure</i> , 2022, 1264, 133230.	1.8	3
43	Rheological behavior of pH-responsive associating ionic polymers of diallylammonium salts and sulfur dioxide. <i>Journal of Applied Polymer Science</i> , 2009, 111, 125-131.	1.3	2
44	Theoretical Study on Geometry and Intramolecular Hydrogen Bonding in 8-Hydroxy-1-Naphthaldehyde. <i>Bulletin of the Korean Chemical Society</i> , 2021, 42, 1310-1318.	1.0	2
45	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
46	Theoretical Investigation of the Conformational Stabilities, Internal Rotations, and Vibrational Infrared Spectra of 2-Formylpyridine, 3-Formylpyridine, and 4-Formylpyridine. , 2016, , 139-154.		1
47	Development and characterization of polyvinyl alcohol filled with date palm midrib powder. <i>Journal of Thermoplastic Composite Materials</i> , 2023, 36, 1437-1449.	2.6	1
48	Investigation of the Molecular Structures, Electronic Properties and Vibrational Spectrum of Trifluoroacetophenone Using Density Functional Theory. <i>Journal of Applied Hematology</i> , 2022, 19, .	0.1	1
49	Optical and pH-Responsive Nanocomposite Film for Food Packaging Application. <i>Proceedings (mdpi)</i> , 2019, 42, .	0.2	0
50	Theoretical Study of Mono-terminal Functionalized Oligo Acetylene [C <sub>n</sub> H <sub>n+2</sub> X] (n=3-5, X= -COOH, and) Tj ETQq0 0 0 rgBT /Qverlock 10		0
51	DFT STUDY OF THE STRUCTURE, CONFORMATIONAL PROFILE AND THE VIBRATIONAL ANALYSIS OF 2-FURANCARBOETHIALDEHYDE AND 3-FURANCARBOETHIALDEHYDE. <i>Journal of Structural Chemistry</i> , 2021, 62, 1485-1497.	0.3	0