

Tariq Mahmood

List of Publications by Year in descending order

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210
papers

4,938
citations

94433

37
h-index

149698

56
g-index

213
all docs

213
docs citations

213
times ranked

4177
citing authors

#	ARTICLE	IF	CITATIONS
1	Spherical fuzzy sets and their applications in multi-attribute decision making problems. Journal of Intelligent and Fuzzy Systems, 2019, 36, 2829-2844.	1.4	246
2	Tubular graphitic-C3N4: a prospective material for energy storage and green photocatalysis. Journal of Materials Chemistry A, 2013, 1, 13949.	10.3	238
3	Bifunctional catalysts of Co3O4@GCN tubular nanostructured (TNS) hybrids for oxygen and hydrogen evolution reactions. Nano Research, 2015, 8, 3725-3736.	10.4	117
4	Superalkalis as a source of diffuse excess electrons in newly designed inorganic electrides with remarkable nonlinear response and deep ultraviolet transparency: A DFT study. Applied Surface Science, 2019, 483, 1118-1128.	6.1	105
5	Synthesis, Crystal Structures and Spectroscopic Properties of Triazine-Based Hydrazone Derivatives; A Comparative Experimental-Theoretical Study. Molecules, 2015, 20, 5851-5874.	3.8	80
6	Highly selective acridinium based cyanine dyes for the detection of DNA base pairs (adenine, cytosine,) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.5	78
7	Theoretical study on a boron phosphide nanocage doped with superalkalis: novel electrides having significant nonlinear optical response. New Journal of Chemistry, 2019, 43, 5727-5736.	2.8	73
8	Design of novel superalkali doped silicon carbide nanocages with giant nonlinear optical response. Optics and Laser Technology, 2020, 122, 105855.	4.6	73
9	Design, synthesis and bioevaluation of tricyclic fused ring system as dual binding site acetylcholinesterase inhibitors. Bioorganic Chemistry, 2019, 83, 336-347.	4.1	72
10	Theoretical study on novel superalkali doped graphdiyne complexes: Unique approach for the enhancement of electronic and nonlinear optical response. Journal of Molecular Graphics and Modelling, 2020, 97, 107573.	2.4	68
11	High sensitivity of polypyrrole sensor for uric acid over urea, acetamide and sulfonamide: A density functional theory study. Synthetic Metals, 2018, 235, 49-60.	3.9	66
12	Theoretical study on design of novel superalkalis doped graphdiyne: A new donor-acceptor (D-A) strategy for enhancing NLO response. Applied Surface Science, 2019, 492, 255-263.	6.1	66
13	Cyclic versus straight chain oligofuran as sensor: A detailed DFT study. Journal of Molecular Graphics and Modelling, 2020, 97, 107569.	2.4	66
14	Silver-graphene quantum dots based electrochemical sensor for trinitrotoluene and p-nitrophenol. Journal of Molecular Liquids, 2020, 306, 112878.	4.9	65
15	Doping superalkali on Zn12O12 nanocage constitutes a superior approach to fabricate stable and high-performance nonlinear optical materials. Optics and Laser Technology, 2019, 120, 105753.	4.6	64
16	Synthesis, crystal structure, spectroscopic and density functional theory (DFT) study of N-[3-anthracen-9-yl-1-(4-bromo-phenyl)-allylidene]-N-benzenesulfonohydrazine. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 142, 364-374.	3.9	63
17	Pharmacological importance of an ethnobotanical plant: <i>Capsicum annum</i> L.. Natural Product Research, 2014, 28, 1267-1274.	1.8	62
18	Synthesis of 2-acylated and sulfonated 4-hydroxycoumarins: In vitro urease inhibition and molecular docking studies. Bioorganic Chemistry, 2016, 66, 111-116.	4.1	60

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19	Exceptionally high NLO response and deep ultraviolet transparency of superalkali doped macrocyclic oligofuran rings. <i>New Journal of Chemistry</i> , 2020, 44, 2609-2618.	2.8	58
20	Electronic, elastic, optical properties of rutile TiO ₂ under pressure: A DFT study. <i>Physica B: Condensed Matter</i> , 2012, 407, 958-965.	2.7	52
21	A Brief Survey on Breast Cancer Diagnostic With Deep Learning Schemes Using Multi-Image Modalities. <i>IEEE Access</i> , 2020, 8, 165779-165809.	4.2	52
22	Synthesis and Spectroscopic and DNA-Binding Properties of Fluorogenic Acridine-Containing Cyanine Dyes. <i>Journal of Organic Chemistry</i> , 2010, 75, 204-207.	3.2	49
23	An efficient and improved scheme for handwritten digit recognition based on convolutional neural network. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	49
24	High selectivity of cyclic tetrapyrrole over tetrafulan and tetrathiophene toward toxic chemicals; A first-principles study. <i>Microporous and Mesoporous Materials</i> , 2020, 299, 110126.	4.4	48
25	New Perspectives on the Efficacy of Gallic Acid in Cosmetics & Nanocosmeceuticals. <i>Current Pharmaceutical Design</i> , 2019, 24, 5181-5187.	1.9	48
26	An accurate cost effective DFT approach to study the sensing behaviour of polypyrrole towards nitrate ions in gas and aqueous phases. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 19236-19247.	2.8	47
27	A comprehensive DFT study on the sensing abilities of cyclic oligothiophenes (CTs). <i>New Journal of Chemistry</i> , 2019, 43, 14120-14133.	2.8	45
28	Significant nonlinear optical response of alkaline earth metals doped beryllium and magnesium oxide nanocages. <i>Materials Chemistry and Physics</i> , 2020, 242, 122507.	4.0	44
29	Effect of electrodeposition and annealing of ZnO on optical and photovoltaic properties of the p-Cu ₂ O/n-ZnO solar cells. <i>Electrochimica Acta</i> , 2011, 56, 8342-8346.	5.2	43
30	Silymarin-laden PVP-PEG polymeric composite for enhanced aqueous solubility and dissolution rate: Preparation and in vitro characterization. <i>Journal of Pharmaceutical Analysis</i> , 2019, 9, 34-39.	5.3	43
31	Remarkable second and third order nonlinear optical properties of organometallic C ₆ Li ₆ M ₃ O electrides. <i>New Journal of Chemistry</i> , 2020, 44, 9822-9829.	2.8	43
32	Outstanding NLO response of thermodynamically stable single and multiple alkaline earth metals doped C ₂₀ fullerene. <i>Journal of Molecular Liquids</i> , 2020, 305, 112875.	4.9	43
33	Synthesis of highly pure single crystalline SnSe nanostructures by thermal evaporation and condensation route. <i>Materials Chemistry and Physics</i> , 2012, 137, 565-570.	4.0	42
34	Click one pot synthesis, spectral analyses, crystal structures, DFT studies and brine shrimp cytotoxicity assay of two newly synthesized 1,4,5-trisubstituted 1,2,3-triazoles. <i>Journal of Molecular Structure</i> , 2016, 1106, 430-439.	3.6	42
35	Sentiment analysis on IMDB using lexicon and neural networks. <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	41
36	An accurate comparative theoretical study of the interaction of furan, pyrrole, and thiophene with various gaseous analytes. <i>Journal of Molecular Modeling</i> , 2017, 23, 295.	1.8	40

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37	Influence of polymer ratio and surfactants on controlled drug release from cellulosic microsponges. <i>International Journal of Biological Macromolecules</i> , 2018, 109, 963-970.	7.5	40
38	Comparative investigation of sensor application of polypyrrole for gaseous analytes. <i>Journal of Physical Organic Chemistry</i> , 2019, 32, e3960.	1.9	39
39	Facile synthesis of novel Nb ₃ O ₇ F nanoflowers, their optical and photocatalytic properties. <i>CrystEngComm</i> , 2013, 15, 8146.	2.6	38
40	Copper-doped Al ₁₂ N ₁₂ nano-cages: potential candidates for nonlinear optical materials. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	38
41	Alkaline earth metal decorated phosphide nanoclusters for potential applications as high performance NLO materials; A first principle study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 118, 113906.	2.7	38
42	Hybrid vector similarity measures based on complex hesitant fuzzy sets and their applications to pattern recognition and medical diagnosis. <i>Journal of Intelligent and Fuzzy Systems</i> , 2021, 40, 625-646.	1.4	37
43	Fabrication and photovoltaic characteristics of Cu ₂ O/TiO ₂ thin film heterojunction solar cell. <i>Thin Solid Films</i> , 2012, 522, 430-434.	1.8	36
44	Interfacial film stabilized W/O/W nano multiple emulsions loaded with green tea and lotus extracts: systematic characterization of physicochemical properties and shelf-storage stability. <i>Journal of Nanobiotechnology</i> , 2014, 12, 20.	9.1	35
45	Synthesis, structural studies and biological activities of three new 2-(pentadecylthio)-5-aryl-1,3,4-oxadiazoles. <i>Journal of Molecular Structure</i> , 2017, 1129, 50-59.	3.6	35
46	Superhalogen doping: a new and effective approach to design materials with excellent static and dynamic NLO responses. <i>New Journal of Chemistry</i> , 2020, 44, 16358-16369.	2.8	35
47	Remarkable static and dynamic NLO response of alkali and superalkali doped macrocyclic [hexa-]thiophene complexes; a DFT approach. <i>RSC Advances</i> , 2021, 11, 4118-4128.	3.6	35
48	Surface functionalization of twisted graphene C ₃₂ H ₁₅ and C ₁₀₄ H ₅₂ derivatives with alkalis and superalkalis for NLO response; a DFT study. <i>Journal of Molecular Graphics and Modelling</i> , 2021, 102, 107794.	2.4	34
49	Synthesis, crystal structures, computational studies and $\hat{\alpha}$ -amylase inhibition of three novel 1,3,4-oxadiazole derivatives. <i>Journal of Molecular Structure</i> , 2020, 1200, 127085.	3.6	33
50	DFT studies of single and multiple alkali metals doped C ₂₄ fullerene for electronics and nonlinear optical applications. <i>Journal of Molecular Graphics and Modelling</i> , 2021, 105, 107867.	2.4	33
51	Synthesis, Density Functional Theory (DFT), Urease Inhibition and Antimicrobial Activities of 5-Aryl Thiophenes Bearing Sulphonylacetamide Moieties. <i>Molecules</i> , 2015, 20, 19914-19928.	3.8	32
52	Visible light photocatalytic degradation of crystal violet dye and electrochemical detection of ascorbic acid & glucose using BaWO ₄ nanorods. <i>Materials Research Bulletin</i> , 2018, 104, 38-43.	5.2	32
53	Synthesis, structural properties, DFT studies, antimicrobial activities and DNA binding interactions of two newly synthesized organotin(IV) carboxylates. <i>Journal of Molecular Structure</i> , 2019, 1191, 291-300.	3.6	32
54	Synthesis, crystal structures, computational studies and antimicrobial activity of new designed bis((5-aryl-1,3,4-oxadiazol-2-yl)thio)alkanes. <i>Journal of Molecular Structure</i> , 2018, 1155, 403-413.	3.6	31

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55	Design, synthesis and anti-bacterial studies of piperazine derivatives against drug resistant bacteria. <i>European Journal of Medicinal Chemistry</i> , 2019, 166, 224-231.	5.5	31
56	Breast lesions classifications of mammographic images using a deep convolutional neural network-based approach. <i>PLoS ONE</i> , 2022, 17, e0263126.	2.5	30
57	Sensor applications of polypyrrole for oxynitrogen analytes: a DFT study. <i>Journal of Molecular Modeling</i> , 2018, 24, 308.	1.8	29
58	An intelligent fault detection approach based on reinforcement learning system in wireless sensor network. <i>Journal of Supercomputing</i> , 2022, 78, 3646-3675.	3.6	29
59	An Automated In-Depth Feature Learning Algorithm for Breast Abnormality Prognosis and Robust Characterization from Mammography Images Using Deep Transfer Learning. <i>Biology</i> , 2021, 10, 859.	2.8	29
60	Design of novel inorganic alkaline earth metal doped aluminum nitride complexes (AEM@Al ₁₂ N ₁₂) with high chemical stability, improved electronic properties and large nonlinear optical response. <i>Optik</i> , 2020, 207, 163792.	2.9	27
61	Fundus image-based cataract classification using a hybrid convolutional and recurrent neural network. <i>Visual Computer</i> , 2021, 37, 2407-2417.	3.5	27
62	Copper Complexes of Bioactive Ligands with Superoxide Dismutase Activity. <i>Mini-Reviews in Medicinal Chemistry</i> , 2013, 13, 1944-1956.	2.4	27
63	Synthesis, molecular structure, quantum mechanical studies and urease inhibition assay of two new isatin derived sulfonylhydrazides. <i>Journal of Molecular Structure</i> , 2017, 1133, 80-89.	3.6	26
64	Halides encapsulation in aluminum/boron phosphide nanoclusters: An effective strategy for high cell voltage in Na-ion battery. <i>Materials Science in Semiconductor Processing</i> , 2019, 97, 71-79.	4.0	26
65	Effective adsorption of A-series chemical warfare agents on graphdiyne nanoflake: a DFT study. <i>Journal of Molecular Modeling</i> , 2021, 27, 117.	1.8	26
66	Computer Vision-Based Microcalcification Detection in Digital Mammograms Using Fully Connected Depthwise Separable Convolutional Neural Network. <i>Sensors</i> , 2021, 21, 4854.	3.8	26
67	Demonstrating the Potential of Alkali Metal-Doped Cyclic C ₆ O ₆ Li ₆ Organometallics as Electrides and High-Performance NLO Materials. <i>ACS Omega</i> , 2021, 6, 29852-29861.	3.5	26
68	Combined Topical Application of Lotus and Green Tea Improves Facial Skin Surface Parameters. <i>Rejuvenation Research</i> , 2013, 16, 91-97.	1.8	25
69	Scorpion Venom Peptides as a Potential Source for Human Drug Candidates. <i>Protein and Peptide Letters</i> , 2018, 25, 702-708.	0.9	25
70	Isolation, spectroscopic and density functional theory studies of 7-(4-methoxyphenyl)-9H-furo[2,3-f]chromen-9-one: A new flavonoid from the bark of <i>Millettia ovalifolia</i> . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 146, 24-32.	3.9	24
71	Spectroscopic and density functional theory studies of 7-hydroxy-3-methoxyisoflavone: A new isoflavone from the seeds of <i>Indigofera heterantha</i> (Wall). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 148, 375-381.	3.9	24
72	DFT study of acceleration of electrocyclization in photochromes under radical cationic conditions: Comparison with recent experimental data. <i>Tetrahedron</i> , 2017, 73, 3521-3528.	1.9	24

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73	Efficient Synthesis of Novel Pyridine-Based Derivatives via Suzuki Cross-Coupling Reaction of Commercially Available 5-Bromo-2-methylpyridin-3-amine: Quantum Mechanical Investigations and Biological Activities. <i>Molecules</i> , 2017, 22, 190.	3.8	24
74	Nano-porous C4N as a toxic pesticide's scavenger: A quantum chemical approach. <i>Journal of Molecular Graphics and Modelling</i> , 2022, 111, 108078.	2.4	24
75	Fabrication of novel SnO ₂ nanofibers bundle and their optical properties. <i>Materials Chemistry and Physics</i> , 2012, 136, 10-14.	4.0	23
76	Stability of a Cosmetic Multiple Emulsion Loaded with Green Tea Extract. <i>Scientific World Journal</i> , The, 2013, 2013, 1-7.	2.1	23
77	Synthesis, characterization and density functional theory study of some new 2-anilinothiazoles. <i>Journal of Molecular Structure</i> , 2014, 1072, 221-227.	3.6	23
78	Superalkali (Li ₂ F, Li ₃ F) doped Al ₁₂ N ₁₂ electrides with enhanced static, dynamic nonlinear optical responses and refractive indices. <i>Materials Science in Semiconductor Processing</i> , 2022, 143, 106518.	4.0	23
79	Structural, spectroscopic and nonlinear optical properties of sulfonamide derivatives; experimental and theoretical study. <i>Journal of Molecular Structure</i> , 2020, 1202, 127393.	3.6	22
80	First example of lanthanum as dopant on Al ₁₂ N ₁₂ and Al ₁₂ P ₁₂ nanocages for improved electronic and nonlinear optical properties with high stability. <i>Materials Science in Semiconductor Processing</i> , 2021, 135, 106122.	4.0	22
81	Synthesis, characterization, photoluminescence and field emission properties of novel durian-like gallium nitride microstructures. <i>Materials Chemistry and Physics</i> , 2012, 133, 793-798.	4.0	21
82	Thiobiuret based Ni(II) and Co(III) complexes: Synthesis, molecular structures and DFT studies. <i>Journal of Molecular Structure</i> , 2017, 1148, 388-396.	3.6	20
83	Carbonic anhydrase inhibition of Schiff base derivative of imino-methyl-naphthalen-2-ol: Synthesis, structure elucidation, molecular docking, dynamic simulation and density functional theory calculations. <i>Journal of Molecular Structure</i> , 2018, 1156, 193-200.	3.6	20
84	Extended Version of Linguistic Picture Fuzzy TOPSIS Method and Its Applications in Enterprise Resource Planning Systems. <i>Mathematical Problems in Engineering</i> , 2019, 2019, 1-8.	1.1	20
85	Remarkable nonlinear optical response of Mn@C ₂₀ (M = Na & K and n = 1-6); a DFT outcome. <i>Materials Science in Semiconductor Processing</i> , 2022, 138, 106269.	4.0	20
86	One Pot Selective Arylation of 2-Bromo-5-Chloro Thiophene; Molecular Structure Investigation via Density Functional Theory (DFT), X-ray Analysis, and Their Biological Activities. <i>International Journal of Molecular Sciences</i> , 2016, 17, 912.	4.1	19
87	Effect of magnesium on structural and optical properties of CaTiO ₃ : A DFT study. <i>Physica B: Condensed Matter</i> , 2019, 568, 88-91.	2.7	19
88	Palladium(0) catalyzed Suzuki cross-coupling reaction of 2,5-dibromo-3-methylthiophene: selectivity, characterization, DFT studies and their biological evaluations. <i>Chemistry Central Journal</i> , 2018, 12, 49.	2.6	18
89	Role of Pyridine Nitrogen in Palladium-Catalyzed Imine Hydrolysis: A Case Study of (E)-1-(3-bromothiophen-2-yl)-N-(4-methylpyridin-2-yl)methanimine. <i>Molecules</i> , 2019, 24, 2609.	3.8	18
90	Benchmark DFT studies on C≡CN homolytic cleavage and screening the substitution effect on bond dissociation energy. <i>Journal of Molecular Modeling</i> , 2019, 25, 47.	1.8	18

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91	Sensing of toxic Lewisite (L_{1} , L_{2} , and L_{3}) molecules by graphdiyne nanoflake using density functional theory calculations and quantum theory of atoms in molecule analysis. <i>Journal of Physical Organic Chemistry</i> , 2021, 34, e4181.	1.9	18
92	Electrochemical sensing of heptazine graphitic C ₃ N ₄ quantum dot for chemical warfare agents; a quantum chemical approach. <i>Materials Science in Semiconductor Processing</i> , 2022, 148, 106753.	4.0	18
93	Selective binding of l-glutamate derivative in aqueous solvents. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 2340.	2.8	17
94	First-principles calculation of electronic and optical properties of graphene like ZnO (G-ZnO). <i>Superlattices and Microstructures</i> , 2016, 90, 165-169.	3.1	17
95	Role of dispersion corrected hybrid GGA class in accurately calculating the bond dissociation energy of carbon halogen bond: A benchmark study. <i>Journal of Molecular Structure</i> , 2017, 1150, 447-458.	3.6	17
96	Synthesis, quantum chemical, in vitro acetyl cholinesterase inhibition and molecular docking studies of four new coumarin based pyrazolylthiazole nuclei. <i>Journal of Molecular Structure</i> , 2018, 1168, 175-186.	3.6	17
97	Olympicene as a high-performance sensor for lung irritants: A dispersion corrected DFT insight. <i>Materials Science in Semiconductor Processing</i> , 2022, 144, 106620.	4.0	17
98	Large-scale synthesis of highly pure Cd metal hexagonal nanosheets. <i>Materials Letters</i> , 2011, 65, 1896-1899.	2.6	16
99	Facile synthesis of N-(4-bromophenyl)-1-(3-bromothiophen-2-yl)methanimine derivatives via Suzuki cross-coupling reaction: their characterization and DFT studies. <i>Chemistry Central Journal</i> , 2018, 12, 84.	2.6	16
100	Cobalt Phosphide Ultrathin and Freestanding Sheets Prepared through Microwave Chemical Vapor Deposition: A Highly Efficient Oxygen Evolution Reaction Catalyst. <i>ChemElectroChem</i> , 2019, 6, 5469-5478.	3.4	16
101	Dexibuprofen amide derivatives as potential anticancer agents: synthesis, in silico docking, bioevaluation, and molecular dynamic simulation. <i>Drug Design, Development and Therapy</i> , 2019, Volume 13, 1643-1657.	4.3	16
102	Silver cluster (Ag ₆) decorated coronene as non-enzymatic sensor for glucose and H ₂ O ₂ . <i>Journal of Molecular Graphics and Modelling</i> , 2021, 103, 107824.	2.4	16
103	Impact of even number of alkaline earth metal doping on the NLO response of C ₂₀ nanocluster; a DFT outcome. <i>Computational and Theoretical Chemistry</i> , 2021, 1204, 113386.	2.5	16
104	Two-in-one: a pH-sensitive, acridine-based, fluorescent probe binds G-quadruplexes in oncogene promoters. <i>MedChemComm</i> , 2013, 4, 211-215.	3.4	15
105	Fabrication, physicochemical characterization and preliminary efficacy evaluation of a W/O/W multiple emulsion loaded with 5% green tea extract. <i>Brazilian Journal of Pharmaceutical Sciences</i> , 2013, 49, 341-349.	1.2	15
106	Elastic, electronic and optical properties of anatase TiO ₂ under pressure: A DFT approach. <i>Chinese Journal of Physics</i> , 2017, 55, 1252-1263.	3.9	15
107	Synthesis of novel metal complexes of 2-((phenyl (2-(4-sulfophenyl) hydrazono) methyl) diazenyl) benzoic acid formazan dyes: Characterization, antimicrobial and optical properties studies on leather. <i>Journal of Molecular Structure</i> , 2019, 1175, 73-89.	3.6	15
108	Pythagorean cubic fuzzy aggregation information based on confidence levels and its application to multi-criteria decision making process. <i>Journal of Intelligent and Fuzzy Systems</i> , 2019, 36, 5669-5683.	1.4	15

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109	A computational insight of electronic and optical properties of Cd-doped BaZrO ₃ . Chinese Journal of Physics, 2020, 66, 318-326.	3.9	15
110	Elastic, electronic and optical properties of cotunnite TiO ₂ from first principles calculations. Physica B: Condensed Matter, 2012, 407, 4495-4501.	2.7	14
111	Electronic, elastic, acoustic and optical properties of cubic TiO ₂ : A DFT approach. Physica B: Condensed Matter, 2013, 420, 74-80.	2.7	14
112	Formulation and stability of topical water in oil emulsion containing corn silk extract. Tropical Journal of Pharmaceutical Research, 2016, 15, 1115.	0.3	14
113	One-pot synthesis of tetrazole-1,2,5,6-tetrahydronicotinonitriles and cholinesterase inhibition: Probing the plausible reaction mechanism via computational studies. Bioorganic Chemistry, 2016, 65, 38-47.	4.1	14
114	Synthesis and structural properties of 2-((10-alkyl-10H-phenothiazin-3-yl)methylene)malononitrile derivatives; a combined experimental and theoretical insight. Chemistry Central Journal, 2016, 10, 13.	2.6	14
115	Fabrication and <i>in vitro</i> characterization of fenofibric acid-loaded hyaluronic acid-polyethylene glycol polymeric composites with enhanced drug solubility and dissolution rate. International Journal of Polymeric Materials and Polymeric Biomaterials, 2019, 68, 510-515.	3.4	14
116	Numerical treatment for Darcy-Forchheimer flow of nanofluid due to a rotating disk with slip effects. Canadian Journal of Physics, 2019, 97, 856-863.	1.1	14
117	Structural, Elastic Constant, and Vibrational Properties of Wurtzite Gallium Nitride: A First-Principles Approach. Journal of Physical Chemistry A, 2011, 115, 14502-14509.	2.5	13
118	Pressure based first-principles study of the electronic, elastic, optic and phonon properties of zincblende InN. Physica B: Condensed Matter, 2013, 430, 67-73.	2.7	13
119	Impact of processing methods on the dissolution of artemether from two non-ordered mesoporous silicas. European Journal of Pharmaceutical Sciences, 2018, 112, 139-145.	4.0	13
120	Impact of Magnetic Field and Second-Order Slip Flow of Casson Liquid with Heat Transfer Subject to Suction/Injection and Convective Boundary Condition. Journal of Magnetism, 2019, 24, 81-89.	0.4	13
121	Sensing behaviour of monocyclic C18 and B9N9 analogues toward chemical warfare agents (CWAs); quantum chemical approach. Surfaces and Interfaces, 2022, 30, 101912.	3.0	13
122	Quantum mechanical investigation on acceleration of electrocyclic reactions through transition metal catalysis. Journal of Organometallic Chemistry, 2016, 808, 78-86.	1.8	12
123	Electronic, optical and elastic properties of cubic zirconia (c-ZrO ₂) under pressure: A DFT study. Physica B: Condensed Matter, 2021, 604, 412462.	2.7	12
124	First-principles study for electrochemical sensing of neurotoxin hydrazine derivatives via h-g-C ₃ N ₄ quantum dot. Surfaces and Interfaces, 2022, 30, 101913.	3.0	12
125	Closing the Ring to Bring Up the Light: Synthesis of a Hexacyclic Acridinium Cyanine Dye. Chemistry - A European Journal, 2012, 18, 12349-12356.	3.3	11
126	Extraction of Pb(II) from water samples by ionic liquid-modified silica sorbents. Desalination and Water Treatment, 2014, 52, 7915-7924.	1.0	11

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127	Theoretical mechanistic investigation of zinc(ii) catalyzed oxidation of alcohols to aldehydes and esters. RSC Advances, 2016, 6, 31876-31883.	3.6	11
128	Accurate theoretical method for homolytic cleavage of C Sn bond: A benchmark approach. Computational and Theoretical Chemistry, 2018, 1140, 134-144.	2.5	11
129	Natural and semisynthetic polymers blended orodispersible films of citalopram. Natural Product Research, 2020, 34, 16-25.	1.8	11
130	Topical microemulsion containing Punica granatum extract: its control over skin erythema and melanin in healthy Asian subjects. Postepy Dermatologii I Alergologii, 2014, 6, 351-355.	0.9	10
131	Pressure induced electronic and optical properties of rutile SnO ₂ by first principle calculations. Superlattices and Microstructures, 2016, 90, 236-241.	3.1	10
132	Synthesis of 3,4-Biaryl-2,5-Dichlorothiophene through Suzuki Cross-Coupling and Theoretical Exploration of Their Potential Applications as Nonlinear Optical Materials. Symmetry, 2018, 10, 766.	2.2	10
133	Mixed superalkalis are a better choice than pure superalkalis for B ₁₂ N ₁₂ nanocages to design high-performance nonlinear optical materials. Dalton Transactions, 2022, 51, 8437-8453.	3.3	10
134	Aggregation induced emission based fluorenes as dual-channel fluorescent probes for rapid detection of cyanide: applications of smartphones and logic gates. RSC Advances, 2022, 12, 18897-18910.	3.6	10
135	Preparation of highly pure CdSe hollow structures: Their PL and hydrogen absorption properties. Materials Letters, 2013, 92, 263-266.	2.6	9
136	Towards thermally stable cyclophanedien-dihydropyrene photoswitches. Journal of Molecular Modeling, 2015, 21, 148.	1.8	9
137	Synthesis and Reactivities of Triphenyl Acetamide Analogs for Potential Nonlinear Optical Material Uses. Symmetry, 2019, 11, 622.	2.2	9
138	Isolation, spectroscopic and density functional theory of two withanolide glycosides. Journal of Molecular Structure, 2019, 1177, 449-456.	3.6	9
139	Alteration impact of electronic properties of c-SrTiO ₃ on optical response due to Ca inclusion: A DFT study. Physica B: Condensed Matter, 2021, 602, 412553.	2.7	9
140	Breast Mass Detection and Classification Using Deep Convolutional Neural Networks for Radiologist Diagnosis Assistance. , 2021, , .		9
141	DFT based investigations of BAWO ₄ : Electronic and optical properties. Physica B: Condensed Matter, 2021, 621, 413309.	2.7	9
142	An Automatic Detection and Localization of Mammographic Microcalcifications ROI with Multi-Scale Features Using the Radiomics Analysis Approach. Cancers, 2021, 13, 5916.	3.7	9
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