Ali Mohammed Alsalme

List of Publications by Year
in descending order

162 papers	4,989 citations	117625 34 h-index	114465 63 g-index
162 all docs	162 docs citations	162 times ranked	7133 citing authors

#	Article	IF	Citations
1	Construction of hierarchically porous metalâ€“organic frameworks through linker labilization. Nature Communications, 2017, 8, 15356.	12.8	326
2	Enhanced Photocatalytic Performance of the Graphene-V₂O₅ Nanocomposite in the Degradation of Methylene Blue Dye under Direct Sunlight. ACS Applied Materials & Interfaces, 2015, 7, 14905-14911.	8.0	192
3	Heteropoly acids as catalysts for liquid-phase esterification and transesterification. Applied Catalysis A: General, 2008, 349, 170-176.	4.3	171
4	Copper(II) complexes as potential anticancer and Nonsteroidal anti-inflammatory agents: In vitro and in vivo studies. Scientific Reports, 2019, 9, 5237.	3.3	171
5	Mixed-linker strategy for the construction of multifunctional metalâ€“organic frameworks. Journal of Materials Chemistry A, 2017, 5, 4280-4291.	10.3	163
6	Retrosynthesis of multi-component metalâ^'organic frameworks. Nature Communications, 2018, 9, 808.	12.8	159
7	Antibacterial Effect of Silver Nanoparticles Synthesized Using Murraya koenigii (L.) against Multidrug-Resistant Pathogens. Bioinorganic Chemistry and Applications, 2019, 2019, 1-11.	4.1	148
8	Creating Well-Defined Hexabenzocoronene in Zirconium Metalâ€“Organic Framework by Postsynthetic Annulation. Journal of the American Chemical Society, 2019, 141, 2054-2060.	13.7	148
9	Solid acid catalysts based on H3PW12O40 heteropoly acid: Acid and catalytic properties at a gasâ€“solid interface. Journal of Catalysis, 2010, 276, 181-189.	6.2	138
10	Stable metalâ€“organic frameworks as a host platform for catalysis and biomimetics. Chemical Communications, 2018, 54, 4231-4249.	4.1	137
11	Biogenic synthesis of Zinc oxide nanostructures from Nigella sativa seed: Prospective role as food packaging material inhibiting broad-spectrum quorum sensing and biofilm. Scientific Reports, 2016, 6, 36761.	3.3	128
12	Designing CuO_x Nanoparticle-Decorated CeO₂ Nanocubes for Catalytic Soot Oxidation: Role of the Nanointerface in the Catalytic Performance of Heterostructured Nanomaterials. Langmuir, 2016, 32, 2208-2215.	3.5	127
13	Oneâ€Step Synthesis of Hybrid Coreâ€“Shell Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2018, 57, 3927-3932.	13.8	125
14	A metalâ€“organic framework with suitable pore size and dual functionalities for highly efficient post-combustion CO₂ capture. Journal of Materials Chemistry A, 2019, 7, 3128-3134.	10.3	124
15	Double hydroxide mediated synthesis of nanostructured ZnCo 2 O 4 as high performance electrode material for supercapacitor applications. Chemical Engineering Journal, 2017, 321, 474-483.	12.7	97
16	High performance electrochemical capacitor based on MnCo2O4 nanostructured electrode. Journal of Electroanalytical Chemistry, 2015, 756, 94-100.	3.8	94
17	Glycerol utilization: solvent-free acetalisation over niobia catalysts. Catalysis Science and Technology, 2012, 2, 1173.	4.1	81
18	Facile in-situ microwave irradiation synthesis of TiO2/graphene nanocomposite for high-performance supercapacitor applications. Journal of Electroanalytical Chemistry, 2018, 808, 90-100.	3.8	69

#	Article	IF	Citations
19	Structural and physico-chemical evaluation of melatonin and its solution-state excited properties, with emphasis on its binding with novel coronavirus proteins. Journal of Molecular Liquids, 2020, 318, 114082.	4.9	64
20	Eco-friendly green synthesis of dextrin based poly (methyl methacrylate) grafted silver nanocomposites and their antibacterial and antibiofilm efficacy against multi-drug resistance pathogens. Journal of Cleaner Production, 2019, 230, 1148-1155.	9.3	57
21	Catalytic Oxidation of Benzyl Alcohol Using Nanosized Cu/Ni Schiff-Base Complexes and Their Metal Oxide Nanoparticles. Catalysts, 2018, 8, 452.	3.5	56
22	In-situ microwave synthesis of grapheneâ€“TiO2 nanocomposites with enhanced photocatalytic properties for the degradation of organic pollutants. Journal of Photochemistry and Photobiology B: Biology, 2016, 163, 216-223.	3.8	55
23	Hexagonal-like NiCo2O4 nanostructure based high-performance supercapacitor electrodes. Ionics, 2017, 23, 977-984.	2.4	53
24	Simpler and highly sensitive enzyme-free sensing of urea via NiO nanostructures modified electrode. RSC Advances, 2016, 6, 39001-39006.	3.6	49
25	Synthesis and characterization of starch based bioplatics using varying plant-based ingredients, plasticizers and natural fillers. Saudi Journal of Biological Sciences, 2021, 28, 1739-1749.	3.8	49
26	Flexible Zirconium MOF as the Crystalline Sponge for Coordinative Alignment of Dicarboxylates. ACS Applied Materials & Interfaces, 2017, 9, 33408-33412.	8.0	48
27	Efficient Niâ€“Mo hydrodesulfurization catalyst prepared through Keggin polyoxometalate. Applied Catalysis B: Environmental, 2016, 182, 102-108.	20.2	45
28	Coumarin centered copper(<scp>ii</scp>) complex with appended-imidazole as cancer chemotherapeutic agents against lung cancer: molecular insight via DFT-based vibrational analysis. RSC Advances, 2017, 7, 36056-36071.	3.6	45
29	Heteroleptic Copper(I) Complexes of â€œScorpionateâ€•Bis-pyrazolyl Carboxylate Ligand with Auxiliary Phosphine as Potential Anticancer Agents: An Insight into Cytotoxic Mode. Scientific Reports, 2017, 7, 45229.	3.3	42
30	Exploring the promising potential of MoS2â€“RuS2 binary metal sulphide towards the electrocatalysis of antibiotic drug sulphadiazine. Analytica Chimica Acta, 2019, 1086, 55-65.	5.4	42
31	Microporous Copper Isophthalate Framework of mot Topology for C₂H₂/CO₂ Separation. Crystal Growth and Design, 2019, 19, 5829-5835.	3.0	40
32	Î±-Pinene isomerisation over heteropoly acid catalysts in the gas-phase. Applied Catalysis A: General, 2010, 390, 219-224.	4.3	38
33	Biological evaluation of dinuclear copper complex/dichloroacetic acid cocrystal against human breast cancer: design, synthesis, characterization, DFT studies and cytotoxicity assays. RSC Advances, 2017, 7, 47920-47932.	3.6	38
34	Heteroatom doped reduced graphene oxide paper for large area perovskite solar cells. Solar Energy, 2018, 163, 564-569.	6.1	36
35	Modelling the structural and reactivity landscapes of tucatinib with special reference to its wavefunction-dependent properties and screening for potential antiviral activity. Journal of Molecular Modeling, 2020, 26, 341.	1.8	35
36	Structural, optical and photovoltaic properties of co-doped CdTe QDs for quantum dots sensitized solar cells. Superlattices and Microstructures, 2015, 88, 634-644.	3.1	34

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37	Freestanding flexible nitrogen doped-reduced graphene oxide film as an efficient electrode material for solid-state supercapacitors. Journal of Alloys and Compounds, 2017, 723, 995-1000.	5.5	33
38	Oneâ€Step Synthesis of Hybrid Coreâ€“Shell Metalâ€“Organic Frameworks. Angewandte Chemie, 2018, 130, 3991-3996.	2.0	33
39	An Ultramicroporous Metalâ€“Organic Framework for Sieving Separation of Carbon Dioxide from Methane. Small Structures, 2020, 1, 2000022.	12.0	33
40	Synthesis, characterization and photo-catalytic activity of guar-gum-g-aliginate@silver bionanocomposite material. RSC Advances, 2020, 10, 7898-7911.	3.6	32
41	Surfactant-Free Synthesis of Nb2O5 Nanoparticles Anchored Graphene Nanocomposites with Enhanced Electrochemical Performance for Supercapacitor Electrodes. Nanomaterials, 2020, 10, 160.	4.1	31
42	Cefuroxime derived copper nanoparticles and their application as a colorimetric sensor for trace level detection of picric acid. RSC Advances, 2016, 6, 82882-82889.	3.6	30
43	Synthesis, characterization of Î±-amino acid Schiff base derived Ru/Pt complexes: Induces cytotoxicity in HepG2 cell via protein binding and ROS generation. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 163, 1-7.	3.9	29
44	â€œTurnâ€“onâ€•benzophenone based fluorescence and colorimetric sensor for the selective detection of Fe2+ in aqueous media: Validation of sensing mechanism by spectroscopic and computational studies. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 247, 119156.	3.9	29
45	Shape controlled synthesis of rod-like Co3O4 nanostructures as high-performance electrodes for supercapacitor applications. Journal of Materials Science: Materials in Electronics, 2018, 29, 6059-6067.	2.2	28
46	Rapid photocatalytic degradation of RhB dye and photocatalytic hydrogen production on novel curcumin/SnO2 nanocomposites through direct Z-scheme mechanism. Journal of Materials Science: Materials in Electronics, 2020, 31, 19188-19203.	2.2	28
47	Light-stable bis(norharmane)silver(I) compounds: Synthesis, characterization and antiproliferative effects in cancer cells. Journal of Inorganic Biochemistry, 2014, 140, 1-5.	3.5	26
48	Coumarin Derived â€œTurn onâ€•Fluorescent Sensor for Selective Detection of Cadmium (II) Ion: Spectroscopic Studies and Validation of Sensing Mechanism by DFT Calculations. Journal of Fluorescence, 2019, 29, 1029-1037.	2.5	26
49	Ecofriendly Green Synthesis of the ZnO-Doped CuO@Alg Bionanocomposite for Efficient Oxidative Degradation of p-Nitrophenol. ACS Omega, 2020, 5, 32011-32022.	3.5	26
50	Transition-metal norharmane compounds as possible cytotoxic agents: New insights based on a coordination chemistry perspective. Journal of Inorganic Biochemistry, 2016, 165, 128-135.	3.5	24
51	Multi-walled carbon nanotube coupled Î²-Cyclodextrin/PANI hybrid photocatalyst for advance oxidative degradation of crystal violet. Journal of Molecular Liquids, 2020, 317, 114216.	4.9	23
52	Sonophotocatalytic Degradation of Malachite Green by Nanocrystalline Chitosan-Ascorbic Acid@NiFe2O4 Spinel Ferrite. Coatings, 2020, 10, 1200.	2.6	23
53	Excited-state electronic properties, structural studies, noncovalent interactions, and inhibition of the novel severe acute respiratory syndrome coronavirus 2 proteins in Ripretinib by first-principle simulations. Journal of Molecular Liquids, 2021, 324, 115134.	4.9	23
54	Synthesis and Property Studies of Molybdenum Disulfide Modified Reduced Graphene Oxide (MoS₂-rGO) Nanocomposites for Supercapacitor Applications. Journal of Nanoscience and Nanotechnology, 2017, 17, 5469-5474.	0.9	22

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55	Synthesis and Spectral Identification of Three Schiff Bases with a 2-(Piperazin-1-yl)-N-(thiophen-2-yl) Tj ETQq1 1 0.784314 rgBT /Overl Antibacterial, and Molecular Docking Investigations. Molecules, 2020, 25, 2253.	3.8	22
56	Enhanced electrochemical performance of Î±-MoO3/graphene nanocomposites prepared by an in situ microwave irradiation technique for energy storage applications. RSC Advances, 2020, 10, 22836-22847.	3.6	22
57	Facile synthesize of free standing highly conducting flexible reduced graphene oxide paper. Journal of Materials Science: Materials in Electronics, 2016, 27, 6232-6241.	2.2	21
58	Freestanding flexible, pure and composite form of reduced graphene oxide paper for ammonia vapor sensing. Scientific Reports, 2019, 9, 8749.	3.3	19
59	Reversed ethane/ethylene adsorption in a metalâ€“organic framework via introduction of oxygen. Chinese Journal of Chemical Engineering, 2020, 28, 593-597.	3.5	19
60	Dihydropyrimidinones: efficient one-pot green synthesis using Montmorillonite-KSF and evaluation of their cytotoxic activity. RSC Advances, 2020, 10, 42221-42234.	3.6	19
61	Plasmid-Mediated Ampicillin, Quinolone, and Heavy Metal Co-Resistance among ESBL-Producing Isolates from the Yamuna River, New Delhi, India. Antibiotics, 2020, 9, 826.	3.7	19
62	A sensitive electrochemical determination of chemotherapy agent using graphitic carbon nitride covered vanadium oxide nanocomposite; sonochemical approach. Ultrasonics Sonochemistry, 2019, 58, 104664.	8.2	18
63	Cost-effective adsorbent from arabinogalactan and pectin of cactus pear peels: Kinetics and thermodynamics studies. International Journal of Biological Macromolecules, 2020, 150, 941-947.	7.5	18
64	3D Nanoarchitecture of Polyaniline-MoS2 Hybrid Material for Hg(II) Adsorption Properties. Polymers, 2020, 12, 2731.	4.5	18
65	Synthesis, characterization, reaction mechanism prediction and biological study of mono, bis and tetrakis pyrazole derivatives against Fusarium oxysporum f. sp. Albedinis with conceptual DFT and ligand-protein docking studies. Bioorganic Chemistry, 2021, 110, 104696.	4.1	18
66	Conversion of Waste Polyethylene Terephthalate (PET) Polymer into Activated Carbon and Its Feasibility to Produce Green Fuel. Polymers, 2021, 13, 3952.	4.5	18
67	Photocatalytic properties of Graphene-SnO₂-PMMA nanocomposite in the degradation of methylene blue dye under direct sunlight irradiation. Materials Express, 2015, 5, 319-326.	0.5	17
68	Facile hydrothermal preparation of niobium pentaoxide decorated reduced graphene oxide nanocomposites for supercapacitor applications. Chemical Physics Letters, 2016, 650, 35-40.	2.6	17
69	Reduced graphene oxide paper as bimorphic electrical actuators. Materials Letters, 2017, 191, 182-185.	2.6	17
70	In Situ Copolymerized Polyacrylamide Cellulose Supported Fe3O4 Magnetic Nanocomposites for Adsorptive Removal of Pb(II): Artificial Neural Network Modeling and Experimental Studies. Nanomaterials, 2019, 9, 1687.	4.1	17
71	Synthesis and physicochemical, DFT, thermal and DNA-binding analysis of a new pentadentate N₃S₂ Schiff base ligand and its [CuN₃S₂]²⁺ complexes. RSC Advances, 2020, 10, 21806-21821.	3.6	17
72	Non-noble metallic Cu with three different roles in a Cu doped ZnO/Cu/g-C₃N₄ heterostructure for enhanced Z-scheme photocatalytic activity. New Journal of Chemistry, 2021, 45, 13499-13511.	2.8	17

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73	In vivo assessment of newly synthesized achiral copper(<scp>ii</scp>) and zinc(<scp>ii</scp>) complexes of a benzimidazole derived scaffold as a potential analgesic, antipyretic and anti-inflammatory. RSC Advances, 2016, 6, 19475-19481.	3.6	16
74	Tetranuclear cubane Cu4O4 complexes as prospective anticancer agents: Design, synthesis, structural elucidation, magnetism, computational and cytotoxicity studies. Inorganica Chimica Acta, 2018, 473, 121-132.	2.4	16
75	Phenanthroimidazole derivatives as a chemosensor for picric acid: a first realistic approach. New Journal of Chemistry, 2020, 44, 20092-20100.	2.8	16
76	Evaluation of the Adsorption Efficiency of Glycine-, Iminodiacetic Acid -, and Amino Propyl-Functionalized Silica Nanoparticles for the Removal of Potentially Toxic Elements from Contaminated Water Solution. Journal of Nanomaterials, 2021, 2021, 1-12.	2.7	16
77	Synthesis and Characterization of rGO@ZnO Nanocomposites for Esterification of Acetic Acid. ACS Omega, 2022, 7, 2786-2797.	3.5	16
78	Efficient hydrodesulfurization catalysts based on Keggin polyoxometalates. Applied Catalysis A: General, 2015, 508, 16-24.	4.3	15
79	A flexible thioether-based MOF as a crystalline sponge for structural characterization of liquid organic molecules. Materials Chemistry Frontiers, 2017, 1, 1764-1767.	5.9	15
80	Comparative catalytic evaluation of nickel and cobalt substituted phosphomolybdic acid catalyst supported on silica for hydrodesulfurization of thiophene. Journal of Saudi Chemical Society, 2017, 21, 965-973.	5.2	15
81	Probing the Catalytic Efficiency of Supported Heteropoly Acids for Esterification: Effect of Weak Catalyst Support Interactions. Journal of Chemistry, 2018, 2018, 1-10.	1.9	15
82	High-performance electrochemical capacitor based on cuprous oxide/graphene nanocomposite electrode material synthesized by microwave irradiation method. Emergent Materials, 2019, 2, 495-504.	5.7	15
83	Novel Cr (III), Fe (III) and Ru (III) Vanillin Based Metalloâ€Pharmaceuticals for Cancer and Inflammation Treatment: Experimental and Theoretical Studies. Applied Organometallic Chemistry, 2019, 33, e5177.	3.5	15
84	Understanding the interaction between Î±-1-acid glycoprotein (AGP) and potential Cu/Zn metallo-drugs of benzimidazole derived organic motifs: A multi-spectroscopic and molecular docking study. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 225, 117457.	3.9	15
85	First-Principle Studies of Istradefylline with Emphasis on the Stability, Reactivity, Interactions and Wavefunction-Dependent Properties. Polycyclic Aromatic Compounds, 2020, , 1-15.	2.6	15
86	Synthesis, physicochemical, thermal, and XRD/HSA interactions of mixed [Cu(Bipy)(Dipn)](X)₂ complexes: DNA binding and molecular docking evaluation. Journal of Coordination Chemistry, 2020, 73, 3236-3248.	2.2	15
87	2D g-C₃N₄ as a bifunctional photocatalyst for co-catalyst and sacrificial agent-free photocatalytic N₂ fixation and dye photodegradation. New Journal of Chemistry, 2021, 45, 7174-7184.	2.8	15
88	Cu II -Na I heteronuclear complex as anticancer entity against human breast cancer cell lines: DNA binding, cleavage, and Computational studies. Inorganica Chimica Acta, 2018, 479, 229-239.	2.4	14
89	Interference of phosphane copper (I) complexes of Î²-carboline with quorum sensing regulated virulence functions and biofilm in foodborne pathogenic bacteria: A first report. Saudi Journal of Biological Sciences, 2019, 26, 308-316.	3.8	14
90	Palm fatty acid distillate esterification using synthesized heterogeneous sulfonated carbon catalyst from plastic waste: Characterization, catalytic efficacy and stability, and fuel properties. Chemical Engineering Research and Design, 2022, 162, 1139-1151.	5.6	14

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91	Fabrication of Zinc Oxide-Xanthan Gum Nanocomposite via Green Route: Attenuation of Quorum Sensing Regulated Virulence Functions and Mitigation of Biofilm in Gram-Negative Bacterial Pathogens. Coatings, 2020, 10, 1190.	2.6	13
92	Synthesis and amide imidic prototropic tautomerization in thiophene-2-carbohydrazide: XRD, DFT/HSA-computation, DNA-docking, TG and isoconversional kineticsviaFWO and KAS models. RSC Advances, 2020, 10, 2037-2048.	3.6	13
93	Structural, Spectroscopic, and Chemical Bonding Analysis of Zn(II) Complex [Zn(sal)](H2O): Combined Experimental and Theoretical (NBO, QTAIM, and ELF) Investigation. Crystals, 2020, 10, 259.	2.2	13
94	Insights into the strong in-vitro anticancer effects for bis(triphenylphosphane)iminium compounds having perchlorate, tetrafluoridoborate and bis(chlorido)argentate anions. Journal of Inorganic Biochemistry, 2015, 153, 346-354.	3.5	12
95	A Highly Efficient Ag Nanoparticle-Immobilized Alginate-g-Polyacrylonitrile Hybrid Photocatalyst for the Degradation of Nitrophenols. Polymers, 2020, 12, 3049.	4.5	12
96	Mono-Alkylated Ligands Based on Pyrazole and Triazole Derivatives Tested Against Fusarium oxysporum f. sp. albedinis: Synthesis, Characterization, DFT, and Phytase Binding Site Identification Using Blind Docking/Virtual Screening for Potent Fophy Inhibitors. Frontiers in Chemistry, 2020, 8, 559262.	3.6	12
97	Syntheses of novel 1,<scp>5â€benzodiazepine</scp> derivatives: Crystal structures, spectroscopic characterizations, Hirshfeld surface analyses, molecular docking studies, <scp>DFT</scp> calculations, corrosion inhibition anticipation, and antibacterial activities. Journal of Heterocyclic Chemistry, 2021, 58, 270-289.	2.6	12
98	In situ-grown ZnO particles on g-C3N4 layers: a direct Z-scheme-driven photocatalyst for the degradation of dye and pharmaceutical pollutants under solar irradiation. Journal of Materials Science: Materials in Electronics, 2022, 33, 9774-9784.	2.2	12
99	Cellulose Nanofibers@ZrO2 membrane for the separation of Hg(II) from aqueous media. Journal of Physics and Chemistry of Solids, 2022, 168, 110812.	4.0	12
100	Construction of an Ultrasensitive and Highly Selective Nitrite Sensor Using Piroxicam-Derived Copper Oxide Nanostructures. Catalysts, 2018, 8, 29.	3.5	11
101	Î²-Carboline copper complex as a potential mitochondrial-targeted anticancer chemotherapeutic agent: Favorable attenuation of human breast cancer MCF7 cells via apoptosis. Saudi Journal of Biological Sciences, 2020, 27, 2164-2173.	3.8	11
102	Diazo-pyrazole analogues as photosensitizers in dye sensitised solar cells: tuning for a better photovoltaic efficiency using a new modelling strategy using experimental and computational data. Zeitschrift Fur Physikalische Chemie, 2021, 235, 1227-1245.	2.8	11
103	Î²-Carboline Silver Compound Binding Studies with Human Serum Albumin: A Comprehensive Multispectroscopic Analysis and Molecular Modeling Study. Bioinorganic Chemistry and Applications, 2018, 2018, 1-11.	4.1	10
104	Evaluation of (É³⁶-p-cymene) ruthenium diclofenac complex as anticancer chemotherapeutic agent: interaction with biomolecules, cytotoxicity assays. Journal of Biomolecular Structure and Dynamics, 2019, 37, 3905-3913.	3.5	10
105	Ag decorated V2O5 nanorods as cathode material for lithium ion battery. Journal of Materials Science: Materials in Electronics, 2020, 31, 14279-14286.	2.2	10
106	Influence of Antimony Oxide on Epoxy Based Intumescent Flame Retardation Coating System. Polymers, 2020, 12, 2721.	4.5	10
107	Effective Enrichment and Quantitative Determination of Trace Hg2+ Ions Using CdS-Decorated Cellulose Nanofibrils. Nanomaterials, 2020, 10, 2218.	4.1	10
108	Aminophosphonic Acid Functionalized Cellulose Nanofibers for Efficient Extraction of Trace Metal Ions. Polymers, 2020, 12, 2370.	4.5	10

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109	A series of bimetallic chain coordination polymers bearing [Ag(PPh3)2] chromophores: Synthesis, structure and luminescence. Inorganic Chemistry Communication, 2013, 36, 18-21.	3.9	9
110	A novel trinuclear Î¼3-hydroxido-bridged Cu(II) compound; a molecular cluster, stabilized by hydrogen bonding, bridging pyrazolates, terminal pyrazoles, water and nitrate anions. Polyhedron, 2014, 75, 64-67.	2.2	9
111	L-Ascorbic Acid-g-Polyaniline Mesoporous Silica Nanocomposite for Efficient Removal of Crystal Violet: A Batch and Fixed Bed Breakthrough Studies. Nanomaterials, 2020, 10, 2402.	4.1	9
112	Enhanced electrochemical performance of lanthanum ferrite decorated reduced graphene oxide nanocomposite electrodes prepared by in situ microwave irradiation for energy storage applications. International Journal of Energy Research, 2021, 45, 5272-5282.	4.5	9
113	Approximation of ground water quality for microbial and chemical contamination. Saudi Journal of Biological Sciences, 2021, 28, 1757-1762.	3.8	9
114	Synthesis, structure and spectroscopic properties of two new cyanido-bridged trinuclear 9-atom molecular Ag N C Cu N C Au C N assembly of formula [AgCuAu(CN) 3 (PPh 3) 5](H 2 O) 2 and a dinuclear goldâ€“copper one-dimensional coordination polymer of formula [AuCu(CN) 2 (PPh 3) 2](H 2 O) 2. Inorganica Chimica Acta, 2014, 423, 233-237.	2.4	8
115	Role of Copper Oxide on Epoxy Coatings with New Intumescent Polymer-Based Fire Retardant. Molecules, 2020, 25, 5978.	3.8	8
116	Ionothermal Synthesis of Metal Oxide-Based Nanocatalysts and Their Application towards the Oxidative Desulfurization of Dibenzothiophene. Journal of Chemistry, 2020, 2020, 1-11.	1.9	8
117	Instant Cyclohexene Epoxidation Over Ni-TUD-1 Under Ambient Conditions. Catalysis Letters, 2021, 151, 1612-1622.	2.6	8
118	Low temperature ionothermal synthesis of TiO 2 nanomaterials for efficient photocatalytic H 2 production, dye degradation and photoluminescence studies. International Journal of Energy Research, 2020, 44, 8362-8371.	4.5	8
119	Synthesis and XRD of Novel Ni4(Âµ3-O)4 Twist Cubane Cluster Using Three NNO Mixed Ligands: Hirshfeld, Spectral, Thermal and Oxidation Properties. Journal of Cluster Science, 2021, 32, 227-234.	3.3	7
120	Elucidation of molecular interactions of theaflavin monogallate with camel milk lactoferrin: detailed spectroscopic and dynamic simulation studies. RSC Advances, 2021, 11, 26710-26720.	3.6	7
121	Î±-Glucosidase activity of oleanolic acid and its oxidative metabolites: DFT and Docking studies. Mini-Reviews in Medicinal Chemistry, 2015, 15, 1148-1158.	2.4	7
122	Comprehensive Comparison of Hetero-Homogeneous Catalysts for Fatty Acid Methyl Ester Production from Non-Edible Jatropha curcas Oil. Catalysts, 2021, 11, 1420.	3.5	7
123	Structure of bis(nitrato)tetrakis(pyrazole)cobalt(II): Fine tuning in the stabilization of coordination entities by using intramolecular hydrogen bonding. Inorganica Chimica Acta, 2013, 407, 7-10.	2.4	6
124	In Situ Hydrothermal Synthesis of Grapheneâ€“CuO Nanocomposites for Lithium Battery Applications. Journal of Nanoscience and Nanotechnology, 2016, 16, 317-320.	0.9	6
125	Bioactive Tryptophan-Based Copper Complex with Auxiliary Î²-Carboline Spectacle Potential on Human Breast Cancer Cells: In Vitro and In Vivo Studies. Molecules, 2021, 26, 1606.	3.8	6
126	New Heterocyclic Compounds: Synthesis, Antioxidant Activity and Computational Insights of Nano-Antioxidant as Ascorbate Peroxidase Inhibitor by Various Cyclodextrins as Drug Delivery Systems. Current Drug Delivery, 2021, 18, 334-349.	1.6	6

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127	Crystal structure, Hirshfeld surfaces, topology, energy frameworks and dielectric studies of 1-(2-chlorophenyl)- 3,3-bis(methylthio)prop-2-en-1-one. Zeitschrift Fur Kristallographie - Crystalline Materials, 2020, 235, 85-93.	0.8	6
128	Microwaveâ€assisted Nâ€alkylation of amines with alcohols catalyzed by MnCl₂: Anticancer, docking, and DFT studies. Archiv Der Pharmazie, 2022, 355, e2100443.	4.1	6
129	Synthesis, structure and spectroscopic properties of bis(triphenylphosphane)iminium (phenylacetylido)(cyanido)aurate(I) monoacetone monohydrate, (PPN)[Au(CN)(CCC6H5)]Â·H2OÂ·(CH3)2CO and bis(triphenylphosphane)iminium (t-butylacetylido)(cyanido)aurate(I) monohydrate, (PPN)[Au(CN)(CCC4H9)]Â·H2O. Polyhedron, 2015, 88, 1-5.	2.2	5
130	Synthesis of Novel Tetra(Âμ3-Methoxo) Bridged with [Cu(II)-O-Cd(II)] Double-Open-Cubane Cluster: XRD/HSA-Interactions, Spectral and Oxidizing Properties. International Journal of Molecular Sciences, 2020, 21, 8787.	4.1	5
131	Instant and quantitative epoxidation of styrene under ambient conditions over a nickel(<scp>ii</scp>)dibenzotetramethyltetraaza[14]annulene complex immobilized on amino-functionalized SBA-15. RSC Advances, 2020, 10, 35407-35418.	3.6	5
132	Organometallic ruthenium (Î·⁶-p-cymene) complexes interfering with quorum sensing and biofilm formation: an anti-infective approach to combat multidrug-resistance in bacteria. New Journal of Chemistry, 2021, 45, 2184-2199.	2.8	5
133	A novel biocompatible formate bridged 1D-Cu(<scp>ii</scp>) coordination polymer induces apoptosis selectively in human lung adenocarcinoma (A549) cells. Dalton Transactions, 2021, 50, 2253-2267.	3.3	5
134	A Novel Combined Treatment Process of Hybrid Biosorbentâ€“Nanofiltration for Effective Pb(II) Removal from Wastewater. Water (Switzerland), 2021, 13, 3316.	2.7	5
135	Production of Biodiesel from Spirogyra elongata, a Common Freshwater Green Algae with High Oil Content. Sustainability, 2021, 13, 12737.	3.2	5
136	Systematic study of physicochemical and electrochemical properties of carbon nanomaterials. RSC Advances, 2022, 12, 15593-15600.	3.6	5
137	Surface functionalization of mesoporous silica nanoparticles with brÃ¸nsted acids as a catalyst for esterificatsion reaction. Journal of King Saud University - Science, 2022, 34, 102106.	3.5	5
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