

Awais Ahmad

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

2,374
citations

201674

27
h-index

243625

44
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92
all docs

92
docs citations

92
times ranked

1567
citing authors

#	ARTICLE	IF	CITATIONS
1	Bio-construction of MgO nanoparticles using Texas sage plant extract for catalytical degradation of methylene blue via photocatalysis. International Journal of Environmental Science and Technology, 2023, 20, 1451-1462.	3.5	18
2	Synthesis and characterization of Ceria incorporated Nickel oxide nanocomposite for promising degradation of methylene blue via photocatalysis. International Journal of Environmental Science and Technology, 2022, 19, 6445-6452.	3.5	4
3	Synthesis of Cr doped LiMnPO_4 cathode materials and investigation of their dielectric properties. International Journal of Energy Research, 2022, 46, 810-821.	4.5	8
4	Alleviating lead-induced phytotoxicity and enhancing the phytoremediation of castor bean (<i>Ricinus</i>) antioxidants, gas exchange and lead uptake. International Journal of Phytoremediation, 2022, 24, 933-944.	3.1	8
5	Eco-friendly soy protein isolate-based films strengthened by water-soluble glycerin epoxy resin. Progress in Organic Coatings, 2022, 162, 106566.	3.9	8
6	Photocatalytic observation of visible-light-driven Ag-doped ZnSe nanoparticles and their bio-effectiveness. International Journal of Environmental Science and Technology, 2022, 19, 10223-10232.	3.5	4
7	Bio-Construction of CuO Nanoparticles Using Texas Sage Plant Extract for catalytical degradation of Methylene blue Via Photocatalysis. Journal of Molecular Structure, 2022, 1256, 132522.	3.6	15
8	Self-assembled pine-like CuCo/CP configuration as efficient electrocatalysts toward electrochemical water splitting. Journal of Molecular Liquids, 2022, 351, 118635.	4.9	5
9	Binder-Free Porous 3D-ZnO Hexagonal-Cubes for Electrochemical Energy Storage Applications. Materials, 2022, 15, 2250.	2.9	3
10	Catharanthus roseus leaf extract mediated Ag-MgO nanocatalyst for photocatalytic degradation of Congo red dye and their antibacterial activity. Journal of Molecular Structure, 2022, 1262, 133005.	3.6	28
11	Surface activated commercial carbon cloth as superior electrodes for symmetric supercapacitors. Materials Letters, 2022, 315, 131985.	2.6	9
12	Insight into immobilization efficiency of Lipase enzyme as a biocatalyst on the graphene oxide for adsorption of Azo dyes from industrial wastewater effluent. Journal of Molecular Liquids, 2022, 354, 118849.	4.9	29
13	Nickel ions abatement from aqueous solutions and shipbuilding industry wastewater using ZIF-8-chicken beak hydroxyapatite. Journal of Molecular Liquids, 2022, 356, 119003.	4.9	70
14	Evaluation of congo red dye doped magnesium sulphate crystal and their structural, optical, morphological, electrical and biological activities. Journal of Molecular Structure, 2022, 1260, 132837.	3.6	2
15	Review article-Amalgamation, scrutinizing, and biological evaluation of the antimicrobial aptitude of thiosemicarbazide Schiff bases derivatives metal complexes. Inorganic Chemistry Communication, 2022, 141, 109459.	3.9	12
16	Highly effective bifunctional electrochemical activity of $\text{Ag}_2\text{O}/\text{PrO}_2$ electrocatalysts towards OER and ORR. International Journal of Energy Research, 2022, 46, 14161-14173.	4.5	12
17	Green Synthesis of Silver Nanoparticles Using Thespesia populnea Bark Extract for Efficient Removal of Methylene Blue (MB) Degradation via Photocatalysis with Antimicrobial Activity and for Anticancer Activity. Bioinorganic Chemistry and Applications, 2022, 2022, 1-12.	4.1	7
18	Charge storage in binder-free 2D-hexagonal CoMoO_4 nanosheets as a redox active material for pseudocapacitors. Ceramics International, 2021, 47, 8659-8667.	4.8	99

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19	Critical green routing synthesis of silver NPs using jasmine flower extract for biological activities and photocatalytical degradation of methylene blue. Journal of Environmental Chemical Engineering, 2021, 9, 104877.	6.7	145
20	Facet controlled polyhedral ZIF-8 MOF nanostructures for excellent NO ₂ gas-sensing applications. Materials Research Bulletin, 2021, 136, 111133.	5.2	85
21	Experimental and theoretical study of highly porous lignocellulose assisted metal oxide photoelectrodes for dye-sensitized solar cells. Arabian Journal of Chemistry, 2021, 14, 102937.	4.9	31
22	Antibiotic drug resistance and its impact with nonmaterial. , 2021, , 355-375.		0
23	Carbon nanotubes for neural cell growth. , 2021, , 337-353.		1
24	Recent advancement and development in nanoneurology. , 2021, , 173-191.		0
25	Recent advancements, developments, and regulatory issues in nanomedicine. , 2021, , 39-55.		0
26	Introduction to nanomedicine an overview. , 2021, , 1-20.		1
27	A Critical Review on the Synthesis of Natural Sodium Alginate Based Composite Materials: An Innovative Biological Polymer for Biomedical Delivery Applications. Processes, 2021, 9, 137.	2.8	67
28	Functionalized multi-walled carbon nanotubes and hydroxyapatite nanorods reinforced with polypropylene for biomedical application. Scientific Reports, 2021, 11, 843.	3.3	33
29	Organic sensitization of graphene oxide and reduced graphene oxide thin films for photovoltaic applications. International Journal of Energy Research, 2021, 45, 9657-9666.	4.5	12
30	Nanomaterial synthesis protocols. , 2021, , 73-85.		0
31	Role of XRD for nanomaterial analysis. , 2021, , 149-161.		1
32	Role of silver nanoparticles in multifunctional drug delivery. , 2021, , 297-319.		1
33	Nanomedicine: Promises and challenges. , 2021, , 109-123.		2
34	Amino acid profile and safety assessment of infant formula available in local market, Pakistan. International Journal of Food Properties, 2021, 24, 533-543.	3.0	5
35	Creating Smart and Functional Textile Materials with Graphene. Materials Horizons, 2021, , 411-444.	0.6	1
36	Metals Phytoextraction by Brassica Species. , 2021, , 361-384.		2

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37	NiCo ₂ O ₄ Nanosheets for High Performances Formaldehyde Gas Sensing Performances. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2021, 16, 288-292.	0.5	4
38	Effect of potassium permanganate on morphological, structural and electro-optical properties of graphene oxide thin films. <i>Arabian Journal of Chemistry</i> , 2021, 14, 102953.	4.9	36
39	Surface charge on chitosan/cellulose nanowhiskers composite via functionalized and untreated carbon nanotube. <i>Arabian Journal of Chemistry</i> , 2021, 14, 103022.	4.9	29
40	Facile synthesis of ceria-based composite oxide materials by combustion for high-performance solid oxide fuel cells. <i>Ceramics International</i> , 2021, 47, 22035-22041.	4.8	8
41	Lanthanum-Zinc Binary Oxide Nanocomposite with Promising Heterogeneous Catalysis Performance for the Active Conversion of 4-Nitrophenol into 4-Aminophenol. <i>Coatings</i> , 2021, 11, 537.	2.6	24
42	Combined Citric Acid and Glutathione Augments Lead (Pb) Stress Tolerance and Phytoremediation of Castorbean through Antioxidant Machinery and Pb Uptake. <i>Sustainability</i> , 2021, 13, 4073.	3.2	20
43	Photo-electrochemical water splitting through graphene-based ZnS composites for H ₂ production. <i>Journal of Electroanalytical Chemistry</i> , 2021, 889, 115223.	3.8	19
44	Cu-doped zeolite imidazole framework (ZIF-8) for effective electrocatalytic CO ₂ reduction. <i>Journal of CO₂ Utilization</i> , 2021, 48, 101523.	6.8	46
45	Combined use of different nanoparticles effectively decreased cadmium (Cd) concentration in grains of wheat grown in a field contaminated with Cd. <i>Ecotoxicology and Environmental Safety</i> , 2021, 215, 112139.	6.0	46
46	Radical Scavenging and Catalytic Activity of Fe-Cu Bimetallic Nanoparticles Synthesized from <i>Ixora finlaysoniana</i> Extract. <i>Coatings</i> , 2021, 11, 813.	2.6	29
47	Toxicity and remediation of pharmaceuticals and pesticides using metal oxides and carbon nanomaterials. <i>Chemosphere</i> , 2021, 275, 130055.	8.2	89
48	The nexus of industrialization, GDP per capita and CO ₂ emission in China. <i>Environmental Technology and Innovation</i> , 2021, 23, 101674.	6.1	57
49	Synthesis and Characterization of Sr-Doped ZnSe Nanoparticles for Catalytic and Biological Activities. <i>Water (Switzerland)</i> , 2021, 13, 2189.	2.7	22
50	A review on the properties and applications of chitosan, cellulose and deep eutectic solvent in green chemistry. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 104, 362-380.	5.8	72
51	Photocatalytic and Biological Activity of ZnO Nanoparticles Using Honey. <i>Coatings</i> , 2021, 11, 1046.	2.6	8
52	Photocatalytic degradation of malachite green and methylene blue over reduced graphene oxide (rGO) based metal oxides (rGO-Fe ₃ O ₄ /TiO ₂) nanocomposite under UV-visible light irradiation. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105580.	6.7	128
53	Cerium based metal organic framework derived composite with reduced graphene oxide as efficient supercapacitor electrode. <i>Journal of Energy Storage</i> , 2021, 41, 102999.	8.1	15
54	ZIF 67 derived Co-Sn composites with N-doped nanoporous carbon as anode material for Li-ion batteries. <i>Materials Chemistry and Physics</i> , 2021, 270, 124824.	4.0	14

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55	Photocatalytic Dye Degradation and Biological Activities of Cu-Doped ZnSe Nanoparticles and Their Insights. <i>Water (Switzerland)</i> , 2021, 13, 2561.	2.7	17
56	Antioxidant and Organic Dye Removal Potential of Cu-Ni Bimetallic Nanoparticles Synthesized Using <i>Gazania rigens</i> Extract. <i>Water (Switzerland)</i> , 2021, 13, 2653.	2.7	21
57	Graphene Oxide/Nickel Chromite Nanocomposite: Optimized Synthesis, Structural and Optical Properties. <i>ECS Journal of Solid State Science and Technology</i> , 2021, 10, 101005.	1.8	12
58	Incorporation of Bi ₂ O ₃ Residuals with Metallic Bi as High Performance Electrocatalyst toward Hydrogen Evolution Reaction. <i>Catalysts</i> , 2021, 11, 1099.	3.5	20
59	2D V ₂ O ₅ nanoflakes as a binder-free electrode material for high-performance pseudocapacitor. <i>Ceramics International</i> , 2021, 47, 25152-25157.	4.8	52
60	Amalgamation and Scrutinizing of Leucine Derivatives Schiff bases Complexes as Antimicrobial Agent. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2021, 25, .	1.1	1
61	Au@GO@g-C ₃ N ₄ and Fe ₂ O ₃ nanocomposite for efficient photocatalytic and electrochemical applications. <i>Surfaces and Interfaces</i> , 2021, 26, 101399.	3.0	16
62	Design and fabrication of bimetallic oxide nanonest-like structure/carbon cloth composite electrode for supercapacitors. <i>Ceramics International</i> , 2021, 47, 30747-30755.	4.8	33
63	Free-standing 3D Co ₃ O ₄ @NF micro-flowers composed of porous ultra-long nanowires as an advanced cathode material for supercapacitor. <i>Current Applied Physics</i> , 2021, 31, 221-227.	2.4	22
64	Nanomedicine and tissue engineering. , 2021, , 261-277.		2
65	Electrophilicity in heterogeneous catalysis: role of surface and sub-surface modification. <i>Catalysis Science and Technology</i> , 2021, 11, 4315-4326.	4.1	9
66	MXene/Ag ₂ CrO ₄ Nanocomposite as Supercapacitors Electrode. <i>Materials</i> , 2021, 14, 6008.	2.9	13
67	ZnO Nano-Flowers Assembled on Carbon Fiber Textile for High-Performance Supercapacitor's Electrode. <i>Coatings</i> , 2021, 11, 1337.	2.6	21
68	Synthesis, Characterization and Photodegradation Studies of Copper Oxide's Graphene Nanocomposites. <i>Coatings</i> , 2021, 11, 1452.	2.6	1
69	UV-Light Mediated Biosynthesis of Silver Nanowires; Characterization, Dye Degradation Potential and Kinetic Studies. <i>Sustainability</i> , 2021, 13, 13220.	3.2	12
70	Combined Application of Citric Acid and Cr Resistant Microbes Improved Castor Bean Growth and Photosynthesis while It Alleviated Cr Toxicity by Reducing Cr ⁺⁶ to Cr ⁺³ . <i>Microorganisms</i> , 2021, 9, 2499.	3.6	6
71	Energy Optimization of PR-LEACH Routing Scheme Using Distance Awareness in Internet of Things Networks. <i>International Journal of Parallel Programming</i> , 2020, 48, 244-263.	1.5	14
72	Synthesis and characterization of sulfonamide metal complexes as antimicrobial agents. <i>Journal of Molecular Structure</i> , 2020, 1202, 127284.	3.6	35

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73	8.0 MeV copper ion (Cu ⁺⁺) irradiation-induced effects on structural, electrical, optical and electrochemical properties of Co ₃ O ₄ -NiO-ZnO/GO nanowires. <i>Materials Science for Energy Technologies</i> , 2020, 3, 193-200.	1.8	26
74	Synthesis, Characterization and Wettability of Cu-Sn Alloy on the Si-Implanted 6H-SiC. <i>Coatings</i> , 2020, 10, 906.	2.6	24
75	Recent advancement and development of chitin and chitosan-based nanocomposite for drug delivery: Critical approach to clinical research. <i>Arabian Journal of Chemistry</i> , 2020, 13, 8935-8964.	4.9	59
76	A novel study on synthesis of egg shell based activated carbon for degradation of methylene blue via photocatalysis. <i>Arabian Journal of Chemistry</i> , 2020, 13, 8717-8722.	4.9	88
77	Relief Role of Lysine Chelated Zinc (Zn) on 6-Week-Old Maize Plants under Tannery Wastewater Irrigation Stress. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 5161.	2.6	15
78	Thermally reduced mesoporous manganese MOF @reduced graphene oxide nanocomposite as bifunctional electrocatalyst for oxygen reduction and evolution. <i>RSC Advances</i> , 2020, 10, 27728-27742.	3.6	27
79	Influence of Metal-Resistant <i>Staphylococcus aureus</i> Strain K1 on the Alleviation of Chromium Stress in Wheat. <i>Agronomy</i> , 2020, 10, 1354.	3.0	15
80	An experimental and DFT study on novel dyes incorporated with natural dyes on titanium dioxide (TiO ₂) towards solar cell application. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	34
81	Plant Extract Induced Biogenic Preparation of Silver Nanoparticles and Their Potential as Catalyst for Degradation of Toxic Dyes. <i>Coatings</i> , 2020, 10, 1235.	2.6	45
82	Encapsulation of <i>Bifidobacterium bifidum</i> by internal gelation method to access the viability in cheddar cheese and under simulated gastrointestinal conditions. <i>Food Science and Nutrition</i> , 2020, 8, 2739-2747.	3.4	22
83	EH-UWSN: Improved Cooperative Routing Scheme for UWSNs Using Energy Harvesting. <i>Journal of Sensors</i> , 2020, 2020, 1-18.	1.1	9
84	Synthesis, spectral and antimicrobial studies of amino acid derivative Schiff base metal (Co, Mn, Cu,) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf</i> 642-649.	3.9	114
85	Role of Nanoparticle in Cosmetics Industries. , 2019, , 173-204.		2
86	Potato peel waste-its nutraceutical, industrial and biotechnological applications. <i>AIMS Agriculture and Food</i> , 2019, 4, 807-823.	1.6	69
87	Impact of intermittent fasting on human health: an extended review of metabolic cascades. <i>International Journal of Food Properties</i> , 2018, 21, 2700-2713.	3.0	10
88	Optimal planting systems for cut gladiolus and stock production. <i>Ornamental Horticulture</i> , 2017, 23, 345.	1.0	1
89	Fenugreek a multipurpose crop: Potentialities and improvements. <i>Saudi Journal of Biological Sciences</i> , 2016, 23, 300-310.	3.8	104
90	Synthesis, Characterization and Biological Studies of Bis- $\{[1/4-2,2\text{-}[\text{ethane-1,3-diyl-bis(nitrilomethylidene)]diphenolato}\}$ dicopper(II) Using Triple Component Solvent System. <i>Asian Journal of Chemistry</i> , 2013, 25, 521-524.	0.3	6