

# Awais Ahmad

## List of Publications by Year in descending order

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90  
papers

2,374  
citations

201674

27  
h-index

243625

44  
g-index

92  
all docs

92  
docs citations

92  
times ranked

1567  
citing authors

#	ARTICLE	IF	CITATIONS
1	Critical green routing synthesis of silver NPs using jasmine flower extract for biological activities and photocatalytic degradation of methylene blue. Journal of Environmental Chemical Engineering, 2021, 9, 104877.	6.7	145
2	Photocatalytic degradation of malachite green and methylene blue over reduced graphene oxide (rGO) based metal oxides (rGO-Fe <sub>3</sub> O <sub>4</sub> /TiO <sub>2</sub> ) nanocomposite under UV-visible light irradiation. Journal of Environmental Chemical Engineering, 2021, 9, 105580.	6.7	128
3	Synthesis, spectral and antimicrobial studies of amino acid derivative Schiff base metal (Co, Mn, Cu,) Tj ETQq1 1 0.784314 rgBT /Over 642-649.	3.9	114
4	Fenugreek a multipurpose crop: Potentialities and improvements. Saudi Journal of Biological Sciences, 2016, 23, 300-310.	3.8	104
5	Charge storage in binder-free 2D-hexagonal CoMoO <sub>4</sub> nanosheets as a redox active material for pseudocapacitors. Ceramics International, 2021, 47, 8659-8667.	4.8	99
6	Toxicity and remediation of pharmaceuticals and pesticides using metal oxides and carbon nanomaterials. Chemosphere, 2021, 275, 130055.	8.2	89
7	A novel study on synthesis of egg shell based activated carbon for degradation of methylene blue via photocatalysis. Arabian Journal of Chemistry, 2020, 13, 8717-8722.	4.9	88
8	Facet controlled polyhedral ZIF-8 MOF nanostructures for excellent NO <sub>2</sub> gas-sensing applications. Materials Research Bulletin, 2021, 136, 111133.	5.2	85
9	A review on the properties and applications of chitosan, cellulose and deep eutectic solvent in green chemistry. Journal of Industrial and Engineering Chemistry, 2021, 104, 362-380.	5.8	72
10	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
11	Potato peel waste-its nutraceutical, industrial and biotechnological applacations. AIMS Agriculture and Food, 2019, 4, 807-823.	1.6	69
12	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
13	Recent advancement and development of chitin and chitosan-based nanocomposite for drug delivery: Critical approach to clinical research. Arabian Journal of Chemistry, 2020, 13, 8935-8964.	4.9	59
14	The nexus of industrialization, GDP per capita and CO <sub>2</sub> emission in China. Environmental Technology and Innovation, 2021, 23, 101674.	6.1	57
15	2D V <sub>2</sub> O <sub>5</sub> nanoflakes as a binder-free electrode material for high-performance pseudocapacitor. Ceramics International, 2021, 47, 25152-25157.	4.8	52
16	Cu-doped zeolite imidazole framework (ZIF-8) for effective electrocatalytic CO <sub>2</sub> reduction. Journal of CO <sub>2</sub> Utilization, 2021, 48, 101523.	6.8	46
17	Combined use of different nanoparticles effectively decreased cadmium (Cd) concentration in grains of wheat grown in a field contaminated with Cd. Ecotoxicology and Environmental Safety, 2021, 215, 112139.	6.0	46
18	Plant Extract Induced Biogenic Preparation of Silver Nanoparticles and Their Potential as Catalyst for Degradation of Toxic Dyes. Coatings, 2020, 10, 1235.	2.6	45

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19	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
20	Synthesis and characterization of sulfonamide metal complexes as antimicrobial agents. <i>Journal of Molecular Structure</i> , 2020, 1202, 127284.	3.6	35
21	An experimental and DFT study on novel dyes incorporated with natural dyes on titanium dioxide (TiO <sub>2</sub> ) towards solar cell application. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	34
22	Functionalized multi-walled carbon nanotubes and hydroxyapatite nanorods reinforced with polypropylene for biomedical application. <i>Scientific Reports</i> , 2021, 11, 843.	3.3	33
23	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
24	Experimental and theoretical study of highly porous lignocellulose assisted metal oxide photoelectrodes for dye-sensitized solar cells. <i>Arabian Journal of Chemistry</i> , 2021, 14, 102937.	4.9	31
25	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
26	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
27	Insight into immobilization efficiency of Lipase enzyme as a biocatalyst on the graphene oxide for adsorption of Azo dyes from industrial wastewater effluent. <i>Journal of Molecular Liquids</i> , 2022, 354, 118849.	4.9	29
28	<i>Catharanthus roseus</i> leaf extract mediated Ag-MgO nanocatalyst for photocatalytic degradation of Congo red dye and their antibacterial activity. <i>Journal of Molecular Structure</i> , 2022, 1262, 133005.	3.6	28
29	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
30	8.0 MeV copper ion (Cu <sup>++</sup> ) irradiation-induced effects on structural, electrical, optical and electrochemical properties of Co <sub>3</sub> O <sub>4</sub> -NiO-ZnO/GO nanowires. <i>Materials Science for Energy Technologies</i> , 2020, 3, 193-200.	1.8	26
31	Synthesis, Characterization and Wettability of Cu-Sn Alloy on the Si-Implanted 6H-SiC. <i>Coatings</i> , 2020, 10, 906.	2.6	24
32	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
33	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
34	Synthesis and Characterization of Sr-Doped ZnSe Nanoparticles for Catalytic and Biological Activities. <i>Water (Switzerland)</i> , 2021, 13, 2189.	2.7	22
35	Free-standing 3D Co <sub>3</sub> O <sub>4</sub> @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
36	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

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37	ZnO Nano-Flowers Assembled on Carbon Fiber Textile for High-Performance Supercapacitor's Electrode. <i>Coatings</i> , 2021, 11, 1337.	2.6	21
38	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
39	Incorporation of Bi <sub>2</sub> O <sub>3</sub> Residuals with Metallic Bi as High Performance Electrocatalyst toward Hydrogen Evolution Reaction. <i>Catalysts</i> , 2021, 11, 1099.	3.5	20
40	Photo-electrochemical water splitting through graphene-based ZnS composites for H <sub>2</sub> production. <i>Journal of Electroanalytical Chemistry</i> , 2021, 889, 115223.	3.8	19
41	Bio-construction of MgO nanoparticles using Texas sage plant extract for catalytical degradation of methylene blue via photocatalysis. <i>International Journal of Environmental Science and Technology</i> , 2023, 20, 1451-1462.	3.5	18
42	Photocatalytic Dye Degradation and Biological Activities of Cu-Doped ZnSe Nanoparticles and Their Insights. <i>Water (Switzerland)</i> , 2021, 13, 2561.	2.7	17
43	Au@GO@g-C <sub>3</sub> N <sub>4</sub> and Fe <sub>2</sub> O <sub>3</sub> nanocomposite for efficient photocatalytic and electrochemical applications. <i>Surfaces and Interfaces</i> , 2021, 26, 101399.	3.0	16
44	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
45	Influence of Metal-Resistant Staphylococcus aureus Strain K1 on the Alleviation of Chromium Stress in Wheat. <i>Agronomy</i> , 2020, 10, 1354.	3.0	15
46	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
47	Bio-Construction of CuO Nanoparticles Using Texas Sage Plant Extract for catalytical degradation of Methylene blue Via Photocatalysis. <i>Journal of Molecular Structure</i> , 2022, 1256, 132522.	3.6	15
48	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
49	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
50	MXene/Ag <sub>2</sub> CrO <sub>4</sub> Nanocomposite as Supercapacitors Electrode. <i>Materials</i> , 2021, 14, 6008.	2.9	13
51	Organic sensitization of graphene oxide and reduced graphene oxide thin films for photovoltaic applications. <i>International Journal of Energy Research</i> , 2021, 45, 9657-9666.	4.5	12
52	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
53	UV-Light Mediated Biosynthesis of Silver Nanowires; Characterization, Dye Degradation Potential and Kinetic Studies. <i>Sustainability</i> , 2021, 13, 13220.	3.2	12
54	Review article-Amalgamation, scrutinizing, and biological evaluation of the antimicrobial aptitude of thiosemicarbazide Schiff bases derivatives metal complexes. <i>Inorganic Chemistry Communication</i> , 2022, 141, 109459.	3.9	12

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55	Highly effective bifunctional electrochemical activity of $\text{Ag}_2\text{O}/\text{PrO}_2$ / $\text{Al}_2\text{O}_3$ electrocatalysts towards OER and ORR. International Journal of Energy Research, 2022, 46, 14161-14173.	4.5	12
56	Impact of intermittent fasting on human health: an extended review of metabolic cascades. International Journal of Food Properties, 2018, 21, 2700-2713.	3.0	10
57	Electrophilicity in heterogeneous catalysis: role of surface and sub-surface modification. Catalysis Science and Technology, 2021, 11, 4315-4326.	4.1	9
58	EH-UWSN: Improved Cooperative Routing Scheme for UWSNs Using Energy Harvesting. Journal of Sensors, 2020, 2020, 1-18.	1.1	9
59	Surface activated commercial carbon cloth as superior electrodes for symmetric supercapacitors. Materials Letters, 2022, 315, 131985.	2.6	9
60	Facile synthesis of ceria-based composite oxide materials by combustion for high-performance solid oxide fuel cells. Ceramics International, 2021, 47, 22035-22041.	4.8	8
61	Synthesis of Cr doped $\text{LiMnPO}_4$ cathode materials and investigation of their dielectric properties. International Journal of Energy Research, 2022, 46, 810-821.	4.5	8
62	Photocatalytic and Biological Activity of ZnO Nanoparticles Using Honey. Coatings, 2021, 11, 1046.	2.6	8
63	Alleviating lead-induced phytotoxicity and enhancing the phytoremediation of castor bean ( <i>Ricinus</i> ) Tj ETQq1 1 0.784314 rgBT /Over antioxidants, gas exchange and lead uptake. International Journal of Phytoremediation, 2022, 24, 933-944.	3.1	8
64	Eco-friendly soy protein isolate-based films strengthened by water-soluble glycerin epoxy resin. Progress in Organic Coatings, 2022, 162, 106566.	3.9	8
65	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
66	Synthesis, Characterization and Biological Studies of Bis-( $\eta^4$ -2,2'-[ethane-1,3-diyl-bis(nitrilomethylidene)]diphenolato}dicopper(II) Using Triple Component Solvent System. Asian Journal of Chemistry, 2013, 25, 521-524.	0.3	6
67	Combined Application of Citric Acid and Cr Resistant Microbes Improved Castor Bean Growth and Photosynthesis while It Alleviated Cr Toxicity by Reducing Cr <sup>+6</sup> to Cr <sup>3+</sup> . Microorganisms, 2021, 9, 2499.	3.6	6
68	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
69	Self-assembled pine-like $\text{CuCo}/\text{CP}$ configuration as efficient electrocatalysts toward electrochemical water splitting. Journal of Molecular Liquids, 2022, 351, 118635.	4.9	5
70	$\text{NiCo}_2\text{O}_4$ Nanosheets for High Performances Formaldehyde Gas Sensing Performances. Journal of Nanoelectronics and Optoelectronics, 2021, 16, 288-292.	0.5	4
71	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
72	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

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73	Binder-Free Porous 3D-ZnO Hexagonal-Cubes for Electrochemical Energy Storage Applications. <i>Materials</i> , 2022, 15, 2250.	2.9	3
74	Nanomedicine: Promises and challenges. , 2021, , 109-123.		2
75	Metals Phytoextraction by Brassica Species. , 2021, , 361-384.		2
76	Nanomedicine and tissue engineering. , 2021, , 261-277.		2
77	Role of Nanoparticle in Cosmetics Industries. , 2019, , 173-204.		2
78	Evaluation of congo red dye doped magnesium sulphate crystal and their structural, optical, morphological, electrical and biological activities. <i>Journal of Molecular Structure</i> , 2022, 1260, 132837.	3.6	2
79	Carbon nanotubes for neural cell growth. , 2021, , 337-353.		1
80	Introduction to nanomedicine an overview. , 2021, , 1-20.		1
81	Role of XRD for nanomaterial analysis. , 2021, , 149-161.		1
82	Role of silver nanoparticles in multifunctional drug delivery. , 2021, , 297-319.		1
83	Creating Smart and Functional Textile Materials with Graphene. <i>Materials Horizons</i> , 2021, , 411-444.	0.6	1
84	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
85	Optimal planting systems for cut gladiolus and stock production. <i>Ornamental Horticulture</i> , 2017, 23, 345.	1.0	1
86	Synthesis, Characterization and Photodegradation Studies of Copper Oxideâ€“Graphene Nanocomposites. <i>Coatings</i> , 2021, 11, 1452.	2.6	1
87	Antibiotic drug resistance and its impact with nonmaterial. , 2021, , 355-375.		0
88	Recent advancement and development in nanoneurology. , 2021, , 173-191.		0
89	Recent advancements, developments, and regulatory issues in nanomedicine. , 2021, , 39-55.		0
90	Nanomaterial synthesis protocols. , 2021, , 73-85.		0