

M Ahmaruzzaman

List of Publications by Year in descending order

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112
papers

8,580
citations

61984

43
h-index

45317

90
g-index

115
all docs

115
docs citations

115
times ranked

9502
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of efficient magnetic Fe ₂ O ₃ -activated Bakelite nanocomposite as an adsorbent for removal of Victoria blue dye from water. <i>International Journal of Environmental Analytical Chemistry</i> , 2022, 102, 7953-7968.	3.3	12
2	Tin oxide based nanostructured materials: synthesis and potential applications. <i>Nanoscale</i> , 2022, 14, 1566-1605.	5.6	67
3	ZnO nanostructured materials and their potential applications: progress, challenges and perspectives. <i>Nanoscale Advances</i> , 2022, 4, 1868-1925.	4.6	181
4	Ionic liquid based composites: A versatile materials for remediation of aqueous environmental contaminants. <i>Journal of Environmental Management</i> , 2022, 315, 115089.	7.8	13
5	L-lysine mediated facile synthesis of SnO ₂ -biochar nanocomposite and its excellent photocatalytic activity for the reduction of Cr(VI) and degradation of acid yellow 23 dye. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 13376-13397.	2.2	7
6	SnO ₂ Nanoparticles@CeO ₂ Nanorods Enriched with Oxygen Vacancies for Bifunctional Sensing Performances toward Toxic CO Gas and Arsenate Ions. <i>ACS Omega</i> , 2022, 7, 20357-20368.	3.5	14
7	Remediation of Fluoride from Groundwater Using Modified Pineapple Juice Extracted Residue. <i>International Journal of Environmental Research</i> , 2022, 16, .	2.3	3
8	Fabrication of ZnO@SnO ₂ nanocomposite and its photocatalytic activity for enhanced degradation of Biebrich scarlet. <i>Environmental Science and Pollution Research</i> , 2022, 29, 87347-87360.	5.3	17
9	Novel Ag-SnO ₂ -gC ₃ N ₄ ternary nanocomposite based gas sensor for enhanced low-concentration NO ₂ sensing at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2021, 326, 128910.	7.8	41
10	Facile synthesis of rGO/Ag@AgCl core-shells nanocomposite and their multifunctional efficacy as a photocatalyst and antimicrobial agent for decontamination of water. <i>Journal of Alloys and Compounds</i> , 2021, 860, 157988.	5.5	13
11	Novel magnetically retrievable In ₂ O ₃ /MoS ₂ /Fe ₃ O ₄ nanocomposite materials for enhanced photocatalytic performance. <i>Scientific Reports</i> , 2021, 11, 6379.	3.3	19
12	Bio-inspired green synthesis of reclaimable ZnO nanoclusters using <i>Parkia speciosa</i> Hassk pods and its potential photocatalytic removal of water-borne pollutant and antioxidant activities. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 12042-12058.	2.2	2
13	Correlative HHV prediction from proximate and ultimate analysis of char obtained from co-cracking of residual fuel oil with plastics. <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 1370-1380.	2.7	5
14	Novel SnO ₂ @ZIF-8/gC ₃ N ₄ nanohybrids for excellent electrochemical performance towards sensing of p-nitrophenol. <i>Environmental Research</i> , 2021, 197, 111077.	7.5	48
15	Novel CuO/Mn ₃ O ₄ /ZnO nanocomposite with superior photocatalytic activity for removal of Rabeprazole from water. <i>Scientific Reports</i> , 2021, 11, 15187.	3.3	49
16	Fly ash@based nanocomposites: a potential material for effective photocatalytic degradation/elimination of emerging organic pollutants from aqueous stream. <i>Environmental Science and Pollution Research</i> , 2021, 28, 46910-46933.	5.3	28
17	Biochar based nanocomposites for photocatalytic degradation of emerging organic pollutants from water and wastewater. <i>Materials Research Bulletin</i> , 2021, 140, 111262.	5.2	86
18	Cerium oxide and its nanocomposites: Structure, synthesis, and wastewater treatment applications. <i>Materials Today Communications</i> , 2021, 28, 102562.	1.9	36

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19	Recent advances in the development of nanocomposites for effective removal of pesticides from aqueous stream. <i>Journal of Nanoparticle Research</i> , 2021, 23, 1.	1.9	9
20	Au@SnO ₂ @CdS ternary nanoheterojunction composite for enhanced visible light-induced photodegradation of imidacloprid. <i>Environmental Research</i> , 2021, 201, 111586.	7.5	25
21	MoS ₂ based nanocomposites: An excellent material for energy and environmental applications. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105836.	6.7	54
22	Smart materials for remediation of aqueous environmental contaminants. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106486.	6.7	12
23	Photocatalytic performance of g-C ₃ N ₄ based nanocomposites for effective degradation/removal of dyes from water and wastewater. <i>Materials Research Bulletin</i> , 2021, 143, 111417.	5.2	111
24	Facile fabrication of novel Fe ₃ O ₄ -SnO ₂ -gC ₃ N ₄ ternary nanocomposites and their photocatalytic properties towards the degradation of carbofuran. <i>Chemosphere</i> , 2021, 285, 131395.	8.2	26
25	Facile fabrication of g-C ₃ N ₄ supported Fe ₃ O ₄ nanoparticles/ZnO nanorods: A superlative visible light responsive architecture for express degradation of pantoprazole. <i>Chemical Engineering Journal</i> , 2020, 387, 123766.	12.7	59
26	A facile approach for elimination of ibuprofen from wastewater: an experimental and theoretical study. <i>Water and Environment Journal</i> , 2020, 34, 435-443.	2.2	5
27	Biogenic synthesis of SnO ₂ quantum dots encapsulated carbon nanoflakes: An efficient integrated photocatalytic adsorbent for the removal of bisphenol A from aqueous solution. <i>Journal of Alloys and Compounds</i> , 2020, 828, 154093.	5.5	24
28	Thermal and catalytic decomposition of waste plastics and its co-processing with petroleum residue through pyrolysis process. <i>Journal of Cleaner Production</i> , 2020, 265, 121639.	9.3	95
29	A novel Au-SnO ₂ -rGO ternary nanoheterojunction catalyst for UV-LED induced photocatalytic degradation of clothianidin: Identification of reactive intermediates, degradation pathway and in-depth mechanistic insight. <i>Journal of Hazardous Materials</i> , 2020, 397, 122685.	12.4	40
30	Enhanced performance of a novel superparamagnetic g-C ₃ N ₄ /NiO/ZnO/Fe ₃ O ₄ nano hybrid photocatalyst for removal of esomeprazole: Effects of reaction parameters, co-existing substances and water matrices. <i>Chemical Engineering Journal</i> , 2020, 395, 124969.	12.7	93
31	Environmentally benign fabrication of SnO ₂ -CNT nano hybrids and their multifunctional efficiency as an adsorbent, catalyst and antimicrobial agent for water decontamination. <i>Scientific Reports</i> , 2019, 9, 12935.	3.3	51
32	Biomass derived activated carbon loaded silver nanoparticles: An effective nanocomposites for enhanced solar photocatalysis and antimicrobial activities. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 76, 160-172.	5.8	52
33	Bioinspired green synthesis of engineered CuSnO ₃ quantum dots: An effective material for superior photocatalytic degradation of Rabeprazole. <i>Materials Letters</i> , 2019, 240, 193-196.	2.6	11
34	Biogenic synthesis of SnO ₂ /activated carbon nanocomposite and its application as photocatalyst in the degradation of naproxen. <i>Applied Surface Science</i> , 2018, 449, 780-789.	6.1	62
35	Facile preparation of Copper nanoparticles using <i>Coccinia grandis</i> fruit extract and its application towards the reduction of toxic nitro compound. <i>Materials Today: Proceedings</i> , 2018, 5, 2098-2104.	1.8	20
36	Green synthesis of SnO ₂ quantum dots using <i>Parkia speciosa</i> Hassk pods extract for the evaluation of anti-oxidant and photocatalytic properties. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 184, 44-53.	3.8	61

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37	Microwave assisted facile and green route for synthesis of CuO nanoleaves and their efficacy as a catalyst for reduction and degradation of hazardous organic compounds. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 353, 215-228.	3.9	55
38	CTAB and SDS assisted facile fabrication of SnO ₂ nanoparticles for effective degradation of carbamazepine from aqueous phase: A systematic and comparative study of their degradation performance. <i>Water Research</i> , 2018, 129, 470-485.	11.3	47
39	Ecofriendly bio-synthetic route to synthesize ZnO nanoparticles using <i>Eryngium foetidum</i> L. and their activity against pathogenic bacteria. <i>Materials Letters</i> , 2018, 228, 37-41.	2.6	27
40	Catalytic co-cracking of waste polypropylene and residual fuel oil. <i>Petroleum Science and Technology</i> , 2018, 36, 1455-1462.	1.5	8
41	Biogenic green synthetic route for Janus type Ag:SnO ₂ asymmetric nanocomposite arrays: Plasmonic activation of wide band gap semiconductors towards photocatalytic degradation of Doripenem. <i>Materials Letters</i> , 2018, 230, 203-206.	2.6	16
42	Î±-Amino acid assisted facile synthesis of two-dimensional ZnO nanotriangles for removal of noxious pollutants from water phase. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 4970-4979.	6.7	5
43	Bio-inspired facile and green fabrication of Au@Ag@AgCl core-shell double shells nanoparticles and their potential applications for elimination of toxic emerging pollutants: A green and efficient approach for wastewater treatment. <i>Chemical Engineering Journal</i> , 2017, 317, 726-741.	12.7	60
44	AgNPs-AC Composite for Effective Removal (Degradation) of Naphthol Green B Dye from Aqueous Solution. <i>ChemistrySelect</i> , 2017, 2, 9201-9210.	1.5	7
45	MnO doped SnO ₂ nanocatalysts: Activation of wide band gap semiconducting nanomaterials towards visible light induced photoelectrocatalytic water oxidation. <i>Journal of Colloid and Interface Science</i> , 2017, 505, 756-762.	9.4	29
46	Bioinspired Green and Facile Fabrication of Au@Ag@AgCl Hybrid Nanoparticles and Their Catalytic and Antimicrobial Properties. <i>ChemistrySelect</i> , 2017, 2, 5950-5957.	1.5	4
47	CuO nanostructures: facile synthesis and applications for enhanced photodegradation of organic compounds and reduction of p-nitrophenol from aqueous phase. <i>RSC Advances</i> , 2016, 6, 41348-41363.	3.6	107
48	Photodegradation of methyl violet 6B and methylene blue using tin-oxide nanoparticles (synthesized) <i>Tj ETQq0 0 0,rgBT /Overlock 10 Tf</i>	3.9	59
49	l-lysine monohydrate mediated facile and environment friendly synthesis of SnO ₂ nanoparticles and their prospective applications as a catalyst for the reduction and photodegradation of aromatic compounds. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 2976-2989.	6.7	29
50	Photo-catalytic activity of Plasmonic Ag@AgCl nanoparticles (synthesized via a green route) for the effective degradation of Victoria Blue B from aqueous phase. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 160, 260-270.	3.8	56
51	Surfactant mediated facile fabrication of SnO ₂ quantum dots and their degradation behavior of humic acid. <i>Materials Letters</i> , 2016, 185, 123-126.	2.6	17
52	Photocatalytic decomposition behavior and reaction pathways of organic compounds using Cu nanoparticles synthesized via a green route. <i>Photochemical and Photobiological Sciences</i> , 2016, 15, 1272-1281.	2.9	26
53	Tin oxide nanostructured materials: an overview of recent developments in synthesis, modifications and potential applications. <i>RSC Advances</i> , 2016, 6, 110996-111015.	3.6	79
54	Bio-inspired sustainable and green synthesis of plasmonic Ag/AgCl nanoparticles for enhanced degradation of organic compound from aqueous phase. <i>Environmental Science and Pollution Research</i> , 2016, 23, 17702-17714.	5.3	56

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55	Investigation on the effective remediation of quinoline at solid/solution interface using modified agricultural waste: an inclusive study. <i>International Journal of Environmental Science and Technology</i> , 2016, 13, 1177-1188.	3.5	13
56	A new and facile strategy for the one-pot fabrication of luminescent gold nanoclusters and their prospective application. <i>RSC Advances</i> , 2016, 6, 44-56.	3.6	10
57	A facile and green strategy for the synthesis of 1-dimensional luminescent ZnO nanorods and their reduction behavior for aromatic nitro-compounds. <i>RSC Advances</i> , 2016, 6, 527-533.	3.6	8
58	Facile synthesis of 2D CuO nanoleaves for the catalytic elimination of hazardous and toxic dyes from aqueous phase: a sustainable approach. <i>Environmental Science and Pollution Research</i> , 2016, 23, 11668-11676.	5.3	11
59	Indigenous north eastern India fern mediated fabrication of spherical silver and anisotropic gold nano structured materials and their efficacy for the abatement of perilous organic compounds from waste water-A green approach. <i>RSC Advances</i> , 2016, 6, 21076-21089.	3.6	11
60	A review on potential usage of industrial waste materials for binding heavy metal ions from aqueous solutions. <i>Journal of Water Process Engineering</i> , 2016, 10, 39-47.	5.6	297
61	Removal of naproxen from aqueous environment using porous sugarcane bagasse: impact of ionic strength, hardness and surfactant. <i>Research on Chemical Intermediates</i> , 2016, 42, 1463-1485.	2.7	7
62	A Rapid Facile and Green Synthesis of Silver Nanoparticles and Its Exploitation as a Catalyst for the Removal of Hazardous Dye. <i>Advanced Science Letters</i> , 2016, 22, 95-98.	0.2	1
63	A green approach for the synthesis of SnO ₂ nanoparticles and its application in the reduction of p-nitrophenol. <i>Materials Letters</i> , 2015, 157, 260-264.	2.6	54
64	Activated charcoal-magnetic nanocomposite for remediation of simulated dye polluted wastewater. <i>Water Science and Technology</i> , 2015, 71, 1361-1366.	2.5	8
65	Fabrication and characterization of novel lignocellulosic biomass tailored Fe ₃ O ₄ nanocomposites: influence of annealing temperature and chlorazol black E sequestration. <i>RSC Advances</i> , 2015, 5, 107466-107473.	3.6	13
66	Remediation of Eriochrome Black T-contaminated aqueous solutions utilizing H ₃ PO ₄ -modified berry leaves as a non-conventional adsorbent. <i>Desalination and Water Treatment</i> , 2015, 56, 1507-1519.	1.0	22
67	A novel and green process for the production of tin oxide quantum dots and its application as a photocatalyst for the degradation of dyes from aqueous phase. <i>Journal of Colloid and Interface Science</i> , 2015, 448, 130-139.	9.4	53
68	A novel green and template free approach for the synthesis of gold nanorice and its utilization as a catalyst for the degradation of hazardous dye. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 142, 266-270.	3.9	22
69	A green and novel approach for the synthesis of SnO ₂ nanoparticles and its exploitation as a catalyst in the degradation of methylene blue under solar radiation. <i>Materials Letters</i> , 2015, 145, 74-78.	2.6	52
70	Biogenic synthesis of Cu nanoparticles and its degradation behavior for methyl red. <i>Materials Letters</i> , 2015, 159, 168-171.	2.6	36
71	High-value utilization of egg shell to synthesize Silver and Gold-Silver core shell nanoparticles and their application for the degradation of hazardous dyes from aqueous phase-A green approach. <i>Journal of Colloid and Interface Science</i> , 2015, 453, 115-131.	9.4	51
72	A novel and greener approach for shape controlled synthesis of gold and gold-silver core shell nanostructure and their application in optical coatings. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 145, 280-288.	3.9	15

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73	Facile synthesis of 2-dimensional CuO nanoleaves and their degradation behavior for Eosin Y. <i>Materials Letters</i> , 2015, 161, 20-25.	2.6	14
74	Novel Averrhoa carambola extract stabilized magnetite nanoparticles: a green synthesis route for the removal of chlorazol black E from wastewater. <i>RSC Advances</i> , 2015, 5, 74645-74655.	3.6	22
75	Green synthesis of copper nanoparticles for the efficient removal (degradation) of dye from aqueous phase. <i>Environmental Science and Pollution Research</i> , 2015, 22, 20092-20100.	5.3	81
76	A facile synthesis of Fe ₃ O ₄ @charcoal composite for the sorption of a hazardous dye from aquatic environment. <i>Journal of Environmental Management</i> , 2015, 163, 163-173.	7.8	47
77	A novel synthesis of Fe ₂ O ₃ @activated carbon composite and its exploitation for the elimination of carcinogenic textile dye from an aqueous phase. <i>RSC Advances</i> , 2015, 5, 10575-10586.	3.6	61
78	Comparative study of waste derived adsorbents for sequestering methylene blue from aquatic environment. <i>Journal of Environmental Chemical Engineering</i> , 2015, 3, 395-404.	6.7	19
79	Decontamination of cationic and anionic dyes in single and binary mode from aqueous phase by mesoporous pulp waste. <i>Environmental Progress and Sustainable Energy</i> , 2015, 34, 724-735.	2.3	18
80	Lithium dodecyl sulphate assisted synthesis of Ag nanoparticles and its exploitation as a catalyst for the removal of toxic dyes. <i>Journal of Molecular Liquids</i> , 2015, 201, 113-123.	4.9	28
81	Adsorptive desulfurization of feed diesel using chemically impregnated coconut coir waste. <i>International Journal of Environmental Science and Technology</i> , 2015, 12, 2847-2856.	3.5	29
82	Facile synthesis of SnO ₂ quantum dots and its photocatalytic activity in the degradation of eosin Y dye: A green approach. <i>Materials Letters</i> , 2015, 139, 418-421.	2.6	70
83	Amino acid mediated synthesis of luminescent SnO ₂ nanoparticles. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 22, 138-146.	5.8	18
84	A novel approach for the synthesis of SnO ₂ nanoparticles and its application as a catalyst in the reduction and photodegradation of organic compounds. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 136, 751-760.	3.9	122
85	Scavenging behavior of <i>Schumannianthus dichotomus</i> -derived activated carbon for the removal of methylene blue from aqueous phase. <i>Environmental Progress and Sustainable Energy</i> , 2014, 33, 1148-1157.	2.3	6
86	Lignocellulosic-derived modified agricultural waste: Development, characterisation and implementation in sequestering pyridine from aqueous solutions. <i>Journal of Colloid and Interface Science</i> , 2014, 428, 222-234.	9.4	38
87	Biomimetic synthesis of silver nanoparticles using the fish scales of <i>Labeo rohita</i> and their application as catalysts for the reduction of aromatic nitro compounds. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 131, 413-423.	3.9	37
88	A Non-Conventional Adsorbent for the Removal of Clofibric Acid from Aqueous Phase. <i>Separation Science and Technology</i> , 2014, 49, 1592-1603.	2.5	19
89	Comparative Adsorption Behavior of Ibuprofen and Clofibric Acid onto Microwave Assisted Activated Bamboo Waste. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 9331-9339.	3.7	73
90	Phenolic Wastewater Treatment. , 2014, , 323-368.		9

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91	A simple approach for the synthesis of silver nanoparticles and their application as a catalyst for the photodegradation of methyl violet 6B dye under solar irradiation. <i>Journal of Environmental Chemical Engineering</i> , 2014, 2, 2269-2279.	6.7	46
92	TG-DTA Studies on the Cracking of Petroleum Vacuum Residue and Its Co-cracking with Plastics, Coal, and Biomass. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2013, 35, 1670-1679.	2.3	2
93	Application of Coal Fly Ash in Air Quality Management. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 15299-15314.	3.7	44
94	Activated Neem Leaf: A Novel Adsorbent for the Removal of Phenol, 4-Nitrophenol, and 4-Chlorophenol from Aqueous Solutions. <i>Journal of Chemical & Engineering Data</i> , 2011, 56, 3004-3016.	1.9	49
95	Rice Husk and Its Ash as Low-Cost Adsorbents in Water and Wastewater Treatment. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 13589-13613.	3.7	722
96	Industrial wastes as low-cost potential adsorbents for the treatment of wastewater laden with heavy metals. <i>Advances in Colloid and Interface Science</i> , 2011, 166, 36-59.	14.7	532
97	A review on the utilization of fly ash. <i>Progress in Energy and Combustion Science</i> , 2010, 36, 327-363.	31.2	1,990
98	Batch adsorption of 4-nitrophenol by acid activated jute stick char: Equilibrium, kinetic and thermodynamic studies. <i>Chemical Engineering Journal</i> , 2010, 158, 173-180.	12.7	155
99	Activated Tea Waste as a Potential Low-Cost Adsorbent for the Removal of <i>p</i> -Nitrophenol from Wastewater. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 4614-4623.	1.9	91
100	Role of Fly Ash in the Removal of Organic Pollutants from Wastewater. <i>Energy & Fuels</i> , 2009, 23, 1494-1511.	5.1	123
101	Adsorption of phenolic compounds on low-cost adsorbents: A review. <i>Advances in Colloid and Interface Science</i> , 2008, 143, 48-67.	14.7	742
102	Characterization of liquid products obtained from co-cracking of petroleum vacuum residue with coal and biomass. <i>Journal of Analytical and Applied Pyrolysis</i> , 2008, 81, 37-44.	5.5	19
103	Proximate analyses and predicting HHV of chars obtained from cocracking of petroleum vacuum residue with coal, plastics and biomass. <i>Bioresource Technology</i> , 2008, 99, 5043-5050.	9.6	41
104	Characterization of liquid products from the co-cracking of ternary and quaternary mixture of petroleum vacuum residue, polypropylene, Samla coal and Calotropis Procera. <i>Fuel</i> , 2008, 87, 1967-1973.	6.4	12
105	Kinetic Studies on Cocracking of Petroleum Vacuum Residue with Thermoplastics and Biomass (Petrocrop). <i>Petroleum Science and Technology</i> , 2007, 25, 925-936.	1.5	8
106	Nano Composite from Coal Modified Novolac Resin. <i>Polymer-Plastics Technology and Engineering</i> , 2007, 46, 811-814.	1.9	3
107	Coprocessing of Petroleum Vacuum Residue with Plastics, Coal, and Biomass and Its Synergistic Effects. <i>Energy & Fuels</i> , 2007, 21, 891-897.	5.1	52
108	Characterization of Liquid Products Obtained from Cocracking of Petroleum Vacuum Residue with Plastics. <i>Energy & Fuels</i> , 2006, 20, 2498-2503.	5.1	24

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109	Adsorption of phenols from wastewater. <i>Journal of Colloid and Interface Science</i> , 2005, 287, 14-24.	9.4	376
110	Ecofriendly biosynthetic route for production of Cu nanoparticles and evaluation of their photocatalytic activities for degradation of organic compounds. <i>Journal of the Iranian Chemical Society</i> , 0, , 1.	2.2	1
111	CeO ₂ /Fe ₃ O ₄ /g-C ₃ N ₄ nanohybrid for adsorptive removal of Rose Bengal from aqueous stream. <i>International Journal of Environmental Analytical Chemistry</i> , 0, , 1-20.	3.3	8
112	M-xenes and mxene based nanocomposites: a new generation potential materials for removal of organic contaminants from water. <i>International Journal of Environmental Analytical Chemistry</i> , 0, , 1-17.	3.3	1