

Mu Naushad

List of Publications by Year in descending order

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473
papers

31,115
citations

2795

94
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7718

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476
all docs

476
docs citations

476
times ranked

20206
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient techniques for the removal of toxic heavy metals from aquatic environment: A review. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 2782-2799.	3.3	1,066
2	Activated lignin-chitosan extruded blends for efficient adsorption of methylene blue. <i>Chemical Engineering Journal</i> , 2017, 307, 264-272.	6.6	601
3	Hexavalent chromium removal from aqueous medium by activated carbon prepared from peanut shell: Adsorption kinetics, equilibrium and thermodynamic studies. <i>Chemical Engineering Journal</i> , 2012, 184, 238-247.	6.6	581
4	Novel development of nanoparticles to bimetallic nanoparticles and their composites: A review. <i>Journal of King Saud University - Science</i> , 2019, 31, 257-269.	1.6	431
5	Novel Metal-Organic Framework (MOF) Based Composite Material for the Sequestration of U(VI) and Th(IV) Metal Ions from Aqueous Environment. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 36026-36037.	4.0	405
6	Phytoremediation of heavy metals: mechanisms, methods and enhancements. <i>Environmental Chemistry Letters</i> , 2018, 16, 1339-1359.	8.3	394
7	Surfactant assisted nano-composite cation exchanger: Development, characterization and applications for the removal of toxic Pb ²⁺ from aqueous medium. <i>Chemical Engineering Journal</i> , 2014, 235, 100-108.	6.6	384
8	Nickel ferrite bearing nitrogen-doped mesoporous carbon as efficient adsorbent for the removal of highly toxic metal ion from aqueous medium. <i>Chemical Engineering Journal</i> , 2017, 330, 1351-1360.	6.6	356
9	Synthesis and characterization of a new starch/SnO ₂ nanocomposite for efficient adsorption of toxic Hg ²⁺ metal ion. <i>Chemical Engineering Journal</i> , 2016, 300, 306-316.	6.6	329
10	Adsorption kinetics, isotherm and reusability studies for the removal of cationic dye from aqueous medium using arginine modified activated carbon. <i>Journal of Molecular Liquids</i> , 2019, 293, 111442.	2.3	323
11	Photodegradation of toxic dye using Gum Arabic-crosslinked-poly(acrylamide)/Ni(OH) ₂ /FeOOH nanocomposites hydrogel. <i>Journal of Cleaner Production</i> , 2019, 241, 118263.	4.6	322
12	Facile mercury detection and removal from aqueous media involving ligand impregnated conjugate nanomaterials. <i>Chemical Engineering Journal</i> , 2016, 290, 243-251.	6.6	320
13	Quaternary magnetic BiOCl/g-C ₃ N ₄ /Cu ₂ O/Fe ₃ O ₄ nano-junction for visible light and solar powered degradation of sulfamethoxazole from aqueous environment. <i>Chemical Engineering Journal</i> , 2018, 334, 462-478.	6.6	311
14	Large-pore diameter nano-adsorbent and its application for rapid lead(II) detection and removal from aqueous media. <i>Chemical Engineering Journal</i> , 2015, 273, 286-295.	6.6	304
15	Desorption of Methylene blue dye from brown macroalgae: Effects of operating parameters, isotherm study and kinetic modeling. <i>Journal of Cleaner Production</i> , 2017, 152, 443-453.	4.6	294
16	Effect of ionic liquid on activity, stability, and structure of enzymes: A review. <i>International Journal of Biological Macromolecules</i> , 2012, 51, 555-560.	3.6	284
17	Guar gum and its composites as potential materials for diverse applications: A review. <i>Carbohydrate Polymers</i> , 2018, 199, 534-545.	5.1	283
18	Investigation of ligand immobilized nano-composite adsorbent for efficient cerium(III) detection and recovery. <i>Chemical Engineering Journal</i> , 2015, 265, 210-218.	6.6	271

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19	Adsorptive performance of MOF nanocomposite for methylene blue and malachite green dyes: Kinetics, isotherm and mechanism. <i>Journal of Environmental Management</i> , 2018, 223, 29-36.	3.8	265
20	Construction of dual Z-scheme g-C ₃ N ₄ /Bi ₄ Ti ₃ O ₁₂ /Bi ₄ O ₅ I ₂ heterojunction for visible and solar powered coupled photocatalytic antibiotic degradation and hydrogen production: Boosting via I ³⁺ /I ²⁺ and Bi ³⁺ /Bi ⁵⁺ redox mediators. <i>Applied Catalysis B: Environmental</i> , 2021, 284, 119808.	10.8	252
21	Adsorption kinetics, isotherms, and thermodynamic studies for the adsorption of Pb ²⁺ and Hg ²⁺ metal ions from aqueous medium using Ti(IV) iodovanadate cation exchanger. <i>Ionics</i> , 2015, 21, 2237-2245.	1.2	248
22	Schiff based ligand containing nano-composite adsorbent for optical copper(II) ions removal from aqueous solutions. <i>Chemical Engineering Journal</i> , 2015, 279, 639-647.	6.6	246
23	Biochar-templated g-C ₃ N ₄ /Bi ₂ O ₂ CO ₃ /CoFe ₂ O ₄ nano-assembly for visible and solar assisted photo-degradation of paraquat, nitrophenol reduction and CO ₂ conversion. <i>Chemical Engineering Journal</i> , 2018, 339, 393-410.	6.6	241
24	Efficient removal of toxic metal ions from wastewater using a recyclable nanocomposite: A study of adsorption parameters and interaction mechanism. <i>Journal of Cleaner Production</i> , 2017, 156, 426-436.	4.6	240
25	Transformation pathways and fate of engineered nanoparticles (ENPs) in distinct interactive environmental compartments: A review. <i>Environment International</i> , 2020, 138, 105646.	4.8	238
26	Electrochemical synthesized copper oxide nanoparticles for enhanced photocatalytic and antimicrobial activity. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 31, 173-184.	2.9	235
27	Functional ligand anchored nanomaterial based facial adsorbent for cobalt(II) detection and removal from water samples. <i>Chemical Engineering Journal</i> , 2015, 271, 155-163.	6.6	230
28	Emerging contaminants of high concern for the environment: Current trends and future research. <i>Environmental Research</i> , 2022, 207, 112609.	3.7	226
29	Sustainable nano-hybrids of magnetic biochar supported g-C ₃ N ₄ /FeVO ₄ for solar powered degradation of noxious pollutants- Synergism of adsorption, photocatalysis & photo-ozonation. <i>Journal of Cleaner Production</i> , 2017, 165, 431-451.	4.6	219
30	Fabrication and characterization of chitosan-crosslinked-poly(alginate) nanohydrogel for adsorptive removal of Cr(VI) metal ion from aqueous medium. <i>International Journal of Biological Macromolecules</i> , 2017, 95, 484-493.	3.6	217
31	Fabrication, characterization and antimicrobial activity of polyaniline Th(IV) tungstomolybdophosphate nanocomposite material: Efficient removal of toxic metal ions from water. <i>Chemical Engineering Journal</i> , 2014, 251, 413-421.	6.6	214
32	Global soil pollution by toxic elements: Current status and future perspectives on the risk assessment and remediation strategies – A review. <i>Journal of Hazardous Materials</i> , 2021, 417, 126039.	6.5	213
33	Applications of nanocomposite hydrogels for biomedical engineering and environmental protection. <i>Environmental Chemistry Letters</i> , 2018, 16, 113-146.	8.3	207
34	Adsorptive Removal of Toxic Dye Using Fe ₃ O ₄ –TSC Nanocomposite: Equilibrium, Kinetic, and Thermodynamic Studies. <i>Journal of Chemical & Engineering Data</i> , 2016, 61, 3806-3813.	1.0	204
35	Highly efficient adsorption of strontium ions by carbonated mesoporous TiO ₂ . <i>Journal of Molecular Liquids</i> , 2019, 285, 742-753.	2.3	204
36	Bio-inspired and biomaterials-based hybrid photocatalysts for environmental detoxification: A review. <i>Chemical Engineering Journal</i> , 2020, 382, 122937.	6.6	201

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37	Photocatalytic degradation of highly toxic dyes using chitosan-g-poly(acrylamide)/ZnS in presence of solar irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 329, 61-68.	2.0	196
38	Revolution from monometallic to trimetallic nanoparticle composites, various synthesis methods and their applications: A review. <i>Materials Science and Engineering C</i> , 2017, 71, 1216-1230.	3.8	195
39	Ion-exchange kinetic studies for Cd(II), Co(II), Cu(II), and Pb(II) metal ions over a composite cation exchanger. <i>Desalination and Water Treatment</i> , 2015, 54, 2883-2890.	1.0	194
40	Wide spectral degradation of Norfloxacin by Ag@BiPO ₄ /BiOBr/BiFeO ₃ nano-assembly: Elucidating the photocatalytic mechanism under different light sources. <i>Journal of Hazardous Materials</i> , 2019, 364, 429-440.	6.5	193
41	Fabrication of MWCNTs/ThO ₂ nanocomposite and its adsorption behavior for the removal of Pb(II) metal from aqueous medium. <i>Desalination and Water Treatment</i> , 2016, 57, 21863-21869.	1.0	192
42	Adsorption kinetics, isotherms, and thermodynamic studies for Hg ²⁺ adsorption from aqueous medium using alizarin red-S-loaded amberlite IRA-400 resin. <i>Desalination and Water Treatment</i> , 2016, 57, 18551-18559.	1.0	192
43	Efficient removal of coomassie brilliant blue R-250 dye using starch/poly(alginic acid-cl-acrylamide) nanohydrogel. <i>Chemical Engineering Research and Design</i> , 2017, 109, 301-310.	2.7	183
44	Adsorption of rose Bengal dye from aqueous solution by amberlite Ira-938 resin: kinetics, isotherms, and thermodynamic studies. <i>Desalination and Water Treatment</i> , 2016, 57, 13527-13533.	1.0	179
45	Fabrication and characterization of Gum arabic-cl-poly(acrylamide) nanohydrogel for effective adsorption of crystal violet dye. <i>Carbohydrate Polymers</i> , 2018, 202, 444-453.	5.1	174
46	Adsorption of textile dye using para-aminobenzoic acid modified activated carbon: Kinetic and equilibrium studies. <i>Journal of Molecular Liquids</i> , 2019, 296, 112075.	2.3	168
47	Adsorptive removal of noxious cadmium ions from aqueous medium using activated carbon/zirconium oxide composite: Isotherm and kinetic modelling. <i>Journal of Molecular Liquids</i> , 2020, 310, 113025.	2.3	164
48	Waterworks sludge-filter sand permeable reactive barrier for removal of toxic lead ions from contaminated groundwater. <i>Journal of Water Process Engineering</i> , 2020, 33, 101112.	2.6	163
49	Separation of toxic Pb ²⁺ metal from aqueous solution using strongly acidic cation-exchange resin: analytical applications for the removal of metal ions from pharmaceutical formulation. <i>Desalination and Water Treatment</i> , 2015, 53, 2158-2166.	1.0	159
50	Preparation of new class composite adsorbent for enhanced palladium(II) detection and recovery. <i>Sensors and Actuators B: Chemical</i> , 2015, 209, 790-797.	4.0	159
51	Facile hetero-assembly of superparamagnetic Fe ₃ O ₄ /BiVO ₄ stacked on biochar for solar photo-degradation of methyl paraben and pesticide removal from soil. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 337, 118-131.	2.0	158
52	Adsorption of Pb(II) from aqueous solution using new adsorbents prepared from agricultural waste: Adsorption isotherm and kinetic studies. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 2193-2199.	2.9	157
53	Nano Fe _x Zn _{1-x} O as a tuneable and efficient photocatalyst for solar powered degradation of bisphenol A from aqueous environment. <i>Journal of Cleaner Production</i> , 2017, 165, 1542-1556.	4.6	157
54	Promising prospects of nanomaterials for arsenic water remediation: A comprehensive review. <i>Chemical Engineering Research and Design</i> , 2019, 126, 60-97.	2.7	156

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55	Highly efficient Sr/Ce/activated carbon bimetallic nanocomposite for photoinduced degradation of rhodamine B. <i>Catalysis Today</i> , 2019, 335, 437-451.	2.2	155
56	Applications of artificial intelligence in water treatment for optimization and automation of adsorption processes: Recent advances and prospects. <i>Chemical Engineering Journal</i> , 2022, 427, 130011.	6.6	155
57	Fabrication and characterization of novel FeO@Guar gum-crosslinked-soya lecithin nanocomposite hydrogel for photocatalytic degradation of methyl violet dye. <i>Separation and Purification Technology</i> , 2019, 211, 895-908.	3.9	152
58	Facile ball-milling synthesis of CeO ₂ /g-C ₃ N ₄ Z-scheme heterojunction for synergistic adsorption and photodegradation of methylene blue: Characteristics, kinetics, models, and mechanisms. <i>Chemical Engineering Journal</i> , 2021, 420, 127719.	6.6	148
59	Photoremediation of toxic dye from aqueous environment using monometallic and bimetallic quantum dots based nanocomposites. <i>Journal of Cleaner Production</i> , 2018, 172, 2919-2930.	4.6	140
60	High-Performance Photocatalytic Hydrogen Production and Degradation of Levofloxacin by Wide Spectrum-Responsive Ag/Fe ₃ O ₄ Bridged SrTiO ₃ /g-C ₃ N ₄ Plasmonic Nanojunctions: Joint Effect of Ag and Fe ₃ O ₄ . <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 40474-40490.	4.0	140
61	SPION/β-cyclodextrin core-shell nanostructures for oil spill remediation and organic pollutant removal from waste water. <i>Chemical Engineering Journal</i> , 2015, 280, 175-187.	6.6	137
62	Novel guar gum/Al ₂ O ₃ nanocomposite as an effective photocatalyst for the degradation of malachite green dye. <i>International Journal of Biological Macromolecules</i> , 2016, 87, 366-374.	3.6	134
63	Preparation of chitosan based magnetic nanocomposite for tetracycline adsorption: Kinetic and thermodynamic studies. <i>International Journal of Biological Macromolecules</i> , 2020, 147, 258-267.	3.6	133
64	Effective adsorption of antidiabetic pharmaceutical (metformin) from aqueous medium using graphene oxide nanoparticles: Equilibrium and statistical modelling. <i>Journal of Molecular Liquids</i> , 2020, 301, 112426.	2.3	128
65	Synthesis, characterization of curcumin based ecofriendly antimicrobial bio-adsorbent for the removal of phenol from aqueous medium. <i>Chemical Engineering Journal</i> , 2014, 254, 181-189.	6.6	126
66	Highly visible active Ag ₂ CrO ₄ /Ag/BiFeO ₃ @RGO nano-junction for photoreduction of CO ₂ and photocatalytic removal of ciprofloxacin and bromate ions: The triggering effect of Ag and RGO. <i>Chemical Engineering Journal</i> , 2019, 370, 148-165.	6.6	126
67	Modification of <i>Hibiscus cannabinus</i> fiber by graft copolymerization: application for dye removal. <i>Desalination and Water Treatment</i> , 2015, 54, 3114-3121.	1.0	125
68	Effective and fast adsorptive removal of toxic cationic dye (MB) from aqueous medium using amino-functionalized magnetic multiwall carbon nanotubes. <i>Journal of Molecular Liquids</i> , 2019, 282, 154-161.	2.3	124
69	Excellent adsorptive performance of a new nanocomposite for removal of toxic Pb(II) from aqueous environment: Adsorption mechanism and modeling analysis. <i>Journal of Hazardous Materials</i> , 2020, 389, 121896.	6.5	123
70	A novel agricultural waste based adsorbent for the removal of Pb(II) from aqueous solution: Kinetics, equilibrium and thermodynamic studies. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 454-461.	2.9	121
71	Recent advances in nano-Fenton catalytic degradation of emerging pharmaceutical contaminants. <i>Journal of Molecular Liquids</i> , 2019, 290, 111177.	2.3	120
72	Kinetic, equilibrium isotherm and thermodynamic studies of Cr(VI) adsorption onto low-cost adsorbent developed from peanut shell activated with phosphoric acid. <i>Environmental Science and Pollution Research</i> , 2013, 20, 3351-3365.	2.7	119

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73	Fabrication and characterization of trimetallic nano-photocatalyst for remediation of ampicillin antibiotic. Journal of Molecular Liquids, 2018, 260, 342-350.	2.3	119
74	Green and eco-friendly nanocomposite for the removal of toxic Hg(II) metal ion from aqueous environment: Adsorption kinetics & isotherm modelling. Journal of Molecular Liquids, 2019, 279, 1-8.	2.3	119
75	Synthesis and characterization of polyaniline/ γ -alumina nanocomposite: A comparative study for the adsorption of three different anionic dyes. Journal of Industrial and Engineering Chemistry, 2014, 20, 3890-3900.	2.9	116
76	Magnetically recoverable $ZrO_2/Fe_3O_4/chitosan$ nanomaterials for enhanced sunlight driven photoreduction of carcinogenic $Cr(VI)$ and dechlorination & mineralization of 4-chlorophenol from simulated waste water. RSC Advances, 2016, 6, 13251-13263.	1.7	115
77	N/S doped highly porous magnetic carbon aerogel derived from sugarcane bagasse cellulose for the removal of bisphenol A. International Journal of Biological Macromolecules, 2019, 132, 1031-1038.	3.6	115
78	$Fe_3O_4/ZnO/Si_3N_4$ nanocomposite based photocatalyst for the degradation of dyes from aqueous solution. Materials Letters, 2020, 278, 128359.	1.3	115
79	Polyacrylamide/ $Ni_{0.02}Zn_{0.98}O$ Nanocomposite with High Solar Light Photocatalytic Activity and Efficient Adsorption Capacity for Toxic Dye Removal. Industrial & Engineering Chemistry Research, 2014, 53, 15549-15560.	1.8	113
80	Efficient removal of toxic phosphate anions from aqueous environment using pectin based quaternary amino anion exchanger. International Journal of Biological Macromolecules, 2018, 106, 1-10.	3.6	112
81	Influence of Bi^{3+} -doping on the magnetic and Mössbauer properties of spinel cobalt ferrite. Dalton Transactions, 2015, 44, 6384-6390.	1.6	108
82	Mechanochemical synthesis of Ag/TiO_2 for photocatalytic methyl orange degradation and hydrogen production. Chemical Engineering Research and Design, 2018, 120, 339-347.	2.7	106
83	Efficient photocatalytic degradation of toxic dyes from aqueous environment using gelatin-Zr(IV) phosphate nanocomposite and its antimicrobial activity. Colloids and Surfaces B: Biointerfaces, 2017, 157, 456-463.	2.5	104
84	Synthesis of $NiOx@NPC$ composite for high-performance supercapacitor via waste PET plastic-derived Ni-MOF. Composites Part B: Engineering, 2020, 183, 107655.	5.9	104
85	Polyacrylamide@Zr(IV) vanadophosphate nanocomposite: Ion exchange properties, antibacterial activity, and photocatalytic behavior. Journal of Industrial and Engineering Chemistry, 2016, 33, 201-208.	2.9	102
86	Adsorption-photocatalytic removal of fast sulphon black dye by using chitin-cl-poly(itaconic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 2021, 416, 125714.	6.5	102
87	$ZnSe-WO_3$ nano-hetero-assembly stacked on Gum ghatti for photo-degradative removal of Bisphenol A: Symbiose of adsorption and photocatalysis. International Journal of Biological Macromolecules, 2017, 104, 1172-1184.	3.6	101
88	Waste foundry sand/MgFe-layered double hydroxides composite material for efficient removal of Congo red dye from aqueous solution. Scientific Reports, 2020, 10, 2042.	1.6	101
89	Preparation of a novel chitosan-g-poly(acrylamide)/Zn nanocomposite hydrogel and its applications for controlled drug delivery of ofloxacin. International Journal of Biological Macromolecules, 2016, 84, 340-348.	3.6	100
90	Microwave assisted fabrication of La/Cu/Zr/carbon dots trimetallic nanocomposites with their adsorption vs photocatalytic efficiency for remediation of persistent organic pollutants. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 347, 235-243.	2.0	100

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91	Guar gum-crosslinked-Soya lecithin nanohydrogel sheets as effective adsorbent for the removal of thiophanate methyl fungicide. International Journal of Biological Macromolecules, 2018, 114, 295-305.	3.6	100
92	Visible photodegradation of ibuprofen and 2,4-D in simulated waste water using sustainable metal free-hybrids based on carbon nitride and biochar. Journal of Environmental Management, 2019, 231, 1164-1175.	3.8	100
93	Adsorption of cationic dyes onto carrageenan and itaconic acid-based superabsorbent hydrogel: Synthesis, characterization and isotherm analysis. Journal of Hazardous Materials, 2022, 421, 126729.	6.5	100
94	Fabrication of MoS ₂ /ZnS embedded in N/S doped carbon for the photocatalytic degradation of pesticide. Materials Letters, 2020, 263, 127271.	1.3	99
95	Synthesis and characterization of Fe ₃ O ₄ @TSC nanocomposite: highly efficient removal of toxic metal ions from aqueous medium. RSC Advances, 2016, 6, 22679-22689.	1.7	98
96	Kinetics, thermodynamics and isotherm modeling for removal of nitrate from liquids by facile one-pot electrosynthesized nano zinc hydroxide. Journal of Molecular Liquids, 2016, 215, 204-211.	2.3	98
97	CeO ₂ /g-C ₃ N ₄ /V ₂ O ₅ ternary nano hetero-structures decorated with CQDs for enhanced photo-reduction capabilities under different light sources: Dual Z-scheme mechanism. Journal of Alloys and Compounds, 2020, 838, 155692.	2.8	96
98	Silicate glass matrix@Cu ₂ O/Cu ₂ V ₂ O ₇ p-n heterojunction for enhanced visible light photo-degradation of sulfamethoxazole: High charge separation and interfacial transfer. Journal of Hazardous Materials, 2021, 402, 123790.	6.5	95
99	Adsorptive removal of toxic Methylene Blue and Acid Orange 7 dyes from aqueous medium using cobalt-zinc ferrite nanoadsorbents. , 0, 150, 374-385.		94
100	The structural and magnetic properties of dual phase cobalt ferrite. Scientific Reports, 2017, 7, 2524.	1.6	93
101	Mixed-phase bismuth ferrite nanoflake electrodes for supercapacitor application. Applied Nanoscience (Switzerland), 2016, 6, 511-519.	1.6	92
102	Ultra-sensitive polyaniline@iron oxide nanocomposite room temperature flexible ammonia sensor. RSC Advances, 2015, 5, 68964-68971.	1.7	91
103	Date seeds biomass-derived activated carbon for efficient removal of NaCl from saline solution. Chemical Engineering Research and Design, 2019, 129, 103-111.	2.7	91
104	Solar-driven photodegradation of 17- β -estradiol and ciprofloxacin from waste water and CO ₂ conversion using sustainable coal-char/polymeric-g-C ₃ N ₄ /RGO metal-free nano-hybrids. New Journal of Chemistry, 2017, 41, 10208-10224.	1.4	90
105	Influence of mesoporous defect induced mixed-valent NiO (Ni ²⁺ /Ni ³⁺)-TiO ₂ nanocomposite for non-enzymatic glucose biosensors. Sensors and Actuators B: Chemical, 2018, 264, 27-37.	4.0	88
106	Kinetics, isotherm and thermodynamic investigations for the adsorption of Co(II) ion onto crystal violet modified amberlite IR-120 resin. Ionics, 2015, 21, 1453-1459.	1.2	87
107	Rapid visible and solar photocatalytic Cr(VI) reduction and electrochemical sensing of dopamine using solution combustion synthesized ZnO@Fe ₂ O ₃ nano heterojunctions: Mechanism Elucidation. Ceramics International, 2020, 46, 12255-12268.	2.3	87
108	Metal/metal oxide nanocomposites for bactericidal effect: A review. Chemosphere, 2021, 272, 128607.	4.2	87

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109	Synthesis, characterization, antimicrobial activity and applications of polyanilineTi(IV)arsenophosphate adsorbent for the analysis of organic and inorganic pollutants. Journal of Hazardous Materials, 2014, 264, 481-489.	6.5	84
110	An efficient and cost-effective tri-functional electrocatalyst based on cobalt ferrite embedded nitrogen doped carbon. Journal of Colloid and Interface Science, 2018, 514, 1-9.	5.0	84
111	A review on removal of uranium(VI) ions using titanium dioxide based sorbents. Journal of Molecular Liquids, 2019, 293, 111563.	2.3	84
112	Adsorption of cadmium ion using a new composite cation-exchanger polyaniline Sn(IV) silicate: kinetics, thermodynamic and isotherm studies. International Journal of Environmental Science and Technology, 2013, 10, 567-578.	1.8	82
113	Electrochemical supercapacitor development based on electrodeposited nickel oxide film. RSC Advances, 2015, 5, 51961-51965.	1.7	82
114	A clean approach for the reduction of hazardous 4-nitrophenol using gold nanoparticles decorated multiwalled carbon nanotubes. Journal of Cleaner Production, 2018, 191, 429-435.	4.6	81
115	Pollutants inducing epigenetic changes and diseases. Environmental Chemistry Letters, 2020, 18, 325-343.	8.3	81
116	Method for the fast determination of bromate, nitrate and nitrite by ultra performance liquid chromatography-mass spectrometry and their monitoring in Saudi Arabian drinking water with chemometric data treatment. Talanta, 2016, 152, 513-520.	2.9	79
117	Fabrication and characterization of sodium dodecyl sulphate@iron silicophosphate nanocomposite: Ion exchange properties and selectivity for binary metal ions. Materials Chemistry and Physics, 2017, 193, 129-139.	2.0	79
118	Nanoporous Iron Oxide/Carbon Composites through In-Situ Deposition of Prussian Blue Nanoparticles on Graphene Oxide Nanosheets and Subsequent Thermal Treatment for Supercapacitor Applications. Nanomaterials, 2019, 9, 776.	1.9	78
119	Effective treatment of dye polluted wastewater using nanoporous CaCl ₂ modified polyethersulfone membrane. Chemical Engineering Research and Design, 2019, 124, 266-278.	2.7	77
120	Fabrication of highly porous N/S doped carbon embedded with ZnS as highly efficient photocatalyst for degradation of bisphenol. International Journal of Biological Macromolecules, 2019, 121, 415-423.	3.6	76
121	Synthesis and characterization of highly selective and sensitive Sn/SnO ₂ /N-doped carbon nanocomposite (Sn/SnO ₂ @NGC) for sensing toxic NH ₃ gas. Chemical Engineering Journal, 2018, 345, 58-66.	6.6	75
122	Atrazine removal using chitin-cl-poly(acrylamide-co-itaconic acid) nanohydrogel: Isotherms and pH responsive nature. Carbohydrate Polymers, 2020, 241, 116258.	5.1	74
123	Engineered nanoparticles for removal of pollutants from wastewater: Current status and future prospects of nanotechnology for remediation strategies. Journal of Environmental Chemical Engineering, 2021, 9, 106160.	3.3	74
124	Development of composite ion-exchange adsorbent for pollutants removal from environmental wastes. Chemical Engineering Journal, 2010, 165, 405-412.	6.6	73
125	Utilization of waste polyethylene terephthalate bottles to develop metal-organic frameworks for energy applications: A clean and feasible approach. Journal of Cleaner Production, 2020, 248, 119251.	4.6	73
126	Hospital wastewater as a source of environmental contamination: An overview of management practices, environmental risks, and treatment processes. Journal of Water Process Engineering, 2021, 41, 101990.	2.6	73

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127	Synthesis and characterization of a new inorganic cation-exchanger Zr(IV) tungstomolybdate: Analytical applications for metal content determination in real sample and synthetic mixture. <i>Journal of Hazardous Materials</i> , 2007, 142, 404-411.	6.5	72
128	Organic-inorganic type composite cation exchanger poly-o-toluidine Zr(IV) tungstate: Preparation, physicochemical characterization and its analytical application in separation of heavy metals. <i>Chemical Engineering Journal</i> , 2011, 172, 369-375.	6.6	72
129	New insight into effective biosorption of lead from aqueous solution using <i>Ralstonia solanacearum</i> : Characterization and mechanism studies. <i>Journal of Cleaner Production</i> , 2018, 174, 1234-1239.	4.6	72
130	Green synthesis, structure, cations distribution and bonding characteristics of superparamagnetic cobalt-zinc ferrites nanoparticles for Pb(II) adsorption and magnetic hyperthermia applications. <i>Journal of Molecular Liquids</i> , 2021, 328, 115375.	2.3	72
131	Lanthanum/Cadmium/Polyaniline bimetallic nanocomposite for the photodegradation of organic pollutant. <i>Iranian Polymer Journal (English Edition)</i> , 2015, 24, 1003-1013.	1.3	70
132	Fabrication and characterization of a nanocomposite hydrogel for combined photocatalytic degradation of a mixture of malachite green and fast green dye. <i>Nanotechnology for Environmental Engineering</i> , 2017, 2, 1.	2.0	70
133	Synthesis, characterization and analytical applications of a new composite cation exchanger cellulose acetate-Zr(IV) molybdophosphate. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 316, 217-225.	2.3	69
134	Photocatalytic degradation of bisphenol-A with g-C ₃ N ₄ /MoS ₂ -PANI nanocomposite: Kinetics, main active species, intermediates and pathways. <i>Journal of Molecular Liquids</i> , 2020, 311, 113339.	2.3	69
135	ZnO-based heterostructures as photocatalysts for hydrogen generation and depollution: a review. <i>Environmental Chemistry Letters</i> , 2022, 20, 1047-1081.	8.3	68
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