

Md. Rabiul Awual

List of Publications by Year in descending order

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143
papers

26,180
citations

996

114
h-index

9090

144
g-index

144
all docs

144
docs citations

144
times ranked

7902
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel facial composite adsorbent for enhanced copper(II) detection and removal from wastewater. Chemical Engineering Journal, 2015, 266, 368-375.	6.6	643
2	New type mesoporous conjugate material for selective optical copper(II) ions monitoring & removal from polluted waters. Chemical Engineering Journal, 2017, 307, 85-94.	6.6	407
3	Novel nanocomposite materials for efficient and selective mercury ions capturing from wastewater. Chemical Engineering Journal, 2017, 307, 456-465.	6.6	394
4	Efficient detection and adsorption of cadmium(II) ions using innovative nano-composite materials. Chemical Engineering Journal, 2018, 343, 118-127.	6.6	363
5	Assessing of lead(III) capturing from contaminated wastewater using ligand doped conjugate adsorbent. Chemical Engineering Journal, 2016, 289, 65-73.	6.6	353
6	Radioactive cesium removal from nuclear wastewater by novel inorganic and conjugate adsorbents. Chemical Engineering Journal, 2014, 242, 127-135.	6.6	351
7	pH dependent Cu(II) and Pd(II) ions detection and removal from aqueous media by an efficient mesoporous adsorbent. Chemical Engineering Journal, 2014, 236, 100-109.	6.6	349
8	Treatment of copper(II) containing wastewater by a newly developed ligand based facial conjugate materials. Chemical Engineering Journal, 2016, 288, 368-376.	6.6	341
9	Ring size dependent crown ether based mesoporous adsorbent for high cesium adsorption from wastewater. Chemical Engineering Journal, 2016, 303, 539-546.	6.6	331
10	Efficient phosphate removal from water for controlling eutrophication using novel composite adsorbent. Journal of Cleaner Production, 2019, 228, 1311-1319.	4.6	326
11	Selective cesium removal from radioactive liquid waste by crown ether immobilized new class conjugate adsorbent. Journal of Hazardous Materials, 2014, 278, 227-235.	6.5	323
12	Facile mercury detection and removal from aqueous media involving ligand impregnated conjugate nanomaterials. Chemical Engineering Journal, 2016, 290, 243-251.	6.6	320
13	Solid phase sensitive palladium(II) ions detection and recovery using ligand based efficient conjugate nanomaterials. Chemical Engineering Journal, 2016, 300, 264-272.	6.6	315
14	Trace copper(II) ions detection and removal from water using novel ligand modified composite adsorbent. Chemical Engineering Journal, 2013, 222, 67-76.	6.6	312
15	Copper(II) ions capturing from water using ligand modified a new type mesoporous adsorbent. Chemical Engineering Journal, 2013, 221, 322-330.	6.6	304
16	Large-pore diameter nano-adsorbent and its application for rapid lead(II) detection and removal from aqueous media. Chemical Engineering Journal, 2015, 273, 286-295.	6.6	304
17	Advances in sustainable approaches to recover metals from e-waste-A review. Journal of Cleaner Production, 2020, 244, 118815.	4.6	290
18	A ligand anchored conjugate adsorbent for effective mercury(II) detection and removal from aqueous media. Chemical Engineering Journal, 2018, 334, 432-443.	6.6	278

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19	Enhanced trace phosphate removal from water by zirconium(IV) loaded fibrous adsorbent. <i>Water Research</i> , 2011, 45, 4592-4600.	5.3	277
20	Novel ligand functionalized composite material for efficient copper(II) capturing from wastewater sample. <i>Composites Part B: Engineering</i> , 2019, 172, 387-396.	5.9	275
21	A ligand based innovative composite material for selective lead(II) capturing from wastewater. <i>Journal of Molecular Liquids</i> , 2019, 294, 111679.	2.3	274
22	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
23	Organic-inorganic based nano-conjugate adsorbent for selective palladium(II) detection, separation and recovery. <i>Chemical Engineering Journal</i> , 2015, 259, 611-619.	6.6	268
24	Innovative composite material for efficient and highly selective Pb(II) ion capturing from wastewater. <i>Journal of Molecular Liquids</i> , 2019, 284, 502-510.	2.3	268
25	A facile composite material for enhanced cadmium(II) ion capturing from wastewater. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103378.	3.3	266
26	Inorganic-organic based novel nano-conjugate material for effective cobalt(II) ions capturing from wastewater. <i>Chemical Engineering Journal</i> , 2017, 324, 130-139.	6.6	265
27	Design a novel optical adsorbent for simultaneous ultra-trace cerium(III) detection, sorption and recovery. <i>Chemical Engineering Journal</i> , 2013, 228, 327-335.	6.6	259
28	Ligand field effect for Dysprosium(III) and Lutetium(III) adsorption and EXAFS coordination with novel composite nanomaterials. <i>Chemical Engineering Journal</i> , 2017, 320, 427-435.	6.6	256
29	Ultimate selenium(IV) monitoring and removal from water using a new class of organic ligand based composite adsorbent. <i>Journal of Hazardous Materials</i> , 2015, 291, 111-119.	6.5	250
30	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
31	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
32	Novel composite material for selective copper(II) detection and removal from aqueous media. <i>Journal of Molecular Liquids</i> , 2019, 283, 772-780.	2.3	245
33	Novel conjugated hybrid material for efficient lead(II) capturing from contaminated wastewater. <i>Materials Science and Engineering C</i> , 2019, 101, 686-695.	3.8	241
34	Synthesis a novel multilamellar mesoporous TiO ₂ /ZSM-5 for photo-catalytic degradation of methyl orange dye in aqueous media. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 218-227.	3.3	235
35	Encapsulation of cesium from contaminated water with highly selective facial organic-inorganic mesoporous hybrid adsorbent. <i>Chemical Engineering Journal</i> , 2016, 291, 128-137.	6.6	234
36	Arsenate removal from water by a weak-base anion exchange fibrous adsorbent. <i>Water Research</i> , 2008, 42, 689-696.	5.3	233

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37	Colorimetric detection and removal of copper(II) ions from wastewater samples using tailor-made composite adsorbent. <i>Sensors and Actuators B: Chemical</i> , 2015, 206, 692-700.	4.0	232
38	Offering an innovative composited material for effective lead(II) monitoring and removal from polluted water. <i>Journal of Cleaner Production</i> , 2019, 231, 214-223.	4.6	231
39	Novel conjugate adsorbent for visual detection and removal of toxic lead(II) ions from water. <i>Microporous and Mesoporous Materials</i> , 2014, 196, 261-269.	2.2	230
40	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
41	Cleaning the arsenic(V) contaminated water for safe-guarding the public health using novel composite material. <i>Composites Part B: Engineering</i> , 2019, 171, 294-301.	5.9	228
42	Efficient selenium(IV) detection and removal from water by tailor-made novel conjugate adsorbent. <i>Sensors and Actuators B: Chemical</i> , 2015, 209, 194-202.	4.0	225
43	Introducing an amine functionalized novel conjugate material for toxic nitrite detection and adsorption from wastewater. <i>Journal of Cleaner Production</i> , 2019, 228, 778-785.	4.6	223
44	Efficient biodiesel production from <i>Jatropha curcus</i> using CaSO ₄ /Fe ₂ O ₃ -SiO ₂ core-shell magnetic nanoparticles. <i>Journal of Cleaner Production</i> , 2019, 208, 816-826.	4.6	222
45	Assessing of phosphorus removal by polymeric anion exchangers. <i>Desalination</i> , 2011, 281, 111-117.	4.0	221
46	Natural biodegradable polymeric bioadsorbents for efficient cationic dye encapsulation from wastewater. <i>Journal of Molecular Liquids</i> , 2021, 323, 114587.	2.3	218
47	A weak-base fibrous anion exchanger effective for rapid phosphate removal from water. <i>Journal of Hazardous Materials</i> , 2011, 188, 164-171.	6.5	217
48	Composite nanofibers membranes of poly(vinyl alcohol)/chitosan for selective lead(II) and cadmium(II) ions removal from wastewater. <i>Ecotoxicology and Environmental Safety</i> , 2019, 169, 479-486.	2.9	217
49	Efficient arsenic(V) removal from water by ligand exchange fibrous adsorbent. <i>Water Research</i> , 2012, 46, 5541-5550.	5.3	213
50	Introducing an alternate conjugated material for enhanced lead(II) capturing from wastewater. <i>Journal of Cleaner Production</i> , 2019, 224, 920-929.	4.6	211
51	Current treatment technologies and mechanisms for removal of indigo carmine dyes from wastewater: A review. <i>Journal of Molecular Liquids</i> , 2020, 318, 114061.	2.3	210
52	Fine-tuning mesoporous adsorbent for simultaneous ultra-trace palladium(II) detection, separation and recovery. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 21, 507-515.	2.9	201
53	Novel hierarchical composite adsorbent for selective lead(II) ions capturing from wastewater samples. <i>Chemical Engineering Journal</i> , 2018, 332, 377-386.	6.6	201
54	Evaluation of lanthanide sorption and their coordination mechanism by EXAFS measurement using novel hybrid adsorbent. <i>Chemical Engineering Journal</i> , 2013, 225, 558-566.	6.6	199

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55	Naked-eye lead(II) capturing from contaminated water using innovative large-pore facial composite materials. <i>Microchemical Journal</i> , 2020, 154, 104585.	2.3	195
56	Optimization of an innovative composited material for effective monitoring and removal of cobalt(II) from wastewater. <i>Journal of Molecular Liquids</i> , 2020, 298, 112035.	2.3	194
57	Ultra-trace copper(II) detection and removal from wastewater using novel meso-adsorbent. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 2332-2340.	2.9	191
58	A sensitive ligand embedded nano-conjugate adsorbent for effective cobalt(II) ions capturing from contaminated water. <i>Chemical Engineering Journal</i> , 2015, 276, 1-10.	6.6	187
59	Mesoporous silica based novel conjugate adsorbent for efficient selenium(IV) detection and removal from water. <i>Microporous and Mesoporous Materials</i> , 2014, 197, 331-338.	2.2	185
60	Novel nano-conjugate materials for effective arsenic(V) and phosphate capturing in aqueous media. <i>Chemical Engineering Journal</i> , 2018, 331, 54-63.	6.6	185
61	Novel optical composite material for efficient vanadium(III) capturing from wastewater. <i>Journal of Molecular Liquids</i> , 2019, 283, 704-712.	2.3	182
62	Assessment of enhanced nitrite removal and monitoring using ligand modified stable conjugate materials. <i>Chemical Engineering Journal</i> , 2019, 363, 64-72.	6.6	181
63	Improving cesium removal to clean-up the contaminated water using modified conjugate material. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103684.	3.3	181
64	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
65	Sustainable detection and capturing of cerium(III) using ligand embedded solid-state conjugate adsorbent. <i>Journal of Molecular Liquids</i> , 2021, 338, 116667.	2.3	179
66	A novel ligand based dual conjugate adsorbent for cobalt(II) and copper(II) ions capturing from water. <i>Sensors and Actuators B: Chemical</i> , 2014, 203, 71-80.	4.0	178
67	Development of synthetic zeolites from bio-slag for cesium adsorption: Kinetic, isotherm and thermodynamic studies. <i>Journal of Water Process Engineering</i> , 2020, 33, 101055.	2.6	178
68	Assessing of cesium removal from wastewater using functionalized wood cellulosic adsorbent. <i>Chemosphere</i> , 2021, 270, 128668.	4.2	178
69	Rapid column-mode removal of arsenate from water by crosslinked poly(allylamine) resin. <i>Water Research</i> , 2009, 43, 1229-1236.	5.3	177
70	Removal of trace arsenic(V) and phosphate from water by a highly selective ligand exchange adsorbent. <i>Journal of Environmental Sciences</i> , 2011, 23, 1947-1954.	3.2	177
71	A novel fine-tuning mesoporous adsorbent for simultaneous lead(II) detection and removal from wastewater. <i>Sensors and Actuators B: Chemical</i> , 2014, 202, 395-403.	4.0	177
72	Utilizing an alternative composite material for effective copper(II) ion capturing from wastewater. <i>Journal of Molecular Liquids</i> , 2021, 336, 116325.	2.3	177

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73	A Reliable Hybrid Adsorbent for Efficient Radioactive Cesium Accumulation from Contaminated Wastewater. <i>Scientific Reports</i> , 2016, 6, 19937.	1.6	177
74	Evaluating of arsenic(V) removal from water by weak-base anion exchange adsorbents. <i>Environmental Science and Pollution Research</i> , 2013, 20, 421-430.	2.7	175
75	Efficient adsorbents of nanoporous aluminosilicate monoliths for organic dyes from aqueous solution. <i>Journal of Colloid and Interface Science</i> , 2011, 359, 9-18.	5.0	173
76	Functionalized novel mesoporous adsorbent for selective lead(II) ions monitoring and removal from wastewater. <i>Sensors and Actuators B: Chemical</i> , 2014, 203, 854-863.	4.0	171
77	Visual nickel(II) ions treatment in petroleum samples using a mesoporous composite adsorbent. <i>Chemical Engineering Journal</i> , 2018, 334, 957-967.	6.6	170
78	Efficient cesium encapsulation from contaminated water by cellulosic biomass based activated wood charcoal. <i>Chemosphere</i> , 2021, 262, 127801.	4.2	169
79	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
80	Efficient encapsulation of toxic dyes from wastewater using several biodegradable natural polymers and their composites. <i>Journal of Cleaner Production</i> , 2021, 291, 125920.	4.6	167
81	Selective lanthanide sorption and mechanism using novel hybrid Lewis base (N-methyl-N-phenyl-1,10-phenanthroline-2-carboxamide) ligand modified adsorbent. <i>Journal of Hazardous Materials</i> , 2013, 252-253, 313-320.	6.5	166
82	Efficient toxic nitrite monitoring and removal from aqueous media with ligand based conjugate materials. <i>Journal of Molecular Liquids</i> , 2019, 285, 20-26.	2.3	165
83	A review on nickel(II) adsorption in single and binary component systems and future path. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103305.	3.3	163
84	Investigation of palladium(II) detection and recovery using ligand modified conjugate adsorbent. <i>Chemical Engineering Journal</i> , 2013, 222, 172-179.	6.6	161
85	Ligand based sustainable composite material for sensitive nickel(II) capturing in aqueous media. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103591.	3.3	161
86	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
87	Sustainable toxic dyes removal with advanced materials for clean water production: A comprehensive review. <i>Journal of Cleaner Production</i> , 2022, 332, 130039.	4.6	159
88	Preparing of novel fibrous ligand exchange adsorbent for rapid column-mode trace phosphate removal from water. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 2840-2847.	2.9	158
89	Improving the hydrogen production from water over MgO promoted Ni@Si/CNTs photocatalyst. <i>Journal of Cleaner Production</i> , 2019, 238, 117887.	4.6	158
90	Efficient detection and extraction of cobalt(II) from lithium ion batteries and wastewater by novel composite adsorbent. <i>Sensors and Actuators B: Chemical</i> , 2014, 191, 9-18.	4.0	155

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91	Biodegradable natural carbohydrate polymeric sustainable adsorbents for efficient toxic dye removal from wastewater. <i>Journal of Molecular Liquids</i> , 2020, 319, 114356.	2.3	155
92	Step towards the sustainable toxic dyes removal and recycling from aqueous solution- A comprehensive review. <i>Resources, Conservation and Recycling</i> , 2021, 175, 105849.	5.3	152
93	Large three-dimensional mesopore pores tailoring silica nanotubes as membrane filters: nanofiltration and permeation flux of proteins. <i>Journal of Materials Chemistry</i> , 2011, 21, 5593.	6.7	150
94	Rapid sensing and recovery of palladium(II) using N,N-bis(salicylidene)1,2-bis(2-aminophenylthio)ethane modified sensor ensemble adsorbent. <i>Sensors and Actuators B: Chemical</i> , 2013, 183, 332-341.	4.0	150
95	One-step wet-chemical synthesis of ternary ZnO/CuO/Co ₃ O ₄ nanoparticles for sensitive and selective melamine sensor development. <i>New Journal of Chemistry</i> , 2019, 43, 4849-4858.	1.4	149
96	Non-enzymatic simultaneous detection of L-glutamic acid and uric acid using mesoporous Co ₃ O ₄ nanosheets. <i>RSC Advances</i> , 2016, 6, 80511-80521.	1.7	148
97	Detection of uric acid based on doped ZnO/Ag ₂ O/Co ₃ O ₄ nanoparticle loaded glassy carbon electrode. <i>New Journal of Chemistry</i> , 2019, 43, 8651-8659.	1.4	148
98	Arsenic sensor development based on modification with (E)-N-(2-nitrobenzylidene)-benzenesulfonohydrazide: a real sample analysis. <i>New Journal of Chemistry</i> , 2019, 43, 9066-9075.	1.4	148
99	Assessment of clean H ₂ energy production from water using novel silicon photocatalyst. <i>Journal of Cleaner Production</i> , 2020, 244, 118805.	4.6	148
100	Rapid recognition and recovery of gold(III) with functional ligand immobilized novel mesoporous adsorbent. <i>Microchemical Journal</i> , 2013, 110, 591-598.	2.3	147
101	Simultaneous optical detection and extraction of cobalt(II) from lithium ion batteries using nanocollector monoliths. <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 1015-1025.	4.0	146
102	Mesoporous aluminosilica sensors for the visual removal and detection of Pd(II) and Cu(II) ions. <i>Microporous and Mesoporous Materials</i> , 2013, 166, 195-205.	2.2	143
103	Simultaneous ultra-trace palladium(II) detection and recovery from wastewater using new class meso-adsorbent. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 21, 405-413.	2.9	141
104	Optical mesosensors for monitoring and removal of ultra-trace concentration of Zn(ii) and Cu(ii) ions from water. <i>Analyst</i> , 2012, 137, 5278.	1.7	140
105	4-Hexylresorcinol sensor development based on wet-chemically prepared Co ₃ O ₄ @Er ₂ O ₃ nanorods: A practical approach. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 66, 446-455.	2.9	140
106	Fabrication of 4-aminophenol sensor based on hydrothermally prepared ZnO/Yb ₂ O ₃ nanosheets. <i>New Journal of Chemistry</i> , 2017, 41, 9159-9169.	1.4	139
107	Investigation of potential conjugate adsorbent for efficient ultra-trace gold(III) detection and recovery. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 3493-3501.	2.9	138
108	Efficient gold(III) detection, separation and recovery from urban mining waste using a facial conjugate adsorbent. <i>Sensors and Actuators B: Chemical</i> , 2014, 196, 457-466.	4.0	136

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109	Trace electrochemical detection of Ni ²⁺ ions with bidentate N,N- ϵ^2 -(ethane-1,2-diyl)bis(3,4-dimethoxybenzenesulfonamide) [EDBDMBS] as a chelating agent. <i>Inorganica Chimica Acta</i> , 2017, 464, 157-166.	1.2	135
110	Fabrication of cadmium ionic sensor based on (E)-4-Methyl-N- ϵ^2 -(1-(pyridin-2-yl)ethylidene)benzenesulfonohydrazide (MPEBSH) by electrochemical approach. <i>Journal of Organometallic Chemistry</i> , 2017, 827, 49-55.	0.8	134
111	Nano-composite multi-wall carbon nanotubes using poly(p-phenylene terephthalamide) for enhanced electric conductivity. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103002.	3.3	132
112	Development of 3-methoxyaniline sensor probe based on thin Ag ₂ O@La ₂ O ₃ nanosheets for environmental safety. <i>New Journal of Chemistry</i> , 2019, 43, 4620-4632.	1.4	130
113	A mechanistic approach of chromium (VI) adsorption onto manganese oxides and boehmite. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103515.	3.3	127
114	An efficient composite material for selective lead(II) monitoring and removal from wastewater. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103087.	3.3	123
115	Mesoporous composite material for efficient lead(II) detection and removal from aqueous media. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103124.	3.3	121
116	The Utilization of Algae and Seaweed Biomass for Bioremediation of Heavy Metal-Contaminated Wastewater. <i>Molecules</i> , 2022, 27, 1275.	1.7	89
117	Pollutants inducing epigenetic changes and diseases. <i>Environmental Chemistry Letters</i> , 2020, 18, 325-343.	8.3	81
118	Ultrathin Assemblies of Porous Array for Enhanced H ₂ Evolution. <i>Scientific Reports</i> , 2020, 10, 2324.	1.6	75
119	Fabrication of selective l-glutamic acid sensor in electrochemical technique from wet-chemically prepared RuO ₂ doped ZnO nanoparticles. <i>Materials Chemistry and Physics</i> , 2020, 251, 123029.	2.0	70
120	Investigation of novel nanomaterial for the removal of toxic substances from contaminated water. <i>RSC Advances</i> , 2019, 9, 14167-14175.	1.7	66
121	Efficient Hg(II) ionic probe development based on one-step synthesized diethyl thieno[2,3-b]thiophene-2,5-dicarboxylate (DETTDC2) onto glassy carbon electrode. <i>Microchemical Journal</i> , 2020, 152, 104291.	2.3	66
122	Sustainable approach for wastewater treatment using microbial fuel cells and green energy generation – A comprehensive review. <i>Journal of Molecular Liquids</i> , 2021, 344, 117795.	2.3	65
123	Generation of novel n-p-n (CeO ₂ -PPy-ZnO) heterojunction for photocatalytic degradation of micro-organic pollutants. <i>Environmental Pollution</i> , 2022, 292, 118375.	3.7	62
124	Integrated pre-treatment stage of biosorbent – sonication for mixed brewery and restaurant effluents to enhance the photo-fermentative hydrogen production. <i>Biomass and Bioenergy</i> , 2021, 144, 105899.	2.9	61
125	Bromate removal from water samples using strongly basic anion exchange resin Amberlite IRA-400: kinetics, isotherms and thermodynamic studies. <i>Desalination and Water Treatment</i> , 2016, 57, 5781-5788.	1.0	60
126	Effect of Inorganic Salts on Ternary Equilibrium Data of Propionic Acid-Water-Solvents Systems. <i>Journal of Applied Sciences</i> , 2007, 7, 1053-1060.	0.1	58

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127	Introducing the novel composite photocatalysts to boost the performance of hydrogen (H ₂) production. <i>Journal of Cleaner Production</i> , 2021, 313, 127909.	4.6	57
128	Functionalized layered double hydroxides composite bio-adsorbent for efficient copper(II) ion encapsulation from wastewater. <i>Journal of Environmental Management</i> , 2021, 300, 113782.	3.8	57
129	A ligand-anchored optical composite material for efficient vanadium(V) adsorption and detection in wastewater. <i>New Journal of Chemistry</i> , 2019, 43, 10324-10335.	1.4	55
130	Novel and potential chemical sensors for Au(III) ion detection and recovery in electric waste samples. <i>Microchemical Journal</i> , 2020, 158, 105312.	2.3	52
131	Energy challenges for a clean environment: Bangladesh's experience. <i>Energy Reports</i> , 2021, 7, 3373-3389.	2.5	51
132	Highly effective agro-waste based functional green adsorbents for toxic chromium(VI) ion removal from wastewater. <i>Journal of Molecular Liquids</i> , 2022, 347, 118327.	2.3	51
133	Synthesis of sodium dodecyl sulfate-supported nanocomposite cation exchanger: removal and recovery of Cu ²⁺ from synthetic, pharmaceutical and alloy samples. <i>Journal of the Iranian Chemical Society</i> , 2015, 12, 1677-1686.	1.2	50
134	Advances in physiochemical and biotechnological approaches for sustainable metal recovery from e-waste: A critical review. <i>Journal of Cleaner Production</i> , 2021, 323, 129015.	4.6	50
135	Improving valuable metal ions capturing from spent Li-ion batteries with novel materials and approaches. <i>Journal of Molecular Liquids</i> , 2021, 338, 116703.	2.3	50
136	Towards the robust hydrogen (H ₂) fuel production with niobium complexes-A review. <i>Journal of Cleaner Production</i> , 2021, 318, 128439.	4.6	50
137	A ligand-based conjugate solid sensor for colorimetric ultra-trace gold(III) detection in urban mining waste. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 581, 123842.	2.3	44
138	A novel and potential chemical sensor for effective monitoring of Fe(II) ion in corrosion systems of water samples. <i>Microchemical Journal</i> , 2020, 154, 104578.	2.3	44
139	Water Purification Using Cost Effective Material Prepared from Agricultural Waste: Kinetics, Isotherms, and Thermodynamic Studies. <i>Clean - Soil, Air, Water</i> , 2016, 44, 1036-1045.	0.7	43
140	A snapshot of coal-fired power generation in Bangladesh: A demand-supply outlook. <i>Natural Resources Forum</i> , 2021, 45, 157-182.	1.8	43
141	One-step facile synthesis of SnO ₂ @Nd ₂ O ₃ nanocomposites for selective amidol detection in aqueous phase. <i>New Journal of Chemistry</i> , 2020, 44, 4952-4959.	1.4	41
142	Temporal assessment of heavy metal concentration and surface water quality representing the public health evaluation from the Meghna River estuary, Bangladesh. <i>Applied Water Science</i> , 2021, 11, 1.	2.8	39
143	Functional novel ligand based palladium(II) separation and recovery from e-waste using solvent-ligand approach. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 632, 127767.	2.3	29