

# Md. Rabiul Awual

## List of Publications by Year in descending order

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145  
papers

27,159  
citations

1009

111  
h-index

7391

146  
g-index

147  
all docs

147  
docs citations

147  
times ranked

8209  
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.	13.0	672
2	New type mesoporous conjugate material for selective optical copper(II) ions monitoring & removal from polluted waters. Chemical Engineering Journal, 2017, 307, 85-94.	13.0	429
3	Novel nanocomposite materials for efficient and selective mercury ions capturing from wastewater. Chemical Engineering Journal, 2017, 307, 456-465.	13.0	416
4	Efficient detection and adsorption of cadmium(II) ions using innovative nano-composite materials. Chemical Engineering Journal, 2018, 343, 118-127.	13.0	380
5	Assessing of lead(III) capturing from contaminated wastewater using ligand doped conjugate adsorbent. Chemical Engineering Journal, 2016, 289, 65-73.	13.0	373
6	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.	13.0	371
7	Radioactive cesium removal from nuclear wastewater by novel inorganic and conjugate adsorbents. Chemical Engineering Journal, 2014, 242, 127-135.	13.0	363
8	Treatment of copper(II) containing wastewater by a newly developed ligand based facial conjugate materials. Chemical Engineering Journal, 2016, 288, 368-376.	13.0	362
9	Ring size dependent crown ether based mesoporous adsorbent for high cesium adsorption from wastewater. Chemical Engineering Journal, 2016, 303, 539-546.	13.0	360
10	Efficient phosphate removal from water for controlling eutrophication using novel composite adsorbent. Journal of Cleaner Production, 2019, 228, 1311-1319.	9.5	351
11	Selective cesium removal from radioactive liquid waste by crown ether immobilized new class conjugate adsorbent. Journal of Hazardous Materials, 2014, 278, 227-235.	12.6	339
12	Facile mercury detection and removal from aqueous media involving ligand impregnated conjugate nanomaterials. Chemical Engineering Journal, 2016, 290, 243-251.	13.0	336
13	Solid phase sensitive palladium(II) ions detection and recovery using ligand based efficient conjugate nanomaterials. Chemical Engineering Journal, 2016, 300, 264-272.	13.0	334
14	Advances in sustainable approaches to recover metals from e-waste-A review. Journal of Cleaner Production, 2020, 244, 118815.	9.5	327
15	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.	13.0	323
16	Trace copper(II) ions detection and removal from water using novel ligand modified composite adsorbent. Chemical Engineering Journal, 2013, 222, 67-76.	13.0	322
17	Copper(II) ions capturing from water using ligand modified a new type mesoporous adsorbent. Chemical Engineering Journal, 2013, 221, 322-330.	13.0	318
18	A facile composite material for enhanced cadmium(II) ion capturing from wastewater. Journal of Environmental Chemical Engineering, 2019, 7, 103378.	6.9	294

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19	A ligand anchored conjugate adsorbent for effective mercury(II) detection and removal from aqueous media. Chemical Engineering Journal, 2018, 334, 432-443.	13.0	293
20	A ligand based innovative composite material for selective lead(II) capturing from wastewater. Journal of Molecular Liquids, 2019, 294, 111679.	5.0	292
21	Novel ligand functionalized composite material for efficient copper(II) capturing from wastewater sample. Composites Part B: Engineering, 2019, 172, 387-396.	12.2	289
22	Enhanced trace phosphate removal from water by zirconium(IV) loaded fibrous adsorbent. Water Research, 2011, 45, 4592-4600.	11.5	287
23	Investigation of ligand immobilized nano-composite adsorbent for efficient cerium(III) detection and recovery. Chemical Engineering Journal, 2015, 265, 210-218.	13.0	286
24	Organic-inorganic based nano-conjugate adsorbent for selective palladium(II) detection, separation and recovery. Chemical Engineering Journal, 2015, 259, 611-619.	13.0	285
25	Innovative composite material for efficient and highly selective Pb(II) ion capturing from wastewater. Journal of Molecular Liquids, 2019, 284, 502-510.	5.0	279
26	Inorganic-organic based novel nano-conjugate material for effective cobalt(II) ions capturing from wastewater. Chemical Engineering Journal, 2017, 324, 130-139.	13.0	278
27	Design a novel optical adsorbent for simultaneous ultra-trace cerium(III) detection, sorption and recovery. Chemical Engineering Journal, 2013, 228, 327-335.	13.0	271
28	Ligand field effect for Dysprosium(III) and Lutetium(III) adsorption and EXAFS coordination with novel composite nanomaterials. Chemical Engineering Journal, 2017, 320, 427-435.	13.0	271
29	Adsorption kinetics, isotherms, and thermodynamic studies for the adsorption of Pb <sup>2+</sup> and Hg <sup>2+</sup> metal ions from aqueous medium using Ti(IV) iodovanadate cation exchanger. Ionics, 2015, 21, 2237-2245.	2.5	266
30	Ultimate selenium(IV) monitoring and removal from water using a new class of organic ligand based composite adsorbent. Journal of Hazardous Materials, 2015, 291, 111-119.	12.6	261
31	Novel composite material for selective copper(II) detection and removal from aqueous media. Journal of Molecular Liquids, 2019, 283, 772-780.	5.0	260
32	Schiff based ligand containing nano-composite adsorbent for optical copper(II) ions removal from aqueous solutions. Chemical Engineering Journal, 2015, 279, 639-647.	13.0	258
33	Offering an innovative composited material for effective lead(II) monitoring and removal from polluted water. Journal of Cleaner Production, 2019, 231, 214-223.	9.5	257
34	Novel conjugated hybrid material for efficient lead(II) capturing from contaminated wastewater. Materials Science and Engineering C, 2019, 101, 686-695.	7.6	254
35	Cleaning the arsenic(V) contaminated water for safe-guarding the public health using novel composite material. Composites Part B: Engineering, 2019, 171, 294-301.	12.2	251
36	Synthesis a novel multilamellar mesoporous TiO <sub>2</sub> /ZSM-5 for photo-catalytic degradation of methyl orange dye in aqueous media. Journal of Environmental Chemical Engineering, 2018, 6, 218-227.	6.9	249

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37	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.	9.5	249
38	Encapsulation of cesium from contaminated water with highly selective facial organic–inorganic mesoporous hybrid adsorbent. <i>Chemical Engineering Journal</i> , 2016, 291, 128-137.	13.0	245
39	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.	8.0	241
40	Natural biodegradable polymeric bioadsorbents for efficient cationic dye encapsulation from wastewater. <i>Journal of Molecular Liquids</i> , 2021, 323, 114587.	5.0	241
41	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.	13.0	240
42	Efficient biodiesel production from <i>Jatropha curcus</i> using CaSO <sub>4</sub> /Fe <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> core-shell magnetic nanoparticles. <i>Journal of Cleaner Production</i> , 2019, 208, 816-826.	9.5	240
43	Arsenate removal from water by a weak-base anion exchange fibrous adsorbent. <i>Water Research</i> , 2008, 42, 689-696.	11.5	238
44	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.	4.5	237
45	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.	8.0	232
46	Current treatment technologies and mechanisms for removal of indigo carmine dyes from wastewater: A review. <i>Journal of Molecular Liquids</i> , 2020, 318, 114061.	5.0	232
47	Assessing of phosphorus removal by polymeric anion exchangers. <i>Desalination</i> , 2011, 281, 111-117.	8.4	230
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.	6.2	228
49	A weak-base fibrous anion exchanger effective for rapid phosphate removal from water. <i>Journal of Hazardous Materials</i> , 2011, 188, 164-171.	12.6	226
50	Introducing an alternate conjugated material for enhanced lead(II) capturing from wastewater. <i>Journal of Cleaner Production</i> , 2019, 224, 920-929.	9.5	225
51	Efficient arsenic(V) removal from water by ligand exchange fibrous adsorbent. <i>Water Research</i> , 2012, 46, 5541-5550.	11.5	222
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.	6.0	217
53	Novel hierarchical composite adsorbent for selective lead(II) ions capturing from wastewater samples. <i>Chemical Engineering Journal</i> , 2018, 332, 377-386.	13.0	209
54	Naked-eye lead(II) capturing from contaminated water using innovative large-pore facial composite materials. <i>Microchemical Journal</i> , 2020, 154, 104585.	4.6	208

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55	Evaluation of lanthanide sorption and their coordination mechanism by EXAFS measurement using novel hybrid adsorbent. Chemical Engineering Journal, 2013, 225, 558-566.	13.0	207
56	Optimization of an innovative composited material for effective monitoring and removal of cobalt(II) from wastewater. Journal of Molecular Liquids, 2020, 298, 112035.	5.0	207
57	Assessing of cesium removal from wastewater using functionalized wood cellulosic adsorbent. Chemosphere, 2021, 270, 128668.	8.4	203
58	Ultra-trace copper(II) detection and removal from wastewater using novel meso-adsorbent. Journal of Industrial and Engineering Chemistry, 2014, 20, 2332-2340.	6.0	197
59	Novel optical composite material for efficient vanadium(III) capturing from wastewater. Journal of Molecular Liquids, 2019, 283, 704-712.	5.0	194
60	Improving cesium removal to clean-up the contaminated water using modified conjugate material. Journal of Environmental Chemical Engineering, 2020, 8, 103684.	6.9	194
61	Sustainable toxic dyes removal with advanced materials for clean water production: A comprehensive review. Journal of Cleaner Production, 2022, 332, 130039.	9.5	194
62	Sustainable detection and capturing of cerium(III) using ligand embedded solid-state conjugate adsorbent. Journal of Molecular Liquids, 2021, 338, 116667.	5.0	193
63	A sensitive ligand embedded nano-conjugate adsorbent for effective cobalt(II) ions capturing from contaminated water. Chemical Engineering Journal, 2015, 276, 1-10.	13.0	192
64	Assessment of enhanced nitrite removal and monitoring using ligand modified stable conjugate materials. Chemical Engineering Journal, 2019, 363, 64-72.	13.0	192
65	Utilizing an alternative composite material for effective copper(II) ion capturing from wastewater. Journal of Molecular Liquids, 2021, 336, 116325.	5.0	192
66	Mesoporous silica based novel conjugate adsorbent for efficient selenium(IV) detection and removal from water. Microporous and Mesoporous Materials, 2014, 197, 331-338.	4.5	189
67	A Reliable Hybrid Adsorbent for Efficient Radioactive Cesium Accumulation from Contaminated Wastewater. Scientific Reports, 2016, 6, 19937.	3.5	189
68	Novel nano-conjugate materials for effective arsenic(V) and phosphate capturing in aqueous media. Chemical Engineering Journal, 2018, 331, 54-63.	13.0	188
69	Development of synthetic zeolites from bio-slag for cesium adsorption: Kinetic, isotherm and thermodynamic studies. Journal of Water Process Engineering, 2020, 33, 101055.	5.7	188
70	Adsorption of rose Bengal dye from aqueous solution by amberlite ira-938 resin: kinetics, isotherms, and thermodynamic studies. Desalination and Water Treatment, 2016, 57, 13527-13533.	1.0	187
71	A novel ligand based dual conjugate adsorbent for cobalt(II) and copper(II) ions capturing from water. Sensors and Actuators B: Chemical, 2014, 203, 71-80.	8.0	186
72	A novel fine-tuning mesoporous adsorbent for simultaneous lead(II) detection and removal from wastewater. Sensors and Actuators B: Chemical, 2014, 202, 395-403.	8.0	185

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73	Efficient cesium encapsulation from contaminated water by cellulosic biomass based activated wood charcoal. <i>Chemosphere</i> , 2021, 262, 127801.	8.4	183
74	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.	6.3	182
75	Adsorption of textile dye using para-aminobenzoic acid modified activated carbon: Kinetic and equilibrium studies. <i>Journal of Molecular Liquids</i> , 2019, 296, 112075.	5.0	180
76	Step towards the sustainable toxic dyes removal and recycling from aqueous solution- A comprehensive review. <i>Resources, Conservation and Recycling</i> , 2021, 175, 105849.	11.1	180
77	Rapid column-mode removal of arsenate from water by crosslinked poly(allylamine) resin. <i>Water Research</i> , 2009, 43, 1229-1236.	11.5	179
78	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.	8.0	177
79	Ligand based sustainable composite material for sensitive nickel(II) capturing in aqueous media. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103591.	6.9	177
80	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.	6.9	176
81	Efficient adsorbents of nanoporous aluminosilicate monoliths for organic dyes from aqueous solution. <i>Journal of Colloid and Interface Science</i> , 2011, 359, 9-18.	9.7	175
82	Visual nickel(II) ions treatment in petroleum samples using a mesoporous composite adsorbent. <i>Chemical Engineering Journal</i> , 2018, 334, 957-967.	13.0	174
83	Assessing sustainable Lutetium(III) ions adsorption and recovery using novel composite hybrid nanomaterials. <i>Journal of Molecular Structure</i> , 2023, 1276, 134795.	3.8	174
84	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.	12.6	172
85	Biodegradable natural carbohydrate polymeric sustainable adsorbents for efficient toxic dye removal from wastewater. <i>Journal of Molecular Liquids</i> , 2020, 319, 114356.	5.0	172
86	Improving the hydrogen production from water over MgO promoted Ni@Si/CNTs photocatalyst. <i>Journal of Cleaner Production</i> , 2019, 238, 117887.	9.5	171
87	Efficient toxic nitrite monitoring and removal from aqueous media with ligand based conjugate materials. <i>Journal of Molecular Liquids</i> , 2019, 285, 20-26.	5.0	169
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.	6.0	167
89	Investigation of palladium(II) detection and recovery using ligand modified conjugate adsorbent. <i>Chemical Engineering Journal</i> , 2013, 222, 172-179.	13.0	166
90	Preparation of new class composite adsorbent for enhanced palladium(II) detection and recovery. <i>Sensors and Actuators B: Chemical</i> , 2015, 209, 790-797.	8.0	166

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91	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.	8.0	162
92	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.	8.0	155
93	Assessment of clean H <sub>2</sub> energy production from water using novel silicon photocatalyst. <i>Journal of Cleaner Production</i> , 2020, 244, 118805.	9.5	155
94	One-step wet-chemical synthesis of ternary ZnO/CuO/Co <sub>3</sub> O <sub>4</sub> nanoparticles for sensitive and selective melamine sensor development. <i>New Journal of Chemistry</i> , 2019, 43, 4849-4858.	2.7	153
95	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	152
96	Rapid recognition and recovery of gold(III) with functional ligand immobilized novel mesoporous adsorbent. <i>Microchemical Journal</i> , 2013, 110, 591-598.	4.6	152
97	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.	2.7	152
98	Non-enzymatic simultaneous detection of L-glutamic acid and uric acid using mesoporous Co <sub>3</sub> O <sub>4</sub> nanosheets. <i>RSC Advances</i> , 2016, 6, 80511-80521.	3.7	151
99	Detection of uric acid based on doped ZnO/Ag <sub>2</sub> O/Co <sub>3</sub> O <sub>4</sub> nanoparticle loaded glassy carbon electrode. <i>New Journal of Chemistry</i> , 2019, 43, 8651-8659.	2.7	150
100	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.	6.0	147
101	4-Hexylresorcinol sensor development based on wet-chemically prepared Co <sub>3</sub> O <sub>4</sub> @Er <sub>2</sub> O <sub>3</sub> nanorods: A practical approach. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 66, 446-455.	6.0	145
102	Fabrication of 4-aminophenol sensor based on hydrothermally prepared ZnO/Yb <sub>2</sub> O <sub>3</sub> nanosheets. <i>New Journal of Chemistry</i> , 2017, 41, 9159-9169.	2.7	143
103	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.	6.0	142
104	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.	8.0	140
105	A mechanistic approach of chromium (VI) adsorption onto manganese oxides and boehmite. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103515.	6.9	140
106	Trace electrochemical detection of Ni <sup>2+</sup> ions with bidentate N,N'-ethane-1,2-diylbis(3,4-dimethoxybenzenesulfonamide) [EDBDMBS] as a chelating agent. <i>Inorganica Chimica Acta</i> , 2017, 464, 157-166.	2.6	138
107	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.	6.9	138
108	Fabrication of cadmium ionic sensor based on (E)-4-Methyl-N'-((1-(pyridin-2-yl)ethylidene)benzenesulfonohydrazide (MPEBSH) by electrochemical approach. <i>Journal of Organometallic Chemistry</i> , 2017, 827, 49-55.	2.0	136



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109	Development of 3-methoxyaniline sensor probe based on thin Ag <sub>2</sub> O@La <sub>2</sub> O <sub>3</sub> nanosheets for environmental safety. New Journal of Chemistry, 2019, 43, 4620-4632.	2.7	134
110	An efficient composite material for selective lead(II) monitoring and removal from wastewater. Journal of Environmental Chemical Engineering, 2019, 7, 103087.	6.9	132
111	Mesoporous composite material for efficient lead(II) detection and removal from aqueous media. Journal of Environmental Chemical Engineering, 2019, 7, 103124.	6.9	125
112	The Utilization of Algae and Seaweed Biomass for Bioremediation of Heavy Metal-Contaminated Wastewater. Molecules, 2022, 27, 1275.	3.9	101
113	Pollutants inducing epigenetic changes and diseases. Environmental Chemistry Letters, 2020, 18, 325-343.	16.6	90
114	Sustainable approach for wastewater treatment using microbial fuel cells and green energy generation – A comprehensive review. Journal of Molecular Liquids, 2021, 344, 117795.	5.0	83
115	Ultrathin Assembles of Porous Array for Enhanced H <sub>2</sub> Evolution. Scientific Reports, 2020, 10, 2324.	3.5	81
116	Investigation of novel nanomaterial for the removal of toxic substances from contaminated water. RSC Advances, 2019, 9, 14167-14175.	3.7	72
117	Fabrication of selective L-glutamic acid sensor in electrochemical technique from wet-chemically prepared RuO <sub>2</sub> doped ZnO nanoparticles. Materials Chemistry and Physics, 2020, 251, 123029.	4.1	72
118	Generation of novel n-p-n (CeO <sub>2</sub> -PPy-ZnO) heterojunction for photocatalytic degradation of micro-organic pollutants. Environmental Pollution, 2022, 292, 118375.	7.7	72
119	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. Microchemical Journal, 2020, 152, 104291.	4.6	67
120	Functionalized layered double hydroxides composite bio-adsorbent for efficient copper(II) ion encapsulation from wastewater. Journal of Environmental Management, 2021, 300, 113782.	8.0	66
121	Integrated pre-treatment stage of biosorbent – sonication for mixed brewery and restaurant effluents to enhance the photo-fermentative hydrogen production. Biomass and Bioenergy, 2021, 144, 105899.	5.9	64
122	Introducing the novel composite photocatalysts to boost the performance of hydrogen (H <sub>2</sub> ) production. Journal of Cleaner Production, 2021, 313, 127909.	9.5	63
123	Bromate removal from water samples using strongly basic anion exchange resin Amberlite IRA-400: kinetics, isotherms and thermodynamic studies. Desalination and Water Treatment, 2016, 57, 5781-5788.	1.0	62
124	Advances in physiochemical and biotechnological approaches for sustainable metal recovery from e-waste: A critical review. Journal of Cleaner Production, 2021, 323, 129015.	9.5	61
125	A ligand-anchored optical composite material for efficient vanadium(V) adsorption and detection in wastewater. New Journal of Chemistry, 2019, 43, 10324-10335.	2.7	60
126	Highly effective agro-waste based functional green adsorbents for toxic chromium(VI) ion removal from wastewater. Journal of Molecular Liquids, 2022, 347, 118327.	5.0	60



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127	Improving valuable metal ions capturing from spent Li-ion batteries with novel materials and approaches. <i>Journal of Molecular Liquids</i> , 2021, 338, 116703.	5.0	59
128	Towards the robust hydrogen (H <sub>2</sub> ) fuel production with niobium complexes-A review. <i>Journal of Cleaner Production</i> , 2021, 318, 128439.	9.5	58
129	Novel and potential chemical sensors for Au(III) ion detection and recovery in electric waste samples. <i>Microchemical Journal</i> , 2020, 158, 105312.	4.6	57
130	Energy challenges for a clean environment: Bangladesh's experience. <i>Energy Reports</i> , 2021, 7, 3373-3389.	5.2	55
131	Efficient separation, adsorption, and recovery of Samarium(III) ions using novel ligand-based composite adsorbent. <i>Surfaces and Interfaces</i> , 2023, 41, 103276.	3.2	54
132	Synthesis of sodium dodecyl sulfate-supported nanocomposite cation exchanger: removal and recovery of Cu <sup>2+</sup> from synthetic, pharmaceutical and alloy samples. <i>Journal of the Iranian Chemical Society</i> , 2015, 12, 1677-1686.	2.3	53
133	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.	4.6	49
134	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.	4.8	48
135	A snapshot of <scp>coal's</scp> power generation in <scp>Bangladesh</scp>: A <scp>demand's</scp> supply outlook. <i>Natural Resources Forum</i> , 2021, 45, 157-182.	3.2	48
136	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.	1.3	45
137	One-step facile synthesis of SnO <sub>2</sub> @Nd <sub>2</sub> O <sub>3</sub> nanocomposites for selective amidol detection in aqueous phase. <i>New Journal of Chemistry</i> , 2020, 44, 4952-4959.	2.7	43
138	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.	4.8	35
139	Boosting biodiesel production over silicon heterojunction with visible light irradiation. <i>Energy Conversion and Management</i> , 2023, 292, 117435.	9.3	27
140	Metal-organic framework-derived hierarchical Co <sub>3</sub> O <sub>4</sub> @MnCo <sub>2</sub> O <sub>4.5</sub> nanocubes with enhanced electrocatalytic activity for Na-O <sub>2</sub> batteries. <i>Nanoscale</i> , 2019, 11, 5285-5294.	5.8	26
141	Exchange coupling in a frustrated trimetric molecular magnet reversed by a 1D nano-confinement. <i>Nanoscale</i> , 2019, 11, 10615-10621.	5.8	20
142	Accelerating the green hydrogen revolution: A comprehensive analysis of technological advancements and policy interventions. <i>International Journal of Hydrogen Energy</i> , 2024, 67, 458-486.	7.2	12
143	From industrial jute fibre spinning wastes to biofibre-reinforced plastics. <i>Materials Chemistry and Physics</i> , 2024, 313, 128586.	4.1	8
144	Assessment of heavy metals accumulation by vegetables irrigated with different stages of textile wastewater for evaluation of food and health risk. <i>Journal of Environmental Management</i> , 2024, 353, 120206.	8.0	7

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145	Antibiotic-contaminated wastewater treatment and remediation by electrochemical advanced oxidation processes (EAOPs). Groundwater for Sustainable Development, 2024, 25, 101181.	4.8	3