Heavy metal removal from aqueous solution by advanc review of adsorption applications

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Citation Report

#	Article	IF	Citations
1	Tartaric acid modified graphene oxide as a novel adsorbent for high-efficiently removal of Cu(II) and Pb(II) from aqueous solutions. Journal of the Taiwan Institute of Chemical Engineers, 2016, 66, 181-190.	2.7	35
2	Efficient removal of cadmium using magnetic multiwalled carbon nanotube nanoadsorbents: equilibrium, kinetic, and thermodynamic study. Journal of Nanoparticle Research, 2016, 18, 1.	0.8	43
3	Effect of subcritical water on homogeneous catalysis of used cooking oil hydrolysis. RSC Advances, 2016, 6, 64977-64985.	1.7	3
4	Effectiveness Factor and Mass Transfer Coefficient in Wedge and Funnel Pores Using a Generalized Fickâ€“Jacobs Model. Journal of Physical Chemistry C, 2016, 120, 29153-29161.	1.5	7
5	Which is better for optimizing the biosorption process of lead â€“ central composite design or the Taguchi technique?. Water Science and Technology, 2016, 74, 1446-1456.	1.2	23
6	Synthesis of a thiacalix[4]arenetetrasulfonate-functionalized reduced graphene oxide adsorbent for the removal of lead(<scp>ii</scp>) and cadmium(<scp>ii</scp>) from aqueous solutions. RSC Advances, 2016, 6, 113352-113365.	1.7	18
7	Effective Removal of Heavy Metals from Aqueous Solutions by Graphene Oxideâ€“Zirconium Phosphate (GOâ€“Zr-P) Nanocomposite. Industrial & Engineering Chemistry Research, 2016, 55, 5608-5617.	1.8	111
8	Synthesis of sodium polyacrylateâ€“bentonite using in situ polymerization for Pb²⁺ removal from aqueous solutions. RSC Advances, 2016, 6, 48145-48154.	1.7	21
9	Microwave synthesis of zeolites from Egyptian kaolin: Evaluation of heavy metals removal. Separation Science and Technology, 2016, 51, 2876-2886.	1.3	5
10	Lead removal from water by choline chloride based deep eutectic solvents functionalized carbon nanotubes. Journal of Molecular Liquids, 2016, 222, 883-894.	2.3	90
11	Fast removal of copper ions from aqueous solution using an ecoâ€“friendly fibrous adsorbent. Chemosphere, 2016, 161, 501-509.	4.2	34
12	Novel Chitosanâ€“MOF Composite Adsorbent for the Removal of Heavy Metal Ions. Chemistry Letters, 2016, 45, 1365-1368.	0.7	58
13	Nitrogen functionalized hierarchical microporous/mesoporous carbon with a high surface area and controllable nitrogen content for enhanced lead(ii) adsorption. RSC Advances, 2016, 6, 92186-92196.	1.7	18
14	Functionalization of CNTs surface with phosphonuim based deep eutectic solvents for arsenic removal from water. Applied Surface Science, 2016, 389, 216-226.	3.1	89
15	Pb2+ removal from aqueous synthetic solutions by calcium alginate and chitosan coated calcium alginate. Reactive and Functional Polymers, 2016, 109, 137-150.	2.0	62
16	Synthesis, characterization, and application of magnetic-activated carbon nanocomposite (m-Fe₃O₄@ACCs) as a new low-cost magnetic adsorbent for removal of Pb(II) from industrial wastewaters. Desalination and Water Treatment, 2016, 57, 28887-28899.	1.0	6
17	Dual action of chromium-reducing and nitrogen-fixing Bacillus megaterium-ASNF3 for improved agro-rehabilitation of chromium-stressed soils. 3 Biotech, 2016, 6, 125.	1.1	15
18	Control of product nature and morphology by adjusting the hydrogen content in a continuous chemical vapor deposition process for carbon nanotube synthesis. Carbon, 2016, 107, 171-179.	5.4	44

#	Article	IF	Citations
19	Persulfate Chemical Functionalization of Carbon Nanotubes and Associated Adsorption Behavior in Aqueous Phase. Industrial & Engineering Chemistry Research, 2016, 55, 6060-6068.	1.8	9
20	Poly o-phenylenediamineâ€“MgAl@CaFe2O4 nanohybrid for effective removing of lead(II), chromium(III) and anionic azo dye. Chemical Engineering Research and Design, 2016, 102, 687-699.	2.7	22
21	Exploited application of sulfate-reducing bacteria for concomitant treatment of metallic and non-metallic wastes: a mini review. 3 Biotech, 2016, 6, 119.	1.1	61
22	Water-soluble magnetic-carbon nanotubes nanocomposites for efficient adsorption of Cu(II) from aqueous solution. Fullerenes Nanotubes and Carbon Nanostructures, 2016, 24, 286-291.	1.0	4
23	Comparative evaluation of BiOClâ€“NPlsâ€“AC composite performance for methylene blue dye removal from solution in the presence/absence of UV irradiation: Kinetic and isotherm studies. Journal of Alloys and Compounds, 2017, 701, 950-966.	2.8	37
24	New advances in restricted access materials for sample preparation: A review. Analytica Chimica Acta, 2017, 959, 43-65.	2.6	114
25	Engineered nano-magnetic iron oxide-urea-activated carbon nanolayer sorbent for potential removal of uranium (VI) from aqueous solution. Journal of Nuclear Materials, 2017, 487, 13-22.	1.3	34
26	Interaction profiles in poly (amidoamine) dendrimer/montmorillonite or rice straw ash hybrids-immobilized magnetite nanoparticles governing their removal efficiencies of various pollutants in wastewater. Journal of Molecular Liquids, 2017, 230, 353-369.	2.3	24
27	Soluble starch functionalized graphene oxide as an efficient adsorbent for aqueous removal of Cd(II): The adsorption thermodynamic, kinetics and isotherms. Journal of Sol-Gel Science and Technology, 2017, 82, 440-449.	1.1	26
28	Selective removal of heavy metal ions by disulfide linked polymer networks. Journal of Hazardous Materials, 2017, 332, 140-148.	6.5	101
29	Selective solid phase extraction and determination of trace Pd(II) using multi-walled carbon nanotubes modified with 8-aminoquinoline. Journal of Molecular Liquids, 2017, 232, 139-146.	2.3	23
30	Efficient Removal of Pb(II) and Cd(II) Using NH₂-Functionalized Zr-MOFs via Rapid Microwave-Promoted Synthesis. Industrial & Engineering Chemistry Research, 2017, 56, 1880-1887.	1.8	186
31	Recovery of Co from aqueous solutions using nanodiamonds as solid adsorbents. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1600477.	0.8	6
32	Efficient As(V) removal by Î± -FeOOH and Î± -FeOOH/ Î± -MnO 2 embedded PEG-6-arm functionalized multiwall carbon nanotubes. Chemical Engineering Research and Design, 2017, 119, 75-86.	2.7	39
33	Nanotechnologies for Environmental Remediation. , 2017, , .		17
34	Adsorption and Desorption Properties of Carbon Nanomaterials, the Potential for Water Treatments and Associated Risks. , 2017, , 137-182.		2
35	Adsorption of heavy-metal ions from aqueous solution onto chitosan-modified polyethylene terephthalate (PET). Research on Chemical Intermediates, 2017, 43, 4213-4225.	1.3	29
36	Ab Initio Computational Study of Chromate Molecular Anion Adsorption on the Surfaces of Pristine and B- or N-Doped Carbon Nanotubes and Graphene. Nanoscale Research Letters, 2017, 12, 71.	3.1	25

#	Article	IF	Citations
37	Recent progress in layered double hydroxides (LDH)-containing hybrids as adsorbents for water remediation. Applied Clay Science, 2017, 143, 279-292.	2.6	389
38	A Magnetized Nanoparticle Based Solid-Phase Extraction Procedure Followed by Inductively Coupled Plasma Atomic Emission Spectrometry to Determine Arsenic, Lead and Cadmium in Water, Milk, Indian Rice and Red Tea. Bulletin of Environmental Contamination and Toxicology, 2017, 98, 830-836.	1.3	28
39	Recovery of trace Cu 2+ using a process of nano-adsorption coupled with flotation: SNP as an adsorbing carrier. Separation and Purification Technology, 2017, 184, 257-263.	3.9	30
40	Coagulation effectiveness of graphene oxide for the removal of turbidity from raw surface water. Chemosphere, 2017, 181, 738-746.	4.2	48
41	Removal of arsenate and dichromate ions from different aqueous media by amine based p(TAEA-co-GDE) microgels. Journal of Environmental Management, 2017, 197, 631-641.	3.8	16
42	Carbon nanotubes as adsorbent to remove heavy metal ion (Mn +7) in wastewater treatment. Materials Today: Proceedings, 2017, 4, 4089-4094.	0.9	41
43	Ultrasound-promoted direct functionalization of multi-walled carbon nanotubes in water via Diels-Alder â€œclick chemistryâ€• Ultrasonics Sonochemistry, 2017, 39, 321-329.	3.8	38
44	Sorptive elucidation of rice husk ash derived synthetic zeolite towards deionization of coalmine waste water: A comparative study. Groundwater for Sustainable Development, 2017, 5, 137-151.	2.3	29
45	Ethylenediamine and glucose based-assisted coating of activated carbon on silica sand prepared via hydrothermal technique for entrapping Cr(VI) as a glass colorant. Journal of Alloys and Compounds, 2017, 718, 270-278.	2.8	9
46	A novel carbon aerogel prepared for adsorption of copper(II) ion in water. Journal of Porous Materials, 2017, 24, 1575-1580.	1.3	26
47	A review for chromium removal by carbon nanotubes. Chemistry and Ecology, 2017, 33, 572-588.	0.6	52
48	Efficient techniques for the removal of toxic heavy metals from aquatic environment: A review. Journal of Environmental Chemical Engineering, 2017, 5, 2782-2799.	3.3	1,066
49	Click functionalization of poly(glycidyl methacrylate) microspheres with triazole-4-carboxylic acid for the effective adsorption of Pb(<scp>ii</scp>) ions. New Journal of Chemistry, 2017, 41, 6475-6488.	1.4	38
50	Optimization of sulfate removal by sulfate reducing bacteria using response surface methodology and heavy metal removal in a sulfidogenic UASB reactor. Journal of Environmental Chemical Engineering, 2017, 5, 3256-3265.	3.3	52
51	Self-Assembled Exopolysaccharide Nanoparticles for Bioremediation and Green Synthesis of Noble Metal Nanoparticles. ACS Applied Materials & Interfaces, 2017, 9, 22808-22818.	4.0	86
52	Removing lead ions from aqueous solutions by the thiosemicarbazide grafted multi-walled carbon nanotubes. Water Science and Technology, 2017, 76, 302-310.	1.2	5
53	Applications of the Biosorption Process for Nickel Removal from Aqueous Solutions â€“ A Review. Chemical Engineering Communications, 2017, 204, 711-722.	1.5	15
54	Adsorption Study of Heavy Metal and Acid Dye on an Amphoteric Biomaterial Using Barbary Fig Skin. Arabian Journal for Science and Engineering, 2017, 42, 1487-1496.	1.7	8

#	Article	IF	Citations
55	Sol-gel Based Nanoceramic Materials: Preparation, Properties and Applications. , 2017, , .		9
56	Nanosponge cyclodextrin polyurethanes and their modification with nanomaterials for the removal of pollutants from waste water: A review. Carbohydrate Polymers, 2017, 159, 94-107.	5.1	149
57	Valorisation of post-sorption materials: Opportunities, strategies, and challenges. Advances in Colloid and Interface Science, 2017, 242, 35-58.	7.0	85
58	Application of Hydroxyapatite-Based Nanoceramics in Wastewater Treatment: Synthesis, Characterization, and Optimization. , 2017, , 231-251.		3
59	Carbon nanotube- and graphene-based advanced membrane materials for desalination. Environmental Chemistry Letters, 2017, 15, 643-671.	8.3	54
60	Preparation and characterization of a novel nanocomposite of clinoptilolite/maghemite/chitosan/urea for manganese removal from aqueous solution. Korean Journal of Chemical Engineering, 2017, 34, 2886-2900.	1.2	36
61	A review on the efficacy of the application of myriad carbonaceous materials for the removal of toxic trace elements in the environment. Trends in Environmental Analytical Chemistry, 2017, 16, 24-31.	5.3	15
62	The importance of surface functional groups in the adsorption of copper onto walnut shell derived activated carbon. Water Science and Technology, 2017, 76, 3022-3034.	1.2	61
63	Investigation of microcombing parameters in enhancing the properties of carbon nanotube yarns. Materials and Design, 2017, 134, 181-187.	3.3	12
64	Green Applications of Carbon Nanostructures produced by Plasma Techniques. MRS Advances, 2017, 2, 2647-2659.	0.5	10
65	Removal of Hg²⁺ and methylmercury in waters by functionalized multi-walled carbon nanotubes: adsorption behavior and the impacts of some environmentally relevant factors. Chemical Speciation and Bioavailability, 2017, 29, 161-169.	2.0	18
66	Adsorption of soluble Pb(II) by a photocrosslinked polysaccharide hybrid: A swelling-adsorption correlation study. Carbohydrate Polymers, 2017, 177, 144-155.	5.1	22
67	Rapid adsorption of Pb, Cu and Cd from aqueous solutions by Î²-cyclodextrin polymers. Applied Surface Science, 2017, 426, 29-39.	3.1	161
68	Iron-Oxide-Filled Carbon Nanotubes. , 2017, , 293-313.		1
69	Adsorption of Cu (II), Pb (II) and Cr (VI) from aqueous solutions using black wattle tannin-immobilized nanocellulose. Journal of Hazardous Materials, 2017, 339, 91-99.	6.5	208
70	Removal of Cu(II) Ions from Aqueous Solution by Magnetic Chitosan-Tripolyphosphate Modified Silica-Coated Adsorbent: Characterization and Mechanisms. Water, Air, and Soil Pollution, 2017, 228, 1.	1.1	31
71	ZnO nanoparticles loaded different mesh size of porous activated carbon prepared from Pinus eldarica and its effects on simultaneous removal of dyes: Multivariate optimization. Chemical Engineering Research and Design, 2017, 125, 408-421.	2.7	46
72	Study on the influence of thiolation on the adsorption and magnetic recovery of superparamagnetic nanoadsorbents for Cd 2+ removal. Applied Surface Science, 2017, 425, 141-147.	3.1	15

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73	Removal of toxic Cr(VI) ions from tannery industrial wastewater using a newly designed three-phase three-dimensional electrode reactor. Journal of Physics and Chemistry of Solids, 2017, 110, 379-385.	1.9	55
74	Kinetic evaluation of simultaneous waste cooking oil hydrolysis and reactive liquid-liquid Cu extraction from synthetic Cu-containing wastewater: Effect of various co-contaminants. Separation and Purification Technology, 2017, 187, 184-192.	3.9	5
75	Comparison of the adsorption preference using superparamagnetic Fe3O4-SH nanoparticles to remove aqueous heavy metal contaminants. Chemical Engineering Research and Design, 2017, 125, 319-327.	2.7	22
76	Molecular simulation of reverse osmosis for heavy metal ions using functionalized nanoporous graphenes. Computational Materials Science, 2017, 139, 65-74.	1.4	71
77	Effect of the magnetic core size of amino-functionalized Fe 3 O 4 -mesoporous SiO 2 core-shell nanoparticles on the removal of heavy metal ions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 531, 133-140.	2.3	67
78	The synthesis of Fe-Al hydroxides coated with EDTA-Cross-linked Î²-Cyclodextrin and adsorption mechanism for As (III). Journal of Molecular Liquids, 2017, 242, 520-530.	2.3	5
79	The modelling of lead removal from water by deep eutectic solvents functionalized CNTs: artificial neural network (ANN) approach. Water Science and Technology, 2017, 76, 2413-2426.	1.2	24
80	Synthesis of carboxyl-introduced chitosan with C2 amine groups protected and its use in copper (II) removal. Water Science and Technology, 2017, 76, 2095-2105.	1.2	3
81	Direct application of sodium alginate solution via dripping technique for effective copper removal and recovery from aqueous solution. Environmental Progress and Sustainable Energy, 2017, 36, 489-493.	1.3	3
82	Low cost earthworm manure-derived carbon material for the adsorption of Cu 2+ from aqueous solution: Impact of pyrolysis temperature. Ecological Engineering, 2017, 98, 189-195.	1.6	22
83	Magnetic graphene based nanocomposite for uranium scavenging. Journal of Hazardous Materials, 2017, 322, 370-379.	6.5	97
84	Effect of immobilized amine density on cadmium(II) adsorption capacities for ethanediamine-modified magnetic poly-(glycidyl methacrylate) microspheres. Journal of Magnetism and Magnetic Materials, 2017, 427, 289-295.	1.0	19
85	Allyl triphenyl phosphonium bromide based DES-functionalized carbon nanotubes for the removal of mercury from water. Chemosphere, 2017, 167, 44-52.	4.2	95
86	Spontaneous Phase Transfer-Mediated Selective Removal of Heavy Metal Ions Using Biocompatible Oleic Acid. Scientific Reports, 2017, 7, 16727.	1.6	3
87	Ammonium Persulfate Oxidized Activated Carbon Fibers: Analysis of Their Oxidation Debris Quantity and Their Use for Aqueous Pb(II) Batch and Column Experiments. Journal of Fiber Science and Technology, 2017, 73, 150-157.	0.2	2
88	Activated Carbon, Carbon Nanotubes and Graphene: Materials and Composites for Advanced Water Purification. Journal of Carbon Research, 2017, 3, 18.	1.4	128
89	Porous Materials from Thermally Activated Kaolinite: Preparation, Characterization and Application. Materials, 2017, 10, 647.	1.3	12
90	Novel Aluminum Oxide-Impregnated Carbon Nanotube Membrane for the Removal of Cadmium from Aqueous Solution. Materials, 2017, 10, 1144.	1.3	27

#	Article	IF	Citations
91	A Comparative Study of Raw and Metal Oxide Impregnated Carbon Nanotubes for the Adsorption of Hexavalent Chromium from Aqueous Solution. Bioinorganic Chemistry and Applications, 2017, 2017, 1-10.	1.8	19
92	Adsorption of arsenic from aqueous solution using magnetic graphene oxide. IOP Conference Series: Materials Science and Engineering, 2017, 210, 012007.	0.3	6
93	IdentificaÃ§Ã£o dos mecanismos de sorÃ§Ã£o em zeÃ³lita NaY e sÃ‡ica gel. Revista Materia, 2017, 22, .	0.1	2
94	Synthesis and Potential Adsorption of Fe3O4@C Core-Shell Nanoparticles for to Removal of Pollutants in Aqueous Solutions: A Brief Review.. Journal of Advanced Chemical Engineering, 2017, 07, .	0.1	4
95	A wheat straw cellulose-based hydrogel for Cu (II) removal and preparation copper nanocomposite for reductive degradation of chloramphenicol. Carbohydrate Polymers, 2018, 190, 12-22.	5.1	45
96	Molecular dynamics simulation of nickelâ€coated graphene bending. Micro and Nano Letters, 2018, 13, 160-164.	0.6	27
97	Progress and prospect of adsorptive removal of heavy metal ions from aqueous solution using metalâ€“organic frameworks: A review of studies from the last decade. Chemosphere, 2018, 201, 627-643.	4.2	230
98	Significantly Enhancing Cu(II) Adsorption onto Zr-MOFs through Novel Cross-Flow Disturbance of Ceramic Membrane. Industrial & Engineering Chemistry Research, 2018, 57, 3773-3780.	1.8	30
99	Lignosulfonate-Assisted Hydrothermal Synthesis of Mesoporous MnFe₂O₄ and Fe₃O₄ for Pb(II) Removal. Nano, 2018, 13, 1850024.	0.5	5
100	Kinetic and equilibrium of U(â…¥) adsorption onto magnetic amidoxime-functionalized chitosan beads. Journal of Cleaner Production, 2018, 188, 655-661.	4.6	170
101	Smaller-lateral-size graphene oxide hydrosols sealed in dialysis bags for enhanced trace Pb(II) removal from water without re-pollution. Applied Surface Science, 2018, 445, 586-595.	3.1	8
102	Adsorption performance of Cd(II), Cr(III), Cu(II), Ni(II), Pb(II) and Zn(II) by aminated solution-blown polyacrylonitrile micro/nanofibers. Water Science and Technology, 2018, 2017, 378-389.	1.2	19
103	Review on synthesis of 3D graphene-based configurations and their adsorption performance for hazardous water pollutants. Chemical Engineering Research and Design, 2018, 116, 262-286.	2.7	124
104	Pectin microgel particles as high adsorption rate material for methylene blue: Performance, equilibrium, kinetic, mechanism and regeneration studies. International Journal of Biological Macromolecules, 2018, 112, 383-389.	3.6	38
105	Persimmon leaf bio-waste for adsorptive removal of heavy metals from aqueous solution. Journal of Environmental Management, 2018, 209, 382-392.	3.8	102
106	Optimization of Pb(II) ions adsorption on nanohydroxyapatite adsorbents by applying Taguchi method. Journal of Hazardous Materials, 2018, 349, 186-194.	6.5	105
107	Removal of heavy metals and pollutants by membrane adsorption techniques. Applied Water Science, 2018, 8, 1.	2.8	330
108	Heavy metal sequestration with a boronic acid-functionalized carbon-based adsorbent. Journal of Environmental Chemical Engineering, 2018, 6, 1147-1154.	3.3	19

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109	Heavy metal removal from aqueous solutions by calcium silicate powder from waste coal fly-ash. Journal of Cleaner Production, 2018, 182, 776-782.	4.6	95
110	Insight into wastewater decontamination using polymeric adsorbents. Journal of Environmental Chemical Engineering, 2018, 6, 1651-1672.	3.3	97
111	Facilitative capture of As(V), Pb(II) and methylene blue from aqueous solutions with MgO hybrid sponge-like carbonaceous composite derived from sugarcane leafy trash. Journal of Environmental Management, 2018, 212, 77-87.	3.8	85
112	Preparation of dumbbell manganese dioxide/gelatin composites and their application in the removal of lead and cadmium ions. Journal of Hazardous Materials, 2018, 350, 46-54.	6.5	56
113	Selective recovery of indium from scrap LCD panels using macroporous resins. Journal of Cleaner Production, 2018, 180, 814-822.	4.6	49
114	Efficient adsorption of lead (II) and copper (II) from aqueous phase using oxidized multiwalled carbon nanotubes/polypyrrole composite. Separation Science and Technology, 2018, 53, 1498-1510.	1.3	57
115	Monodisperse CNT Microspheres for High Permeability and Efficiency Flowâ€Through Filtration Applications. Advanced Materials, 2018, 30, e1706503.	11.1	23
116	Engineered Carbon Nanotubes: Review on the Role of Surface Chemistry, Mechanistic Features, and Toxicology in the Adsorptive Removal of Aquatic Pollutants.. ChemistrySelect, 2018, 3, 1040-1055.	0.7	5
117	A review of functionalized carbon nanotubes and graphene for heavy metal adsorption from water: Preparation, application, and mechanism. Chemosphere, 2018, 195, 351-364.	4.2	612
118	Eucalyptus sawdust derived biochar generated by combining the hydrothermal carbonization and low concentration KOH modification for hexavalent chromium removal. Journal of Environmental Management, 2018, 206, 989-998.	3.8	112
119	Synergism of thiocyanate ions and microinterfacial surface as driving forces for heavy multi-metals extraction. Arabian Journal of Chemistry, 2018, 11, 501-512.	2.3	13
120	Kinetics, adsorption and desorption of Cd(II) and Cu(II) on natural allophane: Effect of iron oxide coating. Geoderma, 2018, 319, 70-79.	2.3	36
121	From nZVI to SNCs: development of a better material for pollutant removal in water. Environmental Science and Pollution Research, 2018, 25, 6175-6195.	2.7	26
122	Effect of mineralizing agents on the adsorption performance of metalâ€“organic framework MIL-100(Fe) towards chromium(VI). Chemical Engineering Journal, 2018, 337, 532-540.	6.6	122
123	Efficient heavy metal removal from industrial melting effluent using fixed-bed process based on porous hydrogel adsorbents. Water Research, 2018, 131, 246-254.	5.3	291
124	Punica granatum (pomegranate) carpellary membrane and its modified form used as adsorbent for removal of cadmium (II) ions from aqueous solution. Journal of Water Supply: Research and Technology - AQUA, 2018, 67, 68-83.	0.6	7
125	Removal of nickel from aqueous solution using supported zeolite-Y hollow fiber membranes. Environmental Science and Pollution Research, 2018, 25, 19054-19064.	2.7	24
126	Investigating the potential of synthetic humic-like acid to remove metal ions from contaminated water. Science of the Total Environment, 2018, 635, 1036-1046.	3.9	54

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127	As(V) removal capacity of FeCu bimetallic nanoparticles in aqueous solutions: The influence of Cu content and morphologic changes in bimetallic nanoparticles. Journal of Colloid and Interface Science, 2018, 524, 177-187.	5.0	53
128	Study of Pb (II) adsorption from aqueous solutions by TiO2 functionalized with hydroxide ethyl aniline (PHEA/n-TiO2). Journal of Molecular Liquids, 2018, 263, 294-302.	2.3	27
129	A Comparative Study on the Adsorption of Eriochrome Black T Dye from Aqueous Solution on Graphene and Acid-Modified Graphene. Arabian Journal for Science and Engineering, 2018, 43, 2167-2179.	1.7	80
130	Alkynyl carbon materials as novel and efficient sorbents for the adsorption of mercury(II) from wastewater. Journal of Environmental Sciences, 2018, 68, 169-176.	3.2	40
131	Modeling and analysis of a packed-bed column for the effective removal of zinc from aqueous solution using dual surface-modified biomass. Particulate Science and Technology, 2018, 36, 934-944.	1.1	18
132	Simultaneous removal of Cu²⁺ and Cr³⁺ ions from aqueous solution based on Complexation with Eriochrome cyanineâ€R and derivative spectrophotometric method. Applied Organometallic Chemistry, 2018, 32, e3918.	1.7	11
133	Utilization of surface modified phyllosilicate mineral for heavy metals removal from aqueous solutions. Egyptian Journal of Petroleum, 2018, 27, 393-401.	1.2	15
134	Removal of Cu(II) in water by polymer enhanced ultrafiltration: Influence of polymer nature and pH. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2018, 53, 33-38.	0.9	13
135	Amphiphilic PA-induced three-dimensional graphene macrostructure with enhanced removal of heavy metal ions. Journal of Colloid and Interface Science, 2018, 512, 853-861.	5.0	47
136	Designer carbon nanotubes for contaminant removal in water and wastewater: A critical review. Science of the Total Environment, 2018, 612, 561-581.	3.9	237
137	Removal of heavy metals and organic pollutants from water using dendritic polymers based adsorbents: A critical review. Separation and Purification Technology, 2018, 191, 400-423.	3.9	285
138	A bifunctional adsorbent of silica gel-immobilized Schiff base derivative for simultaneous and selective adsorption of Cu(II) and SO42â". Separation and Purification Technology, 2018, 191, 61-74.	3.9	23
139	Enhanced dispersion stability and heavy metal ion adsorption capability of oxidized starch nanoparticles. Food Chemistry, 2018, 242, 256-263.	4.2	99
140	Co-precipitation of magnetic Fe3O4 nanoparticles onto carbon nanotubes for removal of copper ions from aqueous solution. Journal of the Taiwan Institute of Chemical Engineers, 2018, 82, 56-63.	2.7	65
141	Novel sodium lignosulphonate assisted synthesis of well dispersed Fe3O4 microspheres for efficient adsorption of copper (II). Powder Technology, 2018, 325, 597-605.	2.1	34
142	A review of the applications of organo-functionalized magnetic graphene oxide nanocomposites for heavy metal adsorption. Chemosphere, 2018, 193, 1004-1017.	4.2	329
143	Starch-NiFe-layered double hydroxide composites: Efficient removal of methyl orange from aqueous phase. Journal of Molecular Liquids, 2018, 249, 254-264.	2.3	123
144	Synthesis of high growth rate SWCNTs and their magnetite cobalt sulfide nanohybrid as super-adsorbent for mercury removal. Chemical Engineering Research and Design, 2018, 129, 132-149.	2.7	75

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145	Design and fabrication of highly ordered ion imprinted SBA-15 and MCM-41 mesoporous organosilicas for efficient removal of Ni2+ from different properties of wastewaters. Microporous and Mesoporous Materials, 2018, 257, 212-221.	2.2	42
146	Design and evaluation of functionalized multi-walled carbon nanotubes by 3-aminopyrazole for the removal of Hg(II) and As(III) ions from aqueous solution. Research on Chemical Intermediates, 2018, 44, 69-92.	1.3	34
147	Effect of salinity on the precipitation of dissolved metals in the wastewater that produced during fly ash disposal. IOP Conference Series: Earth and Environmental Science, 2018, 121, 032012.	0.2	0
148	Characterization and adsorption properties of cross-linked yeast/Î²-cyclodextrin polymers for Pb(<scp>ii</scp>) and Cd(<scp>ii</scp>) adsorption. RSC Advances, 2018, 8, 31542-31554.	1.7	25
150	Adsorptive removal of lead (Pb²⁺) ion from water using cellulose acetate/polycaprolactone reinforced nanostructured membrane. IOP Conference Series: Earth and Environmental Science, 0, 191, 012139.	0.2	10
151	A comparative study on electrosorptive rates of metal ions in capacitive deionization. Journal of Water Process Engineering, 2018, 26, 257-263.	2.6	25
152	Carbon Nanofibers: A New Adsorbent for Copper Removal from Wastewater. Metals, 2018, 8, 914.	1.0	30
153	An exploratory study using QICAR models for prediction of adsorption capacity of multi-walled carbon nanotubes for heavy metal ions. SAR and QSAR in Environmental Research, 2018, 29, 997-1009.	1.0	5
154	Cavitation-Dispersion Method for Copper Cementation from Wastewater by Iron Powder. Metals, 2018, 8, 920.	1.0	17
155	The chemistry of Cr(VI) adsorption on to poly(p-phenylenediamine) adsorbent. Water Science and Technology, 2018, 78, 2481-2488.	1.2	10
156	Molecularly Imprinted Polymers for Removal of Metal Ions: An Alternative Treatment Method. Biomimetics, 2018, 3, 38.	1.5	38
157	The role of surfactants in wastewater treatment: Impact, removal and future techniques: A critical review. Water Research, 2018, 147, 60-72.	5.3	190
158	Recent Application of the Various Nanomaterials and Nanocatalysts for the Heavy Metalsâ€™ Removal from Wastewater. Nano, 2018, 13, 1830006.	0.5	15
159	Study of the adsorption process of heavy metals cations on Kraft lignin. Chemical Engineering Research and Design, 2018, 139, 248-258.	2.7	37
160	Effective removal of heavy metals by nanosized hydrous zirconia composite hydrogel and adsorption behavior study. Environmental Science and Pollution Research, 2018, 25, 33464-33477.	2.7	15
161	Review of Heavy Metal Adsorption Processes by Several Organic Matters from Wastewaters. Water (Switzerland), 2018, 10, 1377.	1.2	58
162	Removal of inert COD and trace metals from stabilized landfill leachate by granular activated carbon (GAC) adsorption. Journal of Environmental Management, 2018, 228, 189-196.	3.8	48
163	Elimination of Chromium (VI) by Adsorption onto Natural and/or Modified Kaolinite. , 2018, 18, 106-112.		5

#	Article	IF	Citations
164	Fabrications of novel solid phase microextraction fiber coatings based on new materials for high enrichment capability. TrAC - Trends in Analytical Chemistry, 2018, 108, 135-153.	5.8	131
165	Highly efficient removal of antibiotics and dyes from water by the modified carbon nanofibers composites with abundant mesoporous structure. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 558, 392-401.	2.3	31
166	Efficient Removal of Zn(II), Pb(II), and Cd(II) in Waste Water Based on Magnetic Graphitic Carbon Nitride Materials with Enhanced Adsorption Capacity. Journal of Chemical & Engineering Data, 2018, 63, 3902-3912.	1.0	39
167	Tailoring of carbon nanotubes for the adsorption of heavy metal ions: molecular dynamics and experimental investigations. Molecular Systems Design and Engineering, 2018, 3, 917-929.	1.7	20
168	Removal of oxoanions of M^{VI} (M^{VI}=Cr, Mo, W) metals by carbon nanostructures: Insights into mechanisms from DFT calculations. International Journal of Quantum Chemistry, 2018, 118, e25715.	1.0	6
169	Solid-liquid separation: an emerging issue in heavy metal wastewater treatment. Environmental Science and Pollution Research, 2018, 25, 17250-17267.	2.7	24
170	Removal of cobalt and lead ions from wastewater samples using an insoluble nanosponge biopolymer composite: adsorption isotherm, kinetic, thermodynamic, and regeneration studies. Environmental Science and Pollution Research, 2018, 25, 21752-21767.	2.7	67
171	Urchin-like boron nitride hierarchical structure assembled by nanotubes-nanosheets for effective removal of heavy metal ions. Ceramics International, 2018, 44, 12216-12224.	2.3	34
172	Removal of safranin dye from water using polypyrrole nanofiber/Zn-Fe layered double hydroxide nanocomposite (Ppy NF/Zn-Fe LDH) of enhanced adsorption and photocatalytic properties. Science of the Total Environment, 2018, 640-641, 352-363.	3.9	210
173	Preparation of novel multi-walled carbon nanotubes nanocomposite adsorbent via RAFT technique for the adsorption of toxic copper ions. Science of the Total Environment, 2018, 640-641, 303-314.	3.9	37
174	Facile low-temperature one-step synthesis of pomelo peel biochar under air atmosphere and its adsorption behaviors for Ag(I) and Pb(II). Science of the Total Environment, 2018, 640-641, 73-79.	3.9	86
175	Simultaneous and efficient removal of Cr(VI) and methyl orange on LDHs decorated porous carbons. Chemical Engineering Journal, 2018, 352, 306-315.	6.6	167
176	Carbon nanotube-based environmental technologies: the adopted properties, primary mechanisms, and challenges. Reviews in Environmental Science and Biotechnology, 2018, 17, 571-590.	3.9	48
177	Synthesis and characterization of alumina-CNT membrane for cadmium removal from aqueous solution. Ceramics International, 2018, 44, 17189-17198.	2.3	32
178	Anionic and cationic drug sorption on interpolyelectrolyte complexes. Colloids and Surfaces B: Biointerfaces, 2018, 170, 210-218.	2.5	17
179	Synthesis of EDTA-modified magnetic activated carbon nanocomposite for removal of permanganate from aqueous solutions. Solid State Sciences, 2018, 83, 31-42.	1.5	44
180	Comparative study of core-shell nanostructures based on amino-functionalized Fe3O4@SiO2 and CoFe2O4@SiO2 nanocomposites. Journal of Alloys and Compounds, 2018, 766, 609-618.	2.8	42
181	Adsorption and Oxidation Techniques to Remove Organic Pollutants from Water. Environmental Chemistry for A Sustainable World, 2018, , 249-300.	0.3	7

#	Article	IF	Citations
182	Crumpled graphene balls as rapid and efficient adsorbents for removal of copper ions. Journal of Colloid and Interface Science, 2018, 530, 46-51.	5.0	26
183	Facile Synthesis of Graphene Oxide for Multicycle Adsorption of Aqueous Pb²⁺ in the Presence of Divalent Cations and Polyatomic Anions. Journal of Chemical & Engineering Data, 2018, 63, 3465-3474.	1.0	8
184	Application of heavy metals sorbent as reactive component in cementitious composites. Journal of Cleaner Production, 2018, 199, 565-573.	4.6	15
185	Fabrication of magnetic iron Oxide@Graphene composites for adsorption of copper ions from aqueous solutions. Materials Chemistry and Physics, 2018, 219, 30-39.	2.0	37
186	Polymer Hydrogel-Clay (Nano)Composites. Gels Horizons: From Science To Smart Materials, 2018, , 1-62.	0.3	2
187	Impact of thermal treatment of calcium silicate-rich slag on the removal of cadmium from aqueous solution. Journal of Cleaner Production, 2018, 200, 369-379.	4.6	13
188	Biosorption of Metals and Metalloids. Environmental Chemistry for A Sustainable World, 2018, , 35-86.	0.3	10
189	A Review of Carbon Nanomaterialsâ€™ Synthesis via the Chemical Vapor Deposition (CVD) Method. Materials, 2018, 11, 822.	1.3	315
190	Synthesis and Characterization of Poly(1,4,7-Trioxacycloundecane-8,11-dione) Macrocyclic Functionalized Hydrogel for High Selectivity Adsorption and Complexation of Bismuth Ion. Polymers, 2018, 10, 662.	2.0	5
191	Enhanced photocatalytic removal of Safranin-T dye under sunlight within minute time intervals using heulandite/polyaniline@ nickel oxide composite as a novel photocatalyst. Ecotoxicology and Environmental Safety, 2018, 162, 261-271.	2.9	52
192	Investigation of continuous adsorption of Pb(II), As(III), Cd(II), and Cr(VI) using a mixture of magnetic graphite oxide and sand as a medium in a fixed-bed column. Journal of Environmental Chemical Engineering, 2018, 6, 4840-4849.	3.3	32
193	Bioaccumulation and Biosorption of Mercury by Salvinia biloba Raddi (Salviniaceae). Water, Air, and Soil Pollution, 2018, 229, 1.	1.1	22
194	Hierarchically porous nitrogen-doped carbon materials as efficient adsorbents for removal of heavy metal ions. Chemical Engineering Research and Design, 2018, 119, 320-329.	2.7	38
195	Removal of Hazardous Hydrogen Fluoride (HF) from Water Through Homogeneous Nanostructured CaO-SiO2 Sorbents: Optimization of Binder. Water, Air, and Soil Pollution, 2018, 229, 1.	1.1	3
196	Cysteine functionalized bio-nanomaterial for the affinity sensing of Pb(II) as an indicator of environmental damage. Microchemical Journal, 2018, 141, 271-278.	2.3	24
198	Adsorption of cadmium (II), zinc (II) and iron (III) from water by new cross-linked reusable polystyrene adsorbents. Materials Chemistry and Physics, 2018, 216, 435-445.	2.0	18
199	Fabrication of Engineered Silica-Functionalized-Polyanilines Nanocomposites for Water Decontamination of Cadmium and Lead. Journal of Polymers and the Environment, 2018, 26, 3858-3876.	2.4	13
200	Facile synthesis of wavy carbon nanowires via activation-enabled reconstruction and their applications towards nanoparticles separation and catalysis. RSC Advances, 2018, 8, 20593-20602.	1.7	3

#	Article	IF	Citations
201	Synthesis of graphene oxide/polyaniline nanocomposite for measuring cadmium(II) by solid phase extraction combined with dispersive liquid-liquid microextraction. Materials Research Express, 2018, 5, 075017.	0.8	15
202	Membrane Filtration Techniques Through Polymer Nanocomposites. , 2018, , 265-300.		0
203	Brown marine macroalgae as natural cation exchangers for toxic metal removal from industrial wastewaters: A review. Journal of Environmental Management, 2018, 223, 215-253.	3.8	68
204	Modeling for predicting copper ion removal from aqueous solution by the fluidized adsorption based on dimensional analysis. Separation and Purification Technology, 2019, 210, 988-994.	3.9	3
205	Challenges and opportunities in functional carbon nanotubes for membrane-based water treatment and desalination. Science of the Total Environment, 2019, 646, 1126-1139.	3.9	177
206	<scp>D</scp>â€Galactose based hydrophobic ionic liquid: A new adsorbent for the removal of <scp>C</scp>d²⁺ ions from aqueous solution. Environmental Progress and Sustainable Energy, 2019, 38, S139.	1.3	10
207	Carbon nanotube membranes for water purification: Developments, challenges, and prospects for the future. Separation and Purification Technology, 2019, 209, 307-337.	3.9	243
208	Electroflotation recovery of highly dispersed carbon materials from aqueous solutions of electrolyte. Separation and Purification Technology, 2019, 209, 73-78.	3.9	7
209	The effect of thermal activation for natural zeolite on the performance of ceramic membrane as Pb²⁺ ion adsorption. Journal of Physics: Conference Series, 2019, 1170, 012055.	0.3	2
210	FIB-SEM Three-Dimensional Tomography for Characterization of Carbon-Based Materials. Advances in Materials Science and Engineering, 2019, 2019, 1-8.	1.0	24
211	Nanomaterials for Healthcare, Energy and Environment. Advanced Structured Materials, 2019, , .	0.3	5
212	Efficient Removal of Pb(II) and Cd(II) from Industrial Mine Water by a Hierarchical MoS₂/SH-MWCNT Nanocomposite. ACS Omega, 2019, 4, 13922-13935.	1.6	133
213	Computational Studies of Adsorption of Toxic Molecules and Anions on the Surface of Doped and Functionalized Carbon Nanotubes. Springer Proceedings in Physics, 2019, , 305-340.	0.1	2
214	A novel nanocomposite of aminated silica nanotube (MWCNT/Si/NH2) and its potential on adsorption of nitrite. Environmental Science and Pollution Research, 2019, 26, 28737-28748.	2.7	14
215	Ultrasonic assisted adsorptive removal of toxic heavy metals from environmental samples using functionalized silica-coated magnetic multiwall carbon nanotubes (MagMWCNTs@SiO2). Engineering in Agriculture, Environment and Food, 2019, 12, 435-442.	0.2	6
216	Recent advances in hexavalent chromium removal from aqueous solutions by adsorptive methods. RSC Advances, 2019, 9, 26142-26164.	1.7	202
217	Functional materials in desalination: A review. Desalination, 2019, 468, 114077.	4.0	111
218	Sandwich-type ferrocene-functionalized magnetic nanoparticles: synthesis, characterization, and the adsorption of Cr(VI). Journal of Materials Science: Materials in Electronics, 2019, 30, 13924-13932.	1.1	12

#	Article	IF	Citations
219	Graphene Composites for Lead Ions Removal from Aqueous Solutions. Applied Sciences (Switzerland), 2019, 9, 2925.	1.3	28
221	Sulfurized biochar prepared by simplified technic with superior adsorption property towards aqueous Hg(II) and adsorption mechanisms. Materials Chemistry and Physics, 2019, 238, 121919.	2.0	64
222	Packaging vertically aligned carbon nanotubes into a heat-shrink tubing for efficient removal of phenolic pollutants. RSC Advances, 2019, 9, 22205-22210.	1.7	3
223	Functionalized carbon nanomaterials for wastewater treatment. , 2019, , 283-311.		10
224	Sirolimus therapy for kaposiform hemangioendothelioma with longâ€term followâ€up. Journal of Dermatology, 2019, 46, 956-961.	0.6	32
225	A Review of Flexible Processes and Operations. Production and Operations Management, 2021, 30, 1804-1824.	2.1	17
226	A review: the utilization of mesoporous materials in wastewater treatment. Materials Research Express, 2019, 6, 122002.	0.8	18
228	Adsorption of mercury ions from synthetic aqueous solution using polydopamine decorated SWCNTs. Journal of Water Process Engineering, 2019, 32, 100965.	2.6	55
229	Comparative adsorption of remazol brilliant blue R and copper in aqueous solutions by carbon nanotubes with different levels of carboxyl group and specific surface area. Materials Research Express, 2019, 6, 1050e2.	0.8	6
230	Palladiumâ€Catalyzed Allylic Alkylation of Aldimine Esters with Vinylâ€Cyclopropanes to Yield Î±,Î±â€Disubstituted Î±â€Amino Acid Derivatives. Advanced Synthesis and Catalysis, 2019, 361, 5105-5111.	2.1	10
231	Preparation of cotton-based fibrous adsorbents for the removal of heavy metal ions. Carbohydrate Polymers, 2019, 225, 115218.	5.1	42
232	Kinetics of scandium ion sorption onto oxidized carbon nanotubes. Monatshefte FÃ¼r Chemie, 2019, 150, 1569-1572.	0.9	5
233	Preparation of nitric acid modified powder activated carbon to remove trace amount of Ni(II) in aqueous solution. Water Science and Technology, 2019, 80, 86-97.	1.2	13
234	Artificial Neural Network Approach for Modelling of Mercury Ions Removal from Water Using Functionalized CNTs with Deep Eutectic Solvent. International Journal of Molecular Sciences, 2019, 20, 4206.	1.8	13
235	Preparation of Carboxy-Functionalized Covalent Organic Framework for Efficient Removal of Hg²⁺ and Pb²⁺ from Water. Industrial & Engineering Chemistry Research, 2019, 58, 17660-17667.	1.8	52
236	Complexation and conformation of lead ion with poly-Î³-glutamic acid in soluble state. PLoS ONE, 2019, 14, e0218742.	1.1	7
237	Transparent Conductive Films Derived from Single-Walled Aluminosilicate Nanotubes. ACS Applied Nano Materials, 2019, 2, 6677-6689.	2.4	5
238	Covalent Organic Framework with Triazine and Hydroxyl Bifunctional Groups for Efficient Removal of Lead(II) Ions. Industrial & Engineering Chemistry Research, 2019, 58, 19642-19648.	1.8	44

#	Article	IF	Citations
239	Yolk-shell Fe3O4 nanoparticles loaded on persimmon-derived porous carbon for supercapacitor assembly and As (V) removal. Journal of Alloys and Compounds, 2019, 810, 151887.	2.8	7
240	Adsorption performance of hydroxyapatite with different crystalline and porous structure towards metal ions in multicomponent solution. Journal of Water Process Engineering, 2019, 32, 100963.	2.6	43
241	Nanocarbon: Preparation, properties, and applications. , 2019, , 327-354.		5
242	Sustainable technologies for water purification from heavy metals: review and analysis. Chemical Society Reviews, 2019, 48, 463-487.	18.7	967
243	Preparation and Heavy Metal Ions Chelating Properties of Multifunctional Polymer-Grafted Silica Hybrid Materials. Advances in Materials Science and Engineering, 2019, 2019, 1-11.	1.0	10
244	Synthesis of thiol-functionalized mesoporous silica nanoparticles for adsorption of Hg2+ from aqueous solution. Journal of Sol-Gel Science and Technology, 2019, 89, 617-622.	1.1	19
245	Smart Materials, Magnetic Graphene Oxide-Based Nanocomposites for Sustainable Water Purification. , 2019, , 759-781.		27
246	Utilization of nanomaterials for in-situ remediation of heavy metal(loid) contaminated sediments: A review. Science of the Total Environment, 2019, 662, 205-217.	3.9	139
247	Assessment of Cu (II) removal from an aqueous solution by raw Gundelia tournefortii as a new low-cost biosorbent: Experiments and modelling. Chinese Journal of Chemical Engineering, 2019, 27, 1945-1955.	1.7	11
248	Modeling in Adsorption: Fundamentals and Applications. , 2019, , 85-118.		27
249	Predictive quantitative structureâ€“property relationship (QSPR) modeling for adsorption of organic pollutants by carbon nanotubes (CNTs). Environmental Science: Nano, 2019, 6, 224-247.	2.2	23
250	Water Purification Using Magnetic Nanomaterials: An Overview. Nanotechnology in the Life Sciences, 2019, , 161-179.	0.4	17
251	An Electromembrane Process for Cadmium Recovery from Dilute Cadmium Electroplating Dragout Solutions. Membranes and Membrane Technologies, 2019, 1, 120-126.	0.6	10
252	Recent advances in the application of silica nanostructures for highly improved water treatment: a review. Environmental Science and Pollution Research, 2019, 26, 21065-21084.	2.7	22
253	The Accelerating World of Graphdiynes. Advanced Materials, 2019, 31, e1804211.	11.1	86
254	Highly-dispersed Fe2O3@C electrode materials for Pb2+ removal by capacitive deionization. Carbon, 2019, 153, 12-20.	5.4	56
255	Design of an adsorbent-bearing silica Schiff base ligand for the highly efficient removal of uranium and thorium in acidic solutions. Separation and Purification Technology, 2019, 228, 115709.	3.9	17
256	Enhancing cadmium removal by low-cost nanocomposite adsorbents from aqueous solutions; a continuous system. Composites Part B: Engineering, 2019, 173, 106963.	5.9	18

#	Article	IF	Citations
257	Functionalized Carbon Nanotubes for Protein, Peptide, and Gene Delivery. , 2019, , 613-637.		12
258	Pillararenes as macrocyclic hosts: a rising star in metal ion separation. Chemical Communications, 2019, 55, 7883-7898.	2.2	95
259	Detection and removal of heavy metal ions: a review. Environmental Chemistry Letters, 2019, 17, 1495-1521.	8.3	429
260	The application of machine learning methods for prediction of metal sorption onto biochars. Journal of Hazardous Materials, 2019, 378, 120727.	6.5	177
261	Decontamination of Mercury-Containing Aqueous Streams by Electrochemical Alloy Formation on Copper. Industrial & Engineering Chemistry Research, 2019, 58, 9166-9172.	1.8	7
262	Al₂O₃/MnO₂/CNTs nanocomposite: Synthesis, characterization and phenol adsorption. Fullerenes Nanotubes and Carbon Nanostructures, 2019, 27, 591-600.	1.0	17
263	Magnetic Nanostructures. Nanotechnology in the Life Sciences, 2019, , .	0.4	19
264	Adsorptive nanocomposite membranes for heavy metal remediation: Recent progresses and challenges. Chemosphere, 2019, 232, 96-112.	4.2	130
265	One-step reducing and dispersing graphene oxide via hydroxypropyl hydrazine and its applications in Cu2+ removal. Physical Chemistry Chemical Physics, 2019, 21, 10947-10954.	1.3	6
266	Molecular insights into the effects of Cu(II) on sulfamethoxazole and 17Î²-estradiol adsorption by carbon nanotubes/CoFe2O4 composites. Chemical Engineering Journal, 2019, 373, 995-1002.	6.6	31
267	A Critical Review of Conventional and Emergency Domestic Sewage Treatment Technology. IOP Conference Series: Earth and Environmental Science, 2019, 237, 022037.	0.2	0
268	Review on heavy metal adsorption processes by carbon nanotubes. Journal of Cleaner Production, 2019, 230, 783-793.	4.6	312
269	Quasi-in-situ sizing of nanoparticles by laser-induced incandescence during the floating chemical vapor deposition synthesis of carbon nanotubes. Applied Physics B: Lasers and Optics, 2019, 125, 1.	1.1	0
270	Mercury removal from water using deep eutectic solventsâ€functionalized multi walled carbon nanotubes: Nonlinear autoregressive network with an exogenous input neural network approach. Environmental Progress and Sustainable Energy, 2019, 38, e13261.	1.3	8
271	Engineering nanomaterials for water and wastewater treatment: review of classifications, properties and applications. New Journal of Chemistry, 2019, 43, 7902-7927.	1.4	72
272	Sustainable sludge management by removing emerging contaminants from urban wastewater using carbon nanotubes. , 2019, , 553-571.		12
273	Graphene Oxide Supported on Amberlite Resin for the Analytical Method Development for Enhanced Column Preconcentration/Sensitive Flame Atomic Absorption Spectrometric Determination of Toxic Metal Ions in Environmental Samples. Industrial & Engineering Chemistry Research, 2019, 58, 8309-8316.	1.8	12
274	Influence of fulvic acid on Pb(II) removal from water using a post-synthetically modified MIL-100(Fe). Journal of Colloid and Interface Science, 2019, 551, 155-163.	5.0	46

#	Article	IF	Citations
275	Adsorptive removal of Pb(II) ions from aqueous solutions by multi-walled carbon nanotubes functionalised by selenophosphoryl groups: Kinetic, mechanism, and thermodynamic studies. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 575, 271-282.	2.3	29
276	Membrane-free electrodeionization using phosphonic acid resin for nickel containing wastewater purification. Separation and Purification Technology, 2019, 223, 88-95.	3.9	25
277	Recent Advances in Nanomaterials for Wastewater Treatment. Environmental Chemistry for A Sustainable World, 2019, , 21-58.	0.3	13
278	Polydopamine Nanoparticle-Coated Polysulfone Porous Granules as Adsorbents for Water Remediation. ACS Omega, 2019, 4, 4839-4847.	1.6	25
279	Nanomaterials for the abatement of cadmium (II) ions from water/wastewater. Nano Research, 2019, 12, 1489-1507.	5.8	53
280	Carbon Nanotubes for Heavy Metals Removal. , 2019, , 181-210.		36
281	Removal of cerium from different aqueous solutions using different adsorbents: A review. Chemical Engineering Research and Design, 2019, 124, 345-362.	2.7	50
282	New process for conversion of hazardous industrial effluent of ceramic industry into nanostructured sodium carbonate and their application in textile industry. Journal of Environmental Management, 2019, 240, 352-358.	3.8	8
283	Adsorption of Cu and Ni Ions from Aqueous Solutions by Commercial Activated Carbon and the Reutilization in Glass Coloration. Journal Wuhan University of Technology, Materials Science Edition, 2019, 34, 41-46.	0.4	9
284	Mechanisms of removal of heavy metal ions by ZnO particles. Heliyon, 2019, 5, e01440.	1.4	131
285	Nanomaterials for the Removal of Heavy Metals from Wastewater. Nanomaterials, 2019, 9, 424.	1.9	390
286	Application of carbon nanotubes for removal of emerging contaminants of concern in engineered water and wastewater treatment systems. Nanotechnology for Environmental Engineering, 2019, 4, 1.	2.0	69
287	Macrocyclic host appended carbon nanotubes for selective adsorption of metal ions: combined experimental, DFT and MD studies. Molecular Systems Design and Engineering, 2019, 4, 616-625.	1.7	2
288	Efficient removal of Cu(II) and citrate complexes by combined permanent magnetic resin and its mechanistic insights. Chemical Engineering Journal, 2019, 366, 1-10.	6.6	58
289	Enhanced Water Flux by Fabrication of Polysulfone/Alumina Nanocomposite Membrane for Copper(II) Removal. Macromolecular Research, 2019, 27, 565-571.	1.0	29
290	Kinetics, equilibrium and isotherms of Pb2+ adsorption from aqueous solutions on carbon nanotubes functionalized with 3-amino-5a,10a-dihydroxybenzo[b] indeno [2,l-d]furan-10-one. New Carbon Materials, 2019, 34, 512-523.	2.9	24
291	Kinetics and Diffusion Analysis for the Removal of Cadmium Ion from Aqueous Solutions Using Chitosan-iso-Vanillin Sorbent. Russian Journal of Physical Chemistry A, 2019, 93, 2628-2634.	0.1	5
292	Green Synthesis and Characterization of Î±-Fe2O3 Nanoparticles using Leaf Extract of Syzygium cumini and their Suitability for Adsorption of Cu(II) and Pb(II) Ions. Asian Journal of Chemistry, 2019, 31, 1809-1814.	0.1	6

#	Article	IF	Citations
293	Adsorptive removal of mercury from water by adsorbents derived from date pits. Scientific Reports, 2019, 9, 15327.	1.6	88
294	Highly crystalline lithium chloride-intercalated graphitic carbon nitride hollow nanotubes for effective lead removal. Environmental Science: Nano, 2019, 6, 3324-3335.	2.2	16
295	Preparation of MgAl LDH intercalated by Î±-PW12O403- for adsorptive removal of direct violet dye from aqueous solution. AIP Conference Proceedings, 2019, , .	0.3	2
296	Optimization of ozonation/adsorption combined method for the removal of toxic metals and COD using sewage sludge based carbon/TiO2/ZnO nanocomposite. Materials Research Express, 2019, 6, 125531.	0.8	2
297	A magnetic activated sludge for Cu(<scp>ii</scp>) and Cd(<scp>ii</scp>) removal: adsorption performance and mechanism studies. New Journal of Chemistry, 2019, 43, 18062-18071.	1.4	7
298	Cyclopentane hydrate-based processes for treating heavy metal containing wastewater. E3S Web of Conferences, 2019, 118, 04039.	0.2	4
299	Nanostructured Materials for Treating Aquatic Pollution. Engineering Materials, 2019, , .	0.3	4
300	Adsorption of lead on clay-CNT nanocomposite in aqueous media by UV-Vis-spectrophotometer: kinetics and thermodynamic studies. Emergent Materials, 2019, 2, 441-451.	3.2	13
301	Influence of Selective Conditions on Various Composite Sorbents for Enhanced Removal of Copper (II) Ions from Aqueous Environments. International Journal of Environmental Research and Public Health, 2019, 16, 4596.	1.2	14
302	Synergetic Sensing Effect of Sodium Carboxymethyl Cellulose and Bismuth on Cadmium Detection by Differential Pulse Anodic Stripping Voltammetry. Sensors, 2019, 19, 5482.	2.1	18
303	Adsorption characteristics of Pb(II) using biochar derived from spent mushroom substrate. Scientific Reports, 2019, 9, 15999.	1.6	69
304	Effect of the Surface Charge on the Adsorption Capacity of Chromium(VI) of Iron Oxide Magnetic Nanoparticles Prepared by Microwave-Assisted Synthesis. Water (Switzerland), 2019, 11, 2372.	1.2	34
305	Simultaneous removal of heavy metals and cyanate in a wastewater sample using immobilized cyanate hydratase on magnetic-multiwall carbon nanotubes. Journal of Hazardous Materials, 2019, 363, 73-80.	6.5	76
306	Green fabrication of bentonite/chitosan@cobalt oxide composite (BE/CH@Co) of enhanced adsorption and advanced oxidation removal of Congo red dye and Cr (VI) from water. International Journal of Biological Macromolecules, 2019, 126, 402-413.	3.6	164
307	Environmental application of three-dimensional graphene materials as adsorbents for dyes and heavy metals: Review on ice-templating method and adsorption mechanisms. Journal of Environmental Sciences, 2019, 79, 174-199.	3.2	136
308	Fabrication of bentonite based nanocomposite as a novel low cost adsorbent for uranium ion removal. Environmental Nanotechnology, Monitoring and Management, 2019, 11, 100205.	1.7	18
309	A comprehensive review of applications of magnetic graphene oxide based nanocomposites for sustainable water purification. Journal of Environmental Management, 2019, 231, 622-634.	3.8	253
310	Understanding the impact of poly(allylamine) plasma grafting on the filtration performances of a commercial polymeric membrane. Separation and Purification Technology, 2019, 212, 30-39.	3.9	14

#	Article	IF	Citations
311	Locally Derived Activated Carbon From Domestic, Agricultural and Industrial Wastes for the Treatment of Palm Oil Mill Effluent. , 2019, , 35-62.		9
312	Heavy metal adsorption with zeolites: The role of hierarchical pore architecture. Chemical Engineering Journal, 2019, 359, 363-372.	6.6	273
313	Response of antibiotic resistance genes abundance by graphene oxide during the anaerobic digestion of swine manure with copper pollution. Science of the Total Environment, 2019, 654, 292-299.	3.9	62
314	Removal of cadmium from wastewaters with low-cost adsorbents. Journal of Environmental Chemical Engineering, 2019, 7, 102795.	3.3	170
315	Iron oxide/carbon nanotubes/chitosan magnetic composite film for chromium species removal. Chemosphere, 2019, 218, 391-401.	4.2	58
316	Application of Nanomaterials for the Removal of Heavy Metal From Wastewater. , 2019, , 137-157.		27
317	Sulfonated polyether sulfone reinforced multiwall carbon nanotubes composite for the removal of lead in wastewater. Applied Nanoscience (Switzerland), 2019, 9, 1695-1705.	1.6	14
318	Binary nanocomposite of Fe₃O₄/MWCNTs for adsorption of Reactive Violet 2: Taguchi design, kinetics and equilibrium isotherms. Fullerenes Nanotubes and Carbon Nanostructures, 2019, 27, 305-316.	1.0	9
319	An Overview of the Recent Progress in the Synthesis and Applications of Carbon Nanotubes. Journal of Carbon Research, 2019, 5, 3.	1.4	128
320	Sulphur Ligand Functionalized Carbon Nanotubes for Removal of mercury from waste water â€“ experimental and density functional theoretical study. Separation Science and Technology, 2019, 54, 1573-1587.	1.3	7
321	Cd2+ adsorption performance of tunnel-structured manganese oxides driven by electrochemically controlled redox. Environmental Pollution, 2019, 244, 783-791.	3.7	33
322	Efficient removal of zinc from water and wastewater effluents by hydroxylated and carboxylated carbon nanotube membranes: Behaviors and mechanisms of dynamic filtration. Journal of Hazardous Materials, 2019, 365, 64-73.	6.5	69
323	Functionalization of activated carbons with magnetic Iron oxide nanoparticles for removal of copper ions from aqueous solution. Journal of Molecular Liquids, 2019, 277, 499-505.	2.3	44
324	Magnetic nickel chrysotile nanotubes tethered with pH-sensitive poly(methacrylic acid) brushes for Cu(II) adsorption. Journal of Molecular Liquids, 2019, 276, 611-623.	2.3	20
325	Adsorptive removal of heavy metal ions using polystyrene-poly(N-isopropylmethacrylamide-acrylic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2019, 277, 522-531.	2.3	98
326	Clay based nanocomposites for removal of heavy metals from water: A review. Journal of Environmental Management, 2019, 232, 803-817.	3.8	234
327	Simultaneous removal of pollutants from water using nanoparticles: A shift from single pollutant control to multiple pollutant control. Science of the Total Environment, 2019, 656, 808-833.	3.9	150
328	Dye-Assembled Upconversion Nanocomposite for Luminescence Ratiometric in Vivo Bioimaging of Copper Ions. ACS Applied Materials & Interfaces, 2019, 11, 430-436.	4.0	50

#	Article	IF	Citations
329	Synergy of adsorption and advanced oxidation processes in recalcitrant wastewater treatment. Environmental Chemistry Letters, 2019, 17, 1125-1142.	8.3	60
330	Ar/O2 plasma treatment of carbon nanotube membranes for enhanced removal of zinc from water and wastewater: A dynamic sorption-filtration process. Science of the Total Environment, 2019, 655, 1270-1278.	3.9	42
331	Study on the competitive adsorption and correlational mechanism for heavy metal ions using the carboxylated magnetic iron oxide nanoparticles (MNPs-COOH) as efficient adsorbents. Applied Surface Science, 2019, 473, 960-966.	3.1	52
332	Adsorption of isonicotinic acid from aqueous solution using multi-walled carbon nanotubes/Fe3O4. Journal of Molecular Liquids, 2019, 276, 163-169.	2.3	27
333	Use of metal oxides for the adsorptive removal of toxic organic pollutants. Separation and Purification Technology, 2019, 211, 522-539.	3.9	92
334	Recent advances on elemental biosorption. Environmental Chemistry Letters, 2019, 17, 409-427.	8.3	76
335	Nanomaterials for the adsorptive treatment of Hg(II) ions from water. Chemical Engineering Journal, 2019, 358, 264-282.	6.6	239
336	New generation nanomaterials for water desalination: A review. Desalination, 2019, 451, 2-17.	4.0	279
337	Application of an agro-industrial waste for the removal of As (III) in a counter-current multiphase fluidized bed. International Journal of Environmental Science and Technology, 2019, 16, 279-294.	1.8	10
338	Application of Fruit Wastes as Cost-Effective Carbon Sources for Biological Sulphate Reduction. Iranian Journal of Science and Technology, Transaction A: Science, 2019, 43, 33-41.	0.7	14
339	Synthesis and characterization of magnetic graphene oxide for arsenic removal from aqueous solution. Environmental Technology (United Kingdom), 2019, 40, 1508-1516.	1.2	30
340	Removal of lead from aqueous solutions by ferric activated sludge-based adsorbent derived from biological sludge. Arabian Journal of Chemistry, 2019, 12, 4142-4149.	2.3	31
341	Room-temperature fabrication of magnetite-boehmite sol-gel composites for heavy metal ions removal. Arabian Journal of Chemistry, 2020, 13, 1933-1944.	2.3	25
342	Assessing the interactions between micropollutants and nanoparticles in engineered and natural aquatic environments. Critical Reviews in Environmental Science and Technology, 2020, 50, 135-215.	6.6	36
343	Magnetic responsive polymer nanofiber composites for easy collecting chemical spills. Chinese Chemical Letters, 2020, 31, 253-255.	4.8	6
344	Multi-approach analysis to assess the chromium(III) immobilization by Ochrobactrum anthropi DE2010. Chemosphere, 2020, 238, 124663.	4.2	11
345	Novel cyclodextrin-based adsorbents for removing pollutants from wastewater: A critical review. Chemosphere, 2020, 241, 125043.	4.2	190
346	Applicability of solid process residues as sorbents for the treatment of industrial wastewaters. Journal of Cleaner Production, 2020, 246, 118951.	4.6	5

#	Article	IF	Citations
347	Nitrogenâ€Doped Porous Grapheneâ€Based Aerogels toward Efficient Heavy Metal Ion Adsorption and Supercapacitor Applications. Physica Status Solidi - Rapid Research Letters, 2020, 14, 1900534.	1.2	22
348	A novel nitrified aerobic granular sludge biosorbent for Pb(II) removal: behaviors and mechanisms. Journal of Dispersion Science and Technology, 2020, 41, 2223-2231.	1.3	3
349	High-efficiency adsorption for both cationic and anionic dyes using graphene nanoribbons formed by atomic-hydrogen induced single-walled carbon nanotube carpets. Carbon Letters, 2020, 30, 123-132.	3.3	5
350	Adsorptive removal of lead (II) ion from water and wastewater media using carbon-based nanomaterials as unique sorbents: A review. Journal of Environmental Management, 2020, 254, 109814.	3.8	110
351	2D Hexagonal Boron Nitride/Cadmium Sulfide Heterostructure as a Promising Waterâ€Splitting Photocatalyst. Physica Status Solidi (B): Basic Research, 2020, 257, 1900431.	0.7	22
352	Synthesis of sewage sludgeâ€based carbon/TiO₂/ZnO nanocomposite adsorbent for the removal of Ni(II), Cu(II), and chemical oxygen demands from aqueous solutions and industrial wastewater. Water Environment Research, 2020, 92, 588-603.	1.3	11
353	Application and prospects of carbon nanostructured materials in water treatment: A review. Journal of Water Process Engineering, 2020, 33, 100996.	2.6	82
354	Single precursor sonochemical synthesis of mesoporous hexagonal-shape zero-valent copper for effective nitrate reduction. Chemical Engineering Journal, 2020, 384, 123359.	6.6	12
355	Broadened operating pH range for adsorption/reduction of aqueous Cr(VI) using biochar from directly treated jute (Corchorus capsularis L.) fibers by H3PO4. Chemical Engineering Journal, 2020, 381, 122739.	6.6	101
356	Critical review of magnetic biosorbents: Their preparation, application, and regeneration for wastewater treatment. Science of the Total Environment, 2020, 702, 134893.	3.9	122
357	Magnetite particles covered by amino-functionalized poly(dimethylsiloxane) network for copper(II) adsorption from aqueous solution. Journal of Sol-Gel Science and Technology, 2020, 94, 154-164.	1.1	5
358	Adsorption of ciprofloxacin on carbon nanotubes: Insights from molecular dynamics simulations. Journal of Molecular Liquids, 2020, 298, 111977.	2.3	46
359	Modelling and development of a modular oscillating-bed adsorption reactor system for copper ion removal from water in emergency. Separation and Purification Technology, 2020, 233, 115933.	3.9	4
360	Laplacian Controllability of Interconnected Graphs. IEEE Transactions on Control of Network Systems, 2020, 7, 797-806.	2.4	5
361	Synergetic adsorption and electrochemical classified recycling of Cr(VI) and dyes in synthetic dyeing wastewater. Chemical Engineering Journal, 2020, 384, 123232.	6.6	76
362	Removals of Cu(II), Ni(II), Co(II) and Ag(I) from wastewater and electricity generation by bimetallic thermally regenerative electro-deposition batteries. Separation and Purification Technology, 2020, 235, 116230.	3.9	17
363	BacillusÂ firmusÂ strainÂ FSS2CÂ amelioratedÂ oxidativeÂ stressÂ inÂ wheatÂ plantsÂ inducedÂ byÂ azoÂ dyeÂ (reactiveÂ) Tj ETQq0 0 0	1.1	6
364	Synthesis of a chitosan/polyvinyl alcohol/activate carbon biocomposite for removal of hexavalent chromium from aqueous solution. International Journal of Biological Macromolecules, 2020, 147, 209-216.	3.6	36

#	Article	IF	Citations
365	Adsorption of organic pollutants by nanomaterial-based adsorbents: An overview. Journal of Molecular Liquids, 2020, 301, 112335.	2.3	153
366	MIL-100(Fe) and its derivatives: from synthesis to application for wastewater decontamination. Environmental Science and Pollution Research, 2020, 27, 4703-4724.	2.7	76
367	Surface modification of one-dimensional Carbon Nanotubes: A review for the management of heavy metals in wastewater. Environmental Technology and Innovation, 2020, 17, 100596.	3.0	51
368	Efficient and rapid removal of Pb2+ from water by magnetic Fe3O4@MnO2 core-shell nanoflower attached to carbon microtube: Adsorption behavior and process study. Journal of Colloid and Interface Science, 2020, 563, 218-228.	5.0	53
369	Metal nanoparticles decorated phosphorylated carbon nanotube/cyclodextrin nanosponge for trichloroethylene and Congo red dye adsorption from wastewater. Journal of Environmental Chemical Engineering, 2020, 8, 103602.	3.3	33
370	Nanostructured Carbon Florets as Scavenger of As³⁺, Cr⁶⁺, Cd²⁺, and Hg²⁺ for Water Remediation. ACS Applied Nano Materials, 2020, 3, 468-478.	2.4	21
371	Enhanced bioaccumulation efficiency and tolerance for Cd (â...¡) in Arabidopsis thaliana by amphoteric nitrogen-doped carbon dots. Ecotoxicology and Environmental Safety, 2020, 190, 110108.	2.9	21
372	Enhanced Heavy Metal Removal from Acid Mine Drainage Wastewater Using Double-Oxidized Multiwalled Carbon Nanotubes. Molecules, 2020, 25, 111.	1.7	49
373	Purification of mercury-contaminated water using new AM-11 and AM-14 microporous silicates. Separation and Purification Technology, 2020, 239, 116438.	3.9	9
374	Mechanism study of metal ion adsorption on porous hydroxyapatite: experiments and modeling. Canadian Journal of Chemistry, 2020, 98, 79-89.	0.6	6
375	Hollow SiO2 microspheres with thiol-rich surfaces: The scalable templated fabrication and their application for toxic metal ions adsorption. Materials Chemistry and Physics, 2020, 243, 122625.	2.0	9
376	An overview on the significance of carbon-based nanomaterials in upstream oil and gas industry. Journal of Petroleum Science and Engineering, 2020, 186, 106783.	2.1	26
377	Polyvinyl Alcohol/Alginate/Zeolite Nanohybrid for Removal of Metals. Chemical Engineering and Technology, 2020, 43, 343-354.	0.9	23
378	Concomitant Treatment of Tannery and Paper Mill Effluents Using Extremely Metal-Tolerant Sulphate-Reducing Bacteria. Environmental Processes, 2020, 7, 243-253.	1.7	5
379	Recent advances in carbon nanomaterial-based adsorbents for water purification. Coordination Chemistry Reviews, 2020, 405, 213111.	9.5	329
380	Molecular dynamics simulations of the removal of lead(II) from water using the UiO-66 metal-organic framework. Chemical Engineering Science, 2020, 214, 115396.	1.9	20
381	Enhanced synergistic removal of Cr(VI) and Cd(II) with bi-functional biomass-based composites. Journal of Hazardous Materials, 2020, 388, 121776.	6.5	32
382	Selectivity of Ar/O2 plasma-treated carbon nanotube membranes for Sr(II) and Cs(I) in water and wastewater: Fit-for-purpose water treatment. Separation and Purification Technology, 2020, 237, 116352.	3.9	18

#	Article	IF	Citations
383	Effective carbonaceous desiccated coconut waste adsorbent for application of heavy metal uptakes by adsorption: Equilibrium, kinetic and thermodynamics analysis. Biomass and Bioenergy, 2020, 142, 105805.	2.9	38
384	Evolution of adsorption process for manganese removal in water via agricultural waste adsorbents. Heliyon, 2020, 6, e05049.	1.4	76
385	A critical review on recent developments in MOF adsorbents for the elimination of toxic heavy metals from aqueous solutions. Environmental Science and Pollution Research, 2020, 27, 44771-44796.	2.7	83
386	Pristine detonation nanodiamonds as regenerable adsorbents for metal cations. Diamond and Related Materials, 2020, 110, 108121.	1.8	11
387	Removal of metal ions and organics from real refinery wastewater using double- functionalized graphene oxide in alginate beads. Journal of Water Process Engineering, 2020, 38, 101635.	2.6	13
388	Bioremediation of dyes: Current status and prospects. Journal of Water Process Engineering, 2020, 38, 101680.	2.6	120
389	A review: Recent advances in solid phase microextraction of toxic pollutants using nanotechnology scenario. Microchemical Journal, 2020, 159, 105436.	2.3	56
390	Enhanced removal of copper(II) from acidic streams using functional resins: batch and column studies. Journal of Materials Science, 2020, 55, 13687-13715.	1.7	21
391	A review on the accumulation of heavy metals in coastal sediment of Peninsular Malaysia. Ecofeminism and Climate Change, 2020, 1, 21-35.	0.6	37
392	Adsorption in the context of water purification. , 2020, , 67-100.		6
393	One-dimensional carbon nanomaterials-based adsorbents. , 2020, , 195-224.		8
394	Synthesis of new environmentally friendly poly(urethane-imide)s as an adsorbent including Î²-cyclodextrin cavities and attached to iron nanoparticles for removal of gram-positive and gram-negative bacteria from water samples. Polymer Testing, 2020, 90, 106734.	2.3	16
395	Removal of Brilliant Red dye (Brilliant Red E-4BA) from wastewater using novel Chitosan/SBA-15 nanofiber. International Journal of Biological Macromolecules, 2020, 164, 818-825.	3.6	26
396	Carbon microfibers with tailored surface functionalities supporting iron/nickel bisalloy for highly efficient hexavalent chromium recovery. Carbon, 2020, 168, 640-649.	5.4	29
397	Increased Adsorption of Heavy Metal Ions in Multi-Walled Carbon Nanotubes with Improved Dispersion Stability. Molecules, 2020, 25, 3106.	1.7	36
398	Carbon nanotubes synthesis using Fe-Co-Mo/MgO tri-metallic catalyst: study the effect of reaction temperature, reaction time and catalyst weight. International Journal of Nanomanufacturing, 2020, 16, 1.	0.3	1
400	On the Adsorption of Cerium(III) Using Multiwalled Carbon Nanotubes. Metals, 2020, 10, 1057.	1.0	13
401	Glycine-functionalized silica as sorbent for cobalt(II) and nickel(II) recovery. Applied Surface Science, 2020, 530, 147299.	3.1	22

#	Article	IF	Citations
402	Smart Manufacturing Process of Carbon-Based Low-Dimensional Structures and Fiber-Reinforced Polymer Composites for Engineering Applications. Journal of Materials Engineering and Performance, 2020, 29, 4162-4186.	1.2	14
403	Zeolite-Rich Composite Materials for Environmental Remediation: Arsenic Removal from Water. Applied Sciences (Switzerland), 2020, 10, 6939.	1.3	22
404	P. putida as biosorbent for the remediation of cobalt and phenol from industrial waste wastewaters. Environmental Technology and Innovation, 2020, 20, 101148.	3.0	25
405	Adsorption Separation of Cr(VI) from a Water Phase Using Multiwalled Carbon Nanotube-Immobilized Ionic Liquids. ACS Omega, 2020, 5, 22827-22839.	1.6	19
406	Synthesis of nano-silica-coated biochar from thermal conversion of sawdust and its application for Cr removal: kinetic modelling using linear and nonlinear method and modelling using artificial neural network analysis. Biomass Conversion and Biorefinery, 2023, 13, 821-831.	2.9	14
407	Experimental and Computational Evaluation of Heavy Metal Cation Adsorption for Molecular Design of Hydrothermal Char. Energies, 2020, 13, 4203.	1.6	7
408	Magnetic Multiwall Carbon Nanotube Decorated with Novel Functionalities: Synthesis and Application as Adsorbents for Lead Removal from Aqueous Medium. Processes, 2020, 8, 986.	1.3	13
409	A practical method to remove perfluorooctanoic acid from aqueous media using layer double hydride system: a prospect for environmental remediation. Environmental Technology (United Kingdom), 2022, 43, 1026-1037.	1.2	6
410	Treatment of environmental contamination using sepiolite: current approaches and future potential. Environmental Geochemistry and Health, 2021, 43, 2679-2697.	1.8	20
411	Influences of chemically controlled Ca-bearing minerals in chitosan on Pb2+ removal efficiency. Journal of Environmental Health Science & Engineering, 2020, 18, 993-1005.	1.4	3
413	A Novel Solid Platformâ€“Based Ag Nanoparticles Chemically Impregnated Activated Carbon for Selective Separation of Tungstate Species in Water: Kinetics and Thermodynamic Study. Water, Air, and Soil Pollution, 2020, 231, 1.	1.1	1
414	Equilibrium, kinetics and thermodynamics study on the adsorption of Cr(VI) and as(III) by diatomite-modified MnO2. Journal of Dispersion Science and Technology, 2020, , 1-14.	1.3	4
415	A Generalized Method for Modeling the Adsorption of Heavy Metals with Machine Learning Algorithms. Water (Switzerland), 2020, 12, 3490.	1.2	25
416	Kinetics and Thermodynamics Studies for Cadmium (II) Adsorption onto Functionalized Chitosan with Hexa-Decyl-Trimethyl-Ammonium Chloride. Materials, 2020, 13, 5552.	1.3	0
417	Construction of sodium dodecyl sulfate-modified graphene sheets with enhanced adsorption performance for Fe(III) and Al(III) removal. International Journal of Environmental Science and Technology, 2020, 17, 3503-3514.	1.8	1
418	Mercury removal from wastewater using agroindustrial waste adsorbents. SN Applied Sciences, 2020, 2, 1.	1.5	40
419	Remediation of Pb (II) ions from Kagara gold mining effluent using cotton hull adsorbent. Scientific African, 2020, 8, e00399.	0.7	13
420	Experimental and Modeling Process Optimization of Lead Adsorption on Magnetite Nanoparticles via Isothermal, Kinetics, and Thermodynamic Studies. ACS Omega, 2020, 5, 10826-10837.	1.6	32

#	Article	IF	Citations
421	Photoreduction and Removal of Cadmium Ions over Bentonite Clay-Supported Zinc Oxide Microcubes in an Aqueous Solution. ACS Omega, 2020, 5, 13176-13184.	1.6	17
422	A positively charged composite loose nanofiltration membrane for water purification from heavy metals. Journal of Membrane Science, 2020, 611, 118205.	4.1	102
423	Nanostructured membranes for water treatments. , 2020, , 129-150.		4
424	Waste capacitor: A fresh approach to detect and remove Cr(VI) from water and making it an energy harvesting material. Materials Today: Proceedings, 2020, , .	0.9	1
425	Removal of Cd(II) and Pb(II) from wastewater via carbonation of aqueous Ca(OH)2 derived from eggshell. Chemical Engineering Research and Design, 2020, 141, 278-287.	2.7	19
426	Heavy Metals Nanofiltration Using Nanotube and Electric Field by Molecular Dynamics. Journal of Nanomaterials, 2020, 2020, 1-12.	1.5	7
427	Adsorption of As(V) and Ni(II) by Fe-Biochar composite fabricated by co-pyrolysis of orange peel and red mud. Environmental Research, 2020, 188, 109809.	3.7	59
428	How Effective Are Nanomaterials for the Removal of Heavy Metals from Water and Wastewater?. Water, Air, and Soil Pollution, 2020, 231, 1.	1.1	38
429	Fabrication of novel magnetic core-shell chelating adsorbent for rapid and highly efficient adsorption of heavy metal ions from aqueous solution. Journal of Molecular Liquids, 2020, 313, 113593.	2.3	23
430	Nanoadsorbents for water and wastewater remediation. Science of the Total Environment, 2020, 739, 139903.	3.9	187
431	Chitosan and corn stover derivative bioadsorbent: characterization and application in hexavalent chromium adsorption processes. Cellulose, 2020, 27, 6317-6331.	2.4	10
432	Highly selective removal of Hg(II) ions from aqueous solution using thiol-modified porous polyaminal-networked polymer. Separation and Purification Technology, 2020, 250, 117120.	3.9	25
433	Agriculture nanotechnology: Translating research outcome to field applications by influencing environmental sustainability. NanoImpact, 2020, 19, 100232.	2.4	93
434	Pb(II) Adsorption by Nano-Goethite Loaded with Chestnut Shell Pigment. Emerging Materials Research, 2020, 9, 1-10.	0.4	2
435	Adsorption, desorption and coadsorption behaviors of sulfamerazine, Pb(II) and benzoic acid on carbon nanotubes and nano-silica. Science of the Total Environment, 2020, 738, 139685.	3.9	35
436	Activation of co-pyrolysis chars from rice wastes to improve the removal of Cr3+ from simulated and real industrial wastewaters. Journal of Cleaner Production, 2020, 267, 121993.	4.6	20
437	The preparation of a novel iron/manganese binary oxide for the efficient removal of hexavalent chromium [Cr(<scp>vi</scp>)] from aqueous solutions. RSC Advances, 2020, 10, 10612-10623.	1.7	22
438	Synthesis, characterization, and performance analysis of carbon molecular sieveâ€embedded polyethersulfone mixedâ€matrix membranes for the removal of dissolved ions. Water Environment Research, 2020, 92, 1306-1324.	1.3	5

#	Article	IF	Citations
439	Performance Differences of Hexavalent Chromium Adsorbents Caused by Graphene Oxide Drying Process. Scientific Reports, 2020, 10, 4882.	1.6	2
440	First Investigations on the Removal of Tungsten Species from Water Using Multi-walled Carbon Nanotubes. Water, Air, and Soil Pollution, 2020, 231, 1.	1.1	15
441	Novel approach for selective recovery of gold, copper, and iron as marketable product from industrial effluent. Gold Bulletin, 2020, 53, 11-18.	1.1	14
442	An optical fiber sensor based on carboxymethyl cellulose/carbon nanotubes composite film for simultaneous measurement of relative humidity and temperature. Optics Communications, 2020, 467, 125740.	1.0	37
443	Alternative Reuse of Oligomers Derived from Poly(ethylene terephthalate) Waste Deposited onto Microspheres and Determination of Adsorbent Properties Toward Toxic Metals. Journal of Polymers and the Environment, 2020, 28, 1654-1663.	2.4	6
444	Recent Advances in Applications of Hybrid Graphene Materials for Metals Removal from Wastewater. Nanomaterials, 2020, 10, 595.	1.9	62
445	Application of response surface methodology for optimization of cadmium removal by Aloe Vera/carboxylated carbon nanotubes nanocomposite-based low-cost adsorbent. Materials Research Express, 2020, 7, 065015.	0.8	5
446	Hybrid Materials Based on Carbon Nanotubes and Nanofibers for Environmental Applications. Frontiers in Chemistry, 2020, 8, 546.	1.8	32
447	Novel Collagen-Chitosan Based Hydrogels Reinforced with Manganite as Potential Adsorbents of Pb2+ Ions. Journal of Polymers and the Environment, 2020, 28, 2864-2879.	2.4	10
448	Membrane-Filtered Kraft Ligninâ€“Silica Hybrids as Bio-Based Sorbents for Cobalt(II) Ion Recycling. ACS Omega, 2020, 5, 10847-10856.	1.6	27
449	Concentrative isolation of uranium traces in aqueous solutions via resurfaced-magnetic carbon nanotube suspension. Journal of Environmental Management, 2020, 271, 110970.	3.8	14
450	All-Biomass Double Network Gel: Highly Efficient Removal of Pb2+ and Cd2+ in Wastewater and Utilization of Spent Adsorbents. Journal of Polymers and the Environment, 2020, 28, 2669-2680.	2.4	8
451	MXenes (two-dimensional metal carbides) as emerging nanomaterials for water purification: Progress, challenges and prospects. Chemical Engineering Journal, 2020, 388, 124340.	6.6	267
452	Synthesis and application of magnetized nanoparticles to remove lead from drinking water: Taguchi design of experiment. Journal of Water Sanitation and Hygiene for Development, 2020, 10, 56-65.	0.7	5
453	Preparation of Ti3C2-PANI Composite as Sensor for Electrochemical Determination of Mercury Ions in Water. International Journal of Electrochemical Science, 2020, 15, 2295-2306.	0.5	23
454	Effects of lead and cadmium on the immune system and cancer progression. Journal of Environmental Health Science & Engineering, 2020, 18, 335-343.	1.4	89
455	Carbon nanomaterials: 30 years of research in agroecosystems. , 2020, , 1-18.		6
456	Removal of heavy metals from wastewater using agricultural byproducts. Journal of Water Supply: Research and Technology - AQUA, 2020, 69, 99-112.	0.6	139

#	Article	IF	Citations
457	Nanoadsorbents preparing from oligoethylene glycol dendron and citric acid: Enhanced adsorption effect for the removal of heavy metal ions. Colloids and Surfaces B: Biointerfaces, 2020, 189, 110876.	2.5	10
458	Binding Capacity and Selectivity of Functionalized and Un-functionalized Carbon Nanotubes for Development of Copper-Detecting Printable Sensor. Bulletin of Environmental Contamination and Toxicology, 2020, 104, 455-463.	1.3	1
459	Aquatic nanotoxicology: impact of carbon nanomaterials on algal flora. Energy, Ecology and Environment, 2020, 5, 240-252.	1.9	22
460	Green cross-linked bionanocomposite of magnetic layered double hydroxide/guar gum polymer as an efficient adsorbent of Cr(VI) from aqueous solution. Carbohydrate Polymers, 2020, 236, 116070.	5.1	70
461	CNT-sorbents for heavy metals: Electrochemical regeneration and closed-loop recycling. Journal of Hazardous Materials, 2020, 393, 122432.	6.5	25
462	Carbon nanotube-based adsorbents for the removal of dyes from waters: A review. Environmental Chemistry Letters, 2020, 18, 605-629.	8.3	152
463	Sorption of Cd2+ and Pb2+ on Aragonite Synthesized from Eggshell. Sustainability, 2020, 12, 1174.	1.6	15
464	Fabrication and characterization of polyvinyl chloride mixed matrix membranes containing high aspect ratio anatase titania and hydrous manganese oxide nanoparticle for efficient removal of heavy metal ions: Competitive removal study. Canadian Journal of Chemical Engineering, 2020, 98, 1558-1579.	0.9	15
466	Efficient Selective Removal of Pb(II) by Using 6-Aminothiouracil-Modified Zr-Based Organic Frameworks: From Experiments to Mechanisms. ACS Applied Materials & Interfaces, 2020, 12, 7162-7178.	4.0	99
467	Rational design, synthesis, adsorption principles and applications of metal oxide adsorbents: a review. Nanoscale, 2020, 12, 4790-4815.	2.8	269
468	Zwitterion-chitosan bed for the simultaneous immobilization of Zn(II), Cd(II), Pb(II) and Cu(II) from multi-metal aqueous systems. Journal of Cleaner Production, 2020, 255, 120309.	4.6	66
469	Surface modified layered double hydroxide/polyaniline nanocomposites: Synthesis, characterization and Pb2+ removal. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 589, 124438.	2.3	55
470	Lead and cadmium removal by adsorption process using hydroxyapatite porous materials. Water Practice and Technology, 2020, 15, 130-141.	1.0	29
471	Improving the Cd2+ detection capability of a new anionic rare earth metalâ€“organic framework based on a [RE6(Î¼3-OH)8]10+ secondary building unit: an ion-exchange approach towards more efficient sensors. Molecular Systems Design and Engineering, 2020, 5, 1077-1087.	1.7	8
472	Hexavalent chromium reduction from real electroplating wastewater by chemical precipitation. Bulletin of the Chemical Society of Ethiopia, 2020, 34, 67-74.	0.5	38
473	Removal Efficiencies of Manganese and Iron Using Pristine and Phosphoric Acid Pre-Treated Biochars Made from Banana Peels. Water (Switzerland), 2020, 12, 1173.	1.2	31
474	Synthesis, Characterization and Dye Adsorption Performance of Strontium Ferrite decorated Bentonite-CoNiAl Magnetic Composite. Arabian Journal for Science and Engineering, 2020, 45, 7397-7408.	1.7	24
475	Efficiency of ozonation process with calcium peroxide in removing heavy metals (Pb, Cu, Zn, Ni, Cd) from aqueous solutions. SN Applied Sciences, 2020, 2, 1.	1.5	30

#	Article	IF	Citations
476	Application of nanoparticles for inorganic water purification. , 2020, , 221-243.		4
477	Hierarchical poly(vinylidene fluoride)/active carbon composite membrane with self-confining functional carbon nanotube layer for intractable wastewater remediation. Journal of Membrane Science, 2020, 603, 118041.	4.1	32
478	Adsorption of Mixed Dye System with Cetyltrimethylammonium Bromide Modified Sepiolite: Characterization, Performance, Kinetics and Thermodynamics. Water (Switzerland), 2020, 12, 981.	1.2	8
479	Insight into the co-pyrolysis of different blended feedstocks to biochar for the adsorption of organic and inorganic pollutants: A review. Journal of Cleaner Production, 2020, 265, 121762.	4.6	132
480	Nanofibers for heavy metal ion adsorption: Correlating surface properties to adsorption performance, and strategies for ion selectivity and recovery. Environmental Nanotechnology, Monitoring and Management, 2020, 13, 100297.	1.7	12
481	Carbon-based nanomaterials for remediation of organic and inorganic pollutants from wastewater.ÂA review. Environmental Chemistry Letters, 2020, 18, 1169-1191.	8.3	145
482	Chitosan/Graphene Oxide Nanocomposite Membranes as Adsorbents with Applications in Water Purification. Materials, 2020, 13, 1687.	1.3	46
483	Nanotechnologyâ€based wastewater treatment. Water and Environment Journal, 2021, 35, 123-132.	1.0	52
484	Environmentally Friendly Synthesis: Photocatalytic Dye Degradation and Bacteria Inactivation Using Ag/f-MWCNTs Composite. Journal of Cluster Science, 2021, 32, 711-718.	1.7	19
485	Esterification of sugarcane bagasse by citric acid for Pb2+ adsorption: effect of different chemical pretreatment methods. Environmental Science and Pollution Research, 2021, 28, 11869-11881.	2.7	17
486	Synthesis and characterization of NH2-SiO2@Cu-MOF as a high-performance adsorbent for Pb ion removal from water environment. Environment, Development and Sustainability, 2021, 23, 1688-1705.	2.7	22
487	Adsorption of oxytetracycline from aquaculture wastewater by modified carbon nanotubes: kinetics, isotherms and thermodynamics. Fullerenes Nanotubes and Carbon Nanostructures, 2021, 29, 28-38.	1.0	9
488	Multiwalled <scp>CNTs</scp> for <scp>Cr(VI)</scp> removal from industrial wastewater: An advanced study on adsorption, kinetics, thermodynamics for the comparison between the embedded and nonâ€embedded carboxyl group. Canadian Journal of Chemical Engineering, 2021, 99, 281-293.	0.9	13
489	Boron nitride-based materials for water purification: Progress and outlook. Chemosphere, 2021, 263, 127970.	4.2	55
490	The effect and mechanism of Si/Al ratio on microstructure of zeolite modified ceramsite derived from industrial wastes. Microporous and Mesoporous Materials, 2021, 311, 110667.	2.2	15
491	Investigating the adsorption behavior and mechanisms of insoluble Humic acid/starch composite microspheres for metal ions from water. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 610, 125672.	2.3	5
492	Fabrication of Polyethersulfone/Functionalized MWCNTs Nanocomposite and Investigation its Efficiency as an Adsorbent of Pb(II) Ions. Arabian Journal for Science and Engineering, 2021, 46, 6259-6273.	1.7	8
493	Adsorption behavior and mechanism of Hg (II) on a porous core-shell copper hydroxy sulfate@MOF composite. Applied Surface Science, 2021, 538, 148054.	3.1	46

#	Article	IF	Citations
494	Designed assembly of Ni/MAX (Ti3AlC2) and porous graphene-based asymmetric electrodes for capacitive deionization of multivalent ions. Chemosphere, 2021, 266, 129048.	4.2	36
495	Smectite-supported chain of iron nanoparticle beads for efficient clean-up of arsenate contaminated water. Journal of Hazardous Materials, 2021, 407, 124396.	6.5	11
496	The emergence of multifunctional adsorbents and their role in environmental remediation. Journal of Environmental Chemical Engineering, 2021, 9, 104793.	3.3	33
497	Efficient reduction of reactive black 5 and Cr(â...¥) by a newly isolated bacterium of Ochrobactrum anthropi. Journal of Hazardous Materials, 2021, 406, 124641.	6.5	23
498	Multi wall carbon nanotubes application for treatment of Cr(VI)-contaminated groundwater; Modeling of batch & column experiments. Chemosphere, 2021, 269, 128749.	4.2	64
499	Effective removal of nickel ions from aqueous solution using multi-wall carbon nanotube functionalized by glycerol-based deep eutectic solvent. Colloids and Interface Science Communications, 2021, 40, 100347.	2.0	34
500	Metal/metal oxide nanocomposite membranes for water purification. Materials Today: Proceedings, 2021, 44, 538-545.	0.9	15
501	Bioremediation of heavy metals from wastewater using nanomaterials. Environment, Development and Sustainability, 2021, 23, 9617-9640.	2.7	46
502	Adsorption of Crystal Violet from aqueous solution onto eco-friendly native Carpobrotus edulis plant. Materials Today: Proceedings, 2021, 37, 3980-3986.	0.9	10
503	Fabrication of chitosan/polyvinyl alcohol/amine modified carbon nanotube composite films for rapid chromate removal. Journal of Applied Polymer Science, 2021, 138, 50339.	1.3	6
504	Modification of clinoptilolite with dialkylphosphinic acid for the selective removal of cobalt (<scp>II</scp>) and nickel (<scp>II</scp>) from hydrometallurgical effluent. Canadian Journal of Chemical Engineering, 2021, 99, .	0.9	9
505	Electrodialysis enhanced with disodium EDTA as an innovative method for separating Cu(II) ions from zinc salts in wastewater. Chemical Engineering Journal, 2021, 408, 127908.	6.6	16
506	Efficient and selective removal of Pb(II) from aqueous solution by modification crofton weed: Experiment and density functional theory calculation. Journal of Cleaner Production, 2021, 280, 124407.	4.6	81
507	Characterization and application of MgAl layered double hydroxide for methyl orange removal from aqueous solution. Materials Today: Proceedings, 2021, 37, 3793-3797.	0.9	22
508	Double-walled carbon nanotubes functionalized with Allium sativum (garlic extract): Analytical applications for Pb(II) electrochemical sensing. Microchemical Journal, 2021, 160, 105653.	2.3	6
509	Fast removal of heavy metals from water and soil samples using magnetic Fe3O4 nanoparticles. Environmental Science and Pollution Research, 2021, 28, 3942-3952.	2.7	9
510	Environmental Remediation Through Carbon Based Nano Composites. Green Energy and Technology, 2021, , .	0.4	10
511	The applicability of as synthesized mesoporous carbon CMK-3 as a heavy metals adsorbent: application to real water samples. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2021, 43, 1675-1690.	1.2	7

#	Article	IF	Citations
512	Low Dimensional Nanostructures: Measurement and Remediation Technologies Applied to Trace Heavy Metals in Water. , 0, , .		3
513	Fabrication of Fe2TiO5/TiO2 binary nanocomposite from natural ilmenite and their photocatalytic activity under solar energy. Current Research in Green and Sustainable Chemistry, 2021, 4, 100156.	2.9	20
514	Magnetic signature of sewage polluted river sediments. Geosciences Journal, 2021, 25, 685-696.	0.6	2
515	Progress in carbon nanotubes for water treatment. , 2021, , 509-518.		1
516	A novel and facile green synthesis method to prepare LDH/MOF nanocomposite for removal of Cd(II) and Pb(II). Scientific Reports, 2021, 11, 1609.	1.6	67
517	Low-dimensional nanomaterials: Syntheses, physicochemical properties, and their role in wastewater treatment. , 2021, , 27-58.		1
518	Graphene, graphene oxide, and reduced graphene oxide-based materials: a comparative adsorption performance. , 2021, , 495-507.		4
519	Fundamentals of adsorption technology. Interface Science and Technology, 2021, , 1-70.	1.6	49
520	Nanomaterials for decontamination of organophosphorus compounds in soil. , 2021, , 301-315.		0
521	Effective Removal of Heavy Metal Ions from Wastewater Using a New Magnetic PolyHIPE Monoliths. Environmental Science and Engineering, 2021, , 853-858.	0.1	0
522	Magnetite-Zeolite Nanocomposite Applied to Remediation of Polluted Aquatic Environments. Materials Horizons, 2021, , 69-94.	0.3	1
523	Carbon-based nanomaterials for wastewater treatment. , 2021, , 367-384.		1
524	Recent advances in the applications of nano-agrochemicals for sustainable agricultural development. Environmental Sciences: Processes and Impacts, 2021, 23, 213-239.	1.7	97
525	Magnetic Solid-Phase Extraction of Cadmium Ions by Hybrid Self-Assembled Multicore Type Nanobeads. Polymers, 2021, 13, 229.	2.0	8
526	Potential Applications of Nanomaterials in Wastewater Treatment. , 2021, , 1230-1240.		5
527	Magnetic biochar-based composites for removal of recalcitrant pollutants in water. , 2021, , 163-187.		5
528	Performance of Avicennia Alba and Rhizophora Mucronata as Lead Bioaccumulator in Bjbr Coast, Indonesia. Journal of Ecological Engineering, 2021, 22, 169-177.	0.5	5
529	A critical review of synthesis parameters affecting the properties of zinc oxide nanoparticle and its application in wastewater treatment. Applied Water Science, 2021, 11, 1.	2.8	137

#	Article	IF	Citations
530	Wood-Industrial Waste Material as a Potential Sorbent for the Removal of Pb+2 and Co+2 from Mono and Binary Aquatic Metal Solutions. Oriental Journal of Chemistry, 2021, 37, 71-79.	0.1	1
531	Fabrication of Schiffâ€™s base-functionalized porous carbon materials for the effective removal of toxic metals from wastewater. Arabian Journal of Geosciences, 2021, 14, 1.	0.6	6
532	Removal of iron, zinc, and nickel-ions using nano bentonite and its applications on power station wastewater. Heliyon, 2021, 7, e06315.	1.4	21
533	Preparation of Al₂O₃ Whiskers from AACH Using Hydrothermal Method and its Use for the Removal of Lead Ions by Adsorption. Key Engineering Materials, 0, 875, 177-183.	0.4	0
534	Simple and efficient method for the determination of Cr(VI) ions in water samples using m-MWCNT@APTMS through dispersive magnetic solid phase extraction. International Journal of Environmental Analytical Chemistry, 2023, 103, 1817-1835.	1.8	3
535	Assessment of resistance and biosorption ability of Lactobacillus paracasei to remove lead and cadmium from aqueous solution. Water Environment Research, 2021, 93, 1589-1599.	1.3	3
536	Fabrication, Functionalization, and Application of Carbon Nanotube-Reinforced Polymer Composite: An Overview. Polymers, 2021, 13, 1047.	2.0	195
537	Graphitic Carbon Nitride (C3N4) Reduces Cadmium and Arsenic Phytotoxicity and Accumulation in Rice (Oryza sativa L.). Nanomaterials, 2021, 11, 839.	1.9	13
538	Water decontamination using bio-based, chemically functionalized, doped, and ionic liquid-enhanced adsorbents: review. Environmental Chemistry Letters, 2021, 19, 3075-3114.	8.3	34
539	A Review on the Synthesis and Applications of Nanoporous Carbons for the Removal of Complex Chemical Contaminants. Bulletin of the Chemical Society of Japan, 2021, 94, 1232-1257.	2.0	67
540	Progress toward Hydrogels in Removing Heavy Metals from Water: Problems and Solutionsâ€”A Review. ACS ES&T Water, 2021, 1, 1098-1116.	2.3	33
541	Thermodynamics and equilibrium evaluation of Cd (II)ion removal by adsorption onto Chitosan/Poly (Acryl amide -Acrylic Acid) Hydrogels. Materials Today: Proceedings, 2021, , .	0.9	1
542	Smart Adsorbents for Aquatic Environmental Remediation. Small, 2021, 17, e2007840.	5.2	37
543	Mechanochemical synthesis of oxygenated alkynyl carbon materials with excellent Hg(II) adsorption performance from CaC2 and carbonates. Green Energy and Environment, 2023, 8, 275-282.	4.7	12
544	Nanomaterial for inorganic pollutant remediation. Environmental and Toxicology Management, 2021, 1, 18-25.	0.3	3
545	Reviewâ€”Ti₃C₂T_x MXene: An Emerging Two-Dimensional Layered Material in Water Treatment. ECS Journal of Solid State Science and Technology, 2021, 10, 047002.	0.9	22
546	Nanomaterials: Applications, waste-handling, environmental toxicities, and future challenges â€“ A review. Journal of Environmental Chemical Engineering, 2021, 9, 105028.	3.3	133
547	Pressure-Driven Membrane Process: A Review of Advanced Technique for Heavy Metals Remediation. Processes, 2021, 9, 752.	1.3	24

#	Article	IF	Citations
548	Increasing the Efficiency of Electromembrane Processes in the Area of Electrochemical Cadmium Plating. Theoretical Foundations of Chemical Engineering, 2021, 55, 359-363.	0.2	1
549	Porous walnut-like La2O2CO3 derived from metal-organic frameworks for arsenate removal: A study of kinetics, isotherms, and mechanism. Chemosphere, 2021, 271, 129528.	4.2	18
550	Synthesis of Phosphonated Carbon Nanotubes: New Insight into Carbon Nanotubes Functionalization. Materials, 2021, 14, 2726.	1.3	9
551	Optimization of the Production of Ethylene Di-Amine Tetra-Acetic Acid Modified Activated Carbon using Palm Kernel Shell for the Adsorption of Copper ion. Chemical Science International Journal, 0, , 1-11.	0.3	0
552	The Influence of the Textural Characteristics of the Hierarchical Porous Carbons on the Removal of Lead and Cadmium Ions from Aqueous Solution. Sustainability, 2021, 13, 5790.	1.6	1
553	Zeoliteâ€“polysulfone-based adsorptive membrane for removal of metal pollutants. Chemical Papers, 2021, 75, 4479-4492.	1.0	7
554	Functionalized Carbon Nanotubes (CNTs) for Water and Wastewater Treatment: Preparation to Application. Sustainability, 2021, 13, 5717.	1.6	66
555	Recent advances in synthesis and application of polymer nanocomposites for water and wastewater treatment. Journal of Cleaner Production, 2021, 296, 126404.	4.6	99
556	Adsorption behavior of mercury over hydrated lime: Experimental investigation and adsorption process characteristic study. Chemosphere, 2021, 271, 129504.	4.2	32
557	A review on anaerobic microorganisms isolated from oil reservoirs. World Journal of Microbiology and Biotechnology, 2021, 37, 111.	1.7	12
558	Performance of microbial community dominated by Bacillus spp. in acid mine drainage remediation systems: A focus on the high removal efficiency of SO42-, Al3+, Cd2+, Cu2+, Mn2+, Pb2+, and Sr2+. Heliyon, 2021, 7, e07241.	1.4	9
559	Comparative research on selective adsorption of Pb(II) by biosorbents prepared by two kinds of modifying waste biomass: Highly-efficient performance, application and mechanism. Journal of Environmental Management, 2021, 288, 112388.	3.8	25
560	Research trends of heavy metal removal from aqueous environments. Journal of Environmental Management, 2021, 287, 112322.	3.8	53
561	Guar gum based nanocomposites: Role in water purification through efficient removal of dyes and metal ions. Carbohydrate Polymers, 2021, 261, 117851.	5.1	46
562	Arsenate removal by resin-supported ferric ions: Mechanism, modeling, and column study. Advanced Powder Technology, 2021, 32, 1943-1950.	2.0	3
563	Carbon Nanomaterials for Wastewater Treatment. ChemBioEng Reviews, 2021, 8, 463-489.	2.6	22
564	Recent progress and challenges of adsorptive membranes for the removal of pollutants from wastewater. Part II: Environmental applications. Case Studies in Chemical and Environmental Engineering, 2021, 3, 100102.	2.9	19
565	Chemical Activation of <i>Garcinia mangostana</i> Mangosteen Shell with Acid-Base for Hexavalent Chromium Adsorption. Key Engineering Materials, 0, 888, 99-104.	0.4	4

#	Article	IF	Citations
566	The behavior and mechanism of the adsorption of Pb(II) and Cd(II) by a porous double network porous hydrogel derived from peanut shells. Materials Today Communications, 2021, 27, 102449.	0.9	7
567	Comparison of batch and fixed bed column adsorption: a critical review. International Journal of Environmental Science and Technology, 2022, 19, 10409-10426.	1.8	37
568	Removal of Lead, Cadmium, and Aluminum Sulfate from Simulated and Real Water with Native and Oxidized Starches. Polysaccharides, 2021, 2, 429-453.	2.1	5
569	Carbon nanotubes from waste cooking palm oil as adsorbent materials for the adsorption of heavy metal ions. Environmental Science and Pollution Research, 2021, 28, 65171-65187.	2.7	9
570	Nanoparticles as a novel and promising antiviral platform in veterinary medicine. Archives of Virology, 2021, 166, 2673-2682.	0.9	10
571	Carbon nanotube embedded ultrafiltration membranes for the treatment of rapid granular multimedia prefiltered beauty hair salon and municipal wastewater. Separation and Purification Technology, 2021, 267, 118618.	3.9	8
572	Insight into two-dimensional MXenes for environmental applications: Recent progress, challenges, and prospects. FlatChem, 2021, 28, 100256.	2.8	35
573	Structural elucidation of Multi-walled Carbon Nanotubeâ€"Diferuloylmethane Conjugate: a pre-requisite for validating applications in water purification. Materials Research Express, 2021, 8, 125007.	0.8	1
574	Magnetic Carbon Nanotubesâ€Silica Binary Composite for Effective Pb(II) Sequestration from Industrial Effluents: Multivariate Process Optimization. Clean - Soil, Air, Water, 2021, 49, 2000401.	0.7	4
575	A review on nano-carbon materials for pollution remediation. Egyptian Journal of Chemistry, 2021, .	0.1	1
576	Fabrication and optimization of poly(ortho-aminophenol) doped glycerol for efficient removal of cobalt ion from wastewater. Journal of Molecular Liquids, 2022, 345, 117034.	2.3	8
577	Adsorptive removal of vanadium from aqueous media by ion exchange resin. Emergent Materials, 0, , 1.	3.2	7
578	Nanotube Sheet and Yarn Manufacturing and Commercialization. WSEAS Transactions on Business and Economics, 2021, 18, 1149-1163.	0.3	0
579	Insights into lead removal in water using a novel carbonized material derived from the byâ€product of oil refining: action mechanism and performance optimization. Journal of Chemical Technology and Biotechnology, 2021, 96, 3224-3236.	1.6	3
580	Removing low levels of Cd(II) and Pb(II) by adsorption on two types of oxidized multiwalled carbon nanotubes. Journal of Environmental Chemical Engineering, 2021, 9, 105402.	3.3	36
581	Synthesis of geopolymers from fly and bottom ashes of a thermoelectrical power plant for metallic ions adsorption. Environmental Science and Pollution Research, 2022, 29, 2699-2706.	2.7	6
583	Synthesis and evaluation of Ca-doped ferrihydrite as a novel adsorbent for the efficient removal of fluoride. Environmental Science and Pollution Research, 2022, 29, 6375-6388.	2.7	14
584	Kinetic and isotherm studies for the sorption of 134Cs and 60Co radionuclides onto supported titanium oxide. Journal of Radioanalytical and Nuclear Chemistry, 2021, 330, 127-139.	0.7	19

#	Article	IF	Citations
585	Heavy Metals Removal from Aqueous Solutions by Multiwall Carbon Nanotubes: Effect of MWCNTs Dispersion. Nanomaterials, 2021, 11, 2082.	1.9	19
586	A review on synthesis, characterisation and surface modification of magnetic nanoparticle and its composite for removal of heavy metals from wastewater. International Journal of Environmental Analytical Chemistry, 2023, 103, 6510-6525.	1.8	2
587	Competitive adsorption and mechanism of hexahydroxy metallic system by aminated solution-blown polyacrylonitrile micro/nanofibers. Water Practice and Technology, 2021, 16, 1327-1342.	1.0	2
588	Efficient Concentration of PB From Water by Reactions With Layered Alkali Silicates, Magadiite and Octosilicate. Clays and Clay Minerals, 2021, 69, 416-424.	0.6	3
589	Sorption of lead (II) and strontium (II) ions from aqueous solutions onto non-living Chlorella Vulgaris Alga/ Date pit activated carbon composite. Carbon Letters, 2022, 32, 495-512.	3.3	9
590	Efficient iron oxide/expanded graphite nanocomposites prepared by underwater plasma discharge for removing heavy metals. Journal of Materials Research and Technology, 2021, 14, 1884-1892.	2.6	1
591	Investigation of layered double hydroxide/carbon dot nanocomposite on removal efficiency of Pb2+ from aqueous solution. Journal of Molecular Liquids, 2021, 338, 116774.	2.3	5
592	Adsorption of Toxic Zinc by Functionalized Lignocellulose Derived from Waste Biomass: Kinetics, Isotherms and Thermodynamics. Sustainability, 2021, 13, 10673.	1.6	6
593	Superior removal of methylene blue using green fabricated pomegranate peel/nano-hematite composite: reusability, isotherm and kinetics study. Journal of Biomolecular Structure and Dynamics, 2022, 40, 12413-12425.	2.0	2
594	Graphene Oxide Synthesis, Properties and Characterization Techniques: A Comprehensive Review. ChemEngineering, 2021, 5, 64.	1.0	33
595	Steel Slag and Autoclaved Aerated Concrete Grains as Low-Cost Adsorbents to Remove Cd2+ and Pb2+ in Wastewater: Effects of Mixing Proportions of Grains and Liquid-to-Solid Ratio. Sustainability, 2021, 13, 10321.	1.6	6
596	Hexavalent Chromium Removal Using Ionic Liquid Coated Magnetic Nano Zero-Valent Iron Biosynthesized by Camellia sinensis Extract. International Journal of Environmental Research, 2021, 15, 1017-1036.	1.1	3
597	Eupatorium adenophorum derived adsorbent by hydrothermal-assisted HNO3 modification and application to Pb2+ adsorption. Journal of Environmental Chemical Engineering, 2021, 9, 105972.	3.3	13
598	Effect of pyrrolic-N defects on the capacitance and magnetization of nitrogen-doped multiwalled carbon nanotubes. Carbon, 2021, 183, 743-762.	5.4	22
599	Role of nanomaterial's as adsorbent for heterogeneous reaction in waste water treatment. Journal of Molecular Structure, 2021, 1241, 130596.	1.8	23
600	Adsorption characteristics and mechanism for K2Ti4O9 whiskers removal of Pb(II), Cd(II), and Cu(II) cations in wastewater. Journal of Environmental Chemical Engineering, 2021, 9, 106236.	3.3	19
601	Novel insights into adsorption of heavy metal ions using magnetic graphene composites. Journal of Environmental Chemical Engineering, 2021, 9, 106212.	3.3	34
602	Insight into the syntheses, performances and mechanisms of organically modified adsorbents for mercury ion sensing and removal. Journal of Environmental Chemical Engineering, 2021, 9, 105833.	3.3	6

#	Article	IF	Citations
603	Instructive analysis of engineered carbon materials for potential application in water and wastewater treatment. Science of the Total Environment, 2021, 793, 148583.	3.9	28
604	Hydrothermally synthesized titanate nanomaterials for the removal of heavy metals and radionuclides from water: A review. Chemosphere, 2021, 282, 131046.	4.2	22
605	Graphene-based membrane techniques for heavy metal removal: A critical review. Environmental Technology and Innovation, 2021, 24, 101863.	3.0	33
606	Enhanced heavy metals removal by a novel carbon nanotubes buckypaper membrane containing a mixture of two biopolymers: Chitosan and i-carrageenan. Separation and Purification Technology, 2021, 276, 119300.	3.9	43
607	Industrial wastewater treatment: Current trends, bottlenecks, and best practices. Chemosphere, 2021, 285, 131245.	4.2	85
608	Effects of functional carbon nanodots on water hyacinth response to Cd/Pb stress: Implication for phytoremediation. Journal of Environmental Management, 2021, 299, 113624.	3.8	15
609	Modification of naturally abundant resources for remediation of potentially toxic elements: A review. Journal of Hazardous Materials, 2022, 421, 126755.	6.5	32
610	Electrosorption of cadmium ions in aqueous solutions using a copper-gallate metal-organic framework. Chemosphere, 2022, 286, 131853.	4.2	16
611	Nanotechnology and green materials: Introduction, fundamentals, and applications. , 2022, , 3-19.		3
612	Recent advances in applications of low-cost adsorbents for the removal of heavy metals from water: A critical review. Separation and Purification Technology, 2021, 278, 119510.	3.9	158
613	Removal of heavy metals by microbial communities. , 2021, , 537-566.		3
614	A new age of innovative technology for wastewater treatment using nanomaterials. , 2021, , 331-358.		1
615	Advances in application of nanomaterials in remediation of heavy metal contaminated soil. E3S Web of Conferences, 2021, 261, 04027.	0.2	0
616	Removal of hexavalent Chromium-Industry treated water and Wastewater: A review. Materials Today: Proceedings, 2021, 42, 1112-1121.	0.9	36
617	Advanced approaches for heavy metals removal from industrial wastewater. , 2021, , 403-440.		3
618	Efficient techniques for the removal of toxic heavy metals from wastewater. , 2021, , 611-630.		0
619	Up-to-date Notions of Polystyrene Nanocomposite Nanofibers. Materials Research Innovations, 2022, 26, 113-125.	1.0	2
620	Nanotechnology and water processing: A review. , 2021, , 683-714.		0

#	Article	IF	Citations
621	Applications of Nanomaterials for Heavy Metal Removal from Water and Soil: A Review. Sustainability, 2021, 13, 713.	1.6	65
622	Remediation of Heavy Metal Ions Using Nanomaterials Sourced from Wastewaters. Nanotechnology in the Life Sciences, 2020, , 255-296.	0.4	4
623	Sustainable Waste Water Treatment Technologies. Textile Science and Clothing Technology, 2018, , 1-25.	0.4	2
624	Heavy Metals Removal Using Carbon Based Nanocomposites. Green Energy and Technology, 2021, , 249-274.	0.4	9
625	Kinetics and equilibrium study of lead bio-sorption from contaminated water by compost and biogas residues. International Journal of Environmental Science and Technology, 2019, 16, 3839-3850.	1.8	9
626	Synthesis, characterization and application of a novel ion hybrid imprinted polymer to adsorb Cd(II) in different samples. Environmental Research, 2020, 187, 109669.	3.7	25
627	A Novel Hydrogenation of Nitroarene Compounds with Multi Wall Carbon Nanotube Supported Palladium/Copper Nanoparticles (PdCu@MWCNT NPs) in Aqueous Medium. Scientific Reports, 2020, 10, 8043.	1.6	20
628	Effects of functionalized multi-walled carbon nanotubes on toxicity and bioaccumulation of lead in Daphnia magna. PLoS ONE, 2018, 13, e0194935.	1.1	39
629	Pioneering carbon nanotube textile engineering & fashion technology. Journal of Textile Engineering & Fashion Technology, 2019, 5, .	0.1	7
630	Removal and Recovery of Heavy Metals from Industrial Wastewater by Precipitation and Foam Separation Using Lime and Casein. Journal of Environmental Science and Technology, 2017, 11, 1-9.	0.3	23
631	Potential Applications of Nanomaterials in Wastewater Treatment. Advances in Environmental Engineering and Green Technologies Book Series, 2019, , 51-61.	0.3	27
632	Low cost nanoparticles derived from nitrogen fertilizer industry waste for the remediation of copper contaminated soil and water. Environmental Engineering Research, 2020, 25, 930-937.	1.5	13
633	Magnetic biochar from alkali-activated rice straw for removal of rhodamine B from aqueous solution. Environmental Engineering Research, 2020, 25, 536-544.	1.5	36
634	Conversion of coconut waste into cost effective adsorbent for Cu(II) and Ni(II) removal from aqueous solutions. Environmental Engineering Research, 2021, 26, 200250-0.	1.5	12
635	Evaluation of Collagen-Polyurethane-Chitosan Hydrogels for Lead Ions Removal from Water. Mediterranean Journal of Basic and Applied Sciences, 2020, 04, 93-104.	0.1	4
636	Activated carbon from date seeds for chromium removal in aqueous solution. , 0, 156, 267-277.		44
637	Determination of the Toxicological Risk of Urban Waste from the City of Uvira Dumped into the North-Western Coast in Lake Tanganyika (Democratic Republic of Congo). Journal of Environmental Protection, 2021, 12, 677-693.	0.3	0
638	Magnetic Iron-Containing Carbon Materials as Sorbents for the Removal of Pollutants from Aquatic Media (A Review). Solid Fuel Chemistry, 2021, 55, 285-305.	0.2	5

#	Article	IF	Citations
639	Sequestration of Heavy Metal Pollutants by Fe3O4-based Composites. Environmental Footprints and Eco-design of Products and Processes, 2022, , 101-116.	0.7	1
640	Production of red mud based nanofibers and their potential in arsenate removal from waste water. Journal of Dispersion Science and Technology, 2022, 43, 1079-1088.	1.3	6
641	The hierarchically nitrogenous magnetic porous carbon prepared by ZIF-67 through mesoporous silica-protected calcination for rapid Cr(VI) removal. Microporous and Mesoporous Materials, 2022, 329, 111517.	2.2	12
642	Role of Nanoparticles in Abiotic Stress. , 0, , .		9
643	Adsorption Behavior of Lead Ions from Wastewater on Pristine and Aminopropyl-Modified Blast Furnace Slag. Water (Switzerland), 2021, 13, 2735.	1.2	7
644	Removal of Cd2+ and Pb2+ from Wastewater through Sequent Addition of KR-Slag, Ca(OH)2 Derived from Eggshells and CO2 Gas. ACS Omega, 2021, 6, 27600-27609.	1.6	4
645	The preparation of layered hierarchical and cube-shaped magnetic Fe3O4/CaCO3 for efficient enrichment of Pb(â…¡) from aqueous solutions. Environmental Nanotechnology, Monitoring and Management, 2021, 16, 100600.	1.7	1
646	Synthesis, Characterization and Application of Carbon Nanotubes Decorated with Zinc Oxide Nanoparticles for Removal of Benzene, Toluene and p-Xylene from Aqueous Solution. Sustainability, 2021, 13, 11716.	1.6	3
647	Nanocarbon hybrid for simultaneous removal of arsenic, iron and manganese ions from aqueous solutions. Heliyon, 2021, 7, e08218.	1.4	16
648	Recent advances in carbon nanotubes-based biocatalysts and their applications. Advances in Colloid and Interface Science, 2021, 297, 102542.	7.0	32
649	Preparation and characterization of different zeolites from andesite rock: Product evaluation for efficient dye removal. Microporous and Mesoporous Materials, 2021, 328, 111485.	2.2	13
650	Integrated electrochemical-adsorption process for the removal of trace heavy metals from wastewater. Case Studies in Chemical and Environmental Engineering, 2021, 4, 100147.	2.9	6
651	Adsorption Behavior of Dithiocarbamate Î²-Chitosan Gels for Cadmium(II). Research & Reviews Journal of Material Sciences, 2017, 05, .	0.1	0
652	PAPRASTOJO KAÅTONO (AESCULUS HIPOCASTANUM L.) SÄ–KLÅ² PANAUDOJIMO TYRIMAI VARIO ÅALINIMUI IÅ VANDENINIÅ² TIRPALÅ². , 2017, , .		0
653	THE USE OF CARBON-NANOTUBES FOR REMOVAL OF BACTERIAL PATHOGENS FROM RIVER WATER. Journal of Al-Azhar University Engineering Sector, 2018, 13, 78-93.	0.1	0
654	Nanomaterials for Removal of Toxic Metals Ions from the Water. Advanced Structured Materials, 2019, , 159-174.	0.3	2
655	Nanotechnology: Environmentally Sustainable Solutions for Water Treatment. Engineering Materials, 2019, , 225-242.	0.3	1
657	Removal of Copper Ions from Wastewater Using Magnetite Loaded On Active Carbon (AC) and Oxidized Active Carbon (OAC) Support. Journal of Scientific Research in Science, 2019, 36, 223-241.	0.0	0

#	Article	IF	Citations
658	Explanations of the possibility of optical monitoring of CrO42 anonous adsorption on carbon nanostructures by theoretical calculations of variable spectra. Energy and Automation, 2019, , 82-95.	0.2	0
659	Effect of Organic Nano-Materials on Heavy Metals Concentration of Wheat Plants Inoculated With Piriformospora indica Fungus and Irrigated With Wastewater of Plating Industry. Avicenna Journal of Environmental Health Engineering, 2020, 7, 20-28.	0.3	0
661	Composition and Arrangement of Carbon-Derived Membranes for Purifying Wastewater. Green Energy and Technology, 2021, , 157-173.	0.4	0
662	Materials and Technologies for the Removal of Chromium from Aqueous Systems. Sustainable Agriculture Reviews, 2020, , 113-177.	0.6	2
663	Heavy Metal Contamination in Drinking Water Supplies in the Villages of Divandarreh: The Use of Geographic Information System. Avicenna Journal of Environmental Health Engineering, 2020, 7, 86-91.	0.3	0
664	Insight into the growth mechanism of AgIn5S8 nanoparticles in a low temperature co-precipitation process and their visible-light-driven photocatalytic activities. Materials Chemistry and Physics, 2022, 276, 125333.	2.0	8
665	Facile immobilization of ethylenediamine tetramethylene-phosphonic acid into UiO-66 for toxic divalent heavy metal ions removal: An experimental and theoretical exploration. Science of the Total Environment, 2022, 806, 150652.	3.9	43
666	Carbon nanotube-based nanohybrids for agricultural and biological applications. , 2020, , 505-535.		2
667	CompÃ³sitos en estado hidrogel con aplicaciÃ³n en la adsorciÃ³n de metales pesados presentes en aguas residuales. TIP Revista Especializada En Ciencias QuÃmico-BiolÃ³gicas, 0, 23, .	0.3	0
668	Modeling and visualizing the transport and retention of cationic and oxyanionic metals (Cd and Cr) in saturated soil under various hydrochemical and hydrodynamic conditions. Science of the Total Environment, 2022, 812, 151467.	3.9	14
669	A novel benzothiazole modified chitosan with excellent adsorption capacity for Au(III) in aqueous solutions. International Journal of Biological Macromolecules, 2021, 193, 1918-1926.	3.6	17
670	EcoÂâ^'Âutilization of siliconÂâ^'Ârich lye: Synthesis of amorphous calcium silicate hydrate and its application for recovering heavy metals. Separation and Purification Technology, 2022, 282, 120092.	3.9	9
671	Removal of heavy metal ions by porous sepioliteâ€based membrane. Micro and Nano Letters, 2020, 15, 903-906.	0.6	4
672	Electroanalytical Techniques for the Remediation of Heavy Metals from Wastewater. Environmental Chemistry for A Sustainable World, 2021, , 471-511.	0.3	11
673	A Review for Potential Applications of Zeolite-Based Nanocomposites in Removal of Heavy Metals and Escherichia coli from Drinking Water. Nanotechnologies in Russia, 2020, 15, 686-700.	0.7	3
674	Chelating Materials for the Removal of Heavy Metals from Water. Environmental Chemistry for A Sustainable World, 2021, , 379-417.	0.3	0
675	Use of Nanomaterials for Heavy Metal Remediation. Environmental Chemistry for A Sustainable World, 2021, , 225-265.	0.3	0
676	Theoretical calculation of toxic/radioactive metal ion capture by novel nanomaterials. , 2022, , 313-379.		2

#	Article	IF	Citations
677	Water treatment and environmental remediation applications of carbon-based nanomaterials. , 2022, , 229-311.		0
678	Water-stable metalâ€“organic frameworkâ€“based nanomaterials for removal of heavy metal ions and radionuclides. , 2022, , 49-126.		1
679	Cr(VI) Adsorption from Aqueous Solution by UiO-66 Modified Corncob. Sustainability, 2021, 13, 12962.	1.6	12
680	Synthetic Approach to Rice Waste-Derived Carbon-Based Nanomaterials and Their Applications. Nanomanufacturing, 2021, 1, 109-159.	1.8	18
681	Influence of salinity on heavy metal and oil removal from hypersaline oilfieldâ€“produced water by electrocoagulation: mechanistic insights. Environmental Science and Pollution Research, 2022, 29, 23619-23638.	2.7	2
682	Highly efficient and selective capture Pb(II) through a novel metal-organic framework containing bifunctional groups. Journal of Hazardous Materials, 2022, 427, 127852.	6.5	26
683	Nano chromium embedded in f-CNT supported CoBi-LDH nanocomposites for selective adsorption of Pb2+and hazardous organic dyes. Chemosphere, 2022, 289, 133073.	4.2	27
684	Quantum size effect of cadmium-doped titanium dioxide photocatalysts towards methylene blue degradation and electrooxidation. International Journal of Environmental Science and Technology, 2022, 19, 9507-9518.	1.8	1
685	Acetic acid-modified zinc oxide nanoparticles for solid phase extraction of Cu(II) and Cr(III) in water. Toxicological and Environmental Chemistry, 2022, 104, 20-35.	0.6	4
686	Potential lead toxicity and leakage issues on lead halide perovskite photovoltaics. Journal of Hazardous Materials, 2022, 426, 127848.	6.5	100
687	Ex Situ Method for Photoreduction of the Cadmium Ion from Terbium-Loaded Bismuth Vanadium Oxide. ACS Omega, 2021, 6, 31716-31726.	1.6	3
688	Comparative study of Pb2+, Ni2+, and methylene blue adsorption on spherical waste solid-based geopolymer adsorbents enhanced with carbon nanotubes. Separation and Purification Technology, 2022, 284, 120234.	3.9	33
689	Carbon nanotubes/Al₂O₃ composite derived from catalytic reforming of the pyrolysis volatiles of the mixture of polyethylene and lignin for highly-efficient removal of Pb(<scp>ii</scp>). RSC Advances, 2021, 11, 37851-37865.	1.7	9
690	Interface Engineering of MIL-88 Derived MnFe-LDH and MnFe ₂O ₃ on Three-Dimensional Carbon Nanofibers for the Efficient Adsorption of Cr(VI), Pb(II), and As(III) Ions. SSRN Electronic Journal, 0, , .	0.4	0
691	Carbon Nanotubes for Environmental Remediation Applications. , 2021, , 1-30.		1
692	Piezo-driven jet valve dispensing of carbon nanotube-loaded composites: optimisation and characterisation. Nanocomposites, 2021, 7, 200-214.	2.2	7
693	Quantitative effects of surface oxidation on biochar derived from long-root Eichhornia Crassipes plants as Cd2+ adsorbent. Bioresource Technology Reports, 2022, 17, 100937.	1.5	1
694	Molecular dynamic simulation and artificial intelligence of lead ions removal from aqueous solution using magnetic-ash-graphene oxide nanocomposite. Journal of Molecular Liquids, 2022, 347, 118290.	2.3	16

#	Article	IF	Citations
695	Sustainable and efficient technologies for removal and recovery of toxic and valuable metals from wastewater: Recent progress, challenges, and future perspectives. Chemosphere, 2022, 292, 133102.	4.2	62
696	Adsorptive removal of organic dyes via porous materials for wastewater treatment in recent decades: A review on species, mechanisms and perspectives. Chemosphere, 2022, 293, 133464.	4.2	146
697	Novel synthesis methods and applications of MXene-based nanomaterials (MBNs) for hazardous pollutants degradation: Future perspectives. Chemosphere, 2022, 293, 133542.	4.2	34
698	Adsorption of High Chromium Concentrations from Industrial Wastewater Using Different Agricultural Residuals. Journal of Environmental Treatment Techniques (discontinued), 2020, 9, 122-138.	0.5	3
699	Mexican Natural Leptosol as Catalyst Precursor for Synthesis of Nitrogen-Doped Multiwall Carbon Nanotubes by Chemical Vapor Deposition. SSRN Electronic Journal, 0, , .	0.4	0
700	A review on sources of heavy metals, their toxicity and removal technique using physico-chemical processes from wastewater. Environmental Science and Pollution Research, 2022, 29, 16772-16781.	2.7	32
701	Electrodialysis for metal removal and recovery: A review. Chemical Engineering Journal, 2022, 435, 134857.	6.6	105
702	Gelatinâ€“Siloxane Hybrid Monoliths as Novel Heavy Metal Adsorbents. Applied Sciences (Switzerland), 2022, 12, 1258.	1.3	5
703	Use of nanotechnology for wastewater treatment: potential applications, advantages, and limitations. , 2022, , 223-272.		4
704	Effective removal of Pb(II)/4-nitroaniline/E. faecalis and E. coli pollutants from water by a novel unique graphene quantum dots@gemifloxacin@ double-layered Fe/Al nanocomposite. Journal of Water Process Engineering, 2022, 46, 102562.	2.6	13
705	Interface engineering of MIL-88 derived MnFe-LDH and MnFe2O3 on three-dimensional carbon nanofibers for the efficient adsorption of Cr(VI), Pb(II), and As(III) ions. Separation and Purification Technology, 2022, 287, 120463.	3.9	38
706	O, N-doped porous biochar by air oxidation for enhancing heavy metal removal: The role of O, N functional groups. Chemosphere, 2022, 293, 133622.	4.2	21
707	Preconcentrations of Cu (II) and Mn (II) by magnetic solid-phase extraction on Bacillus cereus loaded Î³-Fe2O3 nanomaterials. Environmental Research, 2022, 209, 112766.	3.7	14
708	Nanostructured Materials: A Review on Its Application in Water Treatment. Minerals, Metals and Materials Series, 2022, , 1172-1180.	0.3	22
709	Application of bacterial bioflocculant for the synthesis of biocapped metal nanoparticles and their multifunctional features. , 2022, , 155-192.		0
710	Direct sulfhydryl ligand derived UiO-66 for the removal of aqueous mercury and its subsequent application as a catalyst for transfer vinylation. Dalton Transactions, 2022, 51, 4043-4051.	1.6	4
711	Nano-phytoremediation technology in environmental remediation. , 2022, , 433-459.		2
712	Photoinduced adsorption of Cr(VI) ions in nanoâ€zinc oxide and nanoâ€zinc oxide/polypyrrole composite. Journal of Applied Polymer Science, 0, , 52225.	1.3	2

#	Article	IF	Citations
713	A Critical Review On Heavy Metals Removal Using Ionic Liquid Membranes From The Industrial Wastewater. Chemical Engineering and Processing: Process Intensification, 2022, 173, 108812.	1.8	40
714	Recent advances in adsorptive removal of wastewater pollutants by chemically modified metal oxides: A review. Journal of Water Process Engineering, 2022, 46, 102641.	2.6	40
715	Nanocelluloses for Removal of Heavy Metals From Wastewater. , 2022, , 1-42.		1
716	Arsenic contamination, induced symptoms, and health risk assessment in groundwater of Lahore, Pakistan. Environmental Science and Pollution Research, 2022, 29, 49796-49807.	2.7	11
717	Nanotechnology in the Restoration of Polluted Soil. Nanomaterials, 2022, 12, 769.	1.9	49
718	Combining single and complex indices of pollution with grain size trend analysis of surficial sediments in Edremit Gulf, western Turkey. Environmental Science and Pollution Research, 2022, 29, 55609-55629.	2.7	4
719	Characterization and adsorption capacity of four low-cost adsorbents based on coconut, almond, walnut, and peanut shells for copper removal. Biomass Conversion and Biorefinery, 2024, 14, 3655-3666.	2.9	13
720	Simultaneous removal of antimony and arsenic by nano-TiO₂-crosslinked chitosan (TA-chitosan) beads. Environmental Technology (United Kingdom), 2023, 44, 2913-2923.	1.2	5
721	From waste to waste: iron blast furnace slag for heavy metal ions removal from aqueous system. Environmental Science and Pollution Research, 2022, 29, 57964-57979.	2.7	12
722	Hierarchical porous biochar fabricated by Aspergillus tubingensis pretreatment coupling with chemical activation for Pb (II) removal. Microporous and Mesoporous Materials, 2022, 335, 111861.	2.2	5
723	In Situ Synthesis of Carbon Nanotubeâ€“Steel Slag Composite for Pb(II) and Cu(II) Removal from Aqueous Solution. Nanomaterials, 2022, 12, 1199.	1.9	6
724	Ultrafast removal of Cr(VI) ions using polyamine modified carbon nanotubes. Journal of the Taiwan Institute of Chemical Engineers, 2022, 133, 104265.	2.7	11
725	Tunable 2D Nanomaterials; Their Key Roles and Mechanisms in Water Purification and Monitoring. Frontiers in Environmental Science, 2022, 10, .	1.5	16
726	Carbonaceous materials as effective adsorbents and catalysts for the removal of emerging contaminants from water. Journal of Cleaner Production, 2022, 350, 131319.	4.6	38
727	Interactive effects of metals and carbon nanotubes in a microcosm agrosystem. Journal of Hazardous Materials, 2022, 431, 128613.	6.5	2
728	Recent advances in nano-adsorbents for the sequestration of copper from water. Journal of Water Process Engineering, 2022, 47, 102715.	2.6	53
729	Advances in adsorptive membrane technology for water treatment and resource recovery applications: A critical review. Journal of Environmental Chemical Engineering, 2022, 10, 107633.	3.3	46
730	Aerogel-based adsorbents as emerging materials for the removal of heavy metals from water: Progress, challenges, and prospects. Separation and Purification Technology, 2022, 291, 120923.	3.9	57

#	Article	IF	Citations
731	Nanoparticle assisted environmental remediation: Applications, toxicological implications and recommendations for a sustainable environment. Environmental Nanotechnology, Monitoring and Management, 2022, 18, 100679.	1.7	8
732	Low Temperature One-Pot Hydrothermal Carbonization of Corn Straw into Hydrochar for Adsorbing Cadmium (II) in Wastewater. Energies, 2021, 14, 8503.	1.6	9
733	Carbon Nanotube Based Membranes for Filtration. , 2022, , 1-31.		0
734	Performance of Metal-Based Nanoparticles and Nanocomposites for Water Decontamination. Environmental Footprints and Eco-design of Products and Processes, 2022, , 65-112.	0.7	0
735	AkÃ¼ sanayi atÄ±ksularÄ±ndan kurÅŸunun kapya biberi Ã§ekirdekleri kullanÄ±larak biyosorpsiyonla giderimi. Journal of the Faculty of Engineering and Architecture of Gazi University, 0, , .	0.3	0
736	Heavy Metalâ€™s Environmental Impact. , 0, , .		9
737	Highly selective cesium removal under acidic and alkaline conditions using a novel potassium aluminum thiostannate. Chemosphere, 2022, 301, 134610.	4.2	13
738	Spinel ferrite-enhanced Cr(VI) removal performance of micro-scale zero-valent aluminum: Synergistic effects of oxide film destruction and lattice spacing expansion. Separation and Purification Technology, 2022, 294, 121110.	3.9	6
739	Enhancing the remarkable adsorption of Pb²⁺ in a series of sulfonic-functionalized Zr-based MOFs: a combined theoretical and experimental study for elucidating the adsorption mechanism. Dalton Transactions, 2022, 51, 7503-7516.	1.6	10
740	Climate Change Diplomacy, Adaptation, and Mitigation Strategies in South Asian Countries: A Critical Review. Springer Climate, 2022, , 1-32.	0.3	1
741	Carbon nanotube-based materials for environmental remediation processes. , 2022, , 475-513.		7
742	Phytoremediation of pollutants from wastewater: A concise review. Open Life Sciences, 2022, 17, 488-496.	0.6	12
743	Recent trends of carbon nanotubes and chitosan composites for hexavalent chromium removal from aqueous samples. Separation Science and Technology, 2022, , 177-207.	0.0	1
744	Nanosponges for Water Treatment: Progress and Challenges. Applied Sciences (Switzerland), 2022, 12, 4182.	1.3	18
745	Removal of heavy metals from wastewater using low-cost biochar prepared from jackfruit seed waste. Biomass Conversion and Biorefinery, 2023, 13, 14447-14456.	2.9	8
746	An environmentally friendly gradient treatment system of copper-containing wastewater by coupling thermally regenerative battery and electrodeposition cell. Separation and Purification Technology, 2022, 295, 121243.	3.9	8
747	Synthesis of bimetallic Metal-Organic Frameworks composite for the removal of Copper(II), Chromium(VI), and Uranium(VI) from the aqueous solution using fixed-bed column adsorption. Journal of Solid State Chemistry, 2022, 312, 123168.	1.4	14
748	A comparison of two digestion methods and heavy metals determination in sediments. ChemistrySelect, 2022, .	0.7	0

#	Article	IF	Citations
749	Water Purification by Green Synthesized Nanomaterials. Current Pharmaceutical Biotechnology, 2023, 24, 101-117.	0.9	3
750	Assessment of carbon nanotube-based materials to preconcentrate metals: kinetic and reusability studies. Journal of Materials Science, 0, , 1.	1.7	0
751	Carbon nanotubes-based adsorbents: Properties, functionalization, interaction mechanisms, and applications in water purification. Journal of Water Process Engineering, 2022, 47, 102815.	2.6	49
752	A critical review on cadmium recovery from wastewater towards environmental sustainability. Desalination, 2022, 535, 115815.	4.0	21
753	Synthesis of new Fe/Cr LDH for removal of Hg2+ ion from aqueous solutions and adsorption study using smartphone-based colorimetry. Environmental Nanotechnology, Monitoring and Management, 2022, 18, 100702.	1.7	1
754	Removing chromium (VI) from contaminated water using a nano-chitosanâ€“coated diatomaceous earth. Separation Science and Technology, 2022, , 163-176.	0.0	2
755	The synthesis of sponge-type nitrogen-doped multiwall carbon nanotubes using ball-milled natural red-leptosol as catalyst precursor: A cycle voltammetry study. Carbon, 2022, 196, 510-524.	5.4	6
756	Pushing the boundaries of heavy metal adsorption: A commentary on strategies to improve adsorption efficiency and modulate process mechanisms. Colloids and Interface Science Communications, 2022, 49, 100626.	2.0	14
757	Performance evaluation and mechanism analysis of potassium permanganate used for simultaneous removal of tetracycline and Cu(II). Journal of Water Process Engineering, 2022, 48, 102861.	2.6	4
759	Anisotropy of the Wear Behavior for Carbon Nanotube Reinforced 6061al Composites. SSRN Electronic Journal, 0, , .	0.4	0
760	Do Carbon Nanotubes and Asbestos Fibers Exhibit Common Toxicity Mechanisms?. Nanomaterials, 2022, 12, 1708.	1.9	15
761	Metal-doped Magnetic Graphene Oxide Nanohybrid for Solid-phase Microextraction of Copper from Environmental Samples. Iranian Journal of Science and Technology, Transaction A: Science, 2022, 46, 807-817.	0.7	4
762	A critical and recent developments on adsorption technique for removal of heavy metals from wastewater-A review. Chemosphere, 2022, 303, 135146.	4.2	110
764	Adsorptive Removal of Copper and Chromium Ion by Using Azospirillum Biofertilizer as Low-cost Biosorbent in Aqueous Medium. Water, Air, and Soil Pollution, 2022, 233, .	1.1	7
765	Recent Advancements in Cyclodextrin-Based Adsorbents for the Removal of Hazardous Pollutants from Waters. Polymers, 2022, 14, 2341.	2.0	11
766	Green Synthesized Nanomaterials for Safe Technology in Sustainable Agriculture. Current Pharmaceutical Biotechnology, 2023, 24, 61-85.	0.9	9
767	Use of Eggshell-Catalyzed Biochar Adsorbents for Pb Removal from Aqueous Solution. ACS Omega, 2022, 7, 21808-21819.	1.6	4
768	GREEN SYNTHESIS OF IRON-OXIDE NANOPARTICLES USING SCRAP IRON AS PRECURSOR FOR THE REMOVAL OF PB (II) FROM AQUEOUS MEDIUM. Journal of Environmental Engineering and Landscape Management, 2022, 30, 308-320.	0.4	4

#	Article	IF	Citations
769	Enhanced remediation of lead (II) and cadmium (II) ions from aqueous media using porous magnetic nanocomposites - A comprehensive review on applications and mechanism. Environmental Research, 2022, 213, 113720.	3.7	20
770	Highly conductive CNT aerogel synthesizedviaan inert FC-CVD technique: a step towards a greener approach. Reaction Chemistry and Engineering, 2022, 7, 1921-1930.	1.9	4
771	Nanocelluloses for Removal of Heavy Metals From Wastewater. , 2022, , 891-931.		0
772	Functionalization of carbon nanotubes with bovine plasma biowaste by forming a protein corona enhances copper removal from water and ecotoxicity mitigation. Environmental Science: Nano, 2022, 9, 2887-2905.	2.2	5
774	Bioremediation of imidacloprid using Azospirillium biofertilizer and Rhizobium biofertilizer. Korean Journal of Chemical Engineering, 2022, 39, 2702-2712.	1.2	5
775	Fe/Co-MOF Nanocatalysts: Greener Chemistry Approach for the Removal of Toxic Metals and Catalytic Applications. ACS Omega, 2022, 7, 23421-23444.	1.6	19
776	Removal of Pb²⁺ from Water Using Sustainable Brown Seaweed Phlorotannins. Langmuir, 2022, 38, 8324-8333.	1.6	3
777	Titanium lanthanum three oxides decorated magnetic graphene oxide for adsorption of lead ions from aqueous media. Environmental Research, 2022, 214, 113831.	3.7	26
778	Highly efficient removal of cadmium (II) ions using cellulose-based monolith with a hierarchically porous structure fabricated through phase separation method. Journal of Water Process Engineering, 2022, 48, 102901.	2.6	4
779	Advances in biological methods for the sequestration of heavy metals from water bodies: A review. Environmental Toxicology and Pharmacology, 2022, 94, 103927.	2.0	26
780	Removal of hazardous ions from aqueous solutions: Current methods, with a focus on green ion flotation. Journal of Environmental Management, 2022, 319, 115666.	3.8	14
781	Technological trends in activation and modification of palm oil fuel ash for advanced water and wastewater treatment â€“ A review. Sustainable Chemistry and Pharmacy, 2022, 29, 100754.	1.6	1
782	Adsorption of hydroquinone and Pb(II) from water by Î²-cyclodextrin/polyethyleneimine bi-functional polymer. Carbohydrate Polymers, 2022, 294, 119806.	5.1	22
783	What makes MXenes emergent materials for the adsorption of heavy metals from water? A critical review. Journal of Water Process Engineering, 2022, 49, 103010.	2.6	18
784	Removal of Heavy Metal (Cadmium) Using Temperature Optimized Novel Rare Earth Garnet (Y3Fe5O12) Through Simple, Robust, and Efficient Adsorption Technique. Journal of Superconductivity and Novel Magnetism, 2022, 35, 2987-2998.	0.8	2
785	Environmental and human health implications of metal(loid)s: Source identification, contamination, toxicity, and sustainable clean-up technologies. Frontiers in Environmental Science, 0, 10, .	1.5	13
786	Removal of Heavy Metal Ions from Wastewaters by Using Chitosan/Poly(Vinyl Alcohol) Adsorbents: A Review. Macromol, 2022, 2, 403-425.	2.4	16
787	Adsorption of pharmaceutical products from aqueous solutions on functionalized carbon nanotubes by conventional and green methods: A critical review. Journal of Cleaner Production, 2022, 372, 133743.	4.6	31

#	Article	IF	Citations
788	Assessing Physicochemical Technologies for Removing Hexavalent Chromium from Contaminated Watersâ€"an Overview and Future Research Directions. Water, Air, and Soil Pollution, 2022, 233, .	1.1	4
789	Synthesis and adsorption performance of three-dimensional gels assembled by carbon nanomaterials for heavy metal removal from water: A review. Science of the Total Environment, 2022, 852, 158201.	3.9	26
790	Polyacrylate stabilized ZVI/Cu bimetallic nanoparticles for removal of hexavalent chromium from wastewater. Environmental Science and Pollution Research, 2023, 30, 5847-5860.	2.7	9
791	Molecular simulation of layered GO membranes with amorphous structure for heavy metal ions separation. Journal of Membrane Science, 2022, 660, 120863.	4.1	18
792	Preparation, modification and environmental application of carbon monoliths assisted by the electric field: A review. Journal of Cleaner Production, 2022, 369, 133464.	4.6	6
793	Carbide-derived carbon as an extraordinary material for the removal of chromium from an aqueous solution. Chemosphere, 2022, 307, 135953.	4.2	11
794	Influence of calcination atmosphere on Fe doped activated carbon for the application of lead removal from water. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 652, 129928.	2.3	14
795	Efficient removal of Pb(II) ions by using 2-acetylthiophene-modified graphene oxide from aqueous solution. Materials Today Sustainability, 2022, 20, 100212.	1.9	2
796	Research on Modified Carbon Nanotubes in Wastewater Treatment. Catalysts, 2022, 12, 1103.	1.6	7
797	Removal of car battery heavy metals from wastewater by activated carbons: a brief review. Environmental Science and Pollution Research, 2022, 29, 73675-73717.	2.7	1
798	Immobilization of zinc oxide-based photocatalysts for organic pollutant degradation: A review. Journal of Environmental Chemical Engineering, 2022, 10, 108505.	3.3	28
799	An overview about the extraction of heavy metals and other critical pollutants from contaminated water via hydrophobic deep eutectic solvents. Journal of Environmental Chemical Engineering, 2022, 10, 108574.	3.3	22
800	Carbon Nanotubes Reinforced Polymeric Hybrid Materials for Water Purification. Composites Science and Technology, 2022, , 197-223.	0.4	0
801	Biodegradation of Azo Dye Pollutants Using Microorganisms. , 2022, , 1-29.		1
802	Carbon Nanotubes in Water Treatment. , 2022, , 171-184.		2
803	Adsorptive Removal of Lead and Chromate Ions from Water by Using Iron-Doped Granular Activated Carbon Obtained from Coconut Shells. Sustainability, 2022, 14, 10877.	1.6	17
804	Insight into microwave-assisted synthesis of the chitosan-MOF composite: Pb(II) adsorption. Environmental Science and Pollution Research, 2023, 30, 6216-6233.	2.7	13
805	Function of Nanomaterials in Removing Heavy Metals for Water and Wastewater Remediation: A Review. Environments - MDPI, 2022, 9, 123.	1.5	28

#	Article	IF	Citations
806	Nickel Hyperaccumulator Biochar Sorbs Ni(II) from Water and Wastewater to Create an Enhanced Bio-ore. ACS Environmental Au, 0, , .	3.3	0
807	Peanut Shell-Derived Biochar as a Low-Cost Adsorbent to Extract Cadmium, Chromium, Lead, Copper, and Zinc (Heavy Metals) from Wastewater: Circular Economy Approach. Circular Economy and Sustainability, 2023, 3, 1045-1064.	3.3	3
808	A cohesive effort to assess the suitability and disparity of carbon nanotubes for water treatment. Environmental Science and Pollution Research, 2023, 30, 124832-124853.	2.7	2
809	Fabrication of silver monoliths using Brij 52 surfactant and TiO2 nanoparticles and their applications to reduce Fast Sulphon Black F dye and sensor against Pb2+. Journal of Materials Science: Materials in Electronics, 2022, 33, 21444-21458.	1.1	0
810	Challenges, advances and sustainabilities on the removal and recovery of manganese from wastewater: A review. Journal of Cleaner Production, 2022, 377, 134152.	4.6	13
811	Performance analysis of bamboo-based (Bambusa vulgaris) activated carbon in aquaculture wastewater treatment. Sustainable Water Resources Management, 2022, 8, .	1.0	1
812	Hybrid Coordination Networks for Removal of Pollutants from Wastewater. International Journal of Molecular Sciences, 2022, 23, 12611.	1.8	1
813	Zeolite/ZnAl-layer double hydroxides with different Zn/Al ratios and intercalated anions as the substrate of constructed wetlands: synthesis, characterization and purification effect of Hexavalent chromium. Environmental Science and Pollution Research, 0, , .	2.7	0
814	Bioremediation of acid mine drainage â€“ Review. AEJ - Alexandria Engineering Journal, 2023, 65, 1047-1075.	3.4	15
815	Application of Surface Modified Carbon Nanotubes for Water Purification. ACS Symposium Series, 0, , 71-99.	0.5	0
816	The oxidation states of heavy metals and their adsorption behavior onto biobased hydrogels. International Journal of Environmental Science and Technology, 0, , .	1.8	0
817	Conversion of gaseous effluents of power plant to sodium carbonate: A value-added material for powder detergent. , 2022, 3, 100042.		0
818	Efficient removal of arsenic and phosphate contaminants by diatomite-modified schwertmannite. Journal of Environmental Chemical Engineering, 2022, 10, 108808.	3.3	1
819	A graphene-based porous composite hydrogel for efficient heavy metal ions removal from wastewater. Separation and Purification Technology, 2023, 305, 122484.	3.9	17
820	Carbon Nanotubeâ€“Based Membranes for Filtration. , 2022, , 2039-2069.		0
821	Mercury adsorption and reduction by nonlinear optical material (NLOM) DMABR loaded on Sepiolite: A mechanism study. Chemical Engineering Journal, 2023, 453, 139787.	6.6	3
822	Mg-doped CaCO3 nanoarchitectures assembled by ($$4overline{41}$$) high-index facets for efficient trace removal of Pb(II). Rare Metals, 2023, 42, 525-535.	3.6	3
823	Functionalized and Biomimicked Carbon-Based Materials and Their Impact for Improving Surface Coatings for Protection and Functionality: Insights and Technological Trends. Coatings, 2022, 12, 1674.	1.2	0

#	Article	IF	Citations
824	Multi-fluorous-included Counter Anions-based Ionic Copolymers: Synthesis and Enhanced Hydrophobic Adsorption Films on Copper Surface for Super Protection. Chemical Research in Chinese Universities, 0, , .	1.3	0
825	A new strategy for selective recovery of low concentration cobalt ions from wastewater: Based on selective chelating precipitation-flotation process. Journal of the Taiwan Institute of Chemical Engineers, 2022, 141, 104605.	2.7	3
826	Carbon Nanotubes for Environmental Remediation Applications. , 2022, , 1845-1873.		0
827	Green synthesized zinc derived nanocomposites with enhanced photocatalytic activity: An updated review on structural modification, scientific assessment and environmental applications. Inorganic Chemistry Communication, 2023, 147, 110246.	1.8	7
828	Porous analcime composite synthesized from solid waste: A cost-effective and superb adsorbent for efficient removal of Cu(II) and cationic dye. Chemical Engineering Research and Design, 2023, 189, 474-484.	2.7	6
829	Nanomaterials as a cutting edge in the removal of toxic contaminants from water. Materials Chemistry and Physics, 2023, 295, 127092.	2.0	7
830	Fluorescent magnetic chitosan-based hydrogel incorporating Amino-Functionalized Fe3O4 and cellulose nanofibers modified with carbon dots for adsorption and detection of Cr (VI). Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 658, 130673.	2.3	11
831	Electro-deionization (EDI) technology for enhanced water treatment and desalination: A review. Desalination, 2023, 548, 116254.	4.0	18
832	Oil Palm Empty Fruit Bunch (OPEFB) Pellets as a Biosorbent for Ni (II) and Cr (VI) removal in an aqueous solution. IOP Conference Series: Earth and Environmental Science, 2022, 1102, 012010.	0.2	0
833	Colloidal Behavior and Biodegradation of Engineered Carbon-Based Nanomaterials in Aquatic Environment. Nanomaterials, 2022, 12, 4149.	1.9	4
834	Palm leaves based biochar: advanced material characterization and heavy metal adsorption study. Biomass Conversion and Biorefinery, 0, , .	2.9	5
835	Influence of the surface modification of granular-activated carbon synthesized from macauba on heavy metal sorption. Environmental Science and Pollution Research, 2023, 30, 31881-31894.	2.7	6
836	A Brief Review of Recent Results in Arsenic Adsorption Process from Aquatic Environments by Metal-Organic Frameworks: Classification Based on Kinetics, Isotherms and Thermodynamics Behaviors. Nanomaterials, 2023, 13, 60.	1.9	10
837	COF-Based Composites: Extraordinary Removal Performance for Heavy Metals and Radionuclides from Aqueous Solutions. Reviews of Environmental Contamination and Toxicology, 2022, 260, .	0.7	32
838	A Critical Review of the Removal of Radionuclides from Wastewater Employing Activated Carbon as an Adsorbent. Materials, 2022, 15, 8818.	1.3	9
839	A colorimetric aptasensor based on two dimensional (2D) nanomaterial and gold nanoparticles for detection of toxic heavy metal ions: A review. , 2023, 2, 100184.		10
840	Chitosan-Based Polymer Nanocomposites for Environmental Remediation of Mercury Pollution. Polymers, 2023, 15, 482.	2.0	17
841	Nano-Microbial Remediation of Polluted Soil: A Brief Insight. Sustainability, 2023, 15, 876.	1.6	9

#	Article	IF	Citations
842	Study on histo-biochemical biomarkers of chromium induced toxicity in Labeo rohita. Emerging Contaminants, 2023, 9, 100204.	2.2	3
843	Features of the presence of precious metals in the zinc production clinker. Russian Journal of Non-Ferrous Metals, 2022, , 19-25.	0.0	0
844	Features of the Presence of Precious Metals in the Zinc Production Clinker. Russian Journal of Non-Ferrous Metals, 2022, 63, 594-598.	0.2	0
845	Removal of Heavy Metals and Salmonella Pathogens from Sewage Sludge Using a Novel Chelating Agent and Its Reuse as a Fertilizer. , 0, , .		0
846	Nanomaterials for the removal of organic pollutants from agrofood wastewaters. , 2023, , 355-381.		1
847	Applications and implications of carbon nanotubes for the sequestration of organic and inorganic pollutants from wastewater. Environmental Science and Pollution Research, 2023, 30, 124934-124949.	2.7	4
848	Enhanced performance of graphene-oxide polyethersulfone nanocomposite membrane wastewater and its fouling mechanism. AIP Conference Proceedings, 2023, , .	0.3	0
849	MXene-based materials for removal of antibiotics and heavy metals from wastewaterâ€“ a review. Water Resources and Industry, 2023, 29, 100202.	1.9	34
850	Ti-based MOF derived by functionalization for selective removal of Pb(II) and Hg(II) from aqueous media. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2023, 290, 116337.	1.7	6
851	Î²-cyclodextrin-scaffolded crosslinked poly(ionic liquid)s for ultrafast removal of multiple pollutants: Insight into adsorption performance and mechanism. Chemical Engineering Journal, 2023, 464, 142526.	6.6	8
852	Simultaneous removal of pharmaceuticals and heavy metals from aqueous phase via adsorptive strategy: A critical review. Water Research, 2023, 236, 119924.	5.3	27
853	Experimental, response surface methodology (RSM) and mass transfer modeling of heavy metals elimination using dolomite powder as an economical adsorbent. Case Studies in Chemical and Environmental Engineering, 2023, 7, 100329.	2.9	8
854	A critical review on the removal of mercury (Hg2+) from aqueous solution using nanoadsorbents. Environmental Nanotechnology, Monitoring and Management, 2023, 20, 100816.	1.7	11
855	Fabrication of Sodium Alginate Porous Scaffolds for Heavy Metal Ion Removal from Aqueous Solution. Journal of Macromolecular Science - Physics, 2022, 61, 1350-1365.	0.4	0
856	Ecological and human risk assessment of heavy metals at Abu-Qir coastline of Mediterranean Sea in Egypt using GIS. Acta Ecologica Sinica, 2023, 43, 907-924.	0.9	4
857	Modification of Multiwalled Carbon Nanotubes and Their Mechanism of Demanganization. Molecules, 2023, 28, 1870.	1.7	1
858	Carbon based nanomaterial interactions with metals and metalloids in terrestrial environment: A review. Carbon, 2023, 206, 325-339.	5.4	1
859	Adsorption of Phenanthrene on Multi-Walled Carbon Nanotubes in the Presence of Nonionic Surfactants. International Journal of Environmental Research and Public Health, 2023, 20, 3648.	1.2	0

#	Article	IF	Citations
860	Nanocomposites for adsorption of toxic metals. , 2023, , 591-614.		0
861	Biodegradation of Azo Dye Pollutants Using Microorganisms. , 2023, , 781-809.		0
862	Removal of Dye from Aqueous Solution Using Ectodermis of Prickly Pear Fruits-Based Bioadsorbent. Sustainability, 2023, 15, 4700.	1.6	1
863	Removal of metals from water using MOF-based composite adsorbents. Environmental Science: Water Research and Technology, 2023, 9, 1305-1330.	1.2	8
864	Facile Synthesis of the Polyaniline@Waste Cellulosic Nanocomposite for the Efficient Decontamination of Copper(II) and Phenol from Wastewater. Nanomaterials, 2023, 13, 1014.	1.9	1
865	Investigation on the adsorption of the carbamate pesticide methomyl from aqueous solution using modified co-beta zeolite particles. Science of Sintering, 2023, , 4-4.	0.5	0
866	Structures and functionalizations of carbon nanotubes in water treatment. , 2023, , 29-56.		0
867	A cost-effective o-toulidine-based Schiff base as an efficient sorbent for metal ion uptake from aqueous and soil samples: Synthesis, antimicrobial, and acute toxicity analyses. Frontiers in Environmental Science, 0, 11, .	1.5	0
868	A Znâ€Based Metalâ€Organic Framework Modified by CuCl₂ Under Ambient Conditions for Simultaneous Ultrasonicâ€Assisted Removal of Pb and Cd Ions with Fast Kinetics from Aqueous Solution. ChemistrySelect, 2023, 8, .	0.7	4
869	Management of wastewater and other environmental issues using smart nanomaterials. , 2023, , 489-503.		5
870	A review on the industrial wastewater with the efficient treatment techniques. Chemical Papers, 2023, 77, 4131-4163.	1.0	10
872	Prospective of hybrid carbon-based materials for environmental remediation. , 2023, , 25-54.		1
873	Role of nanoparticles in the treatment of industrial wastewater. , 2023, , 305-334.		0
876	Bioinspired nanomaterials for remediation of toxic metal ions from wastewater. , 2023, , 39-55.		0
881	Utilizing Pyrolytic Char from Waste Drill Cuttings in Shale Gas Industry as a Potential Adsorbent for Heavy Metal Removal. Environmental Science and Engineering, 2023, , 733-742.	0.1	0
894	Reviewing of using nano-materials for stabilization of soil contaminated by heavy metals. AIP Conference Proceedings, 2023, , .	0.3	0
899	Recovering industrial wastewater: application of electrodialysis reversal approach. , 2023, , 483-497.		0
900	Promising nanoparticles for water reuse and recovery. , 2023, , 129-145.		0

#	Article	IF	Citations
901	Functionalization of carbon-based nanomaterials with ionic liquids. , 2023, , 59-78.		0
904	Heavy metals adsorption performance of Ti-MXenes synthesized via fluorinated etchants and their regeneration. Chemical Papers, 2023, 77, 5601-5621.	1.0	2
915	Photocatalyst for the Degradation of Hazardous and Toxic Compounds. Advances in Chemical and Materials Engineering Book Series, 2023, , 159-190.	0.2	0
916	Ecotoxicological effects and socio-economical aspects of nanoadsorbent materials. , 2023, , 507-531.		0
918	Development Strategies and Prospects of Carbon Nanotube as Heavy Metal Adsorbent. , 2023, , 59-81.		0
920	Current technologies for heavy metal removal from food and environmental resources. Food Science and Biotechnology, 0, , .	1.2	0
922	Bacterial nanocellulose and its application in heavy metals and dyes removal: a review. Environmental Science and Pollution Research, 0, , .	2.7	1
923	Concluding Remarks and Future Perspectives of Nanosponges in Environmental Remediation. , 2023, , 449-473.		0
924	Removal of Organic and Inorganic Contaminants from Water Using Nanosponge Cyclodextrin Polyurethanes. , 2023, , 169-186.		0
926	Carbon nanotubesâ€“based nanoadsorbents in wastewater treatment. , 2023, , 103-141.		0
930	Nanoparticles and Nanocomposites for Heavy Metals Removal. Advances in Sustainability Science and Technology, 2023, , 139-161.	0.4	0
932	Recent trends in synthesis of 2D MXene-based materials for sustainable environmental applications. Emergent Materials, 2024, 7, 35-62.	3.2	1
934	Removal of Inorganic Pollutants Using Optical Nanosensors. , 2024, , 1-22.		0
938	Chicken Feather Fibers as Adsorbents for the Removal of Heavy Metals from Water. Lecture Notes in Civil Engineering, 2024, , 427-450.	0.3	0
942	Highly efficient removal of toxic Pb(II) from aqueous solution by chitosan-g-p(AA-co-AAm) hydrogel: Kinetic, models. AIP Conference Proceedings, 2023, , .	0.3	0
946	Carbon-Polyaniline Composite Adsorbents for Aqueous Pollutants Uptake. , 2024, , .		0
949	Removal of Brilliant-Green Dye Using Carbon-Loaded Zinc Oxide Nanoparticles: A Comparative Isotherm Study. , 0, , .		0
950	Nanobioremediation: a sustainable approach for environmental monitoring with special reference to the restoration of heavy metal contaminated soil and wastewater treatment. , 2024, , 41-49.		0

#	Article	IF	Citations
951	Modeling and experiment study of carbon nanotubes for enhancing the oil removal from wastewater. , 2024, , 479-501.		0
952	Scope, evaluation and current perspectives of MXene synthesis strategies for state of the art applications. Journal of Materials Chemistry A, 2024, 12, 7351-7395.	5.2	2
954	Potential applications of carbon nanotubes for the removal of organic and inorganic pollutants from wastewater. , 2024, , 307-329.		0
955	Comparative study of heavy metal ion adsorption using raw and functionalized carbon nanotubes. , 2024, , 529-547.		0
956	Properties and adsorption mechanism of organic pollutants by carbon nanotubes. , 2024, , 243-269.		0
958	2D Metal Carbides and Nitrides (MXenes) in Water Treatment. Engineering Materials, 2024, , 141-168.	0.3	0
962	Application of nanoceramic-based composites in wastewater treatment. , 2024, , 395-409.		0
976	Heavy Metal Pollution and Biosorption. Advances in Environmental Engineering and Green Technologies Book Series, 2024, , 1-38.	0.3	0