On the comparison of pseudo-first order and pseudo-se modeling of adsorption kinetics

Chemical Engineering Journal

300, 254-263

DOI: 10.1016/j.cej.2016.04.079

Citation Report

#	Article	IF	Citations
2	Adsorption behavior and mechanism of heavy metal ions by chicken feather protein-based semi-interpenetrating polymer networks super absorbent resin. RSC Advances, 2016, 6, 83234-83243.	1.7	30
3	Biosorption and biodegradation of a sulfur dye in high-strength dyeing wastewater by Acidithiobacillus thiooxidans. Journal of Environmental Management, 2016, 182, 265-271.	3.8	45
4	Uptake of heavy metal ions from aqueous solutions by sorbents obtained from the spent ion exchange resins. Microporous and Mesoporous Materials, 2017, 244, 127-136.	2.2	49
5	Optimization of adsorption process parameters by response surface methodology for hexavalent chromium removal from aqueous solutions using Annona reticulata Linn peel microparticles. Water Science and Technology, 2017, 75, 2094-2107.	1.2	23
6	Kinetics and mass transfer studies on the biosorption of organic matter from palm oil mill effluent by aerobic granules before and after the addition of Serratia marcescens SA30 in a sequencing batch reactor. Chemical Engineering Research and Design, 2017, 107, 259-268.	2.7	25
7	Determination of an engineering model for exchange kinetics of strong acid cation resin for the ion exchange of sodium chloride & sodium bicarbonate solutions. Journal of Water Process Engineering, 2017, 17, 197-206.	2.6	16
8	Magnetic ZnFe₂O₄@chitosan encapsulated in graphene oxide for adsorptive removal of organic dye. RSC Advances, 2017, 7, 28145-28151.	1.7	22
9	Purification of phlorotannins from Macrocystis pyrifera using macroporous resins. Food Chemistry, 2017, 237, 312-319.	4.2	44
10	Facile synthesis of gelatin modified attapulgite for the uptake of uranium from aqueous solution. Journal of Molecular Liquids, 2017, 234, 172-178.	2.3	21
11	Synthesis of water-dispersible poly- l -lysine-functionalized magnetic Fe 3 O 4 -(GO-MWCNTs) nanocomposite hybrid with a large surface area for high-efficiency removal of tartrazine and Pb(II). International Journal of Biological Macromolecules, 2017, 105, 1611-1621.	3.6	29
12	Utilization of waste ceramics and roof tiles for radionuclide sorption. Chemical Engineering Research and Design, 2017, 105, 348-360.	2.7	17
13	Experimental and modeling investigation on CO2 sorption kinetics over K2CO3-modified silica aerogels. Chemical Engineering Journal, 2017, 312, 50-58.	6.6	37
14	Preparation and characterization of a mesoporous polycrown impregnated silica and its adsorption for palladium from highly acid medium. Journal of Porous Materials, 2017, 24, 1037-1045.	1.3	12
15	Adsorption of low-cost absorption materials based on biomass (Cortaderia selloana flower spikes) for dye removal: Kinetics, isotherms and thermodynamic studies. Journal of Molecular Liquids, 2017, 229, 285-292.	2.3	109
16	Biosorption of azo-dye using marine macro-alga of Euchema Spinosum. Journal of Environmental Chemical Engineering, 2017, 5, 5721-5731.	3.3	69
17	Synthesis and Characterization of Two-Dimensional Transition Metal Dichalcogenide Magnetic MoS₂@Fe₃O₄ Nanoparticles for Adsorption of Cr(VI)/Cr(III). ACS Omega, 2017, 2, 6187-6200.	1.6	107
18	Kinetic modeling of novel solid desiccant based on PVA-LiCl electrospun nanofibrous membrane. Polymer Testing, 2017, 64, 183-193.	2.3	20
19	Uncovering potentials of integrated TiO2(B) nanosheets and H2O2 for removal of tetracycline from aqueous solution. Journal of Molecular Liquids, 2017, 248, 112-120.	2.3	45

#	Article	IF	Citations
20	Removal of fluoride ions from solution by chelating resin with imino-diacetate functionality. Journal of Water Process Engineering, 2017, 20, 113-122.	2.6	26
21	Microwave-assisted hydrothermal synthesis of cellulose/ZnO composites and its thermal transformation to ZnO/carbon composites. Iranian Polymer Journal (English Edition), 2017, 26, 681-691.	1.3	13
22	Nanoparticles of type Fe3O4-SiO2-graphene oxide and coated with an amino acid-derived ionic liquid for extraction of Al(III), Cr(III), Cu(II), Pb(II) prior to their determination by ICP-OES. Mikrochimica Acta, 2017, 184, 4279-4286.	2.5	33
23	Equilibrium and kinetics of calciumâ€“uranylâ€“carbonate adsorption on silica nanoparticles. Journal of Radioanalytical and Nuclear Chemistry, 2017, 314, 93-103.	0.7	6
24	Fabrication of a magnetic porous hydrogel sphere for efficient enrichment of Rb+ and Cs+ from aqueous solution. Chemical Engineering Research and Design, 2017, 125, 214-225.	2.7	20
25	Biosorption of toxic metals using the alginate extraction residue from the brown algae Sargassum filipendula as a natural ion-exchanger. Journal of Cleaner Production, 2017, 165, 491-499.	4.6	79
26	Lignin-graft-poly(acrylic acid) for enhancement of heavy metal ion biosorption. Journal of Materials Science, 2017, 52, 13689-13699.	1.7	27
27	Extraction and characterization of chitin and chitosan: applications of chitosan nanoparticles in the adsorption of copper in an aqueous environment. E-Polymers, 2017, 17, 383-397.	1.3	13
28	Adsorption of hexavalent chromium from aqueous solutions using Canadian peat and coconut fiber. Journal of Molecular Liquids, 2017, 248, 981-989.	2.3	59
29	Mass transfer kinetics of Cd(II) ions adsorption by titania polyvinylalcohol-alginate beads from aqueous solution. Chemical Engineering Journal, 2017, 308, 700-709.	6.6	43
30	Sorption mechanisms of arsenate on Mg-Fe layered double hydroxides: A combination of adsorption modeling and solid state analysis. Chemosphere, 2017, 168, 539-548.	4.2	41
31	Advance treatment of chemical industrial tailwater by integrated electrochemical technologies: Electrocatalysis, electrodialysis and electro-microfiltration. Chemical Engineering Journal, 2017, 310, 13-21.	6.6	26
32	Preparation of crosslinked poly (acryloyloxyethyltrimethyl ammonium chloride) microsphere and its adsorption and mechanism towards shikimic acid. Materials Science and Engineering C, 2017, 71, 167-175.	3.8	21
33	Separation of bioactive chamazulene from chamomile extract using metal-organic framework. Journal of Pharmaceutical and Biomedical Analysis, 2017, 146, 126-134.	1.4	43
34	Synthesis of nitrogen doped carbon quantum dots/magnetite nanocomposites for efficient removal of methyl blue dye pollutant from contaminated water. RSC Advances, 2018, 8, 8528-8536.	1.7	68
35	Facile preparation of a cellulose-based bioadsorbent modified by hPEI in heterogeneous system for high-efficiency removal of multiple types of dyes. Reactive and Functional Polymers, 2018, 125, 77-83.	2.0	42
36	Adsorption of selected nitrophenols on activated carbon in the presence of nicotinamide. Journal of Molecular Liquids, 2018, 259, 7-15.	2.3	9
37	Hydrochars from bamboo sawdust through acid assisted and two-stage hydrothermal carbonization for removal of two organics from aqueous solution. Bioresource Technology, 2018, 261, 257-264.	4.8	74

#	Article	IF	Citations
38	Complete Column Trials for Water Refinement Using Titanium(IV) Phosphate Sorbents. ACS Sustainable Chemistry and Engineering, 2018, 6, 6157-6165.	3.2	6
39	Enhanced sorption capacities for lead and uranium using titanium phosphates; sorption, kinetics, equilibrium studies and mechanism implication. Chemical Engineering Journal, 2018, 342, 184-195.	6.6	80
40	Polyamide 6-LiCl nanofibrous membrane as low-temperature regenerative desiccant with improved stability. Nanotechnology, 2018, 29, 185702.	1.3	8
41	Insights into mathematical characteristics of adsorption models and physical meaning of corresponding parameters. Journal of Molecular Liquids, 2018, 254, 20-25.	2.3	57
42	Sorption of crude oil by enzyme-modified corn stalk vs. chemically treated corn stalk. Journal of Molecular Liquids, 2018, 255, 324-332.	2.3	17
43	Characterization of EDTA-cross-linked Î²-cyclodextrin grafted onto Fe-Al hydroxides as an efficient adsorbent for methylene blue. Journal of Colloid and Interface Science, 2018, 516, 98-109.	5.0	43
44	Magnetic protein imprinted polymers: a review. Journal of Materials Chemistry B, 2018, 6, 1563-1580.	2.9	28
45	Multipurpose Use of a Corncob Biomass for the Production of Polysaccharides and the Fabrication of a Biosorbent. ACS Sustainable Chemistry and Engineering, 2018, 6, 3830-3839.	3.2	39
46	Preparation of a sustainable bioadsorbent by modifying filter paper with sodium alginate, with enhanced mechanical properties and good adsorption of methylene blue from wastewaters. Cellulose, 2018, 25, 2021-2036.	2.4	20
47	Recovery of ammonium from aqueous solutions using ZSM-5. Chemosphere, 2018, 198, 501-509.	4.2	29
48	New magnetic chitosan/alginate/Fe3O4@SiO2 hydrogel composites applied for removal of Pb(II) ions from aqueous systems. Chemical Engineering Journal, 2018, 337, 595-608.	6.6	118
49	Nanostructured oxide stabilized by chitosan: Hybrid composite as an adsorbent for the removal of chromium (VI). Journal of Environmental Chemical Engineering, 2018, 6, 1008-1019.	3.3	31
50	Titania-Coated Silica Alone and Modified by Sodium Alginate as Sorbents for Heavy Metal Ions. Nanoscale Research Letters, 2018, 13, 96.	3.1	29
51	Critical of linear and nonlinear equations of pseudo-first order and pseudo-second order kinetic models. Karbala International Journal of Modern Science, 2018, 4, 244-254.	0.5	260
52	Preparation of wheat straw-supported Nanoscale Zero-Valent Iron and its removal performance on ciprofloxacin. Ecotoxicology and Environmental Safety, 2018, 158, 100-107.	2.9	36
53	Preparation and characterization of MWCNTâ€“COOHâ€“celluloseâ€“MgO NP nanocomposite as adsorbent for removal of methylene blue from aqueous solutions: isotherm, thermodynamic and kinetic studies. Journal of Nanostructure in Chemistry, 2018, 8, 103-121.	5.3	39
54	Effective Enrichment and Detection of Trace Polycyclic Aromatic Hydrocarbons in Food Samples based on Magnetic Covalent Organic Framework Hybrid Microspheres. Journal of Agricultural and Food Chemistry, 2018, 66, 3572-3580.	2.4	124
55	Excellent reusable chitosan/cellulose aerogel as an oil and organic solvent absorbent. Carbohydrate Polymers, 2018, 191, 183-190.	5.1	101

#	Article	IF	Citations
56	Value adding red mud waste: Impact of red mud composition upon fluoride removal performance of synthesised akaganeite sorbents. Journal of Environmental Chemical Engineering, 2018, 6, 2063-2074.	3.3	24
57	Hydrothermal synthesis of mesoporous carbons for adsorption of two alkaloids. Journal of Porous Materials, 2018, 25, 95-105.	1.3	19
58	Phosphate adsorption from aqueous solution by lanthanumâ€“iron hydroxide loaded with expanded graphite. Environmental Technology (United Kingdom), 2018, 39, 997-1006.	1.2	12
59	Arsenic removal by periphytic biofilm and its application combined with biochar. Bioresource Technology, 2018, 248, 49-55.	4.8	57
60	Use of three types of magnetic biochar in the removal of copper(II) ions from wastewaters. Separation Science and Technology, 2018, 53, 1045-1057.	1.3	22
61	Highly effective Zn(II) and Pb(II) removal from aqueous solutions using Mg-Fe layered double hydroxides: Comprehensive adsorption modeling coupled with solid state analyses. Journal of Cleaner Production, 2018, 171, 944-953.	4.6	36
62	Fluoride and nitrate adsorption from water by Fe(III)-doped scoria: optimizing using response surface modeling, kinetic and equilibrium study. Water Science and Technology: Water Supply, 2018, 18, 1117-1132.	1.0	13
63	Capacitive deionization of chloride ions by activated carbon using a three-dimensional electrode reactor. Separation and Purification Technology, 2018, 191, 424-432.	3.9	30
64	Efficient defluoridation of water by Monetite nanorods. Adsorption, 2018, 24, 135-145.	1.4	16
65	Comparison of adsorption and desorption of phosphate on synthesized Zn-Al LDH by two methods in a simulated soil solution. Applied Clay Science, 2018, 152, 333-341.	2.6	102
66	Effectiveness of beetroot seeds and H3PO4 activated beetroot seeds for the removal of dyes from aqueous solutions. Journal of Water Reuse and Desalination, 2018, 8, 522-531.	1.2	17
67	Modification of montmorillonite by Gemini surfactants with different chain lengths and its adsorption behavior for methyl orange. Applied Clay Science, 2018, 151, 29-36.	2.6	74
68	Ultrasound-assisted xanthation of cellulose from lignocellulosic biomass optimized by response surface methodology for Pb(II) sorption. Carbohydrate Polymers, 2018, 182, 21-28.	5.1	64
69	Remediation strategy and electrochemistry flushing & reduction technology for real Cr(VI)-contaminated soils. Chemical Engineering Journal, 2018, 334, 1281-1288.	6.6	31
70	Tylosin sorption to diatomaceous earth described by Langmuir isotherm and Freundlich isotherm models. Chemosphere, 2018, 193, 912-920.	4.2	71
71	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
72	Eco-friendly and biocompatible cross-linked carboxymethylcellulose hydrogels as adsorbents for the removal of organic dye pollutants for environmental applications. Environmental Technology (United Kingdom), 2018, 39, 2856-2872.	1.2	48
73	AvaliaÃ§Ã£o de processo adsortivo utilizando mesocarpo de coco verde para remoÃ§Ã£o do corante azul de metileno. Revista Materia, 2018, 23, .	0.1	10

#	Article	IF	Citations
74	Identification of thienopyridine carboxamides as selective binders of HIV-1 trans Activation Response (TAR) and Rev Response Element (RRE) RNAs. Organic and Biomolecular Chemistry, 2018, 16, 9191-9196.	1.5	14
75	Adsorption of mercury(<scp>ii</scp>) from water by a novel sPAN fiber containing sulfhydryl, carboxyl and amino groups. RSC Advances, 2018, 8, 38259-38269.	1.7	23
76	Fast adsorption of methylene blue, basic fuchsin, and malachite green by a novel sulfonic-grafted triptycene-based porous organic polymer. RSC Advances, 2018, 8, 41986-41993.	1.7	36
77	Adsorption of Tetracycline with Reduced Graphene Oxide Decorated with MnFe2O4 Nanoparticles. Nanoscale Research Letters, 2018, 13, 396.	3.1	43
78	Copper Metal Removal using Sludge Activated Carbon Derived from Wastewater Treatment Sludge. MATEC Web of Conferences, 2018, 203, 03009.	0.1	9
79	Adsorption of Common Laboratory Dyes Using Natural Fibers from Luffa cylindrica. Journal of Chemical Education, 2018, 95, 2233-2237.	1.1	12
80	Kinetic and Desorption Study of Selected Bioactive Compounds on Mesoporous Starbons: A Comparison with Microporous-Activated Carbon. ACS Omega, 2018, 3, 18361-18369.	1.6	10
81	Adsorption behavior and mechanism of Î²-cyclodextrinâ€“styrene-based polymer for cationic dyes. RSC Advances, 2018, 8, 40321-40329.	1.7	25
82	Synthesis of lignocellulose-based composite hydrogel as a novel biosorbent for Cu2+ removal. Cellulose, 2018, 25, 7315-7328.	2.4	42
83	A novel akaganeite sorbent synthesised from waste red mud: Application for treatment of arsenate in aqueous solutions. Journal of Environmental Chemical Engineering, 2018, 6, 6308-6316.	3.3	14
84	Kinetics of europium sorption to four different aluminum (hydr)oxides: Corundum, Î³-alumina, bayerite, and gibbsite. Journal of Environmental Radioactivity, 2018, 195, 20-25.	0.9	8
85	Methane enrichment on biogas generated from anaerobic digester using coconut shell-based activated carbon. MATEC Web of Conferences, 2018, 159, 01030.	0.1	1
86	Adsorption Characteristics of Anionic Surfactant Sodium Dodecylbenzene Sulfonate on the Surface of Montmorillonite Minerals. Frontiers in Chemistry, 2018, 6, 390.	1.8	24
87	Vertically Aligned Titanate Nanotubes Hydrothermally Synthesized from Anodized TiO₂ Nanotube Arrays: An Efficient Adsorbent for the Repeatable Recovery of Sr Ions. ACS Sustainable Chemistry and Engineering, 2018, 6, 16139-16150.	3.2	19
88	Chitosan grafted SiO2â€“Fe3O4 nanoparticles for removal of antibiotics from water. Environmental Science and Pollution Research, 2018, 25, 36661-36670.	2.7	27
89	Two-step modification towards enhancing the adsorption capacity of fly ash for both inorganic Cu(II) and organic methylene blue from aqueous solution. Environmental Science and Pollution Research, 2018, 25, 36449-36461.	2.7	11
90	Enhanced adsorption of cationic and anionic dyes from aqueous solutions by polyacid doped polyaniline. Synthetic Metals, 2018, 245, 151-159.	2.1	66
91	Preparation of TiO2 incorporated polyacrylonitrile electrospun nanofibers for adsorption of heavy metal ions. Journal of Polymer Research, 2018, 25, 1.	1.2	30

#	Article	IF	Citations
92	2-Methylol-12-crown-4 ether immobilized PolyHIPEs toward recovery of lithium(<scp>i</scp>). New Journal of Chemistry, 2018, 42, 16814-16822.	1.4	29
93	Sericin-derived activated carbon-loaded alginate bead: An effective and recyclable natural polymer-based adsorbent for methylene blue removal. International Journal of Biological Macromolecules, 2018, 120, 906-914.	3.6	25
94	Polyethylenimine-functionalized silk sericin beads for high-performance remediation of hexavalent chromium from aqueous solution. Chemosphere, 2018, 207, 507-516.	4.2	61
95	Homeotropic Self-Alignment of Discotic Liquid Crystals for Nanoporous Polymer Films. ACS Nano, 2018, 12, 6714-6724.	7.3	32
96	Adsorptive recovery of phenolics from apple juice via batch and fixed bed column. Journal of Food Engineering, 2018, 239, 114-121.	2.7	5
97	Preparation of Coreâ€“Shell Magnetic Molecularly Imprinted Polymer with Uniform Thin Polymer Layer for Adsorption of Dichlorophen. Journal of Chemical & Engineering Data, 2018, 63, 3068-3073.	1.0	9
98	Adsorption of Humic Acid by Acid-Modified Granular Activated Carbon and Powder Activated Carbon. Journal of Environmental Engineering, ASCE, 2018, 144, .	0.7	19
99	Inspection for desorption behavior and desorption mechanism of oily sludge by thermodynamics and kinetics analysis. Journal of the Taiwan Institute of Chemical Engineers, 2018, 93, 226-233.	2.7	17
100	Coniferous Wood Sawdust-based Activated Carbons as Adsorbents Obtained with the Use of Microwave Radiation. Journal of Wood Chemistry and Technology, 2018, 38, 286-299.	0.9	6
101	Investigation of the simultaneous biosorption of toxic metals through a mixture design application. Journal of Cleaner Production, 2018, 200, 890-899.	4.6	22
102	Preparation of 2-Aminothiazole-Functionalized Poly(glycidyl methacrylate) Microspheres and Their Excellent Gold Ion Adsorption Properties. Polymers, 2018, 10, 159.	2.0	30
103	COD removal from landfill leachate using a high-performance and low-cost activated carbon synthesized from walnut shell. Chemical Engineering Communications, 2018, 205, 1193-1206.	1.5	26
104	Facile preparation of novel layer-by-layer surface ion-imprinted composite membrane for separation of Cu2+ from aqueous solution. Applied Surface Science, 2018, 457, 981-990.	3.1	40
105	Decolorization of mordant yellow 1 using Aspergillus sp. TS-A CGMCC 12964 by biosorption and biodegradation. Bioengineered, 2018, 9, 222-232.	1.4	16
106	Synthesis of Hematite (Î±-Fe₂O₃) Nanostructures by Thermal Oxidation of Iron Sheet for Cr (VI) Adsorption. Key Engineering Materials, 2018, 775, 395-401.	0.4	6
107	A weighted average kinetic equation and its application in estimating mass transfer coefficients in liquid phase adsorption. Biophysical Chemistry, 2018, 241, 50-54.	1.5	5
108	The influence of substituted hydroxyapatites heat treatment on citrate sorption behavior â€“ infrared spectroscopy experiments and adsorption studies. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 558, 23-32.	2.3	6
109	Kinetic Study of the Bioadsorption of Methylene Blue on the Surface of the Biomass Obtained from the Algae D. antarctica. Journal of Chemistry, 2018, 2018, 1-12.	0.9	48

#	Article	IF	Citations
110	Protonation Process to Enhance the Water Resistance of Transparent and Hazy Paper. ACS Sustainable Chemistry and Engineering, 2018, 6, 12385-12392.	3.2	23
111	Re-use of waste red mud: Production of a functional iron oxide adsorbent for removal of phosphorous. Journal of Water Process Engineering, 2018, 25, 138-148.	2.6	68
112	Crude oil removal from aqueous solution using raw and carbonized Xanthoceras sorbifolia shells. Environmental Science and Pollution Research, 2018, 25, 29325-29334.	2.7	9
113	Chloride Ion Adsorption Capacity of Anion Exchange Resin in Cement Mortar. Materials, 2018, 11, 560.	1.3	11
114	Enhanced adsorption of anionic toxic contaminant Congo Red by activated carbon with electropositive amine modification. Chemosphere, 2018, 208, 476-483.	4.2	64
115	Lithium ion sieve synthesized via an improved solid state method and adsorption performance for West Taijinar Salt Lake brine. Chemical Engineering Journal, 2018, 350, 474-483.	6.6	101
116	A novel flake-ball-like magnetic Fe3O4/Î³-MnO2 meso-porous nano-composite: Adsorption of fluorinion and effect of water chemistry. Chemosphere, 2018, 209, 173-181.	4.2	33
117	Electrocoagulation of boron by electrochemically co-precipitated spinel ferrites. Chemical Engineering Journal, 2018, 350, 893-901.	6.6	30
118	Research on adsorption of Cr(â…¥) by Poly-epichlorohydrin-dimethylamine (EPIDMA) modified weakly basic anion exchange resin D301. Ecotoxicology and Environmental Safety, 2018, 161, 467-473.	2.9	46
119	Detection of gear defects using method of wavelet decomposition and cross-correlation - Experiment to develop a feasible detection method. MATEC Web of Conferences, 2018, 159, 02028.	0.1	0
120	Efficient capture of actinides from strong acidic solution by hafnium phosphonate frameworks with excellent acid resistance and radiolytic stability. Chemical Engineering Journal, 2019, 355, 159-169.	6.6	33
121	As(V) sorption by different natural zeolite frameworks modified with Fe, Zr and FeZr. Microporous and Mesoporous Materials, 2019, 273, 133-141.	2.2	40
122	Solvent-Free Synthesis of Phosphonic Graphene Derivative and Its Application in Mercury Ions Adsorption. Nanomaterials, 2019, 9, 485.	1.9	5
123	Amorphous Molybdenum Selenide Nanosheet as an Efficient Trap for the Permanent Sequestration of Vaporâ€Phase Elemental Mercury. Advanced Science, 2019, 6, 1901410.	5.6	57
124	Design and synthesis of organic rectorite-based composite nanofiber membrane with enhanced adsorption performance for bisphenol A. Environmental Science and Pollution Research, 2019, 26, 28860-28870.	2.7	6
125	Use of zeolites for macronutrients removal from wastewater. Acta Chimica Slovaca, 2019, 12, 150-161.	0.5	3
126	Removal of toxic chemical ethidium monoazide bromide using graphene oxide: Thermodynamic and kinetics study. Journal of Molecular Liquids, 2019, 293, 111484.	2.3	13
127	Economic and Efficient phosphonic functional groups mesoporous silica for uranium selective adsorption from aqueous solutions. Scientific Reports, 2019, 9, 9686.	1.6	24

#	Article	IF	Citations
128	Effective adsorption of heavy metal ions by sodium lignosulfonate reformed montmorillonite. International Journal of Biological Macromolecules, 2019, 138, 188-197.	3.6	63
129	Effects of biodegradable chelator combination on potentially toxic metals leaching efficiency in agricultural soils. Ecotoxicology and Environmental Safety, 2019, 182, 109399.	2.9	42
130	Folic acid-conjugated magnetic ordered mesoporous carbon nanospheres for doxorubicin targeting delivery. Materials Science and Engineering C, 2019, 104, 109939.	3.8	30
131	Synthesis of Polyporous Ion-Sieve and Its Application for Selective Recovery of Lithium from Geothermal Water. ACS Applied Materials & Interfaces, 2019, 11, 26364-26372.	4.0	66
132	Highly Efficient and Stable Removal of Arsenic by Live Cell Fabricated Magnetic Nanoparticles. International Journal of Molecular Sciences, 2019, 20, 3566.	1.8	8
133	Submicron fibers as a morphological improvement of amorphous zirconium oxide particles and their utilization in antimonate (Sb(v)) removal. RSC Advances, 2019, 9, 22355-22365.	1.7	7
134	Meso/micropore-controlled hierarchical porous carbon derived from activated biochar as a high-performance adsorbent for copper removal. Science of the Total Environment, 2019, 692, 844-853.	3.9	81
135	Crushed Autoclaved Aerated Concrete (CAAC), a Potential Reactive Filter Medium for Enhancing Phosphorus Removal in Nature-Based Solutionsâ€"Preliminary Batch Studies. Water (Switzerland), 2019, 11, 1442.	1.2	9
136	Iron-doped chitosan microsphere for As(III) adsorption in aqueous solution: Kinetic, isotherm and thermodynamic studies. Korean Journal of Chemical Engineering, 2019, 36, 1102-1114.	1.2	22
137	Preparation of a poly(acrylic acid) based hydrogel with fast adsorption rate and high adsorption capacity for the removal of cationic dyes. RSC Advances, 2019, 9, 21075-21085.	1.7	70
138	A modification of the Langmuir rate equation for diffusion-controlled adsorption kinetics. Reaction Kinetics, Mechanisms and Catalysis, 2019, 128, 571-586.	0.8	18
139	Lignocellulose@ Activated Clay Nanocomposite with Hierarchical Nanostructure Enhancing the Removal of Aqueous Zn(II). Polymers, 2019, 11, 1710.	2.0	5
140	Equilibrium and Kinetic Study of Ammonium Sorption by Raphia farinifera. Water, Air, and Soil Pollution, 2019, 230, 1.	1.1	5
141	Effects of mono-dentate and bi-dentate ligands on adsorption characteristics of Cu-ion-imprinted hybrids. Research on Chemical Intermediates, 2019, 45, 6043-6059.	1.3	1
142	Polymorphisms in oxidative stress pathway genes and prostate cancer risk. Cancer Causes and Control, 2019, 30, 1365-1375.	0.8	11
143	The efficient removal of methylene blue from water samples using three-dimensional poly (vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 1 Research, 2019, 26, 35071-35081.	2.7	54
144	Simple Methods for the Determination of Adsorption Rate and Equilibrium Parameters in the Recovery of Acetic Acid Using GAC and Synthetic Resins. Journal of Chemical & Engineering Data, 2019, 64, 5705-5715.	1.0	5
145	Mechanism Study of the Formation of Indigo Carmineâ€"Aluminum Hydroxide Lake for Food Use. Journal of Food Science, 2019, 84, 3129-3139.	1.5	3

#	Article	IF	Citations
146	Biochars preparation from waste sludge and composts under different carbonization conditions and their Pb(II) adsorption behaviors. Water Science and Technology, 2019, 80, 1063-1075.	1.2	9
147	A high-strength polyvinyl alcohol hydrogel membrane crosslinked by sulfosuccinic acid for strontium removal via filtration. Journal of Environmental Chemical Engineering, 2019, 7, 102824.	3.3	33
148	Direct bromination of nano hydroxyapatite strategy towards particle brushes via surface-initiated ATRP for highly efficient heavy metal removal. Polymer, 2019, 183, 121883.	1.8	13
149	Kinetic Rate Constants of Gold Nanoparticle Deposition on Silicon. Langmuir, 2019, 35, 14258-14265.	1.6	4
150	Ytterbium Doped TiO₂ Nanofibers on Activated Carbon Fibers Enhances Adsorption and Photocatalytic Activities for Toluene Removal. ChemistrySelect, 2019, 4, 9222-9231.	0.7	7
151	Graphene modified Cu-BTC with high stability in water and controllable selective adsorption of various gases. Journal of Alloys and Compounds, 2019, 808, 151721.	2.8	31
152	Synthesis of sulphonic acid functionalized magnetic mesoporous silica for Cu(II) and Co(II) adsorption. Microchemical Journal, 2019, 151, 104194.	2.3	9
153	Amino-rich polymer-coated Feâ€“Fe2O3 nanoparticles with high adsorption capacity and rapid magnetic separation for anionic dye removal. SN Applied Sciences, 2019, 1, 1.	1.5	2
154	Graphene Oxide Nanocomposite Hydrogel Beads for Removal of Selenium in Contaminated Water. ACS Applied Polymer Materials, 2019, 1, 2668-2679.	2.0	45
155	Preparation and neutralization of forcespun chitosan nanofibers from shrimp shell waste and study on its uranium adsorption in aqueous media. Reactive and Functional Polymers, 2019, 143, 104335.	2.0	21
156	Adsorption of crystal violet dye by a zeolite-montmorillonite nano-adsorbent: modelling, kinetic and equilibrium studies. Clay Minerals, 2019, 54, 357-368.	0.2	28
157	Adsorption-desorption characteristic of thermo-magneto-responsive poly(N-isopropylacrylamide)-co-acrylic acid composite hydrogel towards chromium (III) ions. Journal of Water Process Engineering, 2019, 32, 100957.	2.6	15
158	Hydrothermal conversion of bamboo shoot shell to biochar: Preliminary studies of adsorption equilibrium and kinetics for rhodamine B removal. Journal of Analytical and Applied Pyrolysis, 2019, 143, 104694.	2.6	107
159	Removal of crystal violet dye by an efficient and low cost adsorbent: Modeling, kinetic, equilibrium and thermodynamic studies. Korean Journal of Chemical Engineering, 2019, 36, 1575-1586.	1.2	62
160	Two-fold 2D + 2D â† 2D interweaved rhombus (4,4) grid: synthesis, structure, and dye removal properties in darkness and in daylight. Dalton Transactions, 2019, 48, 1095-1107.	1.6	6
162	Arsenate and arsenite removal from contaminated water by iron oxides nanoparticles formed inside a bacterial exopolysaccharide. Journal of Environmental Chemical Engineering, 2019, 7, 102908.	3.3	29
163	Kinetics of neptunium sorption and desorption in the presence of aluminum (hydr)oxide minerals: Evidence for multi-step desorption at low pH. Journal of Environmental Radioactivity, 2019, 205-206, 72-78.	0.9	4
164	Mechanism and Kinetic Analysis of Degradation of Atrazine by US/PMS. International Journal of Environmental Research and Public Health, 2019, 16, 1781.	1.2	13

#	Article	IF	Citations
165	Polyethyleneimine modified activated carbon for adsorption of Cd(II) in aqueous solution. Journal of Environmental Chemical Engineering, 2019, 7, 103183.	3.3	70
166	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
167	Sequential process of coagulation/flocculation/sedimentation- adsorption - microfiltration for laundry effluent treatment. Journal of Environmental Chemical Engineering, 2019, 7, 103226.	3.3	21
168	Coreâ€“Shell Structured Magnetic Covalent Organic Framework Nanocomposites for Triclosan and Triclocarban Adsorption. ACS Applied Materials & Interfaces, 2019, 11, 22492-22500.	4.0	110
169	Kinetics and Thermodynamics of Efficient Phosphorus Removal by a Composite Fiber. Applied Sciences (Switzerland), 2019, 9, 2220.	1.3	18
170	Revealing the effect of preparation parameters on zeolite adsorption performance for low and medium concentrations of ammonium. Journal of Environmental Sciences, 2019, 85, 177-188.	3.2	23
171	Effect of silica modulus on the geopolymerization activity of natural pozzolans. Construction and Building Materials, 2019, 219, 31-43.	3.2	47
172	Preparation of polydopamine-modified zeolitic imidazolate framework-8 functionalized electrospun fibers for efficient removal of tetracycline. Journal of Colloid and Interface Science, 2019, 552, 506-516.	5.0	72
173	A general kinetic model for adsorption: Theoretical analysis and modeling. Journal of Molecular Liquids, 2019, 288, 111100.	2.3	296
174	The preparation of thin-walled multi-cavities Î²-cyclodextrin polymer and its static and dynamic properties for dyes removal. Journal of Environmental Management, 2019, 245, 105-113.	3.8	14
175	A self-regenerating clay-polymer-bacteria composite for formaldehyde removal from water. Chemical Engineering Journal, 2019, 374, 1275-1285.	6.6	36
176	Partitioning of chemical contaminants to microplastics: Sorption mechanisms, environmental distribution and effects on toxicity and bioaccumulation. Environmental Pollution, 2019, 252, 1246-1256.	3.7	296
177	Monitoring the kinetics of reactions between natural organic matter and Al(III) ions using differential absorbance spectra. Chemosphere, 2019, 235, 220-226.	4.2	12
178	Antimonate adsorption onto Mg-Fe layered double hydroxides in aqueous solutions at different pH values: Coupling surface complexation modeling with solid-state analyses. Chemosphere, 2019, 229, 236-246.	4.2	23
179	An improved regression method for kinetics of adsorption from aqueous solutions. Journal of Water Process Engineering, 2019, 31, 100840.	2.6	9
180	Rapid and enhanced recovery of poly-dispersed nonionic surfactant (TX-100) from organic mediums using dehydrated and rehydrated kaolin. Applied Clay Science, 2019, 177, 43-50.	2.6	3
181	Efficient adsorption of Mn(II) by layered double hydroxides intercalated with diethylenetriaminepentaacetic acid and the mechanistic study. Journal of Environmental Sciences, 2019, 85, 56-65.	3.2	23
182	Noble surface molecularly imprinted polymer modified titanium dioxide toward solanesol adsorption selectivity study. Journal of Materials Research, 2019, 34, 3271-3287.	1.2	4

#	Article	IF	Citations
183	Hylocereus polyrhizus peel's high-methoxyl pectin: A potential source of hypolipidemic agent. International Journal of Biological Macromolecules, 2019, 134, 361-367.	3.6	19
184	Particle Size- and Crystallinity-Controlled Phosphorus Release from Biochars. Energy & Fuels, 2019, 33, 5343-5351.	2.5	13
185	Kinetics and Thermodynamics of Uranium (VI) Adsorption onto Humic Acid Derived from Leonardite. International Journal of Environmental Research and Public Health, 2019, 16, 1552.	1.2	10
186	Enhanced adsorption and slow release of phosphate by dolomiteâ€“alginate composite beads as potential fertilizer. Water Environment Research, 2019, 91, 797-804.	1.3	25
187	Kinetics and capacity of phosphorus extraction from solid residues obtained from wet air oxidation of sewage sludge. Waste Management, 2019, 89, 275-283.	3.7	13
188	Batch and Continuous Systems for Zn, Cu, and Pb Metal Ions Adsorption on Spent Mushroom Compost Biochar. Industrial & Engineering Chemistry Research, 2019, 58, 7296-7307.	1.8	43
189	A Core-Shell Spherical Silica Molecularly Imprinted Polymer for Efficient Selective Recognition and Adsorption of Dichlorophen. Fibers and Polymers, 2019, 20, 459-465.	1.1	11
190	Preparation of PVA/PAA nanofibers containing thiol-modified silica particles by electrospinning as an eco-friendly Cu (II) adsorbent. Journal of Industrial and Engineering Chemistry, 2019, 77, 273-279.	2.9	37
191	A new approach to obtain mesoporous-activated carbon via hydrothermal carbonization of Brazilian Cerrado biomass combined with physical activation for bisphenol-A removal. Chemical Engineering Communications, 2019, 206, 1498-1514.	1.5	21
192	Removal of emulsified and dissolved diesel oil from high salinity wastewater by adsorption onto graphene oxide. Journal of Environmental Chemical Engineering, 2019, 7, 103106.	3.3	55
193	Use of a floating adsorbent to remove dyes from water: A novel efficient surface separation method. Journal of Hazardous Materials, 2019, 375, 138-148.	6.5	55
194	Adsorption of organic micropollutants onto biochar: a review of relevant kinetics, mechanisms and equilibrium. Environmental Science: Water Research and Technology, 2019, 5, 821-838.	1.2	164
195	Green conversion of crop residues into porous carbons and their application to efficiently remove polycyclic aromatic hydrocarbons from water: Sorption kinetics, isotherms and mechanism. Bioresource Technology, 2019, 284, 1-8.	4.8	83
196	The effects of interaction between vermiculite and manganese dioxide on the environmental geochemical process of thallium. Science of the Total Environment, 2019, 669, 903-910.	3.9	32
197	High-Level Extraction of Recyclable Nanocatalysts by Using Polyphosphazene Microparticles. Langmuir, 2019, 35, 5168-5175.	1.6	8
198	Facile preparation of amidoxime-functionalized Fe₃O₄@SiO₂-g-PAMAM-AO magnetic composites for enhanced adsorption of Pb(<scp>ii</scp>) and Ni(<scp>ii</scp>) from aqueous solution. RSC Advances, 2019, 9, 9171-9179.	1.7	14
199	Polysaccharide-based adsorbents prepared in ionic liquid with high performance for removing Pb(II) from aqueous systems. Carbohydrate Polymers, 2019, 215, 272-279.	5.1	29
200	Modelling insulin adsorption in intravenous infusion sets in the intensive care unit. IFAC Journal of Systems and Control, 2019, 8, 100042.	1.1	5

#	Article	IF	Citations
201	A co-delivery platform based on plasmid DNA peptide-surfactant complexes: formation, characterization and release behavior. Colloids and Surfaces B: Biointerfaces, 2019, 178, 430-438.	2.5	19
202	Quantitative analysis of ammonia adsorption in Ag/AgI-coated hollow waveguide by mid-infrared laser absorption spectroscopy. Optics and Lasers in Engineering, 2019, 121, 80-86.	2.0	17
203	Adsorption of cadmium and lead in wastewater by four kinds of biomass xanthates. Water Science and Technology, 2019, 79, 1222-1230.	1.2	8
204	Chitosan-iron oxide hybrid composite: mechanism of hexavalent chromium removal by central composite design and theoretical calculations. Environmental Science and Pollution Research, 2019, 26, 15973-15988.	2.7	10
205	Coadsorption of tetracycline and copper(II) onto struvite loaded zeolite â€“ An environmentally friendly product recovered from swine biogas slurry. Chemical Engineering Journal, 2019, 371, 366-377.	6.6	70
206	Cadmium binding mechanisms and adsorption capacity by novel phosphorus/magnesium-engineered biochars. Science of the Total Environment, 2019, 671, 1134-1143.	3.9	67
207	Experimental and simulation results of the adsorption of Mo and V onto ferrihydrite. Scientific Reports, 2019, 9, 1365.	1.6	21
208	Comprehensive analysis on sorptive uptake of enrofloxacin by activated carbon derived from industrial paper sludge. Science of the Total Environment, 2019, 665, 438-452.	3.9	69
209	Biosorption of uranium and cadmium using sorbents based on Aloe vera wastes. Journal of Environmental Chemical Engineering, 2019, 7, 102985.	3.3	60
210	Efficient preparation and molecular dynamic (MD) simulations of Gemini surfactant modified layered montmorillonite to potentially remove emerging organic contaminants from wastewater. Ceramics International, 2019, 45, 10782-10791.	2.3	30
211	Antifouling Properties of Dendritic Polyglycerols against Marine Macrofouling Organisms. Langmuir, 2019, 35, 16568-16575.	1.6	23
212	Hydrothermal Synthesize of HF-Free MIL-100(Fe) for Isoniazid-Drug Delivery. Scientific Reports, 2019, 9, 16907.	1.6	77
213	Kinetics, isotherm, thermodynamic and bioperformance of defluoridation of water using praseodymium-modified chitosan. Journal of Environmental Chemical Engineering, 2019, 7, 103498.	3.3	13
214	Separation of Cytidine 5â€²-Monophosphate and Guanosine 5â€²-Monophosphate Based on the Hyper-Cross-Linked Resin XDA-1 with pH Gradient Elution. Industrial & Engineering Chemistry Research, 2019, 58, 22811-22819.	1.8	5
215	Enhancing the adsorption capability of areca leaf biochar for methylene blue by K₂FeO₄-catalyzed oxidative pyrolysis at low temperature. RSC Advances, 2019, 9, 42343-42350.	1.7	12
216	Tinospora cordifolia derived biomass functionalized ZnO particles for effective removal of lead(ii), iron(iii), phosphate and arsenic(iii) from water. RSC Advances, 2019, 9, 34102-34113.	1.7	5
217	Stability and stabilizing efficiency of Mg-Fe layered double hydroxides and mixed oxides in aqueous solutions and soils with elevated As(V), Pb(II) and Zn(II) contents. Science of the Total Environment, 2019, 648, 1511-1519.	3.9	37
218	Fabrication of tetraethylenepentamine functionalized alginate beads for adsorptive removal of Cr (VI) from aqueous solutions. International Journal of Biological Macromolecules, 2019, 125, 1221-1231.	3.6	70

#	Article	IF	Citations
219	Arsenate adsorption on iron-impregnated ordered mesoporous carbon: Fast kinetics and mass transfer evaluation. Chemical Engineering Journal, 2019, 357, 463-472.	6.6	27
220	Variable diffusivity homogeneous surface diffusion model and analysis of merits and fallacies of simplified adsorption kinetics equations. Journal of Hazardous Materials, 2019, 367, 224-245.	6.5	82
221	Hierarchically porous poly(ethylenimine) modified poly(styrene-co-divinylbenzene) microspheres for the adsorption of gold nanoparticles and simultaneously being transformed as the nanoparticles immobilized catalyst. Journal of Hazardous Materials, 2019, 366, 529-537.	6.5	30
222	Kinetics and isotherm modeling of phenol adsorption by immobilizable activated carbon. Reaction Kinetics, Mechanisms and Catalysis, 2019, 126, 61-82.	0.8	17
223	Synthesis of cerium oxide (IV) hollow nanospheres with tunable structure and their performance in the 4-nitrophenol adsorption. Microporous and Mesoporous Materials, 2019, 278, 241-250.	2.2	23
224	Removal of S-metolachlor herbicide from aqueous solutions by meso and microporous organosilica materials. Microporous and Mesoporous Materials, 2019, 278, 35-43.	2.2	12
225	Enhancement of heavy metal ion adsorption using electrospun polyacrylonitrile nanofibers loaded with ZnO nanoparticles. Journal of Applied Polymer Science, 2019, 136, 47209.	1.3	45
226	Lead removal from aqueous solution by means of integral natural clays honeycomb monoliths. Journal of Hazardous Materials, 2019, 365, 519-530.	6.5	41
227	Hierarchical Fe 3 O 4 â€derived organic/inorganic hybrids constructed by modified bioâ€inspired functionalization: efficient adsorbents for waterâ€soluble methylene blue and mechanism. Journal of Chemical Technology and Biotechnology, 2019, 94, 1638-1650.	1.6	10
228	Adsorption of phosphorus by using magnetic Mgâ€“Al-, Znâ€“Al- and Mgâ€“Fe-layered double hydroxides: comparison studies and adsorption mechanism. Environmental Science and Pollution Research, 2019, 26, 7102-7114.	2.7	47
229	Silk Fibroin/Orange Peel Foam: An Efficient Biocomposite for Water Remediation. Advanced Sustainable Systems, 2019, 3, 1800097.	2.7	22
230	Biosorption-a green method for the preconcentration of rare earth elements (REEs) from waste solutions: A review. Journal of Molecular Liquids, 2019, 274, 148-164.	2.3	125
231	Synergistic adsorption of Cu(II) and photocatalytic degradation of phenanthrene by a jaboticaba-like TiO2/titanate nanotube composite: An experimental and theoretical study. Chemical Engineering Journal, 2019, 358, 1155-1165.	6.6	97
232	Moving Beyond Adsorption Capacity in Design of Adsorbents for CO₂ Capture from Ultradilute Feeds: Kinetics of CO₂ Adsorption in Materials with Stepped Isotherms. Industrial & Engineering Chemistry Research, 2019, 58, 366-377.	1.8	47
233	Equilibrium and kinetic studies of caffeine adsorption from aqueous solutions on thermally modified Verde-lodo bentonite. Applied Clay Science, 2019, 168, 366-373.	2.6	50
234	Selective Removal of Uranium from Rare Earth Leachates via Magnetic Solid-Phase Extraction Using Schiff Base Ligands. Industrial & Engineering Chemistry Research, 2019, 58, 306-315.	1.8	9
235	Novel alginate/polyethyleneimine hydrogel adsorbent for cascaded removal and utilization of Cu2+ and Pb2+ ions. Journal of Environmental Management, 2019, 232, 829-841.	3.8	109
236	Ion-exchange for trihalomethane control in potable water treatment â€“ a municipal water treatment case study in Rainy River, Ontario, Canada. Water Quality Research Journal of Canada, 2019, 54, 142-160.	1.2	4

#	Article	IF	Citations
237	Integrated adsorption and photocatalytic degradation of volatile organic compounds (VOCs) using carbon-based nanocomposites: A critical review. Chemosphere, 2019, 218, 845-859.	4.2	299
238	Treatment of 17Î±â€ethinylestradiol, 4â€nonylphenol, and carbamazepine in wastewater using an aerobic granular sludge sequencing batch reactor. Science of the Total Environment, 2019, 652, 1270-1278.	3.9	46
239	Synthesis and adsorption characteristics of grafted hydrazinyl amine magnetite-chitosan for Ni(II) and Pb(II) recovery. Chemical Engineering Journal, 2019, 362, 310-324.	6.6	97
240	Synthesis of poly(amidoamine) dendrimer-based dithiocarbamate magnetic composite for the adsorption of Co2+ from aqueous solution. Journal of Materials Science: Materials in Electronics, 2019, 30, 1161-1174.	1.1	10
241	Double affinity integrated MIPs nanoparticles for specific separation of glycoproteins: A combination of synergistic multiple bindings and imprinting effect. Chemical Engineering Journal, 2019, 358, 143-152.	6.6	69
242	Dyeing property of fluorescent pigment latex on cationic knitted cotton fabrics. Textile Reseach Journal, 2019, 89, 422-433.	1.1	14
243	Evaluation of natural goethite on the removal of arsenate and selenite from water. Journal of Environmental Sciences, 2019, 76, 133-141.	3.2	42
244	Preparation of electrodes for hybrid capacitive deionization and its influence on the adsorption behaviour. Separation Science and Technology, 2020, 55, 2238-2249.	1.3	10
245	Preparation of high purity squalene from soybean oil deodorizer distillate with the combination of macroporous resin and thin-film evaporation coupling distillation. Separation Science and Technology, 2020, 55, 1611-1622.	1.3	1
246	Removal of methyl orange dye using activated biochar derived from pomelo peel wastes: performance, isotherm, and kinetic studies. Journal of Dispersion Science and Technology, 2020, 41, 125-136.	1.3	67
247	Effects of conductive carbon materials on dry anaerobic digestion of sewage sludge: Process and mechanism. Journal of Hazardous Materials, 2020, 384, 121339.	6.5	36
248	Enhanced HCl removal from CO2-rich mixture gases by CuOx/Na2CO3 porous sorbent at low temperature: Kinetics and forecasting. Chemical Engineering Journal, 2020, 381, 122738.	6.6	15
249	Iodide ion trapping polypyrrole film: Selective capture of iodide ions by electrochemically switched ion extraction (ESIE) process. Chemical Engineering Journal, 2020, 380, 122529.	6.6	26
250	Functioned hollow glass microsphere as a self-floating adsorbent: Rapid and high-efficient removal of anionic dye. Journal of Hazardous Materials, 2020, 381, 120971.	6.5	61
251	Effect of heavy metals in mixed domestic-industrial wastewater on performance of recirculating standing hybrid constructed wetlands (RSHCWs) and their removal. Chemical Engineering Journal, 2020, 379, 122363.	6.6	54
252	Selenium removal by activated alumina in batch and continuousâ€flow reactors. Water Environment Research, 2020, 92, 51-59.	1.3	11
253	Preparation of poly(4-vinylpyridine)-functionalized magnetic Al-MOF for the removal of naproxen from aqueous solution. Journal of Hazardous Materials, 2020, 383, 121144.	6.5	84
254	Adsorption of uranium from its aqueous solutions using activated cellulose and silica grafted cellulose. Radiochimica Acta, 2020, 108, 261-271.	0.5	15

#	Article	IF	Citations
255	Magnetic biochar derived from sewage sludge of concentrated natural rubber latex (CNRL) for the removal of Al3+ and Cu2+ ions from wastewater. Research on Chemical Intermediates, 2020, 46, 385-407.	1.3	20
256	Supported ionic liquids as efficient materials to remove non-steroidal anti-inflammatory drugs from aqueous media. Chemical Engineering Journal, 2020, 381, 122616.	6.6	40
257	Adsorption kinetics at solid/aqueous solution interfaces: On the boundaries of the pseudo-second order rate equation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 585, 124093.	2.3	35
258	Adsorption and biodegradation of sulfamethoxazole and ofloxacin on zeolite: Influence of particle diameter and redox potential. Chemical Engineering Journal, 2020, 384, 123346.	6.6	59
259	Hydrolyzed polyacrylamide modified diatomite waste as a novel adsorbent for organic dye removal: Adsorption performance and mechanism studies. Polyhedron, 2020, 175, 114227.	1.0	38
260	Characteristically Insights, Artificial Neural Network (ANN), Equilibrium, and Kinetic Studies of Pb(II) Ion Adsorption on Rice Husks Treated with Nitric Acid. International Journal of Environmental Research, 2020, 14, 43-60.	1.1	21
261	Molecular dynamic simulation and DFT computational studies on the adsorption performances of methylene blue in aqueous solutions by orange peel-modified phosphoric acid. Journal of Molecular Structure, 2020, 1202, 127290.	1.8	77
262	Porphyrin-based porous organic polymer, Py-POP, as a multifunctional platform for efficient selective adsorption and photocatalytic degradation of cationic dyes. Microporous and Mesoporous Materials, 2020, 292, 109774.	2.2	84
263	Sb(III) removal from aqueous solution by a novel nano-modified chitosan (NMCS). Separation and Purification Technology, 2020, 236, 116266.	3.9	54
264	Cesium ion-exchange resin using sodium dodecylbenzenesulfonate for binding to Prussian blue. Chemosphere, 2020, 244, 125589.	4.2	22
265	Magnetic assisted separation of uranium(VI) from aqueous phase using diethylenetriamine modified high capacity iron oxide adsorbent. Journal of Environmental Chemical Engineering, 2020, 8, 103661.	3.3	19
266	A porous composite monolith sorbent of polyaniline, multiwall carbon nanotubes and chitosan cryogel for aromatic compounds extraction. Microchemical Journal, 2020, 154, 104562.	2.3	20
267	Co-monomer polymer anion exchange resin for removing Cr(VI) contaminants: Adsorption kinetics, mechanism and performance. Science of the Total Environment, 2020, 709, 136002.	3.9	56
268	Effective removal of two fluoroquinolone antibiotics by PEG-4000 stabilized nanoscale zero-valent iron supported onto zeolite (PZ-NZVI). Science of the Total Environment, 2020, 710, 136289.	3.9	61
269	Nacre-inspired hydroxyapatite/chitosan layered composites effectively remove lead ions in continuous-flow wastewater. Journal of Hazardous Materials, 2020, 386, 121999.	6.5	34
270	Letter to the Editor: Comments on â€œAdsorption of methylene blue and Cd(II) onto maleylated modified hydrochar from waterâ€• Environmental Pollution, 2020, 261, 113824.	3.7	5
271	Enhanced Heavy Metal Removal from Acid Mine Drainage Wastewater Using Double-Oxidized Multiwalled Carbon Nanotubes. Molecules, 2020, 25, 111.	1.7	49
272	Removal of Rhodamine 6G in the absence of UV radiation using ceria nanoparticles (CeO2-NPs). Journal of Environmental Chemical Engineering, 2020, 8, 103518.	3.3	10

#	Article	IF	Citations
273	Mechanism study about the adsorption of Pb(II) and Cd(II) with iron-trimesic metal-organic frameworks. Chemical Engineering Journal, 2020, 385, 123507.	6.6	108
274	Evaluating the adsorptivity of organo-functionalized silica nanoparticles towards heavy metals: Quantitative comparison and mechanistic insight. Journal of Hazardous Materials, 2020, 387, 121676.	6.5	111
275	Simultaneous removal of SO2 and NOx by catalytic adsorption using Î³-Al2O3 under the irradiation of non-thermal plasma: Competitiveness, kinetic, and equilibrium. Chemical Engineering Journal, 2020, 384, 123334.	6.6	24
276	Se(VI) sorption from aqueous solution using alginate/polyethylenimine membranes: Sorption performance and mechanism. International Journal of Biological Macromolecules, 2020, 147, 832-843.	3.6	9
277	Fabrication of sustainable manganese ferrite modified biochar from vinasse for enhanced adsorption of fluoroquinolone antibiotics: Effects and mechanisms. Science of the Total Environment, 2020, 709, 136079.	3.9	187
278	Zeolitic imidazolate framework-67 functionalized cellulose hybrid aerogel: an environmentally friendly candidate for dye removal. Cellulose, 2020, 27, 2161-2172.	2.4	58
279	Fabrication of efficient alginate composite beads embedded with N-doped carbon dots and their application for enhanced rare earth elements adsorption from aqueous solutions. Journal of Colloid and Interface Science, 2020, 562, 224-234.	5.0	43
280	Comments on â€œAqueous-phase methylene blue (MB) dye removal by mixture of eucalyptus bark (EB) biomass and kaolin clay (KC) adsorbents: Kinetics, thermodynamics, and isotherm modelingâ€• Separation Science and Technology, 2020, 55, 823-824.	1.3	2
281	Optimal catalyst particle design for flexible fixed-bed CO2 methanation reactors. Chemical Engineering Journal, 2020, 387, 123704.	6.6	56
282	Derivation of Pseudo-First-Order, Pseudo-Second-Order and Modified Pseudo-First-Order rate equations from Langmuir and Freundlich isotherms for adsorption. Chemical Engineering Journal, 2020, 392, 123705.	6.6	239
283	Comparison of adsorption behavior studies of Cd2+ by vermicompost biochar and KMnO4-modified vermicompost biochar. Journal of Environmental Management, 2020, 256, 109959.	3.8	60
284	Adsorption properties and mechanisms of novel biomaterials from banyan aerial roots via simple modification for ciprofloxacin removal. Science of the Total Environment, 2020, 708, 134630.	3.9	59
285	Functionalized carbon nanotubes for hydrocarbon removal from water. Journal of Environmental Chemical Engineering, 2020, 8, 103570.	3.3	30
286	Preparation and evaluation of hydrocalumite-iron oxide magnetic intercalated with dodecyl sulfate for removal of agrichemicals. Journal of Environmental Management, 2020, 255, 109845.	3.8	18
287	Novel ionic liquid-modified polymers for highly effective adsorption of heavy metals ions. Separation and Purification Technology, 2020, 236, 116313.	3.9	42
288	Silver nanoparticles adsorption by the synthetic and natural adsorbent materials: an exclusive review. Nanotechnology for Environmental Engineering, 2020, 5, 1.	2.0	30
289	Cu(II) and As(V) Adsorption Kinetic Characteristic of the Multifunctional Amino Groups in Chitosan. Processes, 2020, 8, 1194.	1.3	47
290	Pivotal effects of external Fe2+ on remediation of arsenite by zero-valent iron/persulfate: Efficiencies and mechanism. Environmental Research, 2020, 189, 109922.	3.7	3

#	Article	IF	Citations
291	Removal of cadmium from aqueous solution using sonochemically modified clinoptilolite: Optimization and modeling. Environmental Technology and Innovation, 2020, 20, 101166.	3.0	11
292	Recovery of gold(III) and iridium(IV) using magnetic layered double hydroxide (Fe3O4/Mg-Al-LDH) nanocomposite: Equilibrium studies and application to real samples. Hydrometallurgy, 2020, 197, 105447.	1.8	27
293	A review of hexavalent chromium removal from aqueous solutions by sorption technique using nanomaterials. Journal of Environmental Chemical Engineering, 2020, 8, 104503.	3.3	94
294	The removal of nickel and lead ions from aqueous solutions using green synthesized silica microparticles. Heliyon, 2020, 6, e04907.	1.4	42
295	Adsorption of ciprofloxacin onto thermally modified bentonite clay: Experimental design, characterization, and adsorbent regeneration. Journal of Environmental Chemical Engineering, 2020, 8, 104553.	3.3	85
296	Methodology of isotherm generation: Multicomponent K+ and H+ ion exchange with strong acid cation resin. Separation and Purification Technology, 2020, 251, 117360.	3.9	15
297	Progress in the removal of pharmaceutical compounds from aqueous solution using layered double hydroxides as adsorbents: A review. Journal of Environmental Chemical Engineering, 2020, 8, 104577.	3.3	25
298	Facile preparation of novel COFs functionalized magnetic core-shell structured nanocomposites and used for rapid detection of trace polycyclic aromatic hydrocarbons in food. Microchemical Journal, 2020, 159, 105460.	2.3	16
299	Reduction of Nitrogen Load in a Zootechnical Wastewater Using a Natural Chabazite Zeolite: An Investigation on Sorption Mechanisms. Environmental Sciences Proceedings, 2020, 2, .	0.3	0
300	An ecofriendly nanocomposite of bacterial cellulose and hydroxyapatite efficiently removes lead from water. International Journal of Biological Macromolecules, 2020, 165, 2711-2720.	3.6	26
301	Complexation of lead and cadmium ions with humic acids from arctic peat soils. Environmental Research, 2020, 191, 110058.	3.7	16
302	Synthesis and characterisation of CdO nanoparticles: An efficient nanomaterial for the removal of Rhodamine B. Materials Today: Proceedings, 2020, 48, 343-343.	0.9	4
303	Removal of Sulfadiazine Using 3D Interconnected Petal-Like Magnetic Reduced Graphene Oxide (MrGO) Nanocomposites. Water (Switzerland), 2020, 12, 1933.	1.2	10
304	High n-Hexane Adsorption Capacity of Composite Adsorbents Based on MOFs and Graphene with Various Morphologies. Industrial & Engineering Chemistry Research, 2020, 59, 13744-13754.	1.8	7
305	Enhanced simultaneous adsorption of Cd(II) and Pb(II) on octylamine functionalized vermiculite. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 604, 125285.	2.3	29
306	Use of iron mining tailings from dams for carbon nanotubes synthesis in fluidized bed for 17Î±-ethinylestradiol removal. Environmental Pollution, 2020, 260, 114099.	3.7	20
307	Adsorption of triclosan onto different aged polypropylene microplastics: Critical effect of cations. Science of the Total Environment, 2020, 717, 137033.	3.9	112
308	Geopolymers produced with fly ash and rice husk ash applied to CO2 capture. Journal of Cleaner Production, 2020, 273, 122917.	4.6	57

#	Article	IF	Citations
309	Investigation and Possibilities of Reuse of Carbon Dioxide Absorbent Used in Anesthesiology. Materials, 2020, 13, 5052.	1.3	3
310	Synthesis, Characterization, Adsorption Isotherm, and Kinetic Study of Oil Palm Trunk-Derived Activated Carbon for Tannin Removal from Aqueous Solution. ACS Omega, 2020, 5, 28673-28683.	1.6	35
311	Cesium removal from a water system using a polysulfone carrier containing nitric acid-treated bamboo charcoal. Journal of Environmental Radioactivity, 2020, 225, 106374.	0.9	9
312	Development of new biosorbent materials from agricultural waste materials for the removal of Cd(II) ions from aqueous solution through the batch adsorption process. Environmental Quality Management, 2020, 30, 35-46.	1.0	1
313	Encapsulation of Activated Carbon into a Hollow-Type Spherical Bacterial Cellulose Gel and Its Indole-Adsorption Ability Aimed at Kidney Failure Treatment. Pharmaceutics, 2020, 12, 1076.	2.0	5
314	Characterization of sugarcane leaf-biomass and investigation of its efficiency in removing Nickel(II), Chromium(III) and Cobalt(II) ions from polluted water. Surfaces and Interfaces, 2020, 20, 100621.	1.5	14
315	Adsorption of bovine serum albumin on gold nanoprisms: interaction and effect of NIR irradiation on protein corona. Journal of Materials Chemistry B, 2020, 8, 8644-8657.	2.9	16
316	Glycine-functionalized silica as sorbent for cobalt(II) and nickel(II) recovery. Applied Surface Science, 2020, 530, 147299.	3.1	22
317	Phosphorus removal from secondary wastewater effluent using copper smelter slag. Heliyon, 2020, 6, e04134.	1.4	11
318	A thermosensitive molecularly imprinted poly-NIPAM coated MWCNTs/TiO2 photocatalyst for the preferential removal of pendimethalin pesticide from wastewater. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 402, 112802.	2.0	28
319	Combining fluorescence and permeability measurements in a membrane microfluidic device to study protein sorption mechanisms. Journal of Membrane Science, 2020, 614, 118485.	4.1	8
320	The effect of gallic acid interactions with iron-coated clay on surface redox reactivity. Water Research, 2020, 184, 116190.	5.3	22
321	Functionalized carbon nanotubes as a novel inhibitor to enhance the anticorrosion performance of carbon steel in CO2-saturated NaCl solution. Corrosion Science, 2020, 177, 109011.	3.0	30
322	Development of Magnetic Nanocomposites Based on Beta Zeolites and Study of Their Sorption Properties. Petroleum Chemistry, 2020, 60, 957-963.	0.4	2
323	Nanocelluloseâ€“organic montmorillonite nanocomposite adsorbent for diuron removal from aqueous solution: optimization using response surface methodology. RSC Advances, 2020, 10, 30734-30745.	1.7	11
324	Improved Removal Capacity and Equilibrium Time of Maghemite Nanoparticles Growth in Zeolite Type 5A for Pb(II) Adsorption. Nanomaterials, 2020, 10, 1668.	1.9	28
325	Nitrogen-Rich Magnetic Bio-Activated Carbon from Sericin: A Fast Removable and Easily Separable Superadsorbent for Anionic Dye Removal. Macromolecular Research, 2020, 28, 986-996.	1.0	11
326	Adsorption kinetic modeling using pseudo-first order and pseudo-second order rate laws: A review. Cleaner Engineering and Technology, 2020, 1, 100032.	2.1	276

#	Article	IF	Citations
327	Hyper oxygen incorporation in CeF₃: a new intermediate-band photocatalyst for antibiotic degradation under visible/NIR light. RSC Advances, 2020, 10, 38798-38804.	1.7	8
328	Influence of Glyphosate Formulations on the Behavior of Sulfentrazone in Soil in Mixed Applications. Toxics, 2020, 8, 123.	1.6	5
329	PVDF/SiO₂-g-CDs blended membrane for fluorescence detection and adsorption of metal ions. Environmental Technology (United Kingdom), 2022, 43, 1648-1661.	1.2	2
330	Evaluation of two white marbles for the correction of the aggressivity of fresh water of rivers. Scientific African, 2020, 10, e00601.	0.7	1
331	Adsorption of Ag (I) from Aqueous Solutions Using Regenerated Silk Fibroin Adsorbent Beads. Journal of Natural Fibers, 2022, 19, 3365-3377.	1.7	3
332	Magnetic methacrylated gelatin-g-polyelectrolyte for methylene blue sorption. RSC Advances, 2020, 10, 43799-43810.	1.7	10
333	Adsorption of Boron from a Simulated Soil Solution Using Znâ€“Al and Mn-Doped Znâ€“Al Layered Double Hydroxides. Colloid Journal, 2020, 82, 735-745.	0.5	4
334	Polymer-Free Emulsion-Templated Graphene-Based Sponges for Contaminant Removal. ACS Applied Materials & Interfaces, 2020, 12, 52095-52103.	4.0	13
335	Synthesis, characterization and evaluation of carbon nanofiber modified-polymer for ultra-removal of thorium ions from aquatic media. Chemical Engineering Research and Design, 2020, 163, 76-84.	2.7	48
336	Isotherms, Kinetics, and Thermodynamics of NH4+ Adsorption in Raw Liquid Manure by Using Natural Chabazite Zeolite-Rich Tuff. Water (Switzerland), 2020, 12, 2944.	1.2	15
337	Aminophosphonic Acid Functionalized Cellulose Nanofibers for Efficient Extraction of Trace Metal Ions. Polymers, 2020, 12, 2370.	2.0	10
338	Adsorption kinetics models in clay systems. The critical analysis of pseudo-second order mechanism. Applied Clay Science, 2020, 191, 105630.	2.6	64
339	Efficient Cu2+, Pb2+ and Ni2+ ion removal from wastewater using electrospun DTPA-modified chitosan/polyethylene oxide nanofibers. Separation and Purification Technology, 2020, 247, 116914.	3.9	90
340	Synthesis of Copper(II) Trimesinate Coordination Polymer and Its Use as a Sorbent for Organic Dyes and a Precursor for Nanostructured Material. Polymers, 2020, 12, 1024.	2.0	43
341	Supported Ionic Liquids for the Efficient Removal of Acetylsalicylic Acid from Aqueous Solutions. European Journal of Inorganic Chemistry, 2020, 2020, 2380-2389.	1.0	8
342	Characterization of Acid-Aged Biochar and Its Ammonium Adsorption in an Aqueous Solution. Materials, 2020, 13, 2270.	1.3	26
343	Ironmaking and Steelmaking Slags as Sustainable Adsorbents for Industrial Effluents and Wastewater Treatment: A Critical Review of Properties, Performance, Challenges and Opportunities. Sustainability, 2020, 12, 2118.	1.6	38
344	Porous Activated Carbon from Lignocellulosic Agricultural Waste for the Removal of Acetampirid Pesticide from Aqueous Solutions. Molecules, 2020, 25, 2339.	1.7	43

#	Article	IF	Citations
345	Biosorption of Rhodamine B Using a Low-Cost Biosorbent Prepared from Inactivated Aspergillus oryzae Cells: Kinetic, Equilibrium and Thermodynamic Studies. Water, Air, and Soil Pollution, 2020, 231, 1.	1.1	16
346	A review of the emerging ceramic adsorbents for defluoridation of groundwater. Journal of Water Process Engineering, 2020, 36, 101365.	2.6	10
347	Adsorptive removal of crystal violet from aqueous solution by cross-linked chitosan coated bentonite. Materials Today: Proceedings, 2020, 29, 1025-1032.	0.9	30
348	Microcapsules containing task-specific ionic liquids for Zn(II) and Cu(II) recovery from dilute aqueous solutions. Separation and Purification Technology, 2020, 250, 117155.	3.9	11
349	Multifunctional nitrogen-rich aminal-linked luminescent porous organic polymers for iodine enrichment and selective detection of Fe3+ ions. Journal of Materials Science, 2020, 55, 10896-10909.	1.7	15
350	Mathematical modelling of the influence of physico-chemical properties on heavy metal adsorption by biosorbents. Chemosphere, 2020, 255, 126965.	4.2	14
351	Diclofenac sorption from synthetic water: Kinetic and thermodynamic analysis. Journal of Environmental Chemical Engineering, 2020, 8, 104105.	3.3	35
352	Ecofriendly Approach for Treatment of Heavy-Metal-Contaminated Water Using Activated Carbon of Kernel Shell of Oil Palm. Materials, 2020, 13, 2627.	1.3	18
353	Characterization and application of spherical carbonaceous materials prepared with the use of microwave radiation. Diamond and Related Materials, 2020, 108, 107927.	1.8	4
354	Capacitive Organic Dye Removal by Block Copolymer Based Porous Carbon Fibers. Advanced Materials Interfaces, 2020, 7, 2000507.	1.9	11
355	A new prodrug and bioactivity evaluation of methotrexate based on Chitosan. Heliyon, 2020, 6, e04223.	1.4	6
356	Multilayer Alginateâ€“Polycaprolactone Electrospun Membranes as Skin Wound Patches with Drug Delivery Abilities. ACS Applied Materials & Interfaces, 2020, 12, 31162-31171.	4.0	71
357	Adsorptive behavior of free and immobilized Chlorella pyrenoidosa for decolorization. Biomass Conversion and Biorefinery, 2020, , 1.	2.9	6
358	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
359	Macroporous Lithium Adsorbent Monolith Prepared via High Internal Phase Emulsion Technique. ACS Applied Polymer Materials, 2020, 2, 2563-2570.	2.0	14
360	Use of Magnetic Activated Carbon in a Solid Phase Extraction Procedure for Analysis of 2,4-dichlorophenol in Water Samples. Water, Air, and Soil Pollution, 2020, 231, 1.	1.1	33
361	Removal of Cr (VI), As (V), Cu (II), and Pb (II) using cellulose biochar supported iron nanoparticles: A kinetic and mechanistic study. Journal of Environmental Chemical Engineering, 2020, 8, 103886.	3.3	59
362	MoS₄^{2â^'} intercalated NiFeTi LDH as an efficient and selective adsorbent for elimination of heavy metals. RSC Advances, 2020, 10, 19371-19381.	1.7	19

#	Article	IF	Citations
363	Comparison between Allura Red dye discoloration by activated carbon and azo bacteria strain. Environmental Science and Pollution Research, 2020, 27, 29688-29696.	2.7	8
364	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
365	Aqueous phosphorous adsorption onto SnO₂ and WO₃ nanoparticles in batch mode: kinetic, isotherm and thermodynamic study. Journal of Experimental Nanoscience, 2020, 15, 242-265.	1.3	11
366	MOF-based polymeric nanocomposite beads as an efficient adsorbent for wastewater treatment in batch and continuous systems: Modelling and experiment. Chemical Engineering Journal, 2020, 400, 125862.	6.6	84
367	Removal of oil from produced water by ionic flocculation using saponified babassu coconut oil. Journal of Materials Research and Technology, 2020, 9, 4476-4484.	2.6	12
368	In Situ Cascade Derivation toward a Hierarchical Layered Double Hydroxide Magnetic Absorbent for High-Performance Protein Separation. ACS Sustainable Chemistry and Engineering, 2020, 8, 4966-4974.	3.2	37
369	C/W emulsionâ€templated macroporous anionic monolith: Application for dye removal. Journal of Applied Polymer Science, 2020, 137, 49200.	1.3	5
370	Supramolecular adsorption of cyclodextrin/polyvinyl alcohol film for purification of organic wastewater. Journal of Polymer Engineering, 2020, 40, 158-172.	0.6	8
371	Investigation of the surface properties and microstructure of TiO2 sorbents prepared in supercritical CO2 for the treatment of Sr2+ contaminated effluents. SN Applied Sciences, 2020, 2, 1.	1.5	0
372	Selective removal of color substances by carbon-based adsorbents in livestock wastewater effluents. Environmental Geochemistry and Health, 2020, 42, 1643-1653.	1.8	5
373	Activating Bi2O3 by ball milling to induce efficiently oxygen vacancy for incorporating iodide anions to form BiOI. Chemical Physics, 2020, 533, 110739.	0.9	24
374	Hierarchically porous UiO-66 with tunable mesopores and oxygen vacancies for enhanced arsenic removal. Journal of Materials Chemistry A, 2020, 8, 7870-7879.	5.2	132
375	Preparation, characterization and application of activated carbon from corn cob by KOH activation for removal of Hg(II) from aqueous solution. Bioresource Technology, 2020, 306, 123154.	4.8	105
376	Dipyridyl-based organo-silica nanosheets for three emerging micropollutants efficient removal: Adsorption performance and mechanisms. Journal of Cleaner Production, 2020, 260, 121149.	4.6	20
377	A Pseudo-Second Order Kinetic Equation for Sorption Processes. Russian Journal of Physical Chemistry A, 2020, 94, 171-176.	0.1	45
378	Redox potential and uranium sorption onto sediments: kinetic and thermodynamic characteristics. Chemistry and Ecology, 2020, 36, 475-485.	0.6	4
379	PEGylated Thermo-Sensitive Bionic Magnetic Core-Shell Structure Molecularly Imprinted Polymers Based on Halloysite Nanotubes for Specific Adsorption and Separation of Bovine Serum Albumin. Polymers, 2020, 12, 536.	2.0	20
380	A lanthanide MOF immobilized in PMMA transparent films as a selective fluorescence sensor for nitroaromatic explosive vapours. Journal of Materials Chemistry C, 2020, 8, 3626-3630.	2.7	39

#	Article	IF	Citations
381	Adsorption Thermodynamic and Kinetic Studies of Methyl Orange onto Sugar Scum Powder as a Low-Cost Inorganic Adsorbent. Journal of Chemistry, 2020, 2020, 1-10.	0.9	21
382	Incorporation of iron (oxyhydr)oxide nanoparticles with expanded graphite for phosphorus removal and recovery from aqueous solutions. Chemosphere, 2020, 259, 127395.	4.2	11
383	BSA- and Elastin-Coated GO, but Not Collagen-Coated GO, Enhance the Biological Performance of Alginate Hydrogels. Pharmaceutics, 2020, 12, 543.	2.0	5
384	Removal of Arsenic(III) Ion from Aqueous Media Using Complex Nickel-Aluminum and Nickel-Aluminum-Zirconium Hydroxides. Water (Switzerland), 2020, 12, 1697.	1.2	8
385	Effective isolation of antioxidant Phelligridin LA from the fermentation broth of Inonotus baumii by macroporous resin. Bioprocess and Biosystems Engineering, 2020, 43, 2095-2106.	1.7	2
386	Biosorption of tungstate onto garlic peel loaded with Fe(III), Ce(III), and Ti(IV). Environmental Science and Pollution Research, 2020, 27, 33692-33702.	2.7	14
387	A statistical approach to study the valorization process of spent coffee ground. Biomass Conversion and Biorefinery, 2022, 12, 2463-2475.	2.9	3
388	Microbial Methane Oxidation and Gas Adsorption Capacities of Biochar-Modified Soils. International Journal of Geosynthetics and Ground Engineering, 2020, 6, 1.	0.9	10
389	Ofloxacin adsorption by calcined Verde-lodo bentonite clay: Batch and fixed bed system evaluation. Journal of Molecular Liquids, 2020, 315, 113718.	2.3	39
390	Removal of Cu(II) from aqueous solutions imparted by a pectin-based film: Cytocompatibility, antimicrobial, kinetic, and equilibrium studies. International Journal of Biological Macromolecules, 2020, 152, 77-89.	3.6	15
391	Hydrophilic P(Am-CD-AMPS) microgel for visual detection and removal metal ions in aqueous solution. Applied Surface Science, 2020, 512, 145668.	3.1	14
392	Amine functionalized egg albumin hydrogel with enhanced adsorption potential for diclofenac sodium in water. Journal of Hazardous Materials, 2020, 393, 122417.	6.5	73
393	Enhancement the rhodamine 6G adsorption property on Fe₃O₄-composited biochar derived from rice husk. Materials Research Express, 2020, 7, 025511.	0.8	23
394	Porous carbons derived from hydrothermally treated biogas digestate. Waste Management, 2020, 105, 170-179.	3.7	20
395	Selective recovery of lithium from geothermal water by EGDE cross-linked spherical CTS/LMO. Chemical Engineering Journal, 2020, 389, 124410.	6.6	59
396	Zn-Ti-Al layered double hydroxides synthesized from aluminum saline slag wastes as efficient drug adsorbents. Applied Clay Science, 2020, 187, 105486.	2.6	41
397	Application of Core-Shell-Structured K₂CO₃-Based Sorbents in Postcombustion CO₂ Capture: Statistical Analysis and Optimization Using Response Surface Methodology. Energy & Fuels, 2020, 34, 3429-3439.	2.5	15
398	Study of Shale Gas Release from Freshly Drilled Core Samples Using a Real-Time Canister Monitoring Technique: Release Kinetics, Influencing Factors, and Upscaling. Energy & Fuels, 2020, 34, 2916-2924.	2.5	10

#	Article	IF	Citations
399	Gold(III) separation from acidic medium by amine-based ionic liquid. Journal of Molecular Liquids, 2020, 304, 112735.	2.3	24
400	Enhancement in selective adsorption and removal efficiency of natural clay by intercalation of Zr-pillars into its layered nanostructure. Journal of Cleaner Production, 2020, 258, 120686.	4.6	43
401	Preparation and characterization of novel mesoporous chitin blended MoO3-montmorillonite nanocomposite for Cu(II) and Pb(II) immobilization. International Journal of Biological Macromolecules, 2020, 152, 554-566.	3.6	26
402	Removal of propranolol hydrochloride by batch biosorption using remaining biomass of alginate extraction from Sargassum filipendula algae. Environmental Science and Pollution Research, 2020, 27, 16599-16611.	2.7	31
403	Chromium and cadmium adsorption on radiation-grafted polypropylene copolymers: regeneration, kinetics, and continuous fixed bed column studies. SN Applied Sciences, 2020, 2, 1.	1.5	9
404	Pistachio shells as remediating agents for uranium in contaminated industrial seawater. Journal of Environmental Radioactivity, 2020, 217, 106209.	0.9	10
405	Preparation and characterization of Chicory leaf powder and its application as a nano-native plant sorbent for removal of Acid Blue 25 from aqueous media: isotherm, kinetic and thermodynamic study of the adsorption phenomenon. Journal of Nanostructure in Chemistry, 2020, 10, 75-86.	5.3	19
406	A comparative study of raw, acid-modified and EDTA-complexed Acacia auriculiformis biomass for the removal of hexavalent chromium. Chemistry and Ecology, 2020, 36, 360-381.	0.6	44
407	Mercury Sorbents Made By Inverse Vulcanization of Sustainable Triglycerides: The Plant Oil Structure Influences the Rate of Mercury Removal from Water. Advanced Sustainable Systems, 2020, 4, 1900111.	2.7	75
408	Evaluation of techniques for the remediation of antibiotic-contaminated water using activated carbon. Molecular Systems Design and Engineering, 2020, 5, 743-756.	1.7	21
409	Facile synthesis of corncob biochar via in-house modified pyrolysis for removal of methylene blue in wastewater. Materials Research Express, 2020, 7, 015518.	0.8	25
410	Luminescent MOF crystals embedded in PMMA/PDMS transparent films as effective NO₂ gas sensors. Molecular Systems Design and Engineering, 2020, 5, 1048-1056.	1.7	34
411	Adsorption kinetic models: Physical meanings, applications, and solving methods. Journal of Hazardous Materials, 2020, 390, 122156.	6.5	1,132
412	Carbon aerogels derived from sodium lignin sulfonate embedded in carrageenan skeleton for methylene-blue removal. International Journal of Biological Macromolecules, 2020, 148, 979-987.	3.6	46
413	Citric-acid-assisted sol-gel synthesis of mesoporous silicon-magnesium oxide ceramic fibers and their adsorption characteristics. Ceramics International, 2020, 46, 10105-10114.	2.3	14
414	Cyclodextrin Hydrogels: Rapid Removal of Aromatic Micropollutants and Adsorption Mechanisms. Journal of Chemical & Engineering Data, 2020, 65, 678-689.	1.0	32
415	Metal (Cd, Cr, Ni, Pb) removal from environmentally relevant waters using polyvinylpyrrolidone-coated magnetite nanoparticles. RSC Advances, 2020, 10, 3266-3276.	1.7	66
416	Pb2+ biosorption from aqueous solutions by live and dead biosorbents of the hydrocarbon-degrading strain Rhodococcus sp. HX-2. PLoS ONE, 2020, 15, e0226557.	1.1	30

#	Article	IF	Citations
417	Innovative process for total petroleum hydrocarbons reduction on oil refinery sludge through microbubble ozonation. Journal of Cleaner Production, 2020, 256, 120337.	4.6	36
418	Efficiency and mechanism of adsorption of low-concentration uranium from water by a new chitosan/aluminum sludge composite aerogel. Dalton Transactions, 2020, 49, 3209-3221.	1.6	43
419	Facile preparation of magnetic covalent organic frameworkâ€“metal organic framework composite materials as effective adsorbents for the extraction and determination of sedatives by highâ€performance liquid chromatography/tandem mass spectrometry in meat samples. Rapid Communications in Mass Spectrometry, 2020, 34, e8742.	0.7	23
420	Evaluation of the optimal activation parameters for almond shell bio-char production for capacitive deionization. Bioresource Technology Reports, 2020, 11, 100435.	1.5	18
421	Asymmetric gemini surfactants modified vermiculite- and silica nanosheets-based adsorbents for removing methyl orange and crystal violet. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 596, 124735.	2.3	22
422	Phenomena of Removal of Crystal Violet from Wastewater Using Khulays Natural Bentonite. Journal of Chemistry, 2020, 2020, 1-8.	0.9	17
423	Inhibition of 2-phenyl imidazoline on chloride-induced initial atmospheric corrosion of copper by quartz crystal microbalance and electrochemical impedance. Corrosion Science, 2020, 170, 108692.	3.0	29
424	Highly efficient U(VI) removal by chemically modified hydrochar and pyrochar derived from animal manure. Journal of Cleaner Production, 2020, 264, 121542.	4.6	29
425	Ultrasoundâ€assisted modification of Al 2 O 3 @ TiO 2 â€Ce coreâ€shell structure adsorbent for simultaneous desulfurization and denitrification. Journal of Chemical Technology and Biotechnology, 2020, 95, 2261-2271.	1.6	3
426	Using three-dimensional poly (vinyl alcohol)/sodium hexametaphosphate nanofiber as a non-toxic and efficient nanosorbent for extraction and recovery of Lanthanide ions from aqueous solutions. Journal of Molecular Liquids, 2020, 307, 112925.	2.3	6
427	Plasmaâ€“liquid synthesis of MoO_x and WO₃ as potential photocatalysts. Dalton Transactions, 2020, 49, 6270-6279.	1.6	13
428	Inter-protein interactions govern protein loading into porous vaterite CaCO₃ crystals. Physical Chemistry Chemical Physics, 2020, 22, 9713-9722.	1.3	19
429	Iron manganese Oxide Modified Multi-walled Carbon Nanotube as Efficient Adsorbent for Removal of Organic Dyes: Performance, Kinetics and Mechanism Studies. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 4027-4042.	1.9	7
430	Adsorption and desorption characteristics of ginsenosides from Panax ginseng C. A. Meyer on middleâ€pressure chromatogram isolated gels. Journal of Separation Science, 2020, 43, 2436-2446.	1.3	2
431	Adsorption and Removal of Thymol from Water Using a Zeolite Imidazolate Framework-8 Nanomaterial. Analytical Letters, 2021, 54, 625-636.	1.0	5
432	Feasibility of radioactive cesium and europium sorption using valorized punica granatum peel: kinetic and equilibrium aspects. Separation Science and Technology, 2021, 56, 217-232.	1.3	13
433	Adsorption equilibrium, kinetics and thermodynamics studies of anionic methyl orange dye adsorption using chitosan-calcium chloride gel beads. Chemical Engineering Communications, 2021, 208, 708-726.	1.5	23
434	UiO series of metal-organic frameworks composites as advanced sorbents for the removal of heavy metal ions: Synthesis, applications and adsorption mechanism. Ecotoxicology and Environmental Safety, 2021, 208, 111577.	2.9	119

#	Article	IF	Citations
435	Selective U(VI) removal using phosphorous-doped graphitic carbon. Journal of Environmental Chemical Engineering, 2021, 9, 104690.	3.3	9
436	Caesium adsorption on a zeolitic imidazolate framework (ZIF-8) functionalized by ferrocyanide. Journal of Colloid and Interface Science, 2021, 581, 741-750.	5.0	51
437	Sulfonic-functionalized algal/PEI beads for scandium, cerium and holmium sorption from aqueous solutions (synthetic and industrial samples). Chemical Engineering Journal, 2021, 403, 126399.	6.6	63
438	2-Mercaptobenzimidazole derivative of chitosan for silver sorption â€“ Contribution of magnetite incorporation and sonication effects on enhanced metal recovery. Chemical Engineering Journal, 2021, 403, 126265.	6.6	55
439	Photo isomerization of cis â€cyclooctene to trans â€cyclooctene: Integration of a microâ€flow reactor and separation by specific adsorption. AICHE Journal, 2021, 67, e17067.	1.8	6
440	Control of porous size distribution on solvent-free mesoporous carbon and their use as a superadsorbent for 17Î±-ethinylestradiol removal. Chemical Engineering Journal, 2021, 407, 127219.	6.6	8
441	A systematic review on carbohydrate biopolymers for adsorptive remediation of copper ions from aqueous environmentsâ€"Part B: Isotherms, thermokinetics and reusability. Science of the Total Environment, 2021, 754, 142048.	3.9	18
442	Lithium recovery from ultrahigh Mg2+/Li+ ratio brine using a novel granulated Li/Al-LDHs adsorbent. Separation and Purification Technology, 2021, 256, 117780.	3.9	44
443	Mechanistic pathways of cationic and anionic surfactants sorption by kaolinite in water. Environmental Science and Pollution Research, 2021, 28, 7307-7321.	2.7	6
444	A facile green synthesis of ZnO nanoparticles and its adsorptive removal of Congo red dye from aqueous solution. Materials Today: Proceedings, 2021, 38, 2445-2451.	0.9	13
445	Direct and quantitative study of ceriaâ€"SiO2 interaction depending on Ce3+ concentration for chemical mechanical planarization (CMP) cleaning. Materials Science in Semiconductor Processing, 2021, 122, 105500.	1.9	31
446	Adsorptive separation of La(III) from aqueous solution via the synthesized [Zn(bim)2(bdc)] metal-organic framework. Journal of Rare Earths, 2021, 39, 742-748.	2.5	17
447	Insights into adsorption rate constants and rate laws of preset and arbitrary orders. Separation and Purification Technology, 2021, 255, 117713.	3.9	11
448	Interfacial properties of trithiocyanuric acid functionalized cellulose nanofibers for efficient recovery of gold ions from aqueous solution. Cellulose, 2021, 28, 937-947.	2.4	3
449	Comparison of micro and nano MgO-functionalized vinasse biochar in phosphate removal: Micro-nano particle development, RSM optimization, and potential fertilizer. Journal of Water Process Engineering, 2021, 39, 101741.	2.6	22
450	Is one performing the treatment data of adsorption kinetics correctly?. Journal of Environmental Chemical Engineering, 2021, 9, 104813.	3.3	161
451	The comprehensive investigation on removal mechanism of Cr(VI) by humic acid-Fe(II) system structured on V, Ti-bearing magnetite surface. Advanced Powder Technology, 2021, 32, 37-51.	2.0	8
452	Development of a magnetic activated carbon adsorbent for the removal of common pharmaceuticals in wastewater treatment. International Journal of Environmental Science and Technology, 2021, 18, 2805-2818.	1.8	11

#	Article	IF	Citations
453	Double-side microcantilevers as a key to understand the adsorption mechanisms and kinetics of chemical warfare agents on vertically-aligned TiO2 nanotubes. Journal of Hazardous Materials, 2021, 406, 124672.	6.5	12
454	Separation and purification of pyrroloquinoline quinone from fermentation broth by pretreatment coupled with macroporous resin adsorption. Separation and Purification Technology, 2021, 257, 117962.	3.9	14
455	Selective recognition of nucleosides by boronate affinity organic-inorganic hybrid monolithic column. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2021, 1162, 122477.	1.2	8
456	Unveiling the correlation of Fe3O4 fractions upon the adsorption behavior of sulfamethoxazole on magnetic activated carbon. Science of the Total Environment, 2021, 757, 143717.	3.9	29
457	Application of a polyelectrolyte complex based on biocompatible polysaccharides for colorectal cancer inhibition. Carbohydrate Research, 2021, 499, 108194.	1.1	1
458	Removal of hazardous crystal violet dye by low-cost P-type zeolite/carbon composite obtained from in situ conversion of coal gasification fine slag. Microporous and Mesoporous Materials, 2021, 312, 110742.	2.2	53
459	Gold(III) recovery from aqueous solutions by raw and modified chitosan: A review. Carbohydrate Polymers, 2021, 256, 117423.	5.1	30
460	Adsorption of 17 Î²- estradiol in graphene oxide through the competing methanol co-solvent: Experimental and computational analysis. Journal of Molecular Liquids, 2021, 321, 114738.	2.3	24
461	Preparation of Laponite hydrogel in different shapes for selective dye adsorption and filtration separation. Applied Clay Science, 2021, 201, 105936.	2.6	30
462	Constructing MoS2/Lignin-derived carbon nanocomposites for highly efficient removal of Cr(VI) from aqueous environment. Journal of Hazardous Materials, 2021, 408, 124847.	6.5	65
463	Adsorption studies of benzophenone-3 onto clay minerals and organosilicates: Kinetics and modelling. Applied Clay Science, 2021, 202, 105937.	2.6	19
464	Removal of amoxicillin from aqueous solution using sludge-based activated carbon modified by walnut shell and nano-titanium dioxide. Journal of Water Reuse and Desalination, 2021, 11, 97-109.	1.2	7
465	A scalable three-dimensional porous Î»-MnO2/rGO/Ca-alginate composite electroactive film with potential-responsive ion-pumping effect for selective recovery of lithium ions. Separation and Purification Technology, 2021, 259, 118111.	3.9	29
466	Self-Assembly of Solubilized Human Hair Keratins. ACS Biomaterials Science and Engineering, 2021, 7, 83-89.	2.6	7
467	Improving predictive capacity of the Amino acid Derivative Reactivity Assay test method for skin sensitization potential with an optimal molar concentration of test chemical solution. Journal of Applied Toxicology, 2021, 41, 303-329.	1.4	8
468	Graphene oxide decorated with cellulose and copper nanoparticle as an efficient adsorbent for the removal of malachite green. International Journal of Biological Macromolecules, 2021, 167, 23-34.	3.6	61
469	Synthesis of uniform-sized and microporous MIL-125(Ti) to boost arsenic removal by chemical adsorption. Polyhedron, 2021, 196, 114980.	1.0	30
470	Dual-functional micro-adsorbents: Application for simultaneous adsorption of cesium and strontium. Chemosphere, 2021, 263, 128266.	4.2	37

#	Article	IF	Citations
471	Efficient CO2 adsorption and mechanism on nitrogen-doped porous carbons. Frontiers of Chemical Science and Engineering, 2021, 15, 493-504.	2.3	10
472	Artificial neural network modeling for Congo red adsorption on microwave-synthesized akaganeite nanoparticles: optimization, kinetics, mechanism, and thermodynamics. Environmental Science and Pollution Research, 2021, 28, 9133-9145.	2.7	13
473	Transforming shrub waste into a high-efficiency adsorbent: Application of Physalis peruvian chalice treated with strong acid to remove the 2,4-dichlorophenoxyacetic acid herbicide. Journal of Environmental Chemical Engineering, 2021, 9, 104574.	3.3	56
474	Mechanisms and kinetics of greywater treatment using biologically active granular activated carbon. Chemosphere, 2021, 263, 128113.	4.2	27
475	Modified Moringa oleifera Lam. Seed husks as low-cost biosorbent for atrazine removal. Environmental Technology (United Kingdom), 2021, 42, 1092-1103.	1.2	27
476	Removal of fluoride ions (F^{â^'}) from aqueous solutions using modified Turkish zeolite with quaternary ammonium. Environmental Technology (United Kingdom), 2021, 42, 1353-1365.	1.2	13
477	Capacity of Infusion Lines for Insulin Adsorption: Effect of Flow Rate on Total Adsorption. Journal of Diabetes Science and Technology, 2021, 15, 109-120.	1.3	13
478	3D sponges of chemically functionalized chitosan for potential environmental pollution remediation: biosorbents for anionic dye adsorption and â€˜antibiotic-freeâ€™ antibacterial activity. Environmental Technology (United Kingdom), 2021, 42, 2046-2066.	1.2	21
479	Hierarchical coreâ€“shell nanoplatforms constructed from Fe₃O₄@C and metalâ€“organic frameworks with excellent bilirubin removal performance. Journal of Materials Chemistry B, 2021, 9, 5628-5635.	2.9	16
480	Concurrent enhancement of structure stability and adsorption capacity of freeze-dried graphene oxide aerogels via the removal of oxidation debris nanoparticles on nanosheets. Environmental Science: Nano, 2021, 8, 1000-1009.	2.2	6
481	Sustainable Application of ZIF-8 for Heavy-Metal Removal in Aqueous Solutions. Sustainability, 2021, 13, 984.	1.6	36
482	Highly efficient sorption of molybdenum from tungstate solution with modified D301 resin. RSC Advances, 2021, 11, 29939-29947.	1.7	8
483	A novel surface-active monomer decorating a self-floating adsorbent with high pH adaptability for anionic dyes: Ï€-Ï€ stacking. Journal of Molecular Liquids, 2021, 321, 114864.	2.3	8
484	Uptake and Removal of Uranium by and from Human Teeth. Chemical Research in Toxicology, 2021, 34, 880-891.	1.7	9
485	Nanoporous Carbon From Mulberry Leaves Residues via Microwave Assisted Hydrothermal-Carbonization for Methyl Orange Adsorption: Kinetic, Equilibrium and Thermodynamic Studies. SSRN Electronic Journal, 0, , .	0.4	0
486	Adsorption, kinetics, and thermodynamic studies of cacao husk extracts in waterless sustainable dyeing of cotton fabric. Cellulose, 2021, 28, 2521-2536.	2.4	32
487	Sorption of cobalt (II) and chromium (III) ions to nitrogenâ€•and sulfurâ€•containing polyampholyte on the basis of polyvinylchloride. Polymers for Advanced Technologies, 2021, 32, 2700-2709.	1.6	13
488	Synthesis of a fully biobased cellulose-3-(2-hydroxyphenyl) propionate ester with antioxidant activity and UV-resistant properties by the DBU/CO₂/DMSO solvent system. Green Chemistry, 2021, 23, 2352-2361.	4.6	17

#	Article	IF	Citations
489	High-Performance Three-Dimensional Aerogel Based on Hydrothermal Pomelo Peel and Reduced Graphene Oxide as an Efficient Adsorbent for Water/Oil Separation. Langmuir, 2021, 37, 1521-1530.	1.6	30
490	Adsorption processes in biopolymer systems: fundamentals to practical applications. , 2021, , 1-51.		14
491	A Comparative Study of Ni (II) Removal from Aqueous Solutions on Ca-Alginate Beads and Alginate-Impregnated Hemp Fibers. Fibers and Polymers, 2021, 22, 9-18.	1.1	9
492	Modulated synthesis of thiol-functionalized fcu and hcp UiO-66(Zr) for the removal of silver(<scp>i</scp>) ions from water. Materials Advances, 2021, 2, 804-812.	2.6	20
493	Effect of Functional Groups on the <scp>I₂</scp> Sorption Kinetics of Isostructural <scp>Metalâ€“Organic</scp> Frameworks. Bulletin of the Korean Chemical Society, 2021, 42, 290-293.	1.0	9
494	Performance of the HSDM to predict competitive uptake of PFAS, NOM and inorganic anions by suspended ion exchange processes. Environmental Science: Water Research and Technology, 2021, 7, 1417-1429.	1.2	5
495	Kinetics of phosphate adsorption by Ca/Cr layered double hydroxide. African Journal of Environmental Science and Technology, 2021, 15, 109-116.	0.2	2
496	Surface Modification of Graphene Oxide with Crosslinked Polymethacrylamide via RAFT Polymerization Strategy: Effective Removal of Heavy Metals from Aqueous Solutions. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 2959-2970.	1.9	11
497	Kinetic and Isotherm Study of As(III) Removal from Aqueous Solution by PET Track-Etched Membranes Loaded with Copper Microtubes. Membranes, 2021, 11, 116.	1.4	14
498	Katyon DeÄŸiÅŸim ReÃ§inesi Kullanarak Sulu Ã‡Ã¶zeltilerden Amonyum Giderimi. European Journal of Science and Technology, 0, , .	0.5	0
499	Water softening using graphene oxide/biopolymer hybrid nanomaterials. Journal of Environmental Chemical Engineering, 2021, 9, 105045.	3.3	8
500	Dynamic Adsorption Behaviors of Protein on Cibacron Blue-Modified PVA Nanofiber Fabrics. Journal of Textile Engineering, 2021, 67, 1-11.	0.5	3
501	Technoeconomic Investigation of Amine-Grafted Zeolites and Their Kinetics for CO₂ Capture. ACS Omega, 2021, 6, 6153-6162.	1.6	17
502	A Revised Pseudo-Second-Order Kinetic Model for Adsorption, Sensitive to Changes in Adsorbate and Adsorbent Concentrations. Langmuir, 2021, 37, 3189-3201.	1.6	71
503	Sorption studies of 4-NP onto goethite: effects of contact time, pH, concentration, ionic strength and temperature. Environmental Earth Sciences, 2021, 80, 1.	1.3	11
504	Chloride Removal of Calcium Aluminate-Layered Double Hydroxide Phases: A Review. International Journal of Environmental Research and Public Health, 2021, 18, 2797.	1.2	9
505	Combining Electrocatalysts and Biobased Adsorbents for Sustainable Denitrification. ACS Sustainable Chemistry and Engineering, 2021, 9, 3658-3667.	3.2	9
506	Adsorption kinetics and Boxâ€“Behnken design optimization for organic dyes on tungsten oxide. Environmental Technology (United Kingdom), 2022, 43, 2620-2636.	1.2	1

#	Article	IF	Citations
507	Nanoporous carbons prepared from argan nutshells as potential removal agents of diclofenac and paroxetine. Journal of Molecular Liquids, 2021, 326, 115368.	2.3	20
508	Application of Mussell-derived biosorbent to remove NH4+ from aqueous solution: Equilibrium and Kinetics. SN Applied Sciences, 2021, 3, 1.	1.5	1
509	Graphene-based materials for adsorptive removal of pollutants from water and underlying interaction mechanism. Advances in Colloid and Interface Science, 2021, 289, 102360.	7.0	49
510	Adsorption and separation behavior of palladium(II) from simulated high-level liquid waste using a novel silica-based adsorbents. Radiochimica Acta, 2021, 109, 367-375.	0.5	8
511	Characteristics and Mechanisms of Phosphate Sorption by Calcined Oyster Shell. Korean Journal of Environmental Agriculture, 2021, 40, 40-48.	0.0	1
512	Phosphorylation of Guar Gum/Magnetite/Chitosan Nanocomposites for Uranium (VI) Sorption and Antibacterial Applications. Molecules, 2021, 26, 1920.	1.7	68
513	Physical-chemical Characterization of Nano-Zinc Oxide/Activated Carbon Composite for Phenol Removal from Aqueous Solution. Bulletin of Chemical Reaction Engineering and Catalysis, 2021, 16, 136-147.	0.5	3
514	Modelling, kinetics and equilibrium studies of crystal violet adsorption on modified montmorillonite by sodium dodecyl sulfate and hyamine surfactants. Clay Minerals, 2021, 56, 16-27.	0.2	8
515	Cellulose/Biochar Cryogels: A Study of Adsorption Kinetics and Isotherms. Langmuir, 2021, 37, 3180-3188.	1.6	12
516	Fluoride removal by thermally treated egg shells with high adsorption capacity, low cost, and easy acquisition. Environmental Science and Pollution Research, 2021, 28, 35887-35901.	2.7	29
517	Preparation of a Fungal-Modified Material Linked by the Monoamidoxime Terminal Open-Chain Polyether and Its Uranyl Adsorption. Industrial & Engineering Chemistry Research, 2021, 60, 4705-4713.	1.8	5
518	Locally available agroresidues as potential sorbents: modelling, column studies and scale-up. Bioresources and Bioprocessing, 2021, 8, .	2.0	4
519	Adsorption Isotherms, Thermodynamics, and Kinetic Modeling of Methylene Blue onto Novel Carbonaceous Adsorbent Derived from Bitter Orange Peels. Water, Air, and Soil Pollution, 2021, 232, 1.	1.1	21
520	Activated carbon from macauba endocarp (Acrocomia aculeate) for removal of atrazine: Experimental and theoretical investigation using descriptors based on DFT. Journal of Environmental Chemical Engineering, 2021, 9, 105155.	3.3	20
521	Removal of phenolics from aqueous pyrolysis condensate by activated biochar. Canadian Journal of Chemical Engineering, 2021, 99, 2368-2385.	0.9	7
522	Synergistic effect in concurrent removal of toxic methylene blue and acid red-1 dyes from aqueous solution by durian rind: kinetics, isotherm, thermodynamics, and mechanism. International Journal of Phytoremediation, 2021, 23, 1432-1443.	1.7	17
523	NiFe2O4-based magnetic covalent organic framework nanocomposites for the efficient adsorption of brominated flame retardants from water. Mikrochimica Acta, 2021, 188, 161.	2.5	15
524	Preparation and evaluation of amidoximated poly(styrene-acrylonitrile) nanofibers for uranium adsorption from aqueous solutions. Journal of Polymer Research, 2021, 28, 1.	1.2	5

#	Article	IF	Citations
525	Application of zeolitic imidazolate framework for hexavalent chromium removal: A feasibility and mechanism study. Water Environment Research, 2021, 93, 1995-2009.	1.3	5
526	Screening of New bio-based materials for radioactive iodide adsorption from water environment. Journal of Water Process Engineering, 2021, 40, 101955.	2.6	5
527	Cyclodextrin Composite Nanofiber Membrane: Impact of the Crosslinker Type on Steroid Hormone Micropollutant Removal from Water. ACS Applied Polymer Materials, 2021, 3, 2646-2656.	2.0	11
528	HaloTag Forms an Intramolecular Disulfide. Bioconjugate Chemistry, 2021, 32, 964-970.	1.8	11
529	Xanthate modified magnetic activated carbon for efficient removal of cationic dyes and tetracycline hydrochloride from aqueous solutions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 615, 126273.	2.3	44
530	Fabrication of Manganese-Supported Activated Alumina Adsorbent for Defluoridation of Water: A Kinetics and Thermodynamics Study. Water (Switzerland), 2021, 13, 1219.	1.2	4
531	Adsorption Behavior of Acid-Treated Brazilian Palygorskite for Cationic and Anionic Dyes Removal from the Water. Sustainability, 2021, 13, 3954.	1.6	12
532	Siloxene: A novel 2D photocatalyst for degradation of dye molecules. Nano Structures Nano Objects, 2021, 26, 100721.	1.9	9
533	Langmuir Adsorption Kinetics in Liquid Media: Interface Reaction Model. ACS Omega, 2021, 6, 14481-14492.	1.6	31
534	Sorption behavior of phosphate by fly ash discharged from biomass thermal power plant. Applied Biological Chemistry, 2021, 64, .	0.7	11
535	Multi-functionalized self-floating microspheres for dyes capture: Amphoteric adsorption and rapid surface solid-liquid separation. Journal of Cleaner Production, 2021, 296, 126535.	4.6	13
536	Sorption Properties of Specific Polymeric Microspheres towards Desethyl-Terbuthylazine and 2-Hydroxy-Terbuthylazine: Batch and Column Studies. Materials, 2021, 14, 2734.	1.3	9
537	Magnetic Steel Slag Biochar for Ammonium Nitrogen Removal from Aqueous Solution. Energies, 2021, 14, 2682.	1.6	7
538	Modeling study of coffee extraction at different temperature and grind size conditions to better understand the cold and hot brewing process. Journal of Food Process Engineering, 2021, 44, e13748.	1.5	16
539	The Effect of CTAB on Bentonite for Slow Release Fertilizer. Key Engineering Materials, 0, 884, 226-233.	0.4	4
540	Visible light induced photodegradation of bio-polymeric waste using boron-enhanced titania nanotubes. Journal of Alloys and Compounds, 2021, 864, 158146.	2.8	1
541	Metal selectivity and effects of co-existing ions on the removal of Cd, Cu, Ni, and Cr by ZIF-8-EGCG nanoparticles. Journal of Colloid and Interface Science, 2021, 589, 578-586.	5.0	51
542	2â€Hydroxyethyl Methacrylate Hydrogels for Local Drug Delivery: Study of Topotecan and Vincristine Sorption/Desorption Kinetics and Polymerâ€Drug Interaction by ATRâ€FTIR Spectroscopy. Macromolecular Chemistry and Physics, 2021, 222, 2100086.	1.1	13

#	Article	IF	Citations
543	Effect of agitation mode (mechanical, ultrasound and microwave) on uranium sorption using amine- and dithizone-functionalized magnetic chitosan hybrid materials. Chemical Engineering Journal, 2021, 411, 128553.	6.6	53
544	A Stochastic Model for Adsorption Kinetics. Adsorption Science and Technology, 2021, 2021, 1-21.	1.5	4
545	One new hexatungstate-based binuclear nickel(II) complex with high selectivity adsorption for organic dyes. Journal of Molecular Structure, 2021, 1231, 129674.	1.8	7
546	Chemical processes of Cr(VI) removal by Fe-modified biochar under aerobic and anaerobic conditions and mechanism characterization under aerobic conditions using synchrotron-related techniques. Science of the Total Environment, 2021, 768, 144604.	3.9	41
547	Zeolite NaP1 Functionalization for the Sorption of Metal Complexes with Biodegradable N-(1,2-dicarboxyethyl)-D,L-aspartic Acid. Materials, 2021, 14, 2518.	1.3	2
548	Highly efficient porous carbons for the removal of W(VI) oxyanion from wastewaters. Journal of Hazardous Materials, 2021, 412, 125201.	6.5	6
549	Nanoparticles of ZnO and Mg-doped ZnO: Synthesis, characterization and efficient removal of methyl orange (MO) from aqueous solution. Ceramics International, 2021, 47, 15668-15681.	2.3	18
550	Observed equilibrium partition and second-order kinetic interaction of quantum dot nanoparticles in saturated porous media. Journal of Contaminant Hydrology, 2021, 240, 103799.	1.6	5
551	Heavy metal removal from wastewater using nanomaterials-process and engineering aspects. Chemical Engineering Research and Design, 2021, 150, 323-355.	2.7	54
552	Kinetic and Thermodynamic Features of Pb(II) Removal From Aqueous Solution by Leonardite-Derived Humic Acid. Water, Air, and Soil Pollution, 2021, 232, 1.	1.1	10
553	Magnetic Solid-Phase Extraction Followed by HPLCâ€“DAD for Highly Sensitive Determination of Phthalate Esters in Edible Vegetable Oils. Food Analytical Methods, 2021, 14, 2375-2385.	1.3	11
554	Reviewing Fundamental CO₂ Adsorption Characteristics of Zeolite and Activated Carbon by In-situ Measurements With Radioactively Labelled CO₂. Separation and Purification Reviews, 2022, 51, 318-329.	2.8	8
555	Evaluation of poly(ethylene diamine-trimesoyl chloride)-modified diatomite as efficient adsorbent for removal of rhodamine B from wastewater samples. Environmental Science and Pollution Research, 2021, 28, 55655-55666.	2.7	25
556	Comprehensive review on surfactant adsorption on mineral surfaces in chemical enhanced oil recovery. Advances in Colloid and Interface Science, 2021, 294, 102467.	7.0	87
557	Li+ adsorption performance and mechanism using lithium/aluminum layered double hydroxides in low grade brines. Desalination, 2021, 505, 114983.	4.0	77
558	Novel highly efficient ionic liquid-functionalized silica for toxic metals removal. Separation and Purification Technology, 2021, 265, 118483.	3.9	13
559	The efficient recovery of Au(III) ions from acidic solutions by a novel scavenger based on functionalized poly(styrene-co-maleimide) nanoparticles. Chemical Engineering Journal, 2021, 414, 128761.	6.6	14
560	A Humins-Derived Magnetic Biochar for Water Purification by Adsorption and Magnetic Separation. Waste and Biomass Valorization, 2021, 12, 6497-6512.	1.8	10

#	Article	IF	Citations
561	Thiomers of Chitosan and Cellulose: Effective Biosorbents for Detection, Removal and Recovery of Metal Ions from Aqueous Medium. Chemical Record, 2021, 21, 1876-1896.	2.9	38
563	Contrasting fates of nitrate between organic and iron oxide-rich horizons of an acidic forest soil under oxic and suboxic conditions. Soil Biology and Biochemistry, 2021, 157, 108237.	4.2	0
564	Removal of Pesticides from Waters by Adsorption: Comparison between Synthetic Zeolites and Mesoporous Silica Materials. A Review. Materials, 2021, 14, 3532.	1.3	23
565	Adsorption of CO2, N2 and CH4 on a Fe-based metal organic framework, MIL-101(Fe)-NH2. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 619, 126554.	2.3	19
566	Multiple Roles of Mesoporous Silica in Safe Pesticide Application by Nanotechnology: A Review. Journal of Agricultural and Food Chemistry, 2021, 69, 6735-6754.	2.4	87
567	Synergistic adsorption behavior of a silica-based adsorbent toward palladium, molybdenum, and zirconium from simulated high-level liquid waste. Journal of Hazardous Materials, 2021, 411, 125136.	6.5	33
568	Sorption characteristics of phosphate by bauxite residue in aqueous solution. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 618, 126465.	2.3	7
569	Microporous carbon derived from hydroxyl functionalized organic network for efficient adsorption of flumequine: Adsorption mechanism and application potentials. Chemical Engineering Journal, 2022, 427, 130943.	6.6	39
570	Removal of fluoride from sodium sulfate brine by zirconium pre-loaded chelating resins with amino-methyl phosphonic acid functionality. Desalination, 2021, 505, 114985.	4.0	10
571	PolyvinylÑhlorideâ€based anion exchanger for efficient removal of chromium (<scp>VI</scp>) from aqueous solutions. Polymers for Advanced Technologies, 2021, 32, 3995-4004.	1.6	10
572	Fabrication of Hierarchical Macroporous ZIF-8 Monoliths Using High Internal Phase Pickering Emulsion Templates. Langmuir, 2021, 37, 8435-8444.	1.6	20
573	Treatability and Kinetic Analysis of BPA-containing Wastewater by Catalytic Ozone Processes Using ZnSO4 and ZnO Catalysts. Ozone: Science and Engineering, 0, , 1-7.	1.4	1
574	Preparation of forcespun Î³-irradiated chitin from shrimp shell wastes and its evaluation as uranyl ion adsorbent. Journal of Radioanalytical and Nuclear Chemistry, 2021, 329, 731-739.	0.7	0
575	Nano Titanyum Dioksit EÅŸliÄŸinde DoÄŸal Organik Maddenin Katalitik OzonlanmasÄ±. European Journal of Science and Technology, 0, , .	0.5	0
576	Coagulated Mineral Adsorbents for Dye Removal, and Their Process Intensification Using an Agitated Tubular Reactor (ATR). ChemEngineering, 2021, 5, 35.	1.0	8
577	Magnetic-responsive CNT/chitosan composite as stabilizer and adsorbent for organic contaminants and heavy metal removal. Journal of Molecular Liquids, 2021, 334, 116087.	2.3	25
578	Feasibility and comparative analysis of cadmium biosorption by living scenedesmus obliquus FACHB-12 biofilms. Chemosphere, 2021, 275, 130125.	4.2	15
579	Weak electric field enabling enhanced selectivity of tannic acid-graphene aerogels for Pb2+ harvesting from wastewater. Chemical Engineering Journal, 2021, 416, 129144.	6.6	19

#	Article	IF	Citations
580	Toward Sustainable Li-Ion Battery Recycling: Green Metalâ€“Organic Framework as a Molecular Sieve for the Selective Separation of Cobalt and Nickel. ACS Sustainable Chemistry and Engineering, 2021, 9, 9770-9778.	3.2	22
581	Preparation of a magnetic molecularly imprinted polymer for non-invasive determination of cortisol. Journal of Polymer Research, 2021, 28, 1.	1.2	9
582	Removal of antibiotics in sand, GAC, GAC sandwich and anthracite/sand biofiltration systems. Chemosphere, 2021, 275, 130004.	4.2	22
583	Adsorption of doxycycline from aqueous media: A review. Journal of Molecular Liquids, 2021, 334, 116124.	2.3	67
584	Functional CoFe2O4â€modified biochar derived from banana pseudostem as an efficient adsorbent for the removal of amoxicillin from water. Separation and Purification Technology, 2021, 266, 118592.	3.9	65
585	In-depth Insights into Mathematical Characteristics, Selection Criteria and Common Mistakes of Adsorption Kinetic Models: A Critical Review. Separation and Purification Reviews, 2022, 51, 281-299.	2.8	50
586	ADSORPTION OF 4-CHLORPHENOL BY BROWN COAL ACTIVATED BY POTASSIUM HYDROXIDE. Water and Water Purification Technologies Scientific and Technical News, 2021, 29, 36-48.	0.1	2
587	Chemical and Physical Characterisation of Human Serum Albumin Nanocolloids: Kinetics, Strength and Specificity of Bonds with 99mTc and 68Ga. Nanomaterials, 2021, 11, 1776.	1.9	7
588	Cooperative adsorption of L-tryptophan and sodium ion on a hyper-cross-linked resin: Experimental studies and mathematical modeling. Journal of Chromatography A, 2021, 1648, 462211.	1.8	7
589	Immobilized ZnO/TiO2 activated carbon (I ZnO/TiO2 AC) to removal of arsenic from aqueous environments: optimization using response surface methodology and kinetic studies. Biomass Conversion and Biorefinery, 2023, 13, 10483-10494.	2.9	7
590	Adsorption model identification for chromium (VI) transport in unconsolidated sediments. Journal of Hydrology, 2021, 598, 126228.	2.3	25
591	Superior adsorptive removal of eco-toxic drug diclofenac sodium by Znâ€“Al LDHâ‹…xBi2O3 layer double hydroxide composites. Applied Clay Science, 2021, 208, 106119.	2.6	16
592	Co-Cu oxide nano-flake adsorbent for tetracycline removal from aqueous solution. Environmental Science and Pollution Research, 2022, 29, 2965-2973.	2.7	7
593	Development of fruit waste derived bio-adsorbents for wastewater treatment: A review. Journal of Hazardous Materials, 2021, 416, 125848.	6.5	109
594	Synthesis and adsorption properties of gelatin-conjugated hematite (Î±-Fe2O3) nanoparticles for lead removal from wastewater. Journal of Hazardous Materials, 2021, 416, 125696.	6.5	38
595	A review on zeolites as cost-effective adsorbents for removal of heavy metals from aqueous environment. International Journal of Environmental Science and Technology, 2022, 19, 8061-8084.	1.8	30
596	Enhanced Performance of Chitosan via a Novel Quaternary Magnetic Nanocomposite Chitosan/Grafted Halloysitenanotubes@ZnÎ³Fe3O4 for Uptake of Cr (III), Fe (III), and Mn (II) from Wastewater. Polymers, 2021, 13, 2714.	2.0	14
597	Supramolecular assembly of l-Lysine on ZSM-5 zeolites with different Si/Al ratio. Microporous and Mesoporous Materials, 2021, 323, 111183.	2.2	2

#	Article	IF	Citations
598	Preparation of adsorbent based on water treatment residuals and chitosan by homogeneous method with freeze-drying and its As(V) removal performance. International Journal of Biological Macromolecules, 2021, 184, 313-324.	3.6	15
599	Adsorbents for real-scale water remediation: Gaps and the road forward. Journal of Environmental Chemical Engineering, 2021, 9, 105380.	3.3	21
600	Environmental protection by the adsorptive elimination of acetaminophen from water: A comprehensive review. Journal of Industrial and Engineering Chemistry, 2021, 104, 117-135.	2.9	43
601	Fast and effective arsenic removal from aqueous solutions by a novel low-cost eggshell byproduct. Science of the Total Environment, 2021, 783, 147022.	3.9	10
602	Adsorption and enrichment of simulated 137Cs in geopolymer foams. Journal of Environmental Chemical Engineering, 2021, 9, 105733.	3.3	16
603	Modulation of Viscoelastic and Absorption Properties of Poly(vinyl alcohol)-graphene Oxide Composites. ACS Applied Polymer Materials, 2021, 3, 4717-4725.	2.0	4
604	Solid-state synthesis of conjugated doped poly(3,4-ethylenedioxythiophene): An effective adsorbent for selective anionic dye removal. Reactive and Functional Polymers, 2021, 165, 104972.	2.0	4
605	Monodisperse superparamagnetic nanoparticles separation adsorbents for high-yield removal of arsenic and/or mercury metals in aqueous media. Journal of Molecular Liquids, 2021, 335, 116485.	2.3	7
606	Eco-friendly luminescent ZnO nanoconjugates with thiol group for potential environmental photocatalytic activity. Journal of Environmental Chemical Engineering, 2021, 9, 105491.	3.3	11
607	2-Mercaptobenzimidazole-functionalized chitosan for enhanced removal of methylene blue: Batch and column studies. Journal of Environmental Chemical Engineering, 2021, 9, 105609.	3.3	40
608	Modified Grape Seeds: A Promising Alternative for Nitrate Removal from Water. Materials, 2021, 14, 4791.	1.3	5
609	A Critical Overview of Adsorption Models Linearization: Methodological and Statistical Inconsistencies. Separation and Purification Reviews, 2022, 51, 358-372.	2.8	48
610	Effective Removal of Calcium and Magnesium Ions from Water by a Novel Alginateâ€“Citrate Composite Aerogel. Gels, 2021, 7, 125.	2.1	11
611	Synthesis and Study of Sorption, Antioxidant and Antibacterial Properties of MOF based on Cobalt Terephthalate and 1,10-Phenanthroline. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 4710-4721.	1.9	8
612	Removal Performance and Mechanism of Benzo(b)Fluorathene Using MnO2 Nanoflower/Graphene Oxide Composites. Materials, 2021, 14, 4402.	1.3	0
613	Fe-loaded biochar obtained from food waste for enhanced phosphate adsorption and its adsorption mechanism study via spectroscopic and experimental approach. Journal of Environmental Chemical Engineering, 2021, 9, 105751.	3.3	45
614	Impact of Asphaltenes on the Adsorption Behavior of Petroleum Vanadyl Porphyrins: Kinetic and Thermodynamic Aspects. Energy & Fuels, 2021, 35, 14527-14541.	2.5	9
615	Separation and Preconcentration Methods for the Determination of Highly Toxic Organic Compounds (Poisons). Journal of Analytical Chemistry, 2021, 76, 1029-1042.	0.4	1

#	Article	IF	Citations
616	Development and characterization of bentonite-gum arabic composite as novel highly-efficient adsorbent to remove thorium ions from aqueous media. Cellulose, 2021, 28, 10321-10333.	2.4	17
617	Utilization of agro-industrial waste for biosurfactant production under submerged fermentation and its synergistic application in biosorption of Pb2+. Bioresource Technology Reports, 2021, 15, 100706.	1.5	10
618	Preparation of hydroxyapatite-calcium ferrite composite for application in loading and sustainable release of amoxicillin: Optimization and modeling of the process by response surface methodology and artificial neural network. Ceramics International, 2021, 47, 24287-24295.	2.3	13
619	Impregnation of covalent organic framework into porous silica support for the recovery of palladium ions from simulated high-level liquid waste. Journal of Radioanalytical and Nuclear Chemistry, 2021, 330, 1065-1074.	0.7	3
620	Adsorption kinetics and isotherm modeling of arsenic removal from groundwater using electrocoagulation. Journal of the Iranian Chemical Society, 2022, 19, 1445-1456.	1.2	1
621	Preparation of the extruded UiO-66-based Metal-Organic Framework for the diazinon removal from the real samples. Journal of Molecular Structure, 2021, 1240, 130607.	1.8	18
622	A State-of-the-Art Review on Biowaste Derived Chitosan Biomaterials for Biosorption of Organic Dyes: Parameter Studies, Kinetics, Isotherms and Thermodynamics. Polymers, 2021, 13, 3009.	2.0	9
623	Polyethyleneimine impregnated alginate capsule as a high capacity sorbent for the recovery of monovalent and trivalent gold. Scientific Reports, 2021, 11, 17836.	1.6	22
624	Removal of humic acid and Cr(â...¥) from water using ZnOâ€“30N-zeolite. Chemosphere, 2021, 279, 130491.	4.2	13
625	Development and progress of functionalized silica-based adsorbents for CO2 capture. Journal of Molecular Liquids, 2021, 338, 116913.	2.3	27
626	Proof of concept for CUK family metal-organic frameworks as environmentally-friendly adsorbents for benzene vapor. Environmental Pollution, 2021, 285, 117491.	3.7	14
627	Time adapted linear driving force model for gas adsorption onto solids. Chemical Engineering Journal, 2021, 420, 129785.	6.6	17
628	Sunlight-controlled CO2 separation resulting from a biomass-based CO2 absorber. Green Energy and Environment, 2022, 7, 566-574.	4.7	7
629	Adsorption of Toxic Zinc by Functionalized Lignocellulose Derived from Waste Biomass: Kinetics, Isotherms and Thermodynamics. Sustainability, 2021, 13, 10673.	1.6	6
630	Vanadium removal by cationized sawdust produced through iodomethane quaternization of triethanolamine grafted raw material. Chemosphere, 2021, 278, 130445.	4.2	16
631	Mechanisms of heavy metal and oil removal from synthetic saline oilfield produced water by electrocoagulation. Npj Clean Water, 2021, 4, .	3.1	9
632	Functionalized aminophosphonate chitosan-magnetic nanocomposites for Cd(II) removal from aqueous solutions: Performance and mechanisms of sorption. Applied Surface Science, 2021, 561, 150069.	3.1	29
633	Magnetic and pH responsive composite hydrogel-based on poly(2-(diethylamino)ethyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 67 2021, 168, 105050.	2.0	7

#	Article	IF	Citations
634	A sustainable nanocomposite, graphene oxide bi-functionalized with chitosan and magnetic nanoparticles for enhanced removal of Sudan dyes. Journal of Dispersion Science and Technology, 2023, 44, 806-818.	1.3	3
635	Recovery of Heavy Metal Ions Using Magnetic Glycine-Modified Chitosanâ€"Application to Aqueous Solutions and Tailing Leachate. Applied Sciences (Switzerland), 2021, 11, 8377.	1.3	41
636	Preparation of cotton fibers modified with aromatic heterocyclic compounds and study of Cr(VI) adsorption performance. Cellulose, 2021, 28, 11037-11049.	2.4	8
637	A mesoporous melamine/chitosan/activated carbon biocomposite: Preparation, characterization and its application for Ni (II) uptake via ion imprinting. International Journal of Biological Macromolecules, 2021, 188, 126-136.	3.6	5
638	Adsorption/desorption characteristics and chromatographic purification of polyphenols from Vernonia patula (Dryand.) Merr. using macroporous adsorption resin. Industrial Crops and Products, 2021, 170, 113729.	2.5	25
639	Adsorption-reduction strategy of U(VI) on NZVI-supported zeolite composites via batch, visual and XPS techniques. Journal of Molecular Liquids, 2021, 339, 116719.	2.3	30
640	Facile fabrication of PVB-PVA blend polymer nanocomposite for simultaneous removal of heavy metal ions from aqueous solutions: Kinetic, equilibrium, reusability and adsorption mechanism. Journal of Environmental Chemical Engineering, 2021, 9, 106214.	3.3	33
641	Analysis on approximate site energy distribution and adsorption behaviors unveils reasons for highly efficient phosphorus removal by a novel sludge-based magnetic gel bead. Chemical Engineering Journal, 2021, 422, 130028.	6.6	25
642	Synthesis and characterization of activated carbon of Moringa oleifera Lam pod and evaluation of its performance in the removal of oils and greases. Journal of Environmental Chemical Engineering, 2021, 9, 105965.	3.3	7
643	Hydrothermal deposition of CoFe2O4 nanoparticles on activated carbon fibers promotes atrazine removal via physical adsorption and photo-Fenton degradation. Journal of Environmental Chemical Engineering, 2021, 9, 105940.	3.3	27
644	The role of groundwater in loading of nutrients to a restricted bay in a Precambrian Shield lake Part 2. â€“ Numerical modeling. Journal of Great Lakes Research, 2021, 47, 1273-1287.	0.8	2
645	Adsorption behavior of arsenic onto lignin-based biochar decorated with zinc. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 626, 127095.	2.3	11
646	Adsorption of As(III) from aqueous solutions using MnO2 strengthened WTRs-chitosan beads made by homogenous method with freeze-drying. Reactive and Functional Polymers, 2021, 167, 105016.	2.0	6
647	Concurrent removal of Cu(II), Co(II) and Ni(II) from wastewater by nanostructured layered sodium vanadosilicate: Competitive adsorption kinetics and mechanisms. Journal of Environmental Chemical Engineering, 2021, 9, 105945.	3.3	11
648	Conversion of waste bottlesâ€™ PET to a hydrogel adsorbent via PET aminolysis. Journal of Environmental Chemical Engineering, 2021, 9, 106129.	3.3	45
649	Mesoporous metal organic frameworks functionalized with the amino acids as advanced sorbents for the removal of bacterial endotoxins from water: Optimization, regression and kinetic models. Journal of Molecular Liquids, 2021, 339, 116801.	2.3	19
650	Boosted Cr(VI) sorption coupled reduction from aqueous solution using quaternized algal/alginate@PEI beads. Chemosphere, 2021, 281, 130844.	4.2	15
651	A novel method for the functionalization of graphene oxide with polyimidazole for highly efficient adsorptive removal of organic dyes. Journal of Molecular Liquids, 2021, 339, 116794.	2.3	6

#	Article	IF	Citations
652	Shapeable and underwater super-elastic cellulose nanofiber/alginate cryogels by freezing-induced oxa-Michael reaction for efficient protein purification. Carbohydrate Polymers, 2021, 272, 118498.	5.1	17
653	Sol-modified sintering-induced mesoporous polytetrafluoroethylene/poly(acrylic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 707 T dyes. Materials Chemistry and Physics, 2021, 272, 124988.	2.0	3
654	Constructed Co3O4-Sn3O4 hierarchical nanoflower-tree heterostructure with boosting photoelectrocatalytic efficiency for water decontamination. Chemical Engineering Journal, 2021, 423, 130252.	6.6	25
655	Fabrication of in situ ZIF-67 grown on alginate hydrogels and its application for enhancing Cu (II) adsorption from aqueous solutions. Colloids and Surfaces B: Biointerfaces, 2021, 207, 112036.	2.5	38
656	Adsorption behavior of perfluorooctanesulfonate (PFOS) onto activated spent coffee grounds biochar in synthetic wastewater effluent. Journal of Hazardous Materials Letters, 2021, 2, 100025.	2.0	14
657	Dysprosium adsorption on expanded vermiculite: Kinetics, selectivity and desorption. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 630, 127616.	2.3	16
658	Pectin derived from pomelo pith as a superior adsorbent to remove toxic Acid Blue 25 from aqueous solution. Carbohydrate Polymer Technologies and Applications, 2021, 2, 100116.	1.6	7
659	A composite of magnetic GOx@MOF incorporated in alginate hydrogel fiber adsorbent for the extraction of phthalate esters. Microchemical Journal, 2021, 171, 106827.	2.3	11
660	The competing role of moisture in adsorption of gaseous benzene on microporous carbon. Separation and Purification Technology, 2021, 277, 119487.	3.9	18
661	Investigation of adsorption kinetics of CH4 and CO2 on shale exposure to supercritical CO2. Energy, 2021, 236, 121410.	4.5	24
662	Adsorption performance of volatile organic compounds on activated carbon fibers in a fixed bed column. Journal of Environmental Chemical Engineering, 2021, 9, 106347.	3.3	14
663	Design of reduced graphene hydrogel with alkylamine surface functionalization through immersion/agitation method and its adsorption mechanism. Journal of Molecular Structure, 2021, 1245, 131008.	1.8	18
664	Interface and defect engineering enable fast and high-efficiency Li extraction of metatitanic acid adsorbent. Chemical Engineering Journal, 2021, 425, 130550.	6.6	22
665	Progress in surface-modified silicas for Cr(VI) adsorption: A review. Journal of Hazardous Materials, 2022, 423, 127041.	6.5	70
666	Preparation of uniform gold nanoparticles of different quantity deposited on zinc oxide nanorods for photoelectrochemical water splitting. Chemosphere, 2022, 287, 132168.	4.2	6
667	One-pot synthesis of magnetic Prussian blue for the highly selective removal of thallium(I) from wastewater: Mechanism and implications. Journal of Hazardous Materials, 2022, 423, 126972.	6.5	12
668	Desert beetle-like microstructures bridged by magnetic Fe3O4 grains for enhancing oil-in-water emulsion separation performance and solar-assisted recyclability of graphene oxide. Chemical Engineering Journal, 2022, 427, 130904.	6.6	58
669	Enhanced adsorption of perfluorooctanoate (PFOA) onto low oxygen content ordered mesoporous carbon (OMC): Adsorption behaviors and mechanisms. Journal of Hazardous Materials, 2022, 421, 126810.	6.5	46

#	Article	IF	Citations
670	In-situ formed Cyclodextrin-functionalized graphene oxide / poly (N-isopropylacrylamide) nanocomposite hydrogel as an recovery adsorbent for phenol and microfluidic valve. Journal of Colloid and Interface Science, 2022, 607, 253-268.	5.0	20
671	Functionalization of magnetic chitosan microparticles for high-performance removal of chromate from aqueous solutions and tannery effluent. Chemical Engineering Journal, 2022, 428, 131775.	6.6	60
672	Statistical physics modelling of azo dyes biosorption onto modified powder of Acorus calamus in batch reactor. Biomass Conversion and Biorefinery, 2023, 13, 1013-1028.	2.9	5
673	Synthesis, characterization and environmental application of an original adsorbent: polyaniline-coated luffa cylindrica. Journal of Polymer Research, 2021, 28, 1.	1.2	4
674	In-Vitro Ibuprofen Release Monitoring Using Carbon Quantum Dots. Journal of Fluorescence, 2021, 31, 289-303.	1.3	5
675	The removal of Pb2+ ion by MnFe2O4/waste tea leaves biochar and mechanism of adsorption. Materials Research Express, 2021, 8, 015505.	0.8	5
676	Green fabrication of flexible aerogels from polypropylene fibers for heat insulation and oil/water separation. Journal of Porous Materials, 2021, 28, 617-627.	1.3	18
677	Insight into the adsorption kinetics, mechanism, and thermodynamics of methylene blue from aqueous solution onto pectin-alginate-titania composite microparticles. SN Applied Sciences, 2021, 3, 1.	1.5	26
678	Modïï¬cation and characterization of Nano cellulose crystalline from Eichhornia crassipes using citric acid: An adsorption study. Carbohydrate Polymers, 2020, 240, 116202.	5.1	20
679	Application of iron/aluminum bimetallic nanoparticle system for chromium-contaminated groundwater remediation. Chemosphere, 2020, 256, 127158.	4.2	39
680	Adsorption kinetics in removal of basic nitrogen-containing compounds from practical heavy oils by amorphous silica-alumina. Fuel, 2020, 266, 117055.	3.4	11
681	Biosorpion for sustainable recovery of precious metals from wastewater. Journal of Environmental Chemical Engineering, 2020, 8, 103996.	3.3	36
682	Magnetic ion-exchange (MIEX) resin for perfluorinated alkylsubstance (PFAS) removal in groundwater: Roles of atomic charges for adsorption. Water Research, 2020, 181, 115897.	5.3	73
683	Formation of the non-classical interhalide anion [I₂Cl]^{â^'} in methyl-bambus[6]uril cavity. New Journal of Chemistry, 2020, 44, 2697-2700.	1.4	4
684	The biosorptive uptake of enrofloxacin from synthetically produced contaminated water by tamarind seed derived activated carbon. RSC Advances, 2020, 10, 1204-1218.	1.7	21
685	Mathematical modeling and thermodynamic study of copper (II) removal from aqueous solution by Coriandrum Sativum seeds. Mediterranean Journal of Chemistry, 2018, 7, 478-490.	0.3	5
686	Adsorption of Phenol from Wastewater Using Calcined Magnesium-Zinc-Aluminium Layered Double Hydroxide Clay. Sustainability, 2020, 12, 4273.	1.6	27
687	Adsorption Isotherm and Kinetic Studies of Pentachlorophenol Removal from Aqueous Solution onto Coconut Shell-based Granular Activated Carbon. Journal of Environmental Science and Technology, 2018, 11, 68-78.	0.3	4

#	Article	IF	Citations
688	Novel adsorption model of filtration process in polycarbonate track-etched membrane: Comparative study. Environmental Engineering Research, 2020, 25, 479-487.	1.5	1
689	Adsorption of fluoride by porous adsorbents: Estimating pore diffusion coefficients from batch kinetic data. Environmental Engineering Research, 2020, 25, 645-651.	1.5	3
690	Comparison of Steel Slag and Activated Carbon for Phosphate Removal from Aqueous Solution by Adsorption. Daehan Hwan'gyeong Gonghag Hoeji, 2017, 39, 303-309.	0.4	4
691	Removal of Cd2+, Cu2+, Pb2+, Ni2+ in Aqueous Solution by Thermally Treated Sepiolite. Daehan Hwan'gyeong Gonghag Hoeji, 2019, 41, 372-380.	0.4	3
692	Carbon-containing Hydroxyapatite Obtained from Fish Bone as Low-cost Mesoporous Material for Methylene Blue Adsorption. Bulletin of Chemical Reaction Engineering and Catalysis, 2019, 14, 660-671.	0.5	14
693	A lithiated organic nanofiber-reinforced composite polymer electrolyte enabling Li-ion conduction highways for solid-state lithium metal batteries. Journal of Materials Chemistry A, 2021, 9, 23882-23890.	5.2	22
694	Monosodium glutamate-mediated hierarchical porous formation in LTA zeolite to enhance CO2 adsorption performance. Journal of Sol-Gel Science and Technology, 2021, 100, 360-372.	1.1	7
695	Highly Efficient Removal of Cu(II) Ions from Acidic Aqueous Solution Using ZnO Nanoparticles as Nano-Adsorbents. Water (Switzerland), 2021, 13, 2960.	1.2	18
696	Magnetic separation of micron-sized particles: process study and regression modelling using moving least squares and multivariable power least squares method. Chemical Engineering Communications, 0, , 1-15.	1.5	0
697	Separation of <scp>PET</scp> and <scp>PS</scp> from <scp>PET</scp>/<scp>PS</scp>/<scp>PP</scp> plastic mixture and their use in synthesis of composite floating sorbent materials for dyes removal. Journal of Chemical Technology and Biotechnology, 2022, 97, 698-708.	1.6	2
698	Poly (4,4â€²-methylenedianiline)-graphene oxide nanocomposite: synthesize and application in removal of benzothiophene from model liquid fuel. Environmental Monitoring and Assessment, 2021, 193, 737.	1.3	3
699	Rice husk hydrochars from metal chloride-assisted hydrothermal carbonization as biosorbents of organics from aqueous solution. Bioresources and Bioprocessing, 2021, 8, .	2.0	10
700	Effectivity and adsorption mechanism of food waste biochar for triclosan removal: a spectroscopic and experimental approach. Biomass Conversion and Biorefinery, 2023, 13, 11067-11083.	2.9	4
701	Uptake of aqueous heavy metal ions (HMIs) by various biomasses and non-biological materials: a mini review of adsorption capacities, mechanisms and processes. International Journal of Environmental Analytical Chemistry, 0, , 1-12.	1.8	1
702	Positive Sorption Behaviors in the Ligand Exchanges for Water-Soluble Quantum Dots and a Strategy for Specific Targeting. ACS Applied Materials & Interfaces, 2021, 13, 51746-51758.	4.0	10
703	Modeling bioaffinityâ€based targeted delivery of antimicrobials to Escherichia coli biofilms using yeast microparticles. Part I: Model development and numerical simulation. Biotechnology and Bioengineering, 2022, 119, 236-246.	1.7	2
704	Influence of Saccharomyces cerevisiae yeast cells immobilized on Cocos nucifera fibers for the adsorption of Pb(II) ions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 632, 127735.	2.3	22
705	Development and characterization of polymer-modified vermiculite composite as novel highly-efficient adsorbent for water treatment. Surfaces and Interfaces, 2021, 27, 101504.	1.5	15

#	Article	IF	Citations
706	Organic matter removal with bicarbonate-form ion exchange: water quality, kinetics and mass transfer mechanisms. Journal of Water Process Engineering, 2021, 44, 102337.	2.6	5
707	The Irish kelp, Fucus vesiculosus, a highly potential green bio sorbent for Cd (II) removal: Mechanism, quantitative and qualitative approaches. Journal of Cleaner Production, 2021, 327, 129422.	4.6	5
708	Mo₃S₁₃^{2â^'} Intercalated Layered Double Hydroxide: Highly Selective Removal of Heavy Metals and Simultaneous Reduction of Ag⁺ Ions to Metallic Ag⁰ Ribbons. Angewandte Chemie, 2022, 134, .	1.6	7
709	Developing a food waste biorefinery: Lactic acid extraction using anionic resin and impacts on downstream biogas production. Chemical Engineering Journal, 2022, 431, 133243.	6.6	12
710	Mo₃S₁₃^{2â^'} Intercalated Layered Double Hydroxide: Highly Selective Removal of Heavy Metals and Simultaneous Reduction of Ag⁺ Ions to Metallic Ag⁰ Ribbons. Angewandte Chemie - International Edition, 2022, 61, .	7.2	23
711	Hygroscopic metal-organic framework MIL-160(Al): In-situ time-dependent ATR-FTIR and gravimetric study of mechanism and kinetics of water vapor sorption. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 267, 120550.	2.0	12
712	Sono-assisted adsorption of acid violet 7 and basic violet 10 dyes from aqueous solutions: Evaluation of isotherm and kinetic parameters. Environmental Engineering Research, 2022, 27, 200287-0.	1.5	7
713	Adsorption Behaviors of Palladium Ion from Nitric Acid Solution by a Silica-based Hybrid Donor Adsorbent. Analytical Sciences, 2020, 36, 1541-1545.	0.8	2
714	Magnetic Ferrites-Based Hybrids Structures for the Heavy Metal Removal. Topics in Mining, Metallurgy and Materials Engineering, 2021, , 375-398.	1.4	0
715	Highly efficient and selective adsorption of heavy metal ions by hydrazide-modified sodium alginate. Carbohydrate Polymers, 2022, 276, 118797.	5.1	63
716	Biosynthesis of SiO2 nanoparticles using extract of Nerium oleander leaves for the removal of tetracycline antibiotic. Chemosphere, 2022, 287, 132453.	4.2	62
717	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
718	Preparation of Nanocarbon-Supported Nanofiber Fabric for Purification of Contaminated Water. Journal of Textile Engineering, 2020, 66, 7-15.	0.5	3
719	Bio-synthesize of photocatalytic Fe2O3 nanoparticles using Leucas aspera and Jatropha podagrica leaf extract for an effective removal of textile dye pollutants. Optik, 2022, 249, 168275.	1.4	13
720	Adsorption mechanisms of atrazine isolated and mixed with glyphosate formulations in soil. PLoS ONE, 2020, 15, e0242350.	1.1	5
721	Study of the adsorption of an organic pollutant onto a microporous metal organic framework. Water Science and Technology, 2021, 83, 137-151.	1.2	1
722	Core-shell nanoparticles bearing Schiff base ligand for the selective extraction of uranium from REE leach liquors. Hydrometallurgy, 2022, 208, 105780.	1.8	8
723	Synthesis of reusable cyclodextrin polymers for removal of naphthol and naphthylamine from water. Environmental Science and Pollution Research, 2022, 29, 22106-22121.	2.7	5

#	Article	IF	Citations
724	Modified Alginate Beads with Ethanol Extraction of Cratoxylum formosum and Polygonum odoratum for Antibacterial Activities. ACS Omega, 2021, 6, 32215-32230.	1.6	20
725	Kinetic and mechanism studies of tetracycline photodegradation using synthesized ZnAl2O4. Reaction Kinetics, Mechanisms and Catalysis, 2021, 134, 1039-1054.	0.8	5
726	Super-Adsorbent Hydrogels for Removal of Methylene Blue from Aqueous Solution: Dye Adsorption Isotherms, Kinetics, and Thermodynamic Properties. Macromol, 2021, 1, 256-275.	2.4	13
727	Surface Charges of Porous Coordination Cage Tune the Catalytic Reactivity of Knoevenagel Condensation. Catalysis Today, 2021, , .	2.2	5
728	Direct grafting of cellulose nanocrystals with poly(ionic liquids) via Gamma-ray irradiation and their utilization for adsorptive removal of CR. International Journal of Biological Macromolecules, 2022, 194, 1029-1037.	3.6	10
729	High performance nanoporous carbon from mulberry leaves (Morus alba L.) residues via microwave treatment assisted hydrothermal-carbonization for methyl orange adsorption: Kinetic, equilibrium and thermodynamic studies. Materialia, 2022, 21, 101288.	1.3	9
730	Sorption of oils by a commercial non-woven polypropylene sorbent. Research, Society and Development, 2021, 10, e554101422671.	0.0	2
731	Development and Characterization of Activated Carbon from Olive Pomace: Experimental Design, Kinetic and Equilibrium Studies in Nimesulide Adsorption. Materials, 2021, 14, 6820.	1.3	11
732	Composite aerogels of TEMPO-oxidized pineapple leaf pulp and chitosan for dyes removal. Separation and Purification Technology, 2022, 283, 120200.	3.9	27
733	Comparative performance analysis of different swelling kinetic models for the evaluation of shale swelling. Journal of Petroleum Exploration and Production, 2022, 12, 1237-1249.	1.2	19
734	Pollutant decontamination by polyethyleneimine-engineered agricultural waste materials: a review. Environmental Chemistry Letters, 2022, 20, 705-729.	8.3	19
735	Removal of Heavy Metal Ions from One- and Two-Component Solutions via Adsorption on N-Doped Activated Carbon. Materials, 2021, 14, 7045.	1.3	16
736	Mechanistic investigation of the mass transfer stages involved during the adsorption of aqueous lead onto Scopulariopsis brevicompactum fungal biomass. Environmental Challenges, 2021, 5, 100373.	2.0	17
737	Green synthesis of polyacrylamide/polyanionic cellulose hydrogels composited with Zr-based coordination polymer and their enhanced mechanical and adsorptive properties. Polymer Journal, 2022, 54, 515-524.	1.3	3
738	Adsorption of Acid Blue 25 on Agricultural Wastes: Efficiency, Kinetics, Mechanism, and Regeneration. Air, Soil and Water Research, 2021, 14, 117862212110574.	1.2	8
739	Green construction of eco-friendly phosphotungstic acid Sr-MOF catalysts for crystal violet removal and synthesis of coumarin and xanthene compounds. RSC Advances, 2021, 11, 37276-37289.	1.7	12
740	Direct Synthesis of Sulfur-Decorating PAMAM Dendrimer/Mesoporous Silica for Enhanced Hg(II) and Cd(II) Adsorption. Langmuir, 2022, 38, 698-710.	1.6	24
741	Roles of hydrogen bond and ion bridge in adsorption of two bisphenols onto montmorillonite: an experimental and DFT study. Applied Clay Science, 2022, 217, 106406.	2.6	17

#	Article	IF	Citations
742	Importance of spectroscopic and static gravimetric studies for exploring adsorption behavior of propan-2-ol vapor in a fixed-bed column. Chemical Engineering Research and Design, 2022, 178, 502-513.	2.7	3
743	Investigation of the influence of crosslinking activation methods on the physicochemical and Cu(II) adsorption characteristics of cellulose hydrogels. Journal of Environmental Chemical Engineering, 2022, 10, 106971.	3.3	11
744	In-situ synthesis of calcium/magnesium phosphate system for water de-fluoridation: Clay ceramic materials. Materials Chemistry and Physics, 2022, 278, 125539.	2.0	4
745	Application of boron doped diamond for electro-Fenton and photoelectro-Fenton decolorization of azo dye from dye- containing wastewater: Acid Red 1. International Journal of Electrochemical Science, 0, , ArticleID:220249.	0.5	0
746	Computational approach and ultrasound Probeâ€“Assisted synthesis of magnetic molecularly imprinted polymer for the electrochemical detection of bisphenol A. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2022, 277, 115568.	1.7	18
747	Metal-organic frameworks and their composites for the adsorption and sensing of phosphate. Coordination Chemistry Reviews, 2022, 455, 214376.	9.5	63
748	Mg-Fe LDH-coated biochars for metal(loid) removal: Surface complexation modeling and structural change investigations. Chemical Engineering Journal, 2022, 432, 134360.	6.6	22
749	A mechanistic study of ciprofloxacin adsorption by goethite in the presence of silver and titanium dioxide nanoparticles. Journal of Environmental Sciences, 2022, 118, 46-56.	3.2	4
750	Adsorption Of Methylene Blue from Aqueous Solution with Sulfuric Acid Activated Corn Cobs: Equilibrium, Kinetics, and Thermodynamics Assessment. Hittite Journal of Science & Engineering, 2020, 7, 239-256.	0.2	3
751	Kinetics and bixine extraction time from achiote (Bixa Orellana L.). Journal of Food Science and Technology, 2022, 59, 1239-1246.	1.4	3
752	Lignocellulosic Materials Used as Biosorbents for the Capture of Nickel (II) in Aqueous Solution. Applied Sciences (Switzerland), 2022, 12, 933.	1.3	6
753	Adsorption of a Cationic Dye Crystal Violet onto a Binary Mixture of Forest Waste Biopolymer: Advanced Statistical Physics Studies. Advanced Materials Research, 0, 1168, 93-113.	0.3	1
754	pH-Responsive Semi-Interpenetrated Polymer Networks of pHEMA/PAA for the Capture of Copper Ions and Corrosion Removal. ACS Applied Materials & Interfaces, 2022, 14, 7471-7485.	4.0	17
755	Modified Poly(vinylidene fluoride) by Diethylenetriamine as a Supported Anion Exchange Membrane for Lithium Salt Concentration by Hybrid Capacitive Deionization. Membranes, 2022, 12, 103.	1.4	5
756	Elimination of heavy metal Ni2+ from wastewater using Moroccan oil shale as bio sorbent. Materials Today: Proceedings, 2022, 58, 987-993.	0.9	1
757	Terephthalaldehydeâ€“Phenolic Resins as a Solid-Phase Extraction System for the Recovery of Rare-Earth Elements. Polymers, 2022, 14, 311.	2.0	10
758	Modification of glycidyl methacrylate based cryogels by cellulose nanocrystals and determination of dye adsorption performance. Cellulose, 2022, 29, 1623-1636.	2.4	9
759	Fluoride Bio-Sorption Efficiency and Antimicrobial Potency of Macadamia Nut Shells. Materials, 2022, 15, 1065.	1.3	3

#	Article	IF	Citations
760	Fate and transport of pharmaceuticals and personal care products in soils and groundwater. , 2022, , 49-82.		1
761	Selective recovery of nickel from precipitates of NCA battery cathodes through leaching process using oxalic acid. AIP Conference Proceedings, 2022, , .	0.3	1
762	Magnetic graphene oxide for methylene blue removal: adsorption performance and comparison of regeneration methods. Environmental Science and Pollution Research, 2022, 29, 30774-30789.	2.7	17
763	High-performance Zn-based coordination polymers selectively adsorb mercury ions from aqueous solutions. Journal of Cleaner Production, 2022, 337, 130551.	4.6	38
764	A tannin-polymer adsorbent created from the freezing-thawing method for removal of metal-complex acid black 172 and methylene blue from aqueous solutions. Journal of Molecular Liquids, 2022, 351, 118682.	2.3	6
765	Hydrothermally engineered Eriobotrya japonica leaves/MgO nanocomposites with potential applications in wastewater treatment. Groundwater for Sustainable Development, 2022, 16, 100728.	2.3	33
766	Individual and Competitive Adsorption of Negatively Charged Acid Blue 25 and Acid Red 1 onto Raw Indonesian Kaolin Clay. Arabian Journal for Science and Engineering, 2022, 47, 6617-6630.	1.7	17
767	Modeling of adsorption and release kinetics of methotrexate from thermo/magnetic responsive CoFe2O4â€“BaTiO3, CoFe2O4â€“Bi4Ti3O12 and Fe3O4â€“BaTiO3 core-shell magnetoelectric nanoparticles functionalized with PNIPAm. Journal of Drug Delivery Science and Technology, 2022, 68, 103121.	1.4	6
768	Effective biosorption of arsenic from water using La(III) loaded carboxyl functionalized watermelon rind. Arabian Journal of Chemistry, 2022, 15, 103674.	2.3	9
769	Engineered mesoporous biochar derived from rice husk for efficient removal of malachite green from wastewaters. Bioresource Technology, 2022, 347, 126749.	4.8	52
770	Preparation of pyridine-modified cotton fibers for anionic dye treatment. Reactive and Functional Polymers, 2022, 172, 105155.	2.0	12
771	Oxidation-Resistant Cyclodextrin-Encapsulated-MXene/Poly (N-isopropylacrylamide) composite hydrogel as a thermosensitive adsorbent for phenols. Separation and Purification Technology, 2022, 286, 120506.	3.9	15
772	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
773	Ethylene dimethacrylate used as an NH3 adsorbent with high adsorption capacity and selectivity. Chemosphere, 2022, 293, 133539.	4.2	5
774	Remediation of Astrazon blue and Lerui acid brilliant blue dyes from waste solutions using amphoteric superparamagnetic nanocomposite hydrogels based on chitosan prepared by gamma rays. Carbohydrate Polymers, 2022, 283, 119149.	5.1	22
775	Characterization of molecular dissolved organic matter removed by modified eucalyptus-based biochar and disinfection by-product formation potential using Orbitrap mass spectrometric analysis. Science of the Total Environment, 2022, 820, 153299.	3.9	10
776	CO2-responsive functional cotton fibers decorated with Ag nanoparticles for â€œsmartâ€•selective and enhanced dye adsorption. Journal of Hazardous Materials, 2022, 429, 128327.	6.5	35
777	Adsorption of Malachite Green and Pb2+ by KMnO4-Modified Biochar: Insights and Mechanisms. Sustainability, 2022, 14, 2040.	1.6	12

#	Article	IF	Citations
778	Synthesis of Fe3O4@activated carbon to treat metronidazole effluents by adsorption and heterogeneous Fenton with effluent bioassay. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 427, 113845.	2.0	40
779	Adsorption of dibenzothiophene in model diesel fuel by amarula waste biomass as a low-cost adsorbent. Journal of Environmental Management, 2022, 309, 114598.	3.8	3
780	Quantum dot based molecularly imprinted polymer test strips for fluorescence detection of ferritin. Sensors and Actuators B: Chemical, 2022, 358, 131548.	4.0	17
781	Battery Metals Adsorption on Zeolites. SSRN Electronic Journal, 0, , .	0.4	0
782	Enhanced Visible Light Photocatalytic Performance of Bandgap Engineered Sr _{0.3}(Ba,Mn) _{0.7}ZrO ₃ Perovskites Anchored on Graphene Oxide. SSRN Electronic Journal, 0, , .	0.4	0
783	Self-Driven Lithium Extraction by Directional Liquid Transport Nonwoven. SSRN Electronic Journal, 0, , .	0.4	0
784	Low-cost Y-type zeolite/carbon porous composite from coal gasification fine slag and its application in the phenol removal from wastewater: fabrication, characterization, equilibrium, and kinetic studies. RSC Advances, 2022, 12, 6715-6724.	1.7	12
785	The Adsorption of Estrogens Onto Granular Activated Carbon and the Effect of Natural Organic Matter on the Adsorption Capacity. SSRN Electronic Journal, 0, , .	0.4	0
786	Comparison of alkali modified fly ash and alkali activated fly ash as Zn(II) ions adsorbent from aqueous solution. Science of Sintering, 2022, 54, 49-58.	0.5	8
787	N-Doped Carbon Quantum Dots as Fluorescence Turn-Off-On Probe for Monitoring Ascorbic Acid Release from Sodium Alginate Capsules. SSRN Electronic Journal, 0, , .	0.4	0
788	Comments on â€œRemoval of methylene blue dye using nano zerovalent iron, nanoclay and iron impregnated nanoclay â€“ a comparative studyâ€•by M. M. Tarekegn, R. M. Balakrishnan, A. M. Hiruy and A. H. Dekebo, RSC Adv., 2021, 11, 30109. RSC Advances, 2022, 12, 5769-5771.	1.7	3
789	Insight into Efficient Removal of Phenanthrene by Fe3o4-Benzhydrylamine Nanocomposite: A Combined Experimental and Dft Studies. SSRN Electronic Journal, 0, , .	0.4	0
790	Pfas as Emerging Pollutants in the Environment: A Challenge with Fau Type and Silver-Fau Exchanged Zeolites for Their Removal from Water. SSRN Electronic Journal, 0, , .	0.4	0
791	Double network hydrogels for energy/environmental applications: challenges and opportunities. Journal of Materials Chemistry A, 2022, 10, 9215-9247.	5.2	46
792	Structural analysis and dye removal behavior of amorphous titania embedded poly(vinyl butyral) hybrid fiber. RSC Advances, 2022, 12, 5300-5311.	1.7	0
793	Removal of pollutants from aqueous media using cow dung-based adsorbents. Current Research in Green and Sustainable Chemistry, 2022, 5, 100300.	2.9	36
794	Amino-modified Mg-MOF-74: Synthesis, characterization and CO2 adsorption performance. Environmental Engineering Research, 2023, 28, 210569-0.	1.5	1
795	Advanced removal of Reactive Yellow 84 azo dye using functionalised amorphous calcium carbonates as adsorbent. Scientific Reports, 2022, 12, 3112.	1.6	16

#	Article	IF	Citations
796	Adsorption Properties and Mechanism of Attapulgite to Graphene Oxide in Aqueous Solution. International Journal of Environmental Research and Public Health, 2022, 19, 2793.	1.2	6
797	Novel Mesoporous Organosilicas with Task Ionic Liquids: Properties and High Adsorption Performance for Pb(II). Molecules, 2022, 27, 1405.	1.7	4
798	Evaluation of nano-silica, microwave heating, and ultraviolet irradiation effects on zearalenone detoxification in sunflower oils. World Mycotoxin Journal, 2022, 15, 369-381.	0.8	0
799	Polyethyleneimine-modified magnetic starch microspheres for Cd(II) adsorption in aqueous solutions. Advanced Composites and Hybrid Materials, 2022, 5, 2772-2786.	9.9	45
800	Porphyrin aluminum MOF with ultra-high water sorption capacity: In-situ time-dependent ATR-FTIR spectroscopy and gravimetry to study mechanism of water bonding and desorption. Vibrational Spectroscopy, 2022, 119, 103356.	1.2	8
801	Adsorption of Congo red and tetracycline onto water treatment sludge biochar: characterisation, kinetic, equilibrium and thermodynamic study. Water Science and Technology, 2022, 85, 1936-1951.	1.2	7
802	An overview of solid and liquid materials for adsorption-based atmospheric water harvesting. Advances in Mechanical Engineering, 2022, 14, 168781322210827.	0.8	19
803	Performance of ferroelectric visible light type II Ag10Si4O13/TiO2 heterojunction photocatalyst. Catalysis Today, 2022, 400-401, 146-158.	2.2	8
804	Efficient Heparin Recovery from Porcine Intestinal Mucosa Using Zeolite Imidazolate Framework-8. Molecules, 2022, 27, 1670.	1.7	5
805	Grafting of Thiazole Derivative on Chitosan Magnetite Nanoparticles for Cadmium Removalâ€"Application for Groundwater Treatment. Polymers, 2022, 14, 1240.	2.0	18
806	Photocatalytic Efficacy of Heterocyclic Base Grafted Chitosan Magnetite Nanoparticles on Sorption of Pb(II); Application on Mining Effluent. Catalysts, 2022, 12, 330.	1.6	10
807	Poly(vinylbenzyl Pyridinium Salts) as Novel Sorbents for Hazardous Metals Ions Removal. Molecules, 2022, 27, 1723.	1.7	3
808	Removal of Doxycycline from Water using Dalbergia sissoo Waste Biomass Based Activated Carbon and Magnetic Oxide/Activated Bioinorganic Nanocomposite in Batch Adsorption and Adsorption/Membrane Hybrid Processes. Bioinorganic Chemistry and Applications, 2022, 2022, 1-17.	1.8	15
809	Process optimization by response surface methodology-central composite design for the adsorption of lead by green synthesized TiO2 using Phyllanthus acidus extract. Biomass Conversion and Biorefinery, 2024, 14, 825-845.	2.9	3
810	Adsorptive Capacity of Calcinated Hen Eggshell Blended with Silica Gel for Removal of Lead II Ions from Aqueous Media: Kinetics and Equilibrium Studies. Journal of Environmental and Public Health, 2022, 2022, 1-16.	0.4	11
811	High removal of nitrogen and phosphorus from black-odorous water using a novel aeration-adsorption system. Environmental Chemistry Letters, 2022, 20, 2243-2251.	8.3	12
812	Competitive adsorption of heavy metals in a quaternary solution by sugarcane bagasseÂâ€“ LDPE hybrid biochar: equilibrium isotherm and kinetics modelling. Chemical Product and Process Modeling, 2023, 18, 231-246.	0.5	6
813	Removal of of toxic metal ions (Ni2+ and Cd2+) from wastewater by using TOPO decorated iron oxide nanoparticles. Applied Water Science, 2022, 12, 1.	2.8	11

#	Article	IF	Citations
814	Alginate-Bentonite Clay Composite Porous Sorbents for Cu(II) and Zn(II) Removal from Water. Water, Air, and Soil Pollution, 2022, 233, 1.	1.1	4
815	Adsorption Studies on Ag(I) Using Poly(N-phenylglycine) Membrane and Application in Practical Silver Recycling. ACS Applied Polymer Materials, 2022, 4, 3333-3342.	2.0	3
816	Sustainable Bio-Based Superabsorbent Polymer: Poly(itaconic acid) with Superior Swelling Properties. ACS Applied Polymer Materials, 2022, 4, 4098-4108.	2.0	12
817	Comparative study of PMS oxidation with Fenton oxidation as an advanced oxidation process for Co-EDTA decomplexation. Chemosphere, 2022, 300, 134494.	4.2	16
818	Preparation of a novel acrylic fiber-based hydrogel and its utilization for the removal of aqueous lead ion. Journal of Materials Research and Technology, 2022, 18, 1450-1459.	2.6	17
819	Aquatic arsenic removal with a Zr-MOF constructed via in situ nitroso coupling. Separation and Purification Technology, 2022, 288, 120700.	3.9	15
820	Effect of bi-functionalization of algal/polyethyleneimine composite beads on the enhancement of tungstate sorption: Application to metal recovery from ore leachate. Separation and Purification Technology, 2022, 290, 120893.	3.9	15
821	Adsorption of Congo red and methylene blue from aqueous solution by magnetic cobalt nanoparticles embedded in hierarchical porous carbon prepared via a one-pot approach. Solid State Sciences, 2022, 128, 106879.	1.5	6
822	Sulfonation of chitosan for enhanced sorption of Li(I) from acidic solutions â€“ Application to metal recovery from waste Li-ion mobile battery. Chemical Engineering Journal, 2022, 441, 135941.	6.6	18
823	Development of MgSO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e673" altimg="si1.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub></mml:math>/mesoporous silica composites for thermochemical energy storage: the role of porous structure on water adsorption. Energy Reports, 2022, 8, 4913-4921.	2.5	7
824	Photonic Crystal-Embedded Molecularly Imprinted Contact Lenses for Controlled Drug Release. ACS Applied Bio Materials, 2022, 5, 243-251.	2.3	14
825	Assessment of Woodchip Bioreactor Characteristics and Their Influences on Joint Nitrate and Pesticide Removal. ACS ES&T Water, 2022, 2, 106-116.	2.3	4
826	Preparation of poly (PVP/acrylamide/glycerol/bentonite clay) nanocomposite films by gamma radiation for removal of Sandolane Rubinole Acid Red 37 dye. International Journal of Environmental Analytical Chemistry, 0, , 1-20.	1.8	1
827	Enhanced Absorption of Hg2+ by a Recyclable Thiol-Functionalized Salix Psammophila. Water, Air, and Soil Pollution, 2022, 233, 1.	1.1	3
828	Modelling the kinetics of direct Cu(II) adsorption on two porous resins modified with mussel-inspired chemistry. Journal of Polymer Research, 2022, 29, 1.	1.2	1
829	Cost-Effective Adsorbents for Reduction of Conventional and Emerging Pollutants in Modified Natural Wastewater Treatment. Handbook of Environmental Chemistry, 2022, , .	0.2	0
830	Application of response surface methodology and artificial neural network for the preparation of Fe-loaded biochar for enhanced Cr(VI) adsorption and its physicochemical properties and Cr(VI) adsorption characteristics. Environmental Science and Pollution Research, 2022, 29, 60852-60866.	2.7	10
831	Installation of synergistic binding sites onto porous organic polymers for efficient removal of perfluorooctanoic acid. Nature Communications, 2022, 13, 2132.	5.8	49

#	Article	IF	Citations
832	Environmentally friendly synthesis of silicon dioxide nanoparticles and their application for the removal of emerging contaminants in aqueous media. Journal of Physics: Conference Series, 2022, 2238, 012005.	0.3	2
833	Synthesis and characterization of activated carbon from red pumpkin skin for the removal of ionic dyes. Water Practice and Technology, 0, , .	1.0	0
834	Selective lead (II) sorption using aminophosphonate-based sorbents: Effect of amine linker, characterization and sorption performance. Chemical Engineering Journal, 2022, 442, 136300.	6.6	22
836	Biochar adsorption system designs. , 2022, , 153-203.		5
838	Morphology-Controllable Graphene-Modified Cu-Benzene-1,3,5 Tricarboxylic Acid Composites for Volatile Organic Compounds and CO₂ Adsorption Property. Nano, 2022, 17, .	0.5	1
839	Fixed Bed Adsorption of Water Contaminants: A Cautionary Guide to Simple Analytical Models and Modeling Misconceptions. Separation and Purification Reviews, 2023, 52, 75-97.	2.8	9
840	Removal of Iron, Manganese, Cadmium, and Nickel Ions Using Brewersâ€™ Spent Grain. Polysaccharides, 2022, 3, 356-379.	2.1	5
841	Kinetics of micronutrients and S adsorption onto phyto-biochars: influence of pyrolysis temperatures and properties of phyto-biochars. Biomass Conversion and Biorefinery, 2024, 14, 4957-4971.	2.9	1
842	Novel iminepyridinium -modified silicas as super-adsorbents for metals ions. Applied Surface Science, 2022, 596, 153555.	3.1	6
843	Study on the cyclic adsorption performance of biomass composite membrane for Hg(II). Environmental Technology (United Kingdom), 2022, , 1-14.	1.2	2
844	Direct recovery of malate dehydrogenase from highly viscous yeast cell homogenate by a fluidized bed contactor equipped with an agitator. Biochemical Engineering Journal, 2022, 183, 108461.	1.8	0
845	Pencil graphite synergistic improvement of zero-valent iron composite for the removal of diclofenac sodium in aqueous solutions: Kinetics and comparative study. Advanced Powder Technology, 2022, 33, 103610.	2.0	1
846	Elevating the stability and adsorption performance of metal-organic frameworks by chitosan and attapulgite for capturing methylene blue in the water. Materials Today Communications, 2022, 31, 103601.	0.9	5
847	Insight into efficient removal of phenanthrene by Fe3O4-benzhydrylamine nanocomposite: A combined experimental and DFT studies. Chemical Engineering Journal, 2022, 445, 136824.	6.6	15
848	Adsorption of rutin from olive mill wastewater using copolymeric hydrogels based on N-vinylimidazole: Kinetic, equilibrium, and thermodynamics assessments. Environmental Research, 2022, 212, 113306.	3.7	6
849	Date Stone Functionalized with 3-Aminopropyltriethoxysilane as a Potential Biosorbent for Heavy Metal Ions Removal from Aqueous Solution. Chemistry Africa, 2022, 5, 745-759.	1.2	27
850	Enhanced visible light photocatalytic performance of Sr0.3(Ba,Mn)0.7ZrO3 perovskites anchored on graphene oxide. Ceramics International, 2022, 48, 24979-24988.	2.3	26
851	Carbon nanotubes derived from waste cooking oil for the removal of emerging contaminants. New Journal of Chemistry, 2022, 46, 11315-11328.	1.4	4

#	Article	IF	Citations
852	Photodegradation of Pharmaceutical Pollutants: New Photocatalytic Systems Based on 3D Printed Scaffold-Supported Ag/TiO2 Nanocomposite. Catalysts, 2022, 12, 580.	1.6	6
853	Equilibrium and Kinetic Analysis on Cadmium Ion Sequestration from Aqueous Environment by Impregnated Chicken Feather Alkaline Biosorbent. International Journal of Engineering Research in Africa, 0, 60, 15-28.	0.7	3
854	Uranium and Thorium water decontamination via novel coated Cu-based nanoparticles; the role of chemistry and environmental implications. Science of the Total Environment, 2022, 838, 156050.	3.9	5
855	Ionic liquid decorated MXene/Poly (N-isopropylacrylamide) composite hydrogel with high strength, chemical stability and strong adsorption. Chemosphere, 2022, 303, 135083.	4.2	3
856	Using ZrO2 coated sludge from drinking water treatment plant as a novel adsorbent for nitrate removal from contaminated water. Environmental Research, 2022, 212, 113410.	3.7	7
857	A simple device for simulating skin adsorption of polycyclic aromatic hydrocarbons: design and application. Environmental Science and Pollution Research, 0, , .	2.7	0
858	Functionalization of magnetic chitosan microparticles â€“ Comparison of trione and trithione grafting for enhanced silver sorption and application to metal recovery from waste X-ray photographic films. Journal of Environmental Chemical Engineering, 2022, 10, 107939.	3.3	15
859	Blood-Vessel-Inspired Hierarchical Trilayer Scaffolds: PCL/Gelatin-Driven Protein Adsorption and Cellular Interaction. Polymers, 2022, 14, 2135.	2.0	4
860	Investigation of Thermodynamic, Kinetic, and Isothermal Parameters for the Selective Adsorption of Bisphenol A. ACS Omega, 2022, 7, 18940-18952.	1.6	1
861	Hierarchical Porous Nanocellulose Aerogels Loaded with Metalâ€“Organic Framework Particles for the Adsorption Application of Heterocyclic Aromatic Amines. ACS Applied Materials & Interfaces, 2022, 14, 29131-29143.	4.0	7
862	Insights into the performance of the two contrasting dynamic adsorption platforms in the removal of gaseous benzene on microporous carbon materials. Journal of Cleaner Production, 2022, 364, 132520.	4.6	5
863	Modification of nanoscale polymeric adsorbent for the preparative separation and purification of tacrolimus from fermentation broth of Streptomyces tsukubaensis. Journal of Chromatography A, 2022, 1675, 463180.	1.8	2
864	Boron removal by glucamine-functionalized inverse vulcanized sulfur polymer. Reactive and Functional Polymers, 2022, 177, 105311.	2.0	13
865	Use of mining waste as a novel low-cost material for fluoride removal from groundwater in CKDu endemic areas of Sri Lanka. Journal of Water Process Engineering, 2022, 48, 102889.	2.6	0
866	Multiple chemical modifications and Cd²⁺ adsorption characteristics of sludge-based activated carbon. RSC Advances, 2022, 12, 18559-18571.	1.7	2
867	Ethylene Adsorption on Activated Carbon Paper Liner: A Model Kinetic Study. IOP Conference Series: Earth and Environmental Science, 2022, 1024, 012022.	0.2	2
868	Removal of ciprofloxacin and indigo carmine from water by carbon nanotubes fabricated from a low-cost precursor: Solution parameters and recyclability. Ain Shams Engineering Journal, 2023, 14, 101844.	3.5	18
869	Selective adsorption of epigallocatechin gallate onto highly reusable gallium doped mesoporous TiO2 nanoparticles adsorbent. Journal of the Indian Chemical Society, 2022, , 100576.	1.3	0

#	Article	IF	Citations
870	Synthesis of a Novel Adsorbent Based on Chitosan Magnetite Nanoparticles for the High Sorption of Cr (VI) Ions: A Study of Photocatalysis and Recovery on Tannery Effluents. Catalysts, 2022, 12, 678.	1.6	22
871	Aurocyanide adsorption onto granular activated carbon impregnated with SDS anionic surfactant. Gold Bulletin, 2022, 55, 137-143.	1.1	2
872	Application of ZIF-8 nanocomposite membrane in microbial desalination cells for simultaneous heavy metal removal and biofouling prevention. Chemosphere, 2022, 306, 135386.	4.2	6
873	Macroporous polymeric resins as a tool to obtain bioactive compounds in food and food-waste: A review. Journal of Food Composition and Analysis, 2022, 114, 104703.	1.9	11
874	Conversion of waste bottle PET to magnetic microparticles adsorbent for dye-simulated wastewater treatment. Journal of Environmental Chemical Engineering, 2022, 10, 108055.	3.3	14
875	Revisiting temperature effect on the kinetics of liquidâ€“phase adsorption by the Elovich equation: A simple tool for checking data reliability. Journal of the Taiwan Institute of Chemical Engineers, 2022, 136, 104403.	2.7	21
876	Removal of pharmaceuticals from wastewater: A review of adsorptive approaches, modelling and mechanisms for metformin and macrolides. Journal of Environmental Chemical Engineering, 2022, 10, 108106.	3.3	26
877	Supercritical carbon dioxide enhanced natural gas recovery from kerogen micropores. Journal of CO2 Utilization, 2022, 62, 102105.	3.3	5
878	Enhanced adsorption selectivity of bisphenol analogues by tuning the functional groups of covalent organic frameworks (COFs). Separation and Purification Technology, 2022, 297, 121489.	3.9	24
879	Selective strontium adsorption using synthesized sodium titanate in aqueous solution. RSC Advances, 2022, 12, 18936-18944.	1.7	10
880	Polystyrene-supported neutral lithium receptor for the recovery of high-purity LiPF₆ from simulated degraded electrolyte. Journal of Materials Chemistry A, 2022, 10, 14788-14794.	5.2	2
881	Bioinspired mineral MXene hydrogels for tensile strain sensing and radionuclide adsorption applications. Frontiers of Physics, 2022, 17, .	2.4	9
882	Synthesis and Characterization of Functionalized Chitosan Nanoparticles with Pyrimidine Derivative for Enhancing Ion Sorption and Application for Removal of Contaminants. Materials, 2022, 15, 4676.	1.3	17
883	Adsorptive removal of micron-sized polystyrene particles using magnetic iron oxide nanoparticles. Chemosphere, 2022, 307, 135672.	4.2	17
884	Stable oral lubrication enhancer obtained from thiolated polyethylene glycol and mucin. Friction, 2023, 11, 617-634.	3.4	0
885	Recycling of cotton clothing into activated carbon fibers. Carbon Letters, 2022, 32, 1315-1327.	3.3	4
886	Fe(III)â€“Chitosan Microbeads for Adsorptive Removal of Cr(VI) and Phosphate Ions. Minerals (Basel,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.8	10
887	Hierarchical porous melamine sponge@MIL-101-Fe-NH2 composite as Fenton-like catalyst for efficient and rapid tetracycline hydrochloride removal. Chemosphere, 2022, 307, 135728.	4.2	10

#	Article	IF	Citations
888	Treatability of biodiesel wastewaters by using KMnO4 and KMnO4/O3 processes and kinetic analysis. Water Science and Technology, 2022, 86, 17-28.	1.2	0
889	PFAS as emerging pollutants in the environment: A challenge with FAU type and silver-FAU exchanged zeolites for their removal from water. Journal of Environmental Chemical Engineering, 2022, 10, 108026.	3.3	11
890	Review of phenol adsorption on transition metal oxides and other adsorbents. Journal of Water Process Engineering, 2022, 49, 102965.	2.6	30
891	Graphene-based porous nanohybrid architectures for adsorptive and photocatalytic abatement of volatile organic compounds. Environmental Pollution, 2022, 309, 119805.	3.7	24
892	Separation by Size Exclusion: Selective Liquid-Phase Adsorption of <scp>l</scp>-Lysine from Lysineâ€"Glucose Mixtures on Zeolites. ACS Sustainable Chemistry and Engineering, 0, , .	3.2	3
893	Bioremoval of boron from seawater using Leucaena leucocephala seed pods. International Journal of Environmental Studies, 0, , 1-14.	0.7	0
894	Nanocomposites of Copper Trimesinate and Graphene Oxide as Sorbents for the Solid-Phase Extraction of Organic Dyes. Journal of Composites Science, 2022, 6, 215.	1.4	4
895	Cationic Dye Removal (Methylene Blue) from Aqueous Solution Using the Ecologically Friendly Alginate/Hydroxyapatite/Graphene Oxide Nanocomposite Hydrogel Beads. Water, Air, and Soil Pollution, 2022, 233, .	1.1	2
896	New Insight into the Molecular Interaction of Trace as (Iii) and As(V) Onto the Hybrid Anion Exchanger Impregnated with Fe/Mn Nanoparticles (Ha502p-Fe/Mn). SSRN Electronic Journal, 0, , .	0.4	0
897	A Study on Dye Inclusion Complex, Adsorption, and Kinetic of Silk Floss Sheet Modified with Î²â€Cyclodextrin as a Biodegradable Adsorbent. Starch/Staerke, 2022, 74, .	1.1	1
898	A gating ultramicroporous metal-organic framework showing high adsorption selectivity, capacity and rate for xylene separation. Science China Chemistry, 2022, 65, 1552-1558.	4.2	13
899	Self-driven lithium extraction by directional liquid transport nonwoven. Matter, 2022, 5, 3053-3065.	5.0	12
900	Effective phosphate removal from sewage water using zerovalent iron nanomaterial as an adsorbent. Water Quality Research Journal of Canada, 2022, 57, 177-199.	1.2	2
901	Comments on â€œremoval of methylene blue dye from aqueous solution using citric acid modified apricot stoneâ€• Chemical Engineering Communications, 0, , 1-6.	1.5	5
902	High-Performance Material for the Effective Removal of Uranyl Ion from Solution: Computationally Supported Experimental Studies. Langmuir, 2022, 38, 10098-10113.	1.6	18
903	Removal of Chromium (VI) from the Steel Mill Effluents Using the Chemically Modified Leaves of Pteris vittata as Adsorbent. Water (Switzerland), 2022, 14, 2599.	1.2	2
904	Degradation Efficiency Analysis of Sulfadiazine in Water by Ozone/Persulfate Advanced Oxidation Process. Water (Switzerland), 2022, 14, 2476.	1.2	4
905	Ecofriendly Composite as a Promising Material for Highly-Performance Uranium Recovery from Different Solutions. Toxics, 2022, 10, 490.	1.6	8

#	Article	IF	Citations
906	Synthesis of N, O-rich active site porous polymers and their efficient recovery of Gd(III) from solution. Journal of Rare Earths, 2023, 41, 1419-1428.	2.5	1
907	Delonix regia biochar potential in removing phenol from industrial wastewater. Bioresource Technology Reports, 2022, 19, 101195.	1.5	32
908	Hierarchically porous polyHIPEs fabricated via ex-situ swelling strategy towards supports for noble-metal Ag nanoparticles. Polymer, 2022, 256, 125192.	1.8	5
909	Post-tanning wastewater treatment using electrocoagulation: Optimization, kinetics, and settlement analysis. Chemical Engineering Research and Design, 2022, 165, 872-886.	2.7	9
910	Aqueous phase adsorption of aromatic organoarsenic compounds: A review. Journal of Water Process Engineering, 2022, 49, 103059.	2.6	18
911	5-Fluorouracil drug delivery system based on bacterial nanocellulose for colorectal cancer treatment: Mathematical and in vitro evaluation. International Journal of Biological Macromolecules, 2022, 220, 802-815.	3.6	7
912	Application of magnesium ferrite nanomaterials for adsorptive removal of arsenic from water: Effects of Mg and Fe ratio. Chemosphere, 2022, 307, 135817.	4.2	17
913	Fabrication of Uio-66-NH2 with 4,6-Diamino-2-mercaptopyrimidine facilitate the removal of Pb2+ in aqueous medium: Nitrogen and sulfur act as the main adsorption sites. Fuel Processing Technology, 2022, 236, 107431.	3.7	6
914	Optimized adsorption and effective disposal of Congo red dye from wastewater: Hydrothermal fabrication of MgAl-LDH nanohydrotalcite-like materials. Arabian Journal of Chemistry, 2022, 15, 104171.	2.3	16
915	A carbazole-based spherical microporous polymer for the solid-phase extraction of chlorophenols from water and honey samples. Food Chemistry, 2023, 398, 133855.	4.2	3
916	Performance analysis of kinetic models in predicting asphaltene precipitation rate under different conditions of temperature and percentage of precipitant molecular weight. Arabian Journal of Geosciences, 2022, 15, .	0.6	0
917	Removal of Pb (II) from aqueous solutions by new layered double hydroxides adsorbent MgCuCaAl-LDH: Free Gibbs energy, entropy and internal energy studies. Inorganic Chemistry Communication, 2022, 144, 109910.	1.8	5
918	Engineered biochar prepared using a self-template coupled with physicochemical activation for highly efficient adsorption of crystal violet. Journal of the Taiwan Institute of Chemical Engineers, 2022, 139, 104533.	2.7	12
919	Adsorption behavior and mechanism for Pb(II) and Cd(II) by silica anchored salicylaldehyde modified polyamidoamine dendrimers. Journal of the Taiwan Institute of Chemical Engineers, 2022, 139, 104525.	2.7	5
920	Functionalization of poly(glycidylmethacrylate) with iminodiacetate and imino phosphonate groups for enhanced sorption of neodymium - sorption performance and molecular modeling. Reactive and Functional Polymers, 2022, 180, 105389.	2.0	5
921	Weed to nano seeds: Ultrasonic assisted one-pot fabrication of superparamagnetic magnetite nano adsorbents from Siam weed flower extract for the removal of lead from water.. Journal of Hazardous Materials Advances, 2022, 8, 100163.	1.2	3
922	Synthesis and characterization of noble hydrogel beads of amino functionalized reduced graphene oxide for selective extraction of gold from electronic waste. Materials Today Communications, 2022, 33, 104371.	0.9	2
923	Photocatalytic performance for palm-fiber-like SnS2 nanoflakes with full solar spectrum light response. Applied Surface Science, 2022, 605, 154642.	3.1	8

#	Article	IF	Citations
924	Hypercrosslinked waste polymers as adsorbents for O2/N2 separation. Materials Chemistry and Physics, 2022, 292, 126779.	2.0	9
925	3D-printed PEGDA monolith with robust silane-grafted chitosan for enhanced textile wastewater treatment. Journal of Environmental Chemical Engineering, 2022, 10, 108581.	3.3	16
926	An overview of equilibrium, kinetic and thermodynamic studies for the sequestration of Maxilon dyes. Cleaner Materials, 2022, 6, 100148.	1.9	10
927	N-Doped Carbon Quantum Dots as Fluorescence Turn-Off-On Probe for Monitoring Ascorbic Acid Release from Sodium Alginate Capsules. SSRN Electronic Journal, 0, , .	0.4	0
928	Synthesis of Functionalized Pamam Dendrimer/Apple Residue Bioadsorbents for Removal of Aqueous Hg(Ii). SSRN Electronic Journal, 0, , .	0.4	0
929	In-Situ Growth of 2d Magnesium Hydroxide on Zirconium-Based Metal Organic Frameworks for Phosphate Removal: An Experimental and Theoretical Exploration of Adsorption Behavior. SSRN Electronic Journal, 0, , .	0.4	0
930	Automatic Validation and Analysis of Predictive ModelsÂBy Means of Big Data and Data Science. SSRN Electronic Journal, 0, , .	0.4	1
931	Surface-Functionalized Maghemite Nanoparticles for Enhanced Extraction of Uranium from Water. SSRN Electronic Journal, 0, , .	0.4	0
932	Photocatalytic Performance for Palm-Fiber-Like Sns2 Nanoflakes with Full Solar Spectrum Light Response. SSRN Electronic Journal, 0, , .	0.4	0
933	Kinetic models and thermodynamics of adsorption processes: classification. Interface Science and Technology, 2022, , 65-97.	1.6	18
934	Tunning active oxygen species for boosting Hg0 removal and SO2-resistance of Mn-Fe oxides supported on (NH4)2S2O8 doping activated coke. Journal of Hazardous Materials, 2023, 441, 129882.	6.5	7
935	UO22+ capture using amidoxime grafting low-cost activated carbon (AO-AC) from solution: Adsorption kinetic, isotherms and interaction mechanism. Inorganica Chimica Acta, 2023, 544, 121226.	1.2	3
936	Removal of heavy metals from industrial effluent by development of TiO₂/AC nanosorbent. International Journal of Environmental Analytical Chemistry, 0, , 1-24.	1.8	2
937	Removal of Azo Dye Carmoisine by Adsorption Process on Diatomite. Adsorption Science and Technology, 2022, 2022, .	1.5	6
938	Adsorption of Cr(VI) by lanthanum oxide-loaded porous mulliteâ€“corundum ceramics. Functional Materials Letters, 0, , .	0.7	0
939	Inorganic resins enable the increased purification efficiency of 82Sr from rubidium targets for use in PET imaging isotope production. Journal of Radioanalytical and Nuclear Chemistry, 0, , .	0.7	0
940	Highly performant nanocomposite cryogels for multicomponent oily wastewater filtration. Separation and Purification Technology, 2022, 303, 122252.	3.9	11
941	Rare earth metal as a dopant element: Cerium ion as an articulator in hexavalent chromium removal by magnetic iron oxides. Journal of Rare Earths, 2023, 41, 1616-1626.	2.5	2

#	Article	IF	Citations
942	Efficient removal of crystal violet from solution by montmorillonite modified with docosyl-trimethylammonium chloride and sodium dodecyl sulfate: modelling, kinetics and equilibrium studies. Clay Minerals, 0, , 1-14.	0.2	0
943	Synthesis of the LaCoO₃, SrCoO₃ and La_{0.7}Sr_{0.3}CoO₃ materials by the modified proteic method and tests for use as adsorbent. International Journal of Materials Research, 2022, 113, 871-883.	0.1	1
944	Kinetic and thermodynamic study in piezo degradation of methylene blue by SbSI/Sb2S3 nanocomposites stimulated by zirconium oxide balls. Scientific Reports, 2022, 12, .	1.6	11
945	In-situ growth of 2D magnesium hydroxide on zirconium-based metal organic frameworks for phosphate removal: An experimental and theoretical exploration of adsorption behavior. Separation and Purification Technology, 2023, 304, 122289.	3.9	7
946	Enhanced biosorption of europium and cesium ions from aqueous solution onto phalaris seed peel as environmental friendly biosorbent: Equilibrium and kinetic studies. Applied Radiation and Isotopes, 2022, 190, 110498.	0.7	5
947	Pencil graphite supported nano zero-valent iron for removal of levofloxacin from aqueous solution: Effects of pH, kinetic and biological activity. Arabian Journal of Chemistry, 2022, 15, 104309.	2.3	3
948	Synthesis, characterization and cation exchange performance of chemically modified pineapple waste biomass for the removal of Fe(II) from water. Results in Chemistry, 2022, 4, 100608.	0.9	0
949	Multiwalled carbon nanotubes versus metal-organic frameworks: a review of their hexavalent chromium adsorption performance. International Journal of Environmental Analytical Chemistry, 0, , 1-23.	1.8	4
950	Why Is the Linearized Form of Pseudo-Second Order Adsorption Kinetic Model So Successful in Fitting Batch Adsorption Experimental Data?. Colloids and Interfaces, 2022, 6, 55.	0.9	15
951	Comprehensive performance analysis of kinetic models used to estimate asphaltene adsorption kinetics on nanoparticles. Chemical Papers, 2023, 77, 1017-1031.	1.0	1
952	Fabrication of sodium alginate-melamine@ZIF-67 composite hydrogel and its adsorption application for Pb(II) in wastewater. Environmental Science and Pollution Research, 2023, 30, 18364-18379.	2.7	4
953	Efficient and Economic Heparin Recovery from Porcine Intestinal Mucosa Using Quaternary Ammonium-Functionalized Silica Gel. Bioengineering, 2022, 9, 606.	1.6	2
954	Characterization of microspheres Î³-AlOOH and the excellent removal efficiency of Congo red. Journal of Physics and Chemistry of Solids, 2023, 174, 111043.	1.9	6
955	Highly efficient and fast adsorption of Au(<scp>III</scp>) and Pd(<scp>II</scp>) by crosslinked polyethyleneimineâ€glutaraldehyde. AICHE Journal, 2023, 69, .	1.8	5
956	Modeling the Liquid Fuel Desulfurization Efficiency of Activated Carbons before and after Chemical Treatment: The Competitive Role of Mono- and Diaromatics. Industrial & Engineering Chemistry Research, 0, , .	1.8	1
957	Polyethyleneimine modified activated carbon for high-efficiency adsorption of copper ion from simulated wastewater. Water Science and Technology, 2022, 86, 2465-2481.	1.2	0
958	A Two-Sorbent System for Fast Uptake of Arsenate from Water: Batch and Column Studies. Water Research, 2022, , 119290.	5.3	1
959	Chitosan beads coated with almond and walnut shells for the adsorption of gatifloxacin antibiotic compound from aqueous solutions. Environmental Science and Pollution Research, 2023, 30, 23553-23567.	2.7	1

#	Article	IF	Citations
960	Effect of different wastewater composition on kinetics, capacities, and mechanisms of phosphorus sorption by carbonated bauxite residue. Journal of Environmental Chemical Engineering, 2022, 10, 108922.	3.3	2
961	Exploring the Use of Tobacco Waste as a Metal Ion Adsorbent and Substrate for Sulphate-Reducing Bacteria during the Treatment of Acid Mine Drainage. Sustainability, 2022, 14, 14333.	1.6	5
962	Green remediation of cadmium-contaminated soil by cellulose nanocrystals. Journal of Hazardous Materials, 2023, 443, 130312.	6.5	8
963	Removal of cod from real textile wastewater using three low-cost adsorbents - its kinetic models and adsorption isotherms. International Journal of Environmental Analytical Chemistry, 0, , 1-15.	1.8	1
964	Effective treatment of high-concentration SDBS solution by developing a novel integrated technology of foam separation and photocatalysis. Journal of Environmental Chemical Engineering, 2022, 10, 108811.	3.3	5
965	Mesoporous halloysite nanotubes as nano-support system for cationic dyes: An equilibrium, kinetic and thermodynamic study for latent fingerprinting. Microporous and Mesoporous Materials, 2022, 346, 112288.	2.2	6
966	Characteristics, application and modeling of solid amine adsorbents for CO2 capture: A review. Journal of Environmental Management, 2023, 325, 116438.	3.8	23
967	Functionalized maghemite nanoparticles for enhanced adsorption of uranium from simulated wastewater and magnetic harvesting. Environmental Research, 2023, 216, 114569.	3.7	15
968	Adsorption performance of Enterobacter cloacae towards U(VI) ion and application of Enterobacter cloacae/carbon nanotubes to preconcentration and determination of low-levels of U(VI) in water samples. Chemosphere, 2023, 311, 136804.	4.2	18
969	Denitrification of nitrate in regeneration waste brine using hybrid cation exchanger supported nanoscale zero-valent iron with/without palladium nanoparticles. Chemosphere, 2023, 310, 136851.	4.2	5
970	Insight into the molecular interaction of trace As (III) and As(V) onto the hybrid anion exchanger impregnated with Fe/Mn nanoparticles (HA502P-Fe/Mn). Chemical Engineering Journal, 2023, 454, 139991.	6.6	7
971	Chitosan-poly(m-phenylenediamine) membrane for efficient gold recovery from acidic aqueous solution. New Journal of Chemistry, 0, , .	1.4	0
972	Comparative study for removal of phosphorus from aqueous solution by natural and activated bentonite. Scientific Reports, 2022, 12, .	1.6	8
973	A fungal-modified material with high uranium (VI) adsorption capacity and strong anti-interference ability. Environmental Science and Pollution Research, 2023, 30, 26752-26763.	2.7	3
974	Evaluation of the use of biochar to stabilize polycyclic aromatic hydrocarbons and phthalates in sediment. Environmental Pollution, 2023, 317, 120644.	3.7	3
975	Adsorption kinetics of acetic acid into ZnO/castor oil-derived polyurethanes. Journal of Colloid and Interface Science, 2023, 632, 74-86.	5.0	10
976	Partitioning pattern of metals onto sediment particles in shallow lakes: an exponential decrease with increased particle size and its environmental implications. Journal of Soils and Sediments, 0, , .	1.5	0
977	Influence of different chaotropic salts on etched mesoporous silica nanoparticles for the removal of bacteria DNA conveying antibiotic resistance genes from hospital wastewater. Journal of Cleaner Production, 2022, 381, 135157.	4.6	1

#	Article	IF	Citations
978	Enhancement of Cerium Sorption onto Urea-Functionalized Magnetite Chitosan Microparticles by Sorbent Sulfonationâ€"Application to Ore Leachate. Molecules, 2022, 27, 7562.	1.7	4
979	Automatic validation and analysis of predictive models by means of big data and data science. Chemical Engineering Journal, 2023, 454, 140149.	6.6	6
980	Synthesis and characterization of metal oxide based ion exchanger from chicken egg shell biomass for the removal of arsenic from water. Sustainable Chemistry and Pharmacy, 2022, 30, 100870.	1.6	5
981	Fabrication of modified carbon nano tubes based composite using ionic liquid for phenol removal. Molecular Catalysis, 2022, 533, 112792.	1.0	3
982	Removal of boron from water by batch adsorption onto bovine bone char: optimization, kinetics and equilibrium. International Journal of Environmental Science and Technology, 2023, 20, 9423-9440.	1.8	6
983	Kinetics of bitumen extraction from oil sands using organic solvents. Canadian Journal of Chemical Engineering, 2023, 101, 4692-4699.	0.9	0
984	The kinetics of heparin adsorption with Dowex 1x1 ion exchange resin. Food Science and Technology, 0, 42, .	0.8	0
985	pH-responsive hollow core zeolitic-imidazolate framework-8 as an effective drug carrier of 5-fluorouracil. Materials Today Chemistry, 2023, 27, 101277.	1.7	2
986	Fabrication of Fe-doped lithium-aluminum-layered hydroxide chloride with enhanced reusable stability inspired by computational theory and its application in lithium extraction. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 658, 130641.	2.3	7
987	Catecholâ€'iron-clay surface complexation enriches radical formation and efficiency in heterogeneous Fenton reactions. Applied Clay Science, 2023, 232, 106802.	2.6	2
988	Removal of p-nitrophenol by double-modified nanoscale zero-valent iron with biochar and sulfide: Key factors and mechanisms. Journal of Water Process Engineering, 2023, 51, 103398.	2.6	7
989	Performance of graphene Oxide/SiO2 Nanocomposite-based: Antibacterial Activity, dye and heavy metal removal. Arabian Journal of Chemistry, 2023, 16, 104450.	2.3	18
990	A comparative study of adsorption behavior of rifampicin, streptomycin, and ibuprofen contaminants from aqueous solutions onto chitosan: Dynamic interactions, kinetics, diffusions, and mechanisms. Emerging Contaminants, 2023, 9, 100199.	2.2	18
991	A critical review on the interaction of polymer particles and co-existing contaminants: Adsorption mechanism, exposure factors, effects on plankton species. Journal of Hazardous Materials, 2023, 445, 130463.	6.5	19
992	Bioassay-guided preparation of antioxidant, anti-inflammatory active fraction from crabapples (Malus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	4.2	1
993	Synthesis of Spherical Composite CMC-LTO-EGDE-ME for Lithium Recovery from Geothermal Water. Journal of Chemistry, 2022, 2022, 1-11.	0.9	2
994	Solid-Phase Extraction of Organic Dyes on Mixed-Ligand Zr(IV) Metalâ€"Organic Framework. Applied Sciences (Switzerland), 2022, 12, 12219.	1.3	1
995	Adsorption mechanism and modeling of radionuclides and heavy metals onto ZnO nanoparticles: a review. Applied Water Science, 2023, 13, .	2.8	27

#	Article	IF	Citations
996	A Comparison Study on Defluoridation Capabilities Using Syzygium cumini and Psidium guajava: Process Optimization, Isotherm, Kinetic, Reusability Studies. Water (Switzerland), 2022, 14, 3939.	1.2	0
997	Green Synthesis of Hierarchically Porous Alginate/ZIFâ€8 Composite Beads for Water Treatment. ChemNanoMat, 2023, 9, .	1.5	2
998	Efficient Adsorption of Tl(I) from Aqueous Solutions Using Al and Fe-Based Water Treatment Residuals. Processes, 2022, 10, 2700.	1.3	0
999	Ibuprofen removal using activated carbon from acid-modified Acacia sawdust. Energy, Ecology and Environment, 0, , .	1.9	1
1000	Developments in Adsorption Technologies for Removal of Heavy Metals, Dyes, and Xenobiotics. , 2022, , 81-113.		0
1001	Adsorption behavior of polyamide microplastics as a vector of the cyanotoxin microcystin-LR in environmental freshwaters. Journal of Hazardous Materials, 2023, 446, 130683.	6.5	9
1002	The Chemically Modified Leaves of Pteris vittata as Efficient Adsorbent for Zinc (II) Removal from Aqueous Solution. Water (Switzerland), 2022, 14, 4039.	1.2	2
1003	Low-cost zeolite-based sorbents prepared from industrial perlite by-product material for Zn2+ and Ni2+ removal from aqueous solutions: synthesis, properties and sorption efficiency. Heliyon, 2022, 8, e12029.	1.4	2
1004	Bisâ€Catecholamideâ€Based Materials for Uranium Extraction. ChemPlusChem, 2023, 88, .	1.3	0
1005	Role of the Number of Adsorption Sites and Adsorption Dynamics of Diffusing Particles in a Confined Liquid with Langmuir Kinetics. Physchem, 2023, 3, 1-12.	0.5	0
1006	Preparation of a silk fibroin/gelatin composite hydrogel for high-selectively adsorbing bovine hemoglobin. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, , 130869.	2.3	3
1007	Magnetic Nanocomposites of Coated Ferrites/MOF as Pesticide Adsorbents. Molecules, 2023, 28, 39.	1.7	5
1008	Bioremoval of rhodamine B dye from aqueous solution by using agricultural solid waste (almond) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2	2.9	14
1009	Zeolite Adsorbents for Selective Removal of Co(II) and Li(I) from Aqueous Solutions. Water (Switzerland), 2023, 15, 270.	1.2	9
1010	Recovery of nickel octaethylporphyrin multilayers from bituminous extracts using low cost adsorbent. Chemical Engineering Research and Design, 2023, 191, 27-37.	2.7	1
1012	Sustainable Recovery of Cobalt from Aqueous Solutions Using an Optimized Mesoporous Carbon. Journal of Sustainable Metallurgy, 2023, 9, 266-279.	1.1	4
1013	Removal of Brilliant Green Dye from Water Using Ficus benghalensis Tree Leaves as an Efficient Biosorbent. Materials, 2023, 16, 521.	1.3	12
1014	Self-intercepting interference of hydrogen-bond induced flexible hybrid film to facilitate lithium extraction. Chemical Engineering Journal, 2023, 458, 141403.	6.6	11

#	Article	IF	Citations
1015	A critical review of adsorption isotherm models for aqueous contaminants: Curve characteristics, site energy distribution and common controversies. Journal of Environmental Management, 2023, 329, 117104.	3.8	47
1016	Glutaraldehyde fixation promotes palladium and gold nanoparticles formation in yeast and enhances their catalytic activity in 4-nitrophenol reduction. Journal of Hazardous Materials, 2023, 446, 130696.	6.5	6
1017	Kinetic and Equilibrium Isotherm Studies for the Removal of Tetracycline from Aqueous Solution Using Engineered Sand Modified with Calcium Ferric Oxides. Environments - MDPI, 2023, 10, 7.	1.5	8
1018	Tunable sulphur doping in CuFe₂O₄ for the efficient removal of arsenic through arsenomolybdate complex adsorption: kinetics, isothermal and mechanistic studies. Environmental Science: Water Research and Technology, 2023, 9, 1147-1160.	1.2	4
1019	Fe3O4 supported UiO-66 (Zr) metalâ€“organic framework for removal of drug contaminants from water: fuzzy logic modeling approach. Environmental Science and Pollution Research, 0, , .	2.7	0
1020	Sorption of U(VI) on farming and natural soils from northwest China. Journal of Radioanalytical and Nuclear Chemistry, 0, , .	0.7	0
1021	Papaya peel waste carbon dots/reduced graphene oxide nanocomposite: From photocatalytic decomposition of methylene blue to antimicrobial activity. Journal of Bioresources and Bioproducts, 2023, 8, 162-175.	11.8	15
1022	Adsorptive removal of antibiotic pollutants from wastewater using biomass/biochar-based adsorbents. RSC Advances, 2023, 13, 4678-4712.	1.7	27
1023	Predictive Model Based on K-Nearest Neighbor Coupled with the Gray Wolf Optimizer Algorithm (KNN_GWO) for Estimating the Amount of Phenol Adsorption on Powdered Activated Carbon. Water (Switzerland), 2023, 15, 493.	1.2	12
1024	Predicting Cu(II) Adsorption from Aqueous Solutions onto Nano Zero-Valent Aluminum (nZVAl) by Machine Learning and Artificial Intelligence Techniques. Sustainability, 2023, 15, 2081.	1.6	18
1025	Brilliant Green Biosorption from Aqueous Solutions on Okara: Equilibrium, Kinetic and Thermodynamic Studies. Journal of Water and Environment Technology, 2023, 21, 30-40.	0.3	1
1026	Optimization of microwave assisted synthesis of activated carbon from biomass waste for sustainable industrial crude wet-phosphoric acid purification. Journal of Cleaner Production, 2023, 394, 136326.	4.6	16
1027	Efficient photocatalytic degradation of high-concentration moxifloxacin over dodecyl benzene sulfonate modified graphitic carbon nitride: Enhanced photogenerated charge separation and pollutant enrichment. Journal of Cleaner Production, 2023, 393, 136320.	4.6	65
1028	Rational fabrication of completely amorphous chitosan-formyl-sucrose sorbents with excellent durability and regenerability for high-throughput dye removal. Chemical Engineering Journal, 2023, 461, 142134.	6.6	7
1029	Superabsorbent polymer used for saline-alkali soil water retention. Journal of the Taiwan Institute of Chemical Engineers, 2023, 145, 104830.	2.7	5
1030	Micropore sites in ferrihydrite are responsible for its higher affinity towards As(III) relative to As(V). Geochimica Et Cosmochimica Acta, 2023, 348, 27-40.	1.6	8
1031	Investigating bisulfide sorption onto bentonite through laboratory batch experiments. Applied Geochemistry, 2023, 152, 105626.	1.4	0
1032	Two-dimensional acetate-based light lanthanide fluoride nanomaterials: An ultrahigh adsorption capacity and salt-tolerance endowed by surface acetates exchange. Applied Surface Science, 2023, 621, 156842.	3.1	2

#	Article	IF	Citations
1033	A novel S,N-rich MOF for efficient recovery of Au(III): Performance and mechanism. Journal of Hazardous Materials, 2023, 451, 131051.	6.5	13
1034	New insight into desorption behavior and mechanism of oil from aged oil-contaminated soil in microemulsion. Journal of Hazardous Materials, 2023, 451, 131108.	6.5	5
1035	pH-equilibration of human hair: Kinetics and pH-dependence of the partition ratios for HÂâ^'Âand OH -ions based on a Freundlich isotherm. Biophysical Chemistry, 2023, 297, 107010.	1.5	0
1036	Corrosion inhibition effect of 1-phenyl-5-mercaptotetrazole on nickel-aluminum bronze in seawater: A combined experimental and theoretical study. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 666, 131354.	2.3	7
1037	Adsorption of diclofenac onto Fe2O3-pillared montmorillonite: Equilibrium, kinetics and thermodynamic studies. Journal of Molecular Liquids, 2023, 380, 121725.	2.3	3
1038	Enhanced fluoride removal from groundwater using red and white kaolinite lithomarge to develop a low cost eco-friendly defluoridation unit in rural areas of Shilabati river basin, West Bengal. Journal of Water Process Engineering, 2023, 53, 103698.	2.6	1
1039	Adsorption data modeling and analysis under scrutiny: A clarion call to redress recently found troubling flaws. Chemical Engineering Research and Design, 2023, 192, 371-388.	2.7	5
1040	Modified chitosan adsorbents in pharmaceutical simulated wastewaters: A review of the last updates. Carbohydrate Polymer Technologies and Applications, 2023, 5, 100313.	1.6	3
1041	Microwave activated and iron engineered biochar for arsenic adsorption: Life cycle assessment and cost analysis. Journal of Environmental Chemical Engineering, 2023, 11, 109904.	3.3	8
1042	Separation of toxic contaminants from water by silica aerogel-based adsorbents: A comprehensive review. Journal of Water Process Engineering, 2023, 53, 103676.	2.6	7
1043	Enhancement of the intrinsic fluorescence of ZIF-8 via post-synthetic cation exchange with Cd2+ and its incorporation into PDMS films for selective sulfide optical sensing. Materials Today Chemistry, 2023, 28, 101366.	1.7	1
1044	Study of the tunable mechanical and swelling properties of magnetic sensitive calcium alginate nanocomposite hydrogels. Rheologica Acta, 2023, 62, 157-170.	1.1	0
1045	Effective biosorption of As(V) from polluted water using Fe(III)-modified Pomelo (Citrus maxima) peel: A batch, column, and thermodynamic study. Heliyon, 2023, 9, e13465.	1.4	1
1046	Polyethylenimine-Crosslinked 3-Aminopropyltriethoxysilane-Grafted Multiwall Carbon Nanotubes for Efficient Adsorption of Reactive Yellow 2 from Water. International Journal of Molecular Sciences, 2023, 24, 2954.	1.8	1
1047	Evaluation of Dithiocarbamate-Modified Silica for Cisplatin Removal from Water. Processes, 2023, 11, 472.	1.3	1
1048	Carbonate treated coffee powder (CTCP) for selective sorption of Pu4+ over Am3+, Np4+, NpO22+, and PuO22+ from aqueous acidic solution: Investigation on mechanism, kinetics, thermodynamics, stripping and radiolytic stability. Applied Radiation and Isotopes, 2023, 194, 110695.	0.7	0
1049	Removal of phenol by lignin-based activated carbon as an efficient adsorbent for adsorption of phenolic wastewater. Research on Chemical Intermediates, 2023, 49, 2209-2232.	1.3	6
1050	Microporous melamine-formaldehyde networks loaded on rice husks for dynamic removal of organic micropollutants. Environmental Pollution, 2023, 322, 121200.	3.7	1

#	Article	IF	Citations
1051	On validity, physical meaning, mechanism insights and regression of adsorption kinetic models. Journal of Molecular Liquids, 2023, 376, 121416.	2.3	43
1052	Fluoride ion adsorption isotherms, kinetics, and thermodynamics on iron(III) oxyhydroxide powders containing cellulose nanofibrils. Environmental Science and Pollution Research, 2023, 30, 48201-48210.	2.7	4
1053	Hydrothermal-assisted synthesis and characterization of MWCNT/copper oxide nanocomposite for the photodegradation of methyl orange under direct sunlight. Diamond and Related Materials, 2023, 134, 109778.	1.8	4
1054	A Zr-based coordination polymer for detection and adsorption of fluoride in water. Polymer Bulletin, 2024, 81, 335-350.	1.7	0
1055	Trihalide-included (I2, Br2 and IBrClâ^') bambus[6]urils in halogenation and iodine-catalysed reactions. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2023, 103, 81-87.	0.9	0
1056	Used Filter Cartridges as Potential Adsorbents of Organic Pollutants. Water (Switzerland), 2023, 15, 714.	1.2	3
1057	Adsorption of Pb, Cu and Cd from Water on Coal Fly Ash-Red Mud Modified Composite Material: Characterization and Mechanism. Water (Switzerland), 2023, 15, 767.	1.2	3
1058	Genetic algorithm-assisted artificial neural network modelling for remediation and recovery of Pb (II) and Cr(VI) by manganese and cobalt spinel ferrite super nanoadsorbent. Chemosphere, 2023, 321, 138162.	4.2	6
1059	Multifunctional Chitosan/Xylan-Coated Magnetite Nanoparticles for the Simultaneous Adsorption of the Emerging Contaminants Pb(II), Salicylic Acid, and Congo Red Dye. Water (Switzerland), 2023, 15, 829.	1.2	4
1060	Synthesis and Performance Evaluation of Novel Bentonite-Supported Nanoscale Zero Valent Iron for Remediation of Arsenic Contaminated Water and Soil. Molecules, 2023, 28, 2168.	1.7	4
1061	Chitosan derived layered porous carbon and its performance on gallium adsorption. Journal of Chemical Technology and Biotechnology, 0, , .	1.6	1
1062	A facile one-step green hydrothermal synthesis of paramagnetic Fe3O4 nanoparticles with highly efficient dye removal. Journal of the Taiwan Institute of Chemical Engineers, 2023, 144, 104774.	2.7	12
1063	Novel cationic surfactants: synthesis, surface, antimicrobial studies and applicability as an extracting agent for interested element from monazite mineral concentrate. Tenside, Surfactants, Detergents, 2023, 60, 140-159.	0.5	0
1064	Naphthenic Acids Removal from Model Transformer Oil by Diethylamine Modified Resins. Molecules, 2023, 28, 2444.	1.7	0
1065	Comparative effect of mesoporous carbon doping on the adsorption of pharmaceutical drugs in water: Theoretical calculations and mechanism study. Environmental Toxicology and Pharmacology, 2023, 99, 104105.	2.0	5
1066	Brownian motion of poly(divinylbenzene) nanoparticles in water. Journal of Applied Physics, 2023, 133, 114303.	1.1	0
1067	Characterization of Cellulose/Polyvinyl Alcohol/Expanded Graphite 3D Porous Foam and Adsorption of Methylene Blue. Journal of Natural Fibers, 2023, 20, .	1.7	3
1068	Synthesis, characterization, and evaluation of thiocarbazide-functionalized maleic-based polymer for thorium (IV) removal from aqueous solutions. Chemical Engineering Journal, 2023, 464, 142638.	6.6	9

#	Article	IF	Citations
1069	Multifunctional TiO2/MIL-100(Fe) to conduct adsorption, photocatalytic, and heterogeneous photo-Fenton reactions for removing organic dyes. Journal of the Taiwan Institute of Chemical Engineers, 2023, , 104850.	2.7	6
1070	Roll-to-Roll Processing of Hybrid MOF and Nylon Membranes for High Efficiency Removal of Toxic Gases, Heavy Metals, and Dyes. , 0, , .		0
1071	Hydrophilic imprinted MnO2 nanowires â€œcoatingâ€•membrane with ultrahigh adsorption capacity for highly selective separation of Artemisinin/Artemether. Chemical Engineering Journal, 2023, 466, 143020.	6.6	4
1072	Potencial de resÃduo nÃ£o processado proveniente da obtenÃ§Ã£o do silÃcio metÃ¡lico como adsorvente do corante vermelho de metila. Revista Materia, 2023, 28, .	0.1	0
1073	The adsorption activity and mechanism of common tourmalines for typical anionic and cationic dyes. Chemical Physics, 2023, 571, 111938.	0.9	3
1074	Selecting an optimum kinetic model for gasâ€“solid adsorption based on statistical approaches and a model selection criterion. Applied Thermal Engineering, 2023, 229, 120581.	3.0	2
1075	Modelling of Catechin Extraction from Red Grape Solids under Conditions That Simulate Red Wine Fermentation. Fermentation, 2023, 9, 394.	1.4	0
1079	Potential Application of Biological Treatment Methods in Textile Dyes Removal. , 2023, , 137-180.		0
1144	Impact of Production Pathway on Nanoporosity of Carbonaceous Sorbents for CO₂ Adsorption. , 2023, , .		0
1211	Biological Method of Heavy Metal Management: Biosorption and Bioaccumulation. ACS Symposium Series, 0, , 315-360.	0.5	0
1253	Unraveling the Adsorption Process of Cd2+ on Bio-Adsorbents: Experimental and Theoretical Points of View. , 2024, , 297-326.		0