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Adsorption of chromium (VI) by ethylenediamine-modified cross-linked magnetic chitosan resin: isotherms, kinetics and thermodynamics

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#	Paper	IF	Citations
681	Study of Glutamate-Modified Cellulose Beads for Cr(III) Adsorption by Response Surface Methodology. <b>2011</b> , 50, 10784-10791		22
680	Preparation of macroporous bead adsorbents based on poly(vinyl alcohol)/chitosan and their adsorption properties for heavy metals from aqueous solution. <i>Chemical Engineering Journal</i> , <b>2011</b> , 178, 60-68	14.7	125
679	Remediation of phenol-contaminated water by adsorption using poly(methyl methacrylate) (PMMA). <i>Chemical Engineering Journal</i> , <b>2011</b> , 168, 691-699	14.7	86
678	Biosorption of toxic chromium from aqueous phase by lignin: mechanism, effect of other metal ions and salts. <i>Chemical Engineering Journal</i> , <b>2011</b> , 169, 20-30	14.7	122
677	Preparation of ethylenediamine-modified magnetic chitosan complex for adsorption of uranyl ions. <b>2011</b> , 84, 1169-1175		120
676	Retention of toxic chromium from aqueous phase by H <sub>3</sub> PO <sub>4</sub> -activated lignin: Effect of salts and desorption studies. <b>2011</b> , 274, 64-73		41
675	Adsorption of Cu-EDTA complexes from aqueous solutions by polymeric Fe/Zr pillared montmorillonite: Behaviors and mechanisms. <b>2011</b> , 277, 288-295		44
674	Magnetic alginate beads for Pb(II) ions removal from wastewater. <b>2011</b> , 362, 486-92		116
673	Ion Exchange Behaviors of Ca(II) and Mg(II) on Lewatit MonoPlus TP 207 and TP 208 Chelating Resins. <b>2011</b> , 347-353, 937-951		2
672	Column study of Cr (VI) adsorption onto modified silica-polyacrylamide microspheres composite. <i>Chemical Engineering Journal</i> , <b>2012</b> , 210, 280-288	14.7	79
671	Selective solid-phase extraction of uranium by salicylideneimine-functionalized hydrothermal carbon. <i>Journal of Hazardous Materials</i> , <b>2012</b> , 229-230, 321-30	12.8	127
670	Adsorption of Hg <sup>2+</sup> , Cu <sup>2+</sup> and Zn <sup>2+</sup> ions from aqueous solution using formaldehyde cross-linked modified chitosan-thioglyceraldehyde Schiff's base. <b>2012</b> , 50, 773-81		134
669	Hybrid materials: Magnetite-Polyethylenimine-Montmorillonite, as magnetic adsorbents for Cr(VI) water treatment. <b>2012</b> , 385, 24-33		122
668	Adsorption performance and mechanism of Cr(VI) using magnetic PS-EDTA resin from micro-polluted waters. <i>Chemical Engineering Journal</i> , <b>2012</b> , 200-202, 480-490	14.7	36
667	Thermodynamics of Cr(VI) adsorption on strong alkaline anion exchange fiber. <b>2012</b> , 22, 2831-2839		44
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665	Preparation of Uniform Magnetic Chitosan Microcapsules and Their Application in Adsorbing Copper Ion(II) and Chromium Ion(III). <b>2012</b> , 51, 14099-14106		40

664	Adsorption characteristics of (-)-epigallocatechin gallate and caffeine in the extract of waste tea on macroporous adsorption resins functionalized with chloromethyl, amino, and phenylamino groups. <b>2012</b> , 60, 1555-66		63
663	Preparation of Fe <sub>3</sub> O <sub>4</sub> /chitosan/poly(acrylic acid) composite particles and its application in adsorbing copper ion (II). <b>2012</b> , 19, 2081-2091		45
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661	Preparation and characterization of new foam adsorbents of poly(vinyl alcohol)/chitosan composites and their removal for dye and heavy metal from aqueous solution. <i>Chemical Engineering Journal</i> , <b>2012</b> , 183, 88-97	14.7	107
660	Novel thiourea-modified magnetic ion-imprinted chitosan/TiO <sub>2</sub> composite for simultaneous removal of cadmium and 2,4-dichlorophenol. <i>Chemical Engineering Journal</i> , <b>2012</b> , 191, 85-94	14.7	133
659	Adsorption of Cu(II), Cd(II) and Ni(II) ions by cross-linked magnetic chitosan-2-aminopyridine glyoxal Schiff's base. <b>2012</b> , 94, 250-8		100
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657	Cr(VI) adsorption on an improved synthesised cross-linked chitosan resin. <b>2012</b> , 170, 25-29		46
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645	Adsorption of Cr(VI) by modified chitosan from heavy-metal polluted water of Xiangjiang River, China. <b>2013</b> , 23, 3095-3103		25
644	Preparation of molecularly imprinted resin based on chitosan for chiral recognition of S-mandelic acid. <b>2013</b> , 55, 207-13		19
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539	Investigation of temperature effect on surface-interaction and diffusion of aqueous-solution/porous-solid adsorption systems using diffusion-binding model. <b>2015</b> , 3, 129-139		11

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528	Responses of bacterial community and functional marker genes of nitrogen cycling to biochar, compost and combined amendments in soil. <b>2016</b> , 100, 8583-91		110
527	Use of polyethylene films photografted with 2-(dimethylamino)ethyl methacrylate as a potential adsorbent for removal of chromium (VI) from aqueous medium. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133, n/a-n/a	2.9	13
526	Aerosol-Assisted Self-Assembly of Reticulated N-Doped Carbonaceous Submicron Spheres for Effective Removal of Hexavalent Chromium. <b>2016</b> , 8, 16699-707		44
525	Investigation of the adsorption-reduction mechanisms of hexavalent chromium by ramie biochars of different pyrolytic temperatures. <b>2016</b> , 218, 351-9		211
524	Activation of Polyethylene/Polypropylene Nonwoven Fabric by Radiation-Induced Grafting for the Removal of Cr(VI) from Aqueous Solutions. <i>Water, Air, and Soil Pollution</i> , <b>2016</b> , 227, 1	2.6	18
523	One-pot synthesis of carbon supported calcined-Mg/Al layered double hydroxides for antibiotic removal by slow pyrolysis of biomass waste. <b>2016</b> , 6, 39691		66
522	A novel modified graphene oxide/chitosan composite used as an adsorbent for Cr(VI) in aqueous solutions. <b>2016</b> , 87, 586-96		102
521	Comparison of Co(2+) adsorption by chitosan and its triethylene-tetramine derivative: Performance and mechanism. <b>2016</b> , 151, 20-28		37

520	Sol-gel synthesis of a humic acid-silica gel composite material as low-cost adsorbent for thorium and uranium removal. <b>2016</b> , 310, 69-80		8
519	The effect of extractant on the removal of heavy metal ions by thermoresponsive cellulose graft copolymer. <b>2016</b> , 4, 1948-1954		11
518	Removal of Cu(II) ions from aqueous water by l-arginine modifying magnetic chitosan. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2016</b> , 499, 141-149	5.1	30
517	Study on adsorption of Cu(II)/Cr(VI) binary system by carbonized Eupatorium adenophorum. <b>2016</b> , 51, 749-758		4
516	Incorporation of graphene oxide into a chitosan/poly(acrylic acid) porous polymer nanocomposite for enhanced lead adsorption. <b>2016</b> , 3, 638-646		61
515	Removal of colorant from simulated wastewater by phyco-composite material: Equilibrium, kinetic and mechanism studies in a lab-scale application. <b>2016</b> , 220, 120-128		4
514	Biochar pyrolyzed from MgAl-layered double hydroxides pre-coated ramie biomass ( <i>Boehmeria nivea</i> (L.) Gaud.): Characterization and application for crystal violet removal. <i>Journal of Environmental Management</i> , <b>2016</b> , 184, 85-93	7.9	63
513	Facile synthesis of magnetic chitosan nano-particles functionalized with N/O-containing groups for efficient adsorption of U(VI) from aqueous solution. <b>2016</b> , 310, 1361-1371		15
512	Adsorption behavior of tetracycline by extracellular polymeric substrates extracted from <i>Klebsiella</i> sp. J1. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 25084-25092	5.1	17
511	Preparation and characterization of zirconia-loaded lignocellulosic butanol residue as a biosorbent for phosphate removal from aqueous solution. <b>2016</b> , 387, 419-430		57
510	Electrospun chitosan/baker's yeast nanofibre adsorbent: preparation, characterization and application in heavy metal adsorption. <b>2016</b> , 39, 1091-1100		16
509	Ionic solid-impregnated sulphate-crosslinked chitosan for effective adsorption of hexavalent chromium from effluents. <i>International Journal of Environmental Science and Technology</i> , <b>2016</b> , 13, 2269-2282	3.3	10
508	Rapid removal of noxious nickel (II) using novel alumina nanoparticles and multiwalled carbon nanotubes: Kinetic and isotherm studies. <b>2016</b> , 224, 618-623		59
507	Statistical Analysis of Main and Interaction Effects on Cu(II) and Cr(VI) Decontamination by Nitrogen-Doped Magnetic Graphene Oxide. <b>2016</b> , 6, 34378		28
506	Biosorption of nitroimidazole antibiotics onto chemically modified porous biochar prepared by experimental design: Kinetics, thermodynamics, and equilibrium analysis. <b>2016</b> , 104, 422-435		32
505	The disinfection performance and mechanisms of Ag/lysozyme nanoparticles supported with montmorillonite clay. <i>Journal of Hazardous Materials</i> , <b>2016</b> , 317, 416-429	12.8	22
504	Polyaniline functionalized graphene sheets for treatment of toxic hexavalent chromium. <b>2016</b> , 4, 3006-3012		28
503	Three-dimensional composite hydrogel based on polyamine zirconium oxide, alginate and tannic acid with high performance for Pb(II), Hg(II) and Cr(VI) trapping. <b>2016</b> , 65, 304-311		12

502	Evaluation of ethylenediamine-modified nanofibrillated cellulose/chitosan composites on adsorption of cationic and anionic dyes from aqueous solution. <b>2016</b> , 151, 1115-1119		51
501	Chitosan-derived carbonaceous material for highly efficient adsorption of chromium (VI) from aqueous solution. <b>2016</b> , 91, 443-9		27
500	Sorption of Pb(II) on carboxymethyl chitosan-conjugated magnetite nanoparticles: application of sorbent dosage-dependent isotherms. <b>2016</b> , 294, 1369-1379		10
499	Hexavalent chromium adsorption from aqueous solutions using nanoporous graphene/Fe <sub>3</sub> O <sub>4</sub> (NPG/Fe <sub>3</sub> O <sub>4</sub> : modeling and optimization). <b>2016</b> , 57, 28284-28293		5
498	Removal of Cr(VI) from aqueous solution using amino-modified Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> @chitosan magnetic microspheres with high acid resistance and adsorption capacity. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133, n/a-n/a	2.9	25
497	Treatment of wastewater effluents from paper-recycling plants by coagulation process and optimization of treatment conditions with response surface methodology. <b>2016</b> , 6, 339-348		28
496	Adsorptive removal of copper (II) ions from aqueous solution by silane cross-linked chitosan/PVA/TEOS beads: kinetics and isotherms. <b>2016</b> , 57, 4037-4048		9
495	Adsorption of toxic Cr(VI) ions from aqueous solution by sulphuric acid modified <i>Strychnos potatorum</i> seeds in batch and column studies. <b>2016</b> , 57, 12585-12607		15
494	Adsorptive removal of Cr(VI) from aqueous solutions with an effective adsorbent: cross-linked chitosan/montmorillonite nanocomposites in the presence of hydroxy-aluminum oligomeric cations. <b>2016</b> , 57, 10767-10775		10
493	Adsorption-desorption behavior of magnetic amine/Fe <sub>3</sub> O <sub>4</sub> functionalized biopolymer resin towards anionic dyes from wastewater. <b>2016</b> , 210, 123-30		145
492	Production of biochars from Ca impregnated ramie biomass ( <i>Boehmeria nivea</i> (L.) Gaud.) and their phosphate removal potential. <i>RSC Advances</i> , <b>2016</b> , 6, 5871-5880	3.7	65
491	Preparation of chitosan/polycaprolactam nanofibrous filter paper and its greatly enhanced chromium(VI) adsorption. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2016</b> , 494, 65-73	5.1	23
490	Removal of heavy metal ions using chitosan and modified chitosan: A review. <b>2016</b> , 214, 175-191		472
489	Two fold modified chitosan for enhanced adsorption of hexavalent chromium from simulated wastewater and industrial effluents. <b>2016</b> , 146, 264-73		52
488	Synthesis of novel aminated cellulose microsphere adsorbent for efficient Cr(VI) removal. <b>2016</b> , 125, 94-101		23
487	Adsorptive removal of diuron on biomass ashes: a comparative study using rice husk ash and bagasse fly ash as adsorbents. <b>2016</b> , 57, 22378-22391		22
486	FTIR, Raman, and XPS analysis during phosphate, nitrate and Cr(VI) removal by amine cross-linking biosorbent. <b>2016</b> , 468, 313-323		163
485	Synthesis of polyamine-grafted chitosan and its adsorption behavior. <b>2016</b> , 25, 277-284		5

484	Microchannel-embedded metal-carbon-polymer nanocomposite as a novel support for chitosan for efficient removal of hexavalent chromium from water under dynamic conditions. <i>Chemical Engineering Journal</i> , <b>2016</b> , 293, 44-54	14.7	58
483	Removal of chromium(VI) from wastewater using weakly and strongly basic magnetic adsorbents: adsorption/desorption property and mechanism comparative studies. <i>RSC Advances</i> , <b>2016</b> , 6, 18471-18482	3.7	10
482	Facile synthesis of PVA/CNTs for enhanced adsorption of Pb <sup>2+</sup> and Cu <sup>2+</sup> in single and binary system. <b>2016</b> , 57, 21391-21404		6
481	Decontamination of methylene blue from aqueous solution by magnetic chitosan lignosulfonate grafted with graphene oxide: effects of environmental conditions and surfactant. <i>RSC Advances</i> , <b>2016</b> , 6, 19298-19307	3.7	34
480	Chemically modified magnetic chitosan microspheres for Cr(VI) removal from acidic aqueous solution. <b>2016</b> , 26, 79-86		36
479	The journey traversed in the remediation of hexavalent chromium and the road ahead toward greener alternatives: a perspective. <b>2016</b> , 317, 157-166		68
478	Removal of Cr(VI) from aqueous solution by rice husk derived magnetic sorbents. <i>Korean Journal of Chemical Engineering</i> , <b>2016</b> , 33, 1416-1424	2.8	16
477	Nylon 6,6 based fibrous composite: preparation, characterization and its utilization for the removal of hazardous Cr(VI) from aqueous solution. <b>2016</b> , 8, 869-879		6
476	Synthesis and characterization of iron sulfide powders and its application for sorption of europium radionuclides. <b>2016</b> , 57, 19495-19509		4
475	Removal of toxic Cr(VI) from water by a novel magnetic chitosan/glyoxal/PVA hydrogel film. <b>2016</b> , 57, 14266-14279		11
474	Removal of 17 $\beta$ -estradiol by few-layered graphene oxide nanosheets from aqueous solutions: External influence and adsorption mechanism. <i>Chemical Engineering Journal</i> , <b>2016</b> , 284, 93-102	14.7	201
473	Removal of heavy metals from wastewater using magnetic nanocomposites: Analysis of the experimental conditions. <b>2016</b> , 51, 550-563		34
472	Preparation of a novel polymeric adsorbent and its adsorption of phenol in aqueous solution. <b>2016</b> , 57, 13295-13306		3
471	Highly efficient chromium(VI) adsorption with nanofibrous filter paper prepared through electrospinning chitosan/polymethylmethacrylate composite. <b>2016</b> , 137, 119-126		64
470	Luminescent sintered silica glass prepared by adsorbing Pr ions into mesoporous SiO <sub>2</sub> /PVA nanocomposite. <b>2016</b> , 50, 2541-2547		2
469	Removal of phosphate from industrial wastewater using uncalcined MgAl-NO <sub>3</sub> layered double hydroxide: batch study and modeling. <b>2016</b> , 57, 15920-15931		27
468	Molecularly imprinted polymers (MIPs): a functional material for removal of humic acid from peat water. <b>2016</b> , 57, 15164-15175		2
467	The preparation of novel adsorbent materials with efficient adsorption performance for both chromium and methylene blue. <b>2016</b> , 141, 253-259		40

466	Novel Magnetic Chitosan Hydrogel Film, Cross-Linked with Glyoxal as an Efficient Adsorbent for Removal of Toxic Cr(VI) from Water. <b>2017</b> , 42, 115-124		22
465	Synthesis, characterization and optimization of poly(p-phenylenediamine)-based organoclay composite for Cr(VI) remediation. <b>2017</b> , 139, 72-80		20
464	Ni(II) removal from aqueous solution by biosorption and flocculation using microbial flocculant GA1. <b>2017</b> , 43, 3939-3959		10
463	Effect of multi-walled carbon nanotubes on phytotoxicity of sediments contaminated by phenanthrene and cadmium. <b>2017</b> , 172, 449-458		70
462	Biomass based hydrogel as an adsorbent for the fast removal of heavy metal ions from aqueous solutions. <b>2017</b> , 5, 3434-3446		114
461	Adsorption of phosphate from aqueous solution using iron-zirconium modified activated carbon nanofiber: Performance and mechanism. <b>2017</b> , 493, 17-23		206
460	Adsorption mechanism of phosphate by polyaniline/TiO <sub>2</sub> composite from wastewater. <i>Chemical Engineering Journal</i> , <b>2017</b> , 316, 33-40	14.7	79
459	The rapid degradation of bisphenol A induced by the response of indigenous bacterial communities in sediment. <b>2017</b> , 101, 3919-3928		22
458	Epichlorohydrin crosslinked carboxymethyl cellulose-ethylenediamine imprinted polymer for the selective uptake of Cr(VI). <b>2017</b> , 101, 837-844		35
457	Sequestration of HCHs and DDTs in sediments in Dongting Lake of China with multiwalled carbon nanotubes: implication for in situ sequestration. <i>Environmental Science and Pollution Research</i> , <b>2017</b> , 24, 7726-7739	5.1	3
456	Poly(vinylidene fluoride) derived fluorine-doped magnetic carbon nanoadsorbents for enhanced chromium removal. <b>2017</b> , 115, 503-514		46
455	Enhancement of As(V) adsorption from aqueous solution by a magnetic chitosan/biochar composite. <i>RSC Advances</i> , <b>2017</b> , 7, 10891-10900	3.7	73
454	Cadmium-containing quantum dots: properties, applications, and toxicity. <b>2017</b> , 101, 2713-2733		77
453	Remediation of organochlorine pesticides contaminated lake sediment using activated carbon and carbon nanotubes. <b>2017</b> , 177, 65-76		40
452	Adsorption of heavy-metal ions from aqueous solution onto chitosan-modified polyethylene terephthalate (PET). <b>2017</b> , 43, 4213-4225		24
451	Decontamination of tetracycline by thiourea-dioxide-reduced magnetic graphene oxide: Effects of pH, ionic strength, and humic acid concentration. <b>2017</b> , 495, 68-77		55
450	Titanium dioxide nanotube arrays with silane coupling agent modification for heavy metal reduction and persistent organic pollutant degradation. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 4377-4389	3.6	16
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448	Biological technologies for the remediation of co-contaminated soil. <b>2017</b> , 37, 1062-1076		341
447	Efficient removal of toxic metal ions from wastewater using a recyclable nanocomposite: A study of adsorption parameters and interaction mechanism. <i>Journal of Cleaner Production</i> , <b>2017</b> , 156, 426-436	10.3	187
446	A magnetized graphene oxide modified with 2-mercaptobenzothiazole as a selective nanosorbent for magnetic solid phase extraction of gold(III), palladium(II) and silver(I). <b>2017</b> , 184, 2871-2879		32
445	Evaluation methods for assessing effectiveness of in situ remediation of soil and sediment contaminated with organic pollutants and heavy metals. <b>2017</b> , 105, 43-55		275
444	Adsorption on activated carbon derived from tannery fleshing waste: Adsorption isotherms, thermodynamics, and kinetics. <b>2017</b> , 36, 1725-1733		11
443	Amino functionalized hierarchically produced porous polyacrylamide microspheres for the removal of chromium(VI) from aqueous solution. <b>2017</b> , 24, 1705-1715		6
442	Clay-supported nanoscale zero-valent iron composite materials for the remediation of contaminated aqueous solutions: A review. <i>Chemical Engineering Journal</i> , <b>2017</b> , 312, 336-350	14.7	189
441	Fabrication and characterization of CeO <sub>2</sub> -TiO <sub>2</sub> -Fe <sub>2</sub> O <sub>3</sub> magnetic nanoparticles for rapid removal of uranium ions from industrial waste solutions. <b>2017</b> , 241, 260-269		27
440	Calotropis procera mediated one pot green synthesis of Cupric oxide nanoparticles (CuO-NPs) for adsorptive removal of Cr(VI) from aqueous solutions. <b>2017</b> , 31, e3849		8
439	Novel highly porous magnetic hydrogel beads composed of chitosan and sodium citrate: an effective adsorbent for the removal of heavy metals from aqueous solutions. <i>Environmental Science and Pollution Research</i> , <b>2017</b> , 24, 16520-16530	5.1	40
438	Organic matters removal from landfill leachate by immobilized Phanerochaete chrysosporium loaded with graphitic carbon nitride under visible light irradiation. <b>2017</b> , 184, 1071-1079		26
437	Precipitation, adsorption and rhizosphere effect: The mechanisms for Phosphate-induced Pb immobilization in soils-A review. <i>Journal of Hazardous Materials</i> , <b>2017</b> , 339, 354-367	12.8	242
436	Preparation of diethylenetriamine-modified magnetic chitosan nanoparticles for adsorption of rare-earth metal ions. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 7739-7750	3.6	24
435	Polyurethane foam membranes filled with humic acid-chitosan crosslinked gels for selective and simultaneous removal of dyes. <b>2017</b> , 505, 67-78		45
434	Covalently bonded pancreatic lipase onto the dithiocarbamate/chitosan-based magnetite: Stepwise fabrication of FeO@CS/NHCS-Lip as a novel and promising nanobiocatalyst. <b>2017</b> , 103, 1194-1200		38
433	Removal of U(VI) from aqueous solution using synthesized $\beta$ -zeolite and its ethylenediamine derivative. <b>2017</b> , 234, 40-48		12
432	Repeating recovery and reuse of SDS micelles from MEUF retentate containing Cd <sup>2+</sup> by acidification UF. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2017</b> , 520, 361-368	5.1	30
431	Adsorption of emerging contaminant metformin using graphene oxide. <b>2017</b> , 179, 20-28		85

430	Insight into highly efficient co-removal of p-nitrophenol and lead by nitrogen-functionalized magnetic ordered mesoporous carbon: Performance and modelling. <i>Journal of Hazardous Materials</i> , <b>2017</b> , 333, 80-87	12.8	139
429	Removal of Nickel(II) from Aqueous Solutions Using Synthesized $\beta$ -Zeolite and Its Ethylenediamine Derivative. <b>2017</b> , 56, 3067-3076		11
428	Comparative and competitive adsorption of Pb(II) and Cu(II) using tetraethylenepentamine modified chitosan/CoFeO particles. <i>Journal of Hazardous Materials</i> , <b>2017</b> , 326, 211-220	12.8	108
427	Self-Assembled Sponge-like Chitosan/Reduced Graphene Oxide/Montmorillonite Composite Hydrogels without Cross-Linking of Chitosan for Effective Cr(VI) Sorption. <b>2017</b> , 5, 1557-1566		85
426	Flexible core-shell/bead-like alginate@PEI with exceptional adsorption capacity, recycling performance toward batch and column sorption of Cr(VI). <i>Chemical Engineering Journal</i> , <b>2017</b> , 313, 475-486	14.7	185
425	Heavy metal removal from wastewater using various adsorbents: a review. <b>2017</b> , 7, 387-419		228
424	Synthesis of Pd/Au bimetallic nanoparticle-loaded ultrathin graphitic carbon nitride nanosheets for highly efficient catalytic reduction of p-nitrophenol. <b>2017</b> , 490, 834-843		57
423	1,5 diphenyl carbazide immobilized cross-linked chitosan films: An integrated approach towards enhanced removal of Cr(VI). <b>2017</b> , 247, 254-261		18
422	Co-occurrence and interactions of pollutants, and their impacts on soil remediation: A review. <b>2017</b> , 47, 1528-1553		286
421	Selective adsorption of Cr(VI) ions from aqueous solutions using a Cr(VI)-imprinted polymer supported by magnetic multiwall carbon nanotubes. <b>2017</b> , 132, 1-11		48
420	Lead-induced oxidative stress and antioxidant response provide insight into the tolerance of <i>Phanerochaete chrysosporium</i> to lead exposure. <b>2017</b> , 187, 70-77		45
419	Nickel ferrite bearing nitrogen-doped mesoporous carbon as efficient adsorbent for the removal of highly toxic metal ion from aqueous medium. <i>Chemical Engineering Journal</i> , <b>2017</b> , 330, 1351-1360	14.7	293
418	Modification of biochar derived from sawdust and its application in removal of tetracycline and copper from aqueous solution: Adsorption mechanism and modelling. <b>2017</b> , 245, 266-273		372
417	Amine-crosslinked Shaddock Peel embedded with hydrous zirconium oxide nano-particles for selective phosphate removal in competitive condition. <b>2017</b> , 80, 650-662		19
416	Synthesis of a novel magnetic nano-scale biosorbent using extracellular polymeric substances from <i>Klebsiella</i> sp. J1 for tetracycline adsorption. <b>2017</b> , 245, 471-476		34
415	New direct consecutive formation of spinel phase in (Fe,Co,Ni)Al <sub>2</sub> O <sub>4</sub> composites for enhanced Pd(II) ions removal. <b>2017</b> , 727, 744-756		7
414	Comprehensive evaluation of the cytotoxicity of CdSe/ZnS quantum dots in <i>Phanerochaete chrysosporium</i> by cellular uptake and oxidative stress. <b>2017</b> , 4, 2018-2029		78
413	Versatile nature of hetero-chitosan based derivatives as biodegradable adsorbent for heavy metal ions; a review. <b>2017</b> , 105, 190-203		81



412	Environment-friendly fullerene separation methods. <i>Chemical Engineering Journal</i> , <b>2017</b> , 330, 134-145	14.7	55
411	In Situ Synthesis of FeAlOOH and Synchronous Adsorption Separation of V(V) from Highly Concentrated Cr(VI) Multiplex Complex solutions. <b>2017</b> , 5, 6674-6681		14
410	Polyethylenimine-Functionalized Corn Bract, an Agricultural Waste Material, for Efficient Removal and Recovery of Cr(VI) from Aqueous Solution. <b>2017</b> , 65, 7153-7158		51
409	Kinetics, equilibrium modeling, and thermodynamics on removal of Cr(VI) ions from aqueous solution using novel composites with strong base anion exchanger microspheres embedded into chitosan/poly(vinyl amine) cryogels. <i>Chemical Engineering Journal</i> , <b>2017</b> , 330, 675-691	14.7	67
408	Bioaccumulation and toxicity of CdSe/ZnS quantum dots in <i>Phanerochaete chrysosporium</i> . <b>2017</b> , 159, 303-311		18
407	Amphoteric gellan gum-based terpolymer/montmorillonite composite: synthesis, swelling, and dye adsorption studies. <b>2017</b> , 8, 345-362		15
406	An exploratory study on low-concentration hexavalent chromium adsorption by Fe(III)-cross-linked chitosan beads. <b>2017</b> , 4, 170905		14
405	A perspective on diverse adsorbent materials to recover precious palladium and the way forward. <i>RSC Advances</i> , <b>2017</b> , 7, 52133-52142	3.7	35
404	Recent advances in the environmental applications of biosurfactant saponins: A review. <b>2017</b> , 5, 6030-6038		49
403	Xanthate-modified magnetic chitosan/poly (vinyl alcohol) adsorbent: Preparation, characterization, and performance of Pb(II) removal from aqueous solution. <b>2017</b> , 78, 485-492		33
402	Preparation magnetic cassava residue microspheres and its application for Cu(II) adsorption. <b>2017</b> , 5, 2800-2806		12
401	Effect of <i>Phanerochaete chrysosporium</i> inoculation on bacterial community and metal stabilization in lead-contaminated agricultural waste composting. <b>2017</b> , 243, 294-303		92
400	Synthesis and application of magnetic chlorapatite nanoparticles for zinc (II), cadmium (II) and lead (II) removal from water solutions. <b>2017</b> , 505, 824-835		28
399	Precursor preparation for Ca-Al layered double hydroxide to remove hexavalent chromium coexisting with calcium and magnesium chlorides. <b>2017</b> , 245, 200-206		18
398	Synthesis and characterization of hybrid iron oxide silicates for selective removal of arsenic oxyanions from contaminated water. <b>2017</b> , 488, 335-347		28
397	Removal of cadmium (II) from aqueous solution by a new adsorbent of fluor-hydroxyapatite composites. <b>2017</b> , 70, 200-208		26
396	The interactions of composting and biochar and their implications for soil amendment and pollution remediation: a review. <b>2017</b> , 37, 754-764		246
395	Insight into highly efficient simultaneous photocatalytic removal of Cr(VI) and 2,4-dichlorophenol under visible light irradiation by phosphorus doped porous ultrathin g-C <sub>3</sub> N <sub>4</sub> nanosheets from aqueous media: Performance and reaction mechanism. <b>2017</b> , 203, 343-354		383

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392	Characterization and adsorption properties of the electrolytic carbon derived from CO <sub>2</sub> conversion in molten salts. <b>2017</b> , 111, 162-172		30
391	Practical and regenerable electrochemical aptasensor based on nanoporous gold and thymine-Hg-thymine base pairs for Hg detection. <b>2017</b> , 90, 542-548		90
390	Responses of landscape pattern of China's two largest freshwater lakes to early dry season after the impoundment of Three-Gorges Dam. <b>2017</b> , 56, 36-43		49
389	Bioremediation mechanisms of combined pollution of PAHs and heavy metals by bacteria and fungi: A mini review. <b>2017</b> , 224, 25-33		270
388	Fabrication of $\beta$ -cyclodextrin/poly (L-glutamic acid) supported magnetic graphene oxide and its adsorption behavior for 17 $\beta$ -estradiol. <i>Chemical Engineering Journal</i> , <b>2017</b> , 308, 597-605	14.7	144
387	Efficient Removal of Tetracycline from Aqueous Media with a Fe <sub>3</sub> O <sub>4</sub> @Nanoparticles@graphene Oxide Nanosheets Assembly. <b>2017</b> , 14,		27
386	Adsorption of Cr(VI) onto Hybrid Membrane of Carboxymethyl Chitosan and Silicon Dioxide. <b>2017</b> , 2017, 1-8		13
385	Preparation and characterization of bioadsorbent beads for chromium and zinc ions adsorption. <b>2017</b> , 3, 1401577		10
384	Preparation and characterization of dialdehyde starch urea (DASU) and, its sorption potential for Co(ii), Pb(ii) and Zn(ii) ions from aqueous solution. <b>2017</b> , 9, 213		2
383	Electrospun alginate nanofibres as potential bio-sorption agent of heavy metals in water treatment. <b>2017</b> , 11, 652-663		20
382	Adsorption of Heavy Metal from Palm Oil Mill Effluent on the Mixed Media Used For the Preparation of Composite Adsorbent. <b>2017</b> , 103, 06020		19
381	Progress and prospect of adsorptive removal of heavy metal ions from aqueous solution using metal-organic frameworks: A review of studies from the last decade. <b>2018</b> , 201, 627-643		158
380	Performance of magnetic graphene oxide/diethylenetriaminepentaacetic acid nanocomposite for the tetracycline and ciprofloxacin adsorption in single and binary systems. <b>2018</b> , 521, 150-159		88
379	Synthesis of a bioadsorbent from jute cellulose, and application for aqueous Cd (II) removal. <b>2018</b> , 189, 152-161		16
378	Chitosan@Graphene-Grafted Nanocomposite Materials for Wastewater Treatment. <b>2018</b> , 163-185		2
377	Uranium and europium sorption on amidoxime-functionalized magnetic chitosan micro-particles. <i>Chemical Engineering Journal</i> , <b>2018</b> , 344, 124-137	14.7	71

376	Effective removal of copper from aqueous solutions by modified magnetic chitosan/graphene oxide nanocomposites. <b>2018</b> , 113, 859-868	88
375	Uranium recovery from concentrated chloride solution produced from direct acid leaching of calcareous shale, Allouga ore materials, southwestern Sinai, Egypt. <b>2018</b> , 315, 613-626	8
374	Novel synergistic hydrous iron-nickel-manganese (HINM) trimetal oxide for hazardous arsenite removal. <b>2018</b> , 200, 504-512	24
373	Removing of Direct Red 83:1 using $\beta$ -and HP-ECs polymerized with epichlorohydrin: Kinetic and equilibrium studies. <b>2018</b> , 149, 736-746	28
372	Remediation of contaminated soils by enhanced nanoscale zero valent iron. <b>2018</b> , 163, 217-227	117
371	Highly efficient scavenging of P(V), Cr(VI), Re(VII) anions onto g-C3N4 nanosheets from aqueous solutions as impacted via water chemistry. <b>2018</b> , 258, 275-284	9
370	A lignin-based nano-adsorbent for superfast and highly selective removal of phosphate. <b>2018</b> , 6, 9971-9983	98
369	Removal of Cd (II), Pb (II) and Cu (II) ions from aqueous solution by polyamidoamine dendrimer grafted magnetic graphene oxide nanosheets. <b>2018</b> , 87, 225-240	58
368	Facile one-pot hydrothermal synthesis of cubic spinel-type manganese ferrite/biochar composites for environmental remediation of heavy metals from aqueous solutions. <b>2018</b> , 261, 1-9	82
367	How to Construct DNA Hydrogels for Environmental Applications: Advanced Water Treatment and Environmental Analysis. <b>2018</b> , 14, e1703305	37
366	A novel biosorbent prepared by immobilized Bacillus licheniformis for lead removal from wastewater. <b>2018</b> , 200, 173-179	61
365	Sorption and recovery of platinum from simulated spent catalyst solution and refinery wastewater using chemically modified biomass as a novel sorbent. <i>Environmental Science and Pollution Research</i> , <b>2018</b> , 25, 10911-10925	5.1 19
364	Decontamination of Cr(VI) by graphene oxide@TiO <sub>2</sub> in an aerobic atmosphere: effects of pH, ferric ions, inorganic anions, and formate. <b>2018</b> , 93, 2226-2233	17
363	In Situ Grown AgI/Bi <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> Heterojunction Photocatalysts for Visible Light Degradation of Sulfamethazine: Efficiency, Pathway, and Mechanism. <b>2018</b> , 6, 4174-4184	200
362	Tailored silica nanospheres: an efficient adsorbent for environmental chromium remediation. <b>2018</b> , 106, 427-435	2
361	Investigation the adsorption properties of graphene oxide and polyaniline nano/micro structures for efficient removal of toxic Cr(VI) contaminants from aqueous solutions; kinetic and equilibrium studies. <b>2018</b> , 29, 141-154	49
360	Design of porous strong base anion exchangers bearing N,N-dialkyl 2-hydroxyethyl ammonium groups with enhanced retention of Cr(VI) ions from aqueous solution. <b>2018</b> , 124, 55-63	30
359	Separation of valuables from spent selective catalytic reduction catalyst leaching solution by fabricated anion extraction resins. <b>2018</b> , 6, 1100-1108	2

358	High adsorption of methylene blue by salicylic acid-methanol modified steel converter slag and evaluation of its mechanism. <b>2018</b> , 515, 232-239		65
357	Preparation and Characterization of Chitosan-Coated Diatomaceous Earth for Hexavalent Chromium Removal. <b>2018</b> , 5, 23-39		9
356	Pathway and mechanism of nitrogen transformation during composting: Functional enzymes and genes under different concentrations of PVP-AgNPs. <b>2018</b> , 253, 112-120		65
355	Preparation of Micro-porous Chitosan Membrane and Its Adsorption Property for Cr(VI) Ions. <b>2018</b> , 797-804		
354	Formation of composite sorbent by <i>P. chrysogenum</i> strain F1 and ferrihydrite in water for arsenic removal. <b>2018</b> , 132, 208-215		7
353	Insight into the heterogeneous adsorption of humic acid fluorescent components on multi-walled carbon nanotubes by excitation-emission matrix and parallel factor analysis. <b>2018</b> , 148, 194-200		12
352	Hydrothermal synthesis of hierarchically structured birnessite-type MnO/biochar composites for the adsorptive removal of Cu(II) from aqueous media. <b>2018</b> , 260, 204-212		49
351	Effect of alkali-treatment on the characteristics of natural zeolites with different compositions. <b>2018</b> , 523, 266-281		21
350	Heterocyclic modification of chitosan for the adsorption of Cu (II) and Cr (VI) ions. <b>2018</b> , 53, 1979-1990		19
349	Application of molecular docking for the degradation of organic pollutants in the environmental remediation: A review. <b>2018</b> , 203, 139-150		67
348	Efficient extraction of uranium from aqueous solution using an amino-functionalized magnetic titanate nanotubes. <i>Journal of Hazardous Materials</i> , <b>2018</b> , 353, 9-17	12.8	43
347	BiOX (X = Cl, Br, I) photocatalytic nanomaterials: Applications for fuels and environmental management. <b>2018</b> , 254, 76-93		288
346	Isotherms, kinetics and thermodynamics of hexavalent chromium removal using biochar. <b>2018</b> , 6, 2335-2343		75
345	Mussel-inspired surface modification of untreated wasted husks with stable polydopamine/polyethylenimine for efficient continuous Cr(VI) removal. <b>2018</b> , 102, 218-225		29
344	Efficient degradation of sulfamethazine in simulated and real wastewater at slightly basic pH values using Co-SAM-SCS /HO Fenton-like system. <b>2018</b> , 138, 7-18		151
343	Synthesis of novel resin containing carbamothiolylimidamide group and application for Cr(VI) removal. <b>2018</b> , 75, 963-983		12
342	Nitrogen-containing amino compounds functionalized graphene oxide: Synthesis, characterization and application for the removal of pollutants from wastewater: A review. <i>Journal of Hazardous Materials</i> , <b>2018</b> , 342, 177-191	12.8	93
341	Production and flocculating properties of a compound biopolymer flocculant from corn ethanol wastewater. <b>2018</b> , 247, 924-929		20

340	Light induced growth of polyelectrolyte brushes on kaolinite surface with superior performance for capturing valuable rare-earth Ce 3+ from wastewater. <b>2018</b> , 227, 89-99		11
339	Effect of exogenous carbonaceous materials on the bioavailability of organic pollutants and their ecological risks. <b>2018</b> , 116, 70-81		89
338	0D/2D interface engineering of carbon quantum dots modified Bi <sub>2</sub> WO <sub>6</sub> ultrathin nanosheets with enhanced photoactivity for full spectrum light utilization and mechanism insight. <b>2018</b> , 222, 115-123		233
337	Rhamnolipid stabilized nano-chlorapatite: Synthesis and enhancement effect on Pb-and Cd-immobilization in polluted sediment. <i>Journal of Hazardous Materials</i> , <b>2018</b> , 343, 332-339	12.8	113
336	Highly porous carbon nitride by supramolecular preassembly of monomers for photocatalytic removal of sulfamethazine under visible light driven. <b>2018</b> , 220, 202-210		394
335	Facile fabrication of mediator-free Z-scheme photocatalyst of phosphorous-doped ultrathin graphitic carbon nitride nanosheets and bismuth vanadate composites with enhanced tetracycline degradation under visible light. <b>2018</b> , 509, 219-234		116
334	Enhanced removal of iodide from aqueous solution by ozonation and subsequent adsorption on Ag-Ag <sub>2</sub> O modified on Carbon Spheres. <b>2018</b> , 427, 753-762		34
333	Sorption, transport and biodegradation - An insight into bioavailability of persistent organic pollutants in soil. <i>Science of the Total Environment</i> , <b>2018</b> , 610-611, 1154-1163	10.2	304
332	Modification of PPTA-based polymeric waste and adsorption properties for metal ions. <i>International Journal of Environmental Science and Technology</i> , <b>2018</b> , 15, 1657-1668	3.3	
331	Arsenic adsorption on $\gamma$ -MnO <sub>2</sub> nanofibers and the significance of (1 0 0) facet as compared with (1 1 0). <i>Chemical Engineering Journal</i> , <b>2018</b> , 331, 492-500	14.7	56
330	The potential impact on the biodegradation of organic pollutants from composting technology for soil remediation. <b>2018</b> , 72, 138-149		65
329	Adsorption Studies of PVA Based Thermosensitive Polymers in Heavy Metal Removal. <i>Journal of Polymers and the Environment</i> , <b>2018</b> , 26, 2096-2106	4.5	8
328	Functionalized cellulose beads with three dimensional porous structure for rapid adsorption of active constituents from <i>Pyrola incarnata</i> . <b>2018</b> , 181, 560-569		18
327	Adsorption capability of heavy metals by chitosan/poly(ethylene oxide)/activated carbon electrospun nanofibrous membrane. <i>Journal of Applied Polymer Science</i> , <b>2018</b> , 135, 45851	2.9	46
326	From fly ash waste slurry to functional adsorbent for valuable rare earth ion separation: An ingenious combination process involving modification, dewatering and grafting. <b>2018</b> , 513, 427-437		4
325	Modeling the transport of sodium dodecyl benzene sulfonate in riverine sediment in the presence of multi-walled carbon nanotubes. <b>2018</b> , 129, 20-28		72
324	Preparation and characterization of higher degree-deacetylated chitosan-coated magnetic adsorbent for the removal of chromium(VI) from its aqueous mixture. <i>Journal of Applied Polymer Science</i> , <b>2018</b> , 135, 45878	2.9	22
323	Adsorption of Zn(II) ions by chitosan coated diatomaceous earth. <b>2018</b> , 106, 602-610		43

322	Carboxymethyl-Chitosan Cross-Linked 3- Aminopropyltriethoxysilane Membrane for Speciation of Toxic Chromium from Water. <b>2018</b> ,		2
321	Synthesis and characterization of magnetic mesoporous FeO@mSiO-DODGA nanoparticles for adsorption of 16 rare earth elements.. <i>RSC Advances</i> , <b>2018</b> , 8, 39149-39161	3-7	17
320	Synthesis of a Novel and Salt Sensitive Superabsorbent Hydrogel Using Soybean Dregs by UV-Irradiation. <b>2018</b> , 11,		6
319	β-Cyclodextrin conjugated bifunctional isocyanate linker polymer for enhanced removal of 2,4-dinitrophenol from environmental waters. <b>2018</b> , 5, 180942		15
318	Synthesis and Characterization of Chitosan-p-t-Butylcalix[4]arene acid. <b>2018</b> , 333, 012011		2
317	Enhanced adsorption of oxytetracycline to weathered microplastic polystyrene: Kinetics, isotherms and influencing factors. <i>Environmental Pollution</i> , <b>2018</b> , 243, 1550-1557	9-3	248
316	Adsorption of aqueous neodymium, europium, gadolinium, terbium, and yttrium ions onto nZVI-montmorillonite: kinetics, thermodynamic mechanism, and the influence of coexisting ions. <i>Environmental Science and Pollution Research</i> , <b>2018</b> , 25, 33521-33537	5-1	26
315	Efficient photocatalytic removal of safarnin-O dye pollutants from water under sunlight using synthetic bentonite/polyaniline@NiO photocatalyst of enhanced properties. <i>Environmental Science and Pollution Research</i> , <b>2018</b> , 25, 33264-33276	5-1	19
314	Fabrication of Stabilized Fe?Mn Binary Oxide Nanoparticles: Effective Adsorption of 17β-Estradiol and Influencing Factors. <b>2018</b> , 15,		6
313	Hybrid polysaccharide beads for enhancing adsorption of Cr(VI) ions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2018</b> , 558, 144-153	5-1	11
312	Enhancement of ciprofloxacin sorption on chitosan/biochar hydrogel beads. <i>Science of the Total Environment</i> , <b>2018</b> , 639, 560-569	10-2	138
311	Removal of Hexavalent Chromium from Aqueous Solutions Using Biopolymers. <b>2018</b> , 144, 04018060		5
310	pH responsive adsorption/desorption studies of organic dyes from their aqueous solutions by katira gum-cl-poly(acrylic acid-co-N-vinyl imidazole) hydrogel. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2018</b> , 553, 472-486	5-1	40
309	Hexavalent chromium removal over magnetic carbon nanoadsorbents: synergistic effect of fluorine and nitrogen co-doping. <b>2018</b> , 6, 13062-13074		130
308	Activated magnetic biochar by one-step synthesis: Enhanced adsorption and coadsorption for 17β-estradiol and copper. <i>Science of the Total Environment</i> , <b>2018</b> , 639, 1530-1542	10-2	92
307	Preparation of a novel two-dimensional carbon material and enhancing Cu(II) ions removal by phytic acid. <b>2018</b> , 77, 1		4
306	Ultrasonic-assisted synthesis of graphene oxide - fungal hyphae: An efficient and reclaimable adsorbent for chromium(VI) removal from aqueous solution. <b>2018</b> , 48, 412-417		43
305	A GO-CS@MOF [Zn(BDC)(DMF)] material for the adsorption of chromium(VI) ions from aqueous solution. <b>2018</b> , 152, 116-125		78

304	Selective prepared carbon nanomaterials for advanced photocatalytic application in environmental pollutant treatment and hydrogen production. <b>2018</b> , 239, 408-424		300
303	Design of an enhanced SAT using the graphene-MAR mixture for the removal of 17 $\beta$ -E2 at a demonstration site of Qianjin farm in China. <i>Environmental Science and Pollution Research</i> , <b>2018</b> , 25, 28120-28128	5.1	18
302	Prediction of coefficients of the Langmuir adsorption isotherm using various artificial intelligence (AI) techniques. <b>2018</b> , 15, 2747-2757		28
301	One-step synthesis of 1,6-hexanediamine modified magnetic chitosan microspheres for fast and efficient removal of toxic hexavalent chromium. <b>2018</b> , 8, 11024		18
300	Magnetic Fe <sub>2</sub> O <sub>3</sub> /Fe-doped hydroxyapatite nanostructures as high-efficiency cadmium adsorbents. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2018</b> , 555, 548-557	5.1	19
299	Reductive-co-precipitated cellulose immobilized zerovalent iron nanoparticles in ionic liquid/water for Cr(VI) adsorption. <b>2018</b> , 25, 5259-5275		12
298	Synthesis of novel modified magnetic chitosan particles and their adsorption performance toward Cr(VI). <b>2018</b> , 267, 1-8		55
297	Removal of 17 $\beta$ -estradiol by using highly adsorptive magnetic biochar nanoparticles from aqueous solution. <i>Chemical Engineering Journal</i> , <b>2018</b> , 352, 371-379	14.7	68
296	Difunctional chitosan-stabilized Fe/Cu bimetallic nanoparticles for removal of hexavalent chromium wastewater. <i>Science of the Total Environment</i> , <b>2018</b> , 644, 1181-1189	10.2	52
295	A comparative study of rigid and flexible MOFs for the adsorption of pharmaceuticals: Kinetics, isotherms and mechanisms. <i>Journal of Hazardous Materials</i> , <b>2018</b> , 359, 248-257	12.8	70
294	Comprehensive Adsorption Studies of Doxycycline and Ciprofloxacin Antibiotics by Biochars Prepared at Different Temperatures. <b>2018</b> , 6, 80		92
293	Adsorption of vanadium (V) on natural kaolinite and montmorillonite: Characteristics and mechanism. <b>2018</b> , 161, 310-316		48
292	Removal of heavy metal chromium using cross-linked chitosan composite nanofiber mats. <b>2018</b> , 120, 213-221		30
291	Recovery of Au(III) from leach solutions using thiourea functionalized zeolitic imidazolate frameworks (TU*ZIF-8). <b>2018</b> , 180, 262-270		22
290	Simultaneous functionalization and magnetization of biochar via NH <sub>3</sub> atmosphere pyrolysis for efficient removal of Cr (VI). <b>2018</b> , 208, 712-721		80
289	Partially carboxymethylated and partially cross-linked surface of chitosan versus the adsorptive removal of dyes and divalent metal ions. <b>2018</b> , 197, 586-597		57
288	Toxicity effects of silver nanoparticles on the freshwater bivalve <i>Corbicula fluminea</i> . <b>2018</b> , 6, 4236-4244		19
287	A biopolymer-based composite hydrogel for rhodamine 6G dye removal: its synthesis, adsorption isotherms and kinetics. <b>2018</b> , 27, 527-535		19

286	Environmental remediation by nanoadsorbents-based polymer nanocomposite. <b>2018</b> , 223-241		10
285	Regression analysis and artificial intelligence for removal of methylene blue from aqueous solutions using nanoscale zero-valent iron. <i>International Journal of Environmental Science and Technology</i> , <b>2019</b> , 16, 357-372	3.3	21
284	A novel carboxylic-functional indole-based aerogel for highly effective removal of heavy metals from aqueous solution synergistic effects of face-point and point-point interactions.. <i>RSC Advances</i> , <b>2019</b> , 9, 24875-24879	3.7	2
283	Sorption of polyhalogenated carbazoles (PHCs) to microplastics. <i>Marine Pollution Bulletin</i> , <b>2019</b> , 146, 718-728	6.7	27
282	Preparation of aminated cross-linked chitosan beads for efficient adsorption of hexavalent chromium. <b>2019</b> , 139, 352-360		21
281	Two physical processes enhanced the performance of <i>Auricularia auricula dreg</i> in Cd(II) adsorption: composting and pyrolysis. <b>2019</b> , 79, 1511-1526		0
280	Design and preparation of magnetic mesoporous melamine-formaldehyde resin: A novel material for pre-concentration and determination of silver. <b>2019</b> , 33, e5112		1
279	Fabrication of Fe <sub>3</sub> O <sub>4</sub> nanoparticles coated by extracted shrimp peels chitosan as sustainable adsorbents for removal of chromium contaminates from wastewater: The design of experiment. <b>2019</b> , 175, 107130		52
278	Development the sorption behavior of nanocomposite Mg/Al LDH by chelating with different monomers. <b>2019</b> , 175, 107131		19
277	Adsorption and mechanistic study for phosphate removal by rice husk-derived biochar functionalized with Mg/Al-calcined layered double hydroxides via co-pyrolysis. <b>2019</b> , 176, 107209		68
276	Microwave-assisted chemical modification method for surface regulation of biochar and its application for estrogen removal. <b>2019</b> , 128, 329-341		27
275	Selective Cesium Adsorptive Removal on Using Crosslinked Tea Leaves. <b>2019</b> , 7, 412		6
274	Removal of Hexavalent Chromium from Aqueous Solution by Alumina-Supported Copper Aluminum Oxide Nanoparticles. <b>2019</b> , 291-297		2
273	Chitin/Chitosan: Versatile Ecological, Industrial, and Biomedical Applications. <b>2019</b> , 541-624		9
272	Preparation of polyglycerol mediated superparamagnetic graphene oxide nanocomposite and evaluation of its adsorption properties on tetracycline. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 32345-32359	5.1	11
271	Nanoscale Zero-Valent Iron and Chitosan Functionalized Biochar for Efficient Hexavalent Chromium Removal. <b>2019</b> , 16,		22
270	Porous cellulose beads reconstituted from ionic liquid for adsorption of heavy metal ions from aqueous solutions. <b>2019</b> , 26, 9163-9178		20
269	An indole-based aerogel for enhanced removal of heavy metals from water via the synergistic effects of complexation and cation interactions. <b>2019</b> , 7, 531-539		37



268	Removal of malachite green from aqueous solutions using a modified chitosan composite. <b>2019</b> , 128, 655-664		46
267	Phosphonium-enhanced chitosan for Cr(VI) adsorption in wastewater treatment. <b>2019</b> , 211, 249-256		51
266	Enhanced removal of ciprofloxacin using humic acid modified hydrogel beads. <b>2019</b> , 543, 76-83		29
265	Enhanced adsorption for Pb(II) and Cd(II) of magnetic rice husk biochar by KMnO modification. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 8902-8913	5.1	66
264	Cr(VI) removal with rapid and superior performance utilizing cost-efficient waste-polyester-textile-based mesoporous carbon: Behavior and mechanism. <b>2019</b> , 278, 496-504		11
263	Optimal design and fabrication of surface microchannels on copper foam catalyst support in a methanol steam reforming microreactor. <b>2019</b> , 253, 1545-1555		15
262	Preparation of bio-inspired trimethoxysilyl group terminated poly(1-vinylimidazole)-modified-chitosan composite for adsorption of chromium (VI) ions. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 379, 120792	12.8	42
261	A comparative study of magnetic chitosan (Chi@FeO) and graphene oxide modified magnetic chitosan (Chi@FeOGO) nanocomposites for efficient removal of Cr(VI) from water. <b>2019</b> , 137, 948-959		73
260	Versatile core/shell-like alginate@polyethylenimine composites for efficient removal of multiple heavy metal ions (Pb <sup>2+</sup> , Cu <sup>2+</sup> , CrO <sub>4</sub> <sup>2-</sup> ): Batch and fixed-bed studies. <b>2019</b> , 118, 110526		21
259	Surface decoration of diatomite by Ni/NiO nanoparticles as hybrid composite of enhanced adsorption properties for malachite green dye and hexavalent chromium. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2019</b> , 577, 583-593	5.1	31
258	Changes of heavy metal fractions during co-composting of agricultural waste and river sediment with inoculation of <i>Phanerochaete chrysosporium</i> . <i>Journal of Hazardous Materials</i> , <b>2019</b> , 378, 120757	12.8	56
257	Novel lanthanum doped biochars derived from lignocellulosic wastes for efficient phosphate removal and regeneration. <b>2019</b> , 289, 121600		71
256	Characterization of modified <i>Alternanthera philoxeroides</i> by diethylenetriamine and its application in the adsorption of copper(II) ions in aqueous solution. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 21189-21200	5.1	7
255	Adsorptive nanocomposite membranes for heavy metal remediation: Recent progresses and challenges. <b>2019</b> , 232, 96-112		82
254	Polysaccharide-derived hydrogel water filter for the rapid and selective removal of arsenic. <b>2019</b> , 5, 1318-1327		7
253	Regeneration of chitosan-based adsorbents used in heavy metal adsorption: A review. <i>Separation and Purification Technology</i> , <b>2019</b> , 224, 373-387	8.3	162
252	Thiourea-Immobilized Polymer Beads for Sorption of Cr(VI) Ions in Acidic Aqueous Media. <b>2019</b> , 27, 515-521		4
251	Cr(VI) and Pb(II) capture on pH-responsive polyethyleneimine and chloroacetic acid functionalized chitosan microspheres. <b>2019</b> , 219, 353-367		26

250	Modification of hyperbranched hemicellulose polymer and its application in adsorbing acid dyes. <b>2019</b> , 26, 5583-5601	14
249	Integrated Remediation Processes Toward Heavy Metal Removal/Recovery From Various Environments-A Review. <b>2019</b> , 7,	132
248	Modified chitosan gel incorporated with magnetic nanoparticle for removal of Cu(II) and Cr(VI) from aqueous solution. <b>2019</b> , 133, 1051-1062	46
247	Optimization of Reclamation of Ni(II)-Rich Solutions by $\gamma$ -Alumina Nanoparticles. <b>2019</b> , 23, 04019005	0
246	Chitosan-stabilized FeS magnetic composites for chromium removal: Characterization, performance, mechanism, and stability. <b>2019</b> , 214, 276-285	63
245	Cross-Linking Stabilizes Electrical Resistance of Reduced Graphene Oxide in Humid Environments. <b>2019</b> , 35, 5427-5434	2
244	Synthesis of mesoporous rebar MWCNT/alumina composite (RMAC) nodules for the effective removal of methylene blue and Cr (VI) from an aqueous medium. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 374, 140-151	12.8 32
243	Preparation of thiourea-modified magnetic chitosan composite with efficient removal efficiency for Cr(VI). <b>2019</b> , 144, 150-158	24
242	Performance of chitosan engraved iron and lanthanum mixed oxyhydroxide for the detoxification of hexavalent chromium. <b>2019</b> , 130, 491-498	12
241	Kinetics studies on the adsorption of Methyl Orange and Metanil Yellow onto bottom ash: a comparative account. <b>2019</b> , 80, 1844-1850	4
240	Rhodamine B removal from aqueous solution by CT269DR resin: Static and dynamic study. <b>2019</b> , 37, 709-728	1
239	Synthesis of Chitosan-Ignosulfonate Composite as an Adsorbent for Dyes and Metal Ions Removal from Wastewater. <b>2019</b> , 4, 21421-21430	26
238	$\beta$ -Cyclodextrin-based hollow nanoparticles with excellent adsorption performance towards organic and inorganic pollutants. <b>2019</b> , 11, 18653-18661	20
237	Facile synthesis of CoFe <sub>2</sub> O <sub>4</sub> nanoparticles and application in removal of malachite green dye. <b>2019</b> , 7, 137-142	20
236	Adsorption properties of pyrene-functionalized nano-Fe <sub>3</sub> O <sub>4</sub> mesoporous materials for uranium. <b>2019</b> , 270, 666-673	32
235	Phosphorylated chitosan/CoFe <sub>2</sub> O <sub>4</sub> composite for the efficient removal of Pb(II) and Cd(II) from aqueous solution: Adsorption performance and mechanism studies. <b>2019</b> , 277, 181-188	74
234	Green fabrication of bentonite/chitosan@cobalt oxide composite (BE/CH@Co) of enhanced adsorption and advanced oxidation removal of Congo red dye and Cr (VI) from water. <b>2019</b> , 126, 402-413	106
233	Synthesis and metal ion adsorption characteristics of graphene oxide incorporated chitosan Schiff base. <b>2019</b> , 126, 908-916	17

232	Highly adsorptive chitosan/saponin-bentonite composite film for removal of methyl orange and Cr(VI). <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 5020-5037	5.1	19
231	Functionalized cross-linked chitosan with ionic liquid and highly efficient removal of azo dyes from aqueous solution. <b>2019</b> , 126, 1023-1029		8
230	Modified magnetic chitosan microparticles as novel superior adsorbents with huge "force field" for capturing food dyes. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 367, 492-503	12.8	40
229	Enhanced and rapid adsorptive removal of toxic organic dyes from aqueous solution using a nanocomposite of saponified polymethyl acrylate grafted dextrin with embedded nanosilica. <b>2019</b> , 275, 879-894		10
228	Iron oxide/carbon nanotubes/chitosan magnetic composite film for chromium species removal. <b>2019</b> , 218, 391-401		38
227	Application of chitosan derivatives as promising adsorbents for treatment of textile wastewater. <b>2019</b> , 417-469		14
226	Biochar synthesized via pyrolysis of <i>Broussonetia papyrifera</i> leaves: mechanisms and potential applications for phosphate removal. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 6565-6575	5.1	8
225	CeO <sub>2</sub> /Fe <sub>2</sub> O <sub>4</sub> nanocomposite for effective removal of uranium ions from aqueous waste solutions. <b>2019</b> , 1, 1		2
224	Adsorption of 17 $\beta$ -estradiol by a novel attapulgite/biochar nanocomposite : Characteristics and influencing factors. <b>2019</b> , 121, 155-164		37
223	A versatile $\beta$ -cyclodextrin and polyethyleneimine bi-functionalized magnetic nanoadsorbent for simultaneous capture of methyl orange and Pb(II) from complex wastewater. <b>2019</b> , 216, 605-616		52
222	Nanohybrid Photocatalysts for Heavy Metal Pollutant Control. <b>2019</b> , 125-153		6
221	Adsorption Removal of Safranin Dye Contaminants from Water Using Various Types of Natural Zeolite. <b>2019</b> , 11, 1635-1647		55
220	Efficient removal of Chromium(VI) from aqueous solution using chitosan grafted graphene oxide (CS-GO) nanocomposite. <b>2019</b> , 121, 285-292		107
219	Removal of organic pollutants using polysulfone ultrafiltration membrane containing polystyrene silicomolybdate nanoparticles: Case study: Borg El Arab area. <i>Journal of Water Process Engineering</i> , <b>2019</b> , 30, 100553	6.7	19
218	Two-step grafting of 2-hydroxyethyl methacrylate (HEMA) and 2-(dimethylamino)ethyl methacrylate (DMAEMA) onto a polyethylene plate for enhancement of Cr(VI) ion adsorption. <b>2019</b> , 40, 855-869		10
217	Effects of silver nanoparticles with different dosing regimens and exposure media on artificial ecosystem. <b>2019</b> , 75, 181-192		8
216	Recovery of gold from mining solutions using Au(III)-imprinted polymeric resins with pyridine, ethylenediamine and aminothiophosphate functionalities. <b>2019</b> , 128, 221-238		
215	Isotherm and kinetic studies for heptachlor removal from aqueous solution using Fe/Cu nanoparticles, artificial intelligence, and regression analysis. <b>2020</b> , 55, 684-696		21

214	Structural design of magnetic biosorbents for the removal of ciprofloxacin from water. <b>2020</b> , 296, 122288		31
213	TiO <sub>2</sub> and activated carbon of Argania Spinosa tree nutshells composites for the adsorption photocatalysis removal of pharmaceuticals from aqueous solution. <b>2020</b> , 388, 112183		27
212	Ionic liquid assisted mesoporous silica-graphene oxide nanocomposite synthesis and its application for removal of heavy metal ions from water. <b>2020</b> , 239, 122028		34
211	Fabrication of novel magnetic chitosan/graphene-oxide/metal oxide nanocomposite beads for Cr(VI) adsorption. <b>2020</b> , 74, 529-541		15
210	Functionalized chitosan nanocomposites for removal of toxic Cr (VI) from aqueous solution. <b>2020</b> , 146, 104407		30
209	Adsorption Properties of Calcium Alginate-Silica Dioxide Hybrid Adsorbent to Methylene Blue. <b>2020</b> , 30, 2114-2125		11
208	Two-step synthesis of a single-layer grafting self-floating adsorbent for anionic dyes adsorption, surface separation and concentration. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 384, 121262	12.8	16
207	Fixed bed column and artificial neural network model to predict heavy metals adsorption dynamic on surfactant decorated graphene. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2020</b> , 585, 124076	5.1	23
206	Constructing mesoporous phosphated titanium oxide for efficient Cr(III) removal. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 384, 121278	12.8	14
205	Effective removal of two fluoroquinolone antibiotics by PEG-4000 stabilized nanoscale zero-valent iron supported onto zeolite (PZ-NZVI). <i>Science of the Total Environment</i> , <b>2020</b> , 710, 136289	10.2	34
204	Graphene Oxide-Supported Organo-Montmorillonite Composites for the Removal of Pb(II), Cd(II), and As(V) Contaminants from Water. <b>2020</b> , 3, 806-813		16
203	A Cr(VI)-imprinted-poly(4-VP-co-EGDMA) sorbent prepared using precipitation polymerization and its application for selective adsorptive removal and solid phase extraction of Cr(VI) ions from electroplating industrial wastewater. <b>2020</b> , 147, 104451		49
202	Magnetic hybrid gels for emulsified oil adsorption: an overview of their potential to solve environmental problems associated to petroleum spills. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 861-872	5.1	5
201	Preparation and adsorption properties of citrate-crosslinked chitosan salt microspheres by microwave assisted method. <b>2020</b> , 152, 1146-1156		18
200	Biomaterials cross-linked graphene oxide composite aerogel with a macro-nanoporous network structure for efficient Cr (VI) removal. <b>2020</b> , 156, 1337-1346		10
199	Comparison of adsorption properties for anionic dye by metal organic frameworks with different metal ions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2020</b> , 586, 124259	5.1	10
198	Preparation of a novel chitosan-based magnetic adsorbent CTS@SnO@FeO for effective treatment of dye wastewater. <b>2020</b> , 156, 1474-1482		28
197	Design and Preparation of Chitosan-Crosslinked Bismuth Ferrite/Biochar Coupled Magnetic Material for Methylene Blue Removal. <b>2019</b> , 17,		15

196	Enhanced Adsorptive Removal of 17-Estradiol from Aqueous and Wastewater Samples by Magnetic Nano-Akaganeite: Adsorption Isotherms, Kinetics, and Mechanism. <b>2020</b> , 8, 1197		3
195	Simultaneous adsorption of Cu and Cr (VI) using HDTMA-modified zeolite: isotherm, kinetic, mechanism, and thermodynamic studies. <b>2020</b> , 82, 1808-1824		4
194	Electrospun Composites Made of Reduced Graphene Oxide and Polyacrylonitrile-Based Activated Carbon Nanofibers (rGO/ACNF) for Enhanced CO Adsorption. <b>2020</b> , 12,		10
193	Graphene oxide functionalized chitosan-magnetite nanocomposite for removal of Cu(II) and Cr(VI) from waste water. <b>2020</b> , 164, 4391-4402		20
192	Synthesis and characterization of chitosan-pyrazoloquinoxaline Schiff bases for Cr (VI) removal from wastewater. <b>2020</b> , 163, 2180-2188		4
191	Selective removal of dual dyes from aqueous solutions using a metal organic framework (MIL-53(Al)). <b>2020</b> , 190, 114762		15
190	Use of nanohybrid nanomaterials in water treatment: highly efficient removal of ranitidine.. <i>RSC Advances</i> , <b>2020</b> , 10, 37050-37063	3-7	5
189	Removal of Chromium(VI) by Chitosan Beads Modified with Sodium Dodecyl Sulfate (SDS). <b>2020</b> , 10, 4745		6
188	Rapid, Selective Adsorption of Methylene Blue from Aqueous Solution by Durable Nanofibrous Membranes. <b>2020</b> , 65, 3998-4008		9
187	Preparation of composite hydrogel (PCG) and its adsorption performance for uranium(VI). <b>2020</b> , 303, 112604		17
186	Efficient Removal 17-Estradiol by Graphene-Like Magnetic Sawdust Biochar: Preparation Condition and Adsorption Mechanism. <b>2020</b> , 17,		6
185	Reusable magnetite nanoparticles-biochar composites for the efficient removal of chromate from water. <b>2020</b> , 10, 19007		14
184	Adsorption of Cr(VI) ion on tannic acid/graphene oxide composite aerogel: kinetics, equilibrium, and thermodynamics studies. <b>2020</b> , 1		11
183	Poly(N-acryloyl-L-histidine)-modified wood sawdust as an efficient adsorbent for low-level heavy metal ions. <b>2020</b> , 27, 8155-8167		4
182	Environmental Applications of Chitosan and its Derivatives. <b>2020</b> , 1065-1081		4
181	Synthesis of New Cyclodextrin-Based Adsorbents to Remove Direct Red 83:1. <b>2020</b> , 12,		2
180	Optimization of Cadmium Adsorption by Magnetic Graphene Oxide Using a Fractional Factorial Design. <b>2020</b> , 17,		2
179	Nonlinear regression analysis and response surface modeling of Cr (VI) removal from synthetic wastewater by an agro-waste Box-Behnken Design (BBD). <b>2021</b> , 23, 791-808		3

178	High adsorption of fulvic acid by amino modified styrene-type macroporous resin and evaluation of its mechanism. <b>2020</b> , 81, 1000-1010		
177	Production of carbon-doped titanium dioxide (C/TiO <sub>2</sub> ) from polytitanium-coagulated sludge as an adsorbent or photocatalyst for pollutant removals. <i>Journal of Cleaner Production</i> , <b>2020</b> , 267, 121979	10.3	12
176	Characteristics and behaviour of vanadium(V) adsorption on goethite and birnessite. <b>2020</b> , 79, 1		5
175	Polyaniline@magnetic chitosan nanomaterials for highly efficient simultaneous adsorption and in-situ chemical reduction of hexavalent chromium: Removal efficacy and mechanisms. <i>Science of the Total Environment</i> , <b>2020</b> , 733, 139316	10.2	56
174	Efficient capture of arsenate from alkaline smelting wastewater by acetate modulated yttrium based metal-organic frameworks. <i>Chemical Engineering Journal</i> , <b>2020</b> , 397, 125292	14.7	9
173	Highly efficient and selective removal of Cr(VI) by covalent organic frameworks: Structure, performance and mechanism. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2020</b> , 600, 124910	5.1	19
172	Hierarchical multi-shell hollow micro-meso-macroporous silica for Cr(VI) adsorption. <b>2020</b> , 10, 9788		26
171	Simultaneous removal of Congo red and cadmium(II) from aqueous solutions using graphene oxide-silica composite as a multifunctional adsorbent. <b>2020</b> , 98, 151-160		34
170	Characterization of Mukah-Balingian and Merit-Pila Coals before and after Subcritical CO <sub>2</sub> Exposure Using Surface-Area Techniques. <b>2020</b> , 146, 04020087		3
169	Magnetic cross-linked chitosan modified with ethylenediamine and $\beta$ -cyclodextrin for removal of phenolic compounds. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2020</b> , 602, 125119 <sup>5.1</sup>		9
168	Poly(acryloyl hydrazide)-grafted cellulose nanocrystal adsorbents with an excellent Cr(VI) adsorption capacity. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 394, 122512	12.8	42
167	Low-cost novel silica@polyacrylamide composites: fabrication, characterization, and adsorption behavior for cadmium ion in aqueous solution. <b>2020</b> , 26, 1051-1062		4
166	Contribution of Cross-Linker and Silica Morphology on Cr(VI) Sorption Performances of Organic Anion Exchangers Embedded into Silica Pores. <i>Molecules</i> , <b>2020</b> , 25,	4.8	5
165	Amorphous phosphated titanium oxide with amino and hydroxyl bifunctional groups for highly efficient heavy metal removal. <b>2020</b> , 7, 1266-1274		8
164	Direct surface modification of nanodiamonds with ionic copolymers for fast adsorptive removal of copper ions with high efficiency. <b>2020</b> , 37, 100278		7
163	Green microwave synthesis of functionalized chitosan with robust adsorption capacities for Cr(VI) and/or RHB in complex aqueous solutions. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 33020-33031 <sup>5.1</sup>		18
162	Glauconite clay-functionalized chitosan nanocomposites for efficient adsorptive removal of fluoride ions from polluted aqueous solutions.. <i>RSC Advances</i> , <b>2020</b> , 10, 25567-25585	3.7	21
161	Coupling of kenaf Biochar and Magnetic BiFeO <sub>3</sub> onto Cross-linked Chitosan for Enhancing Separation Performance and Cr(VI) Ions Removal Efficiency. <b>2020</b> , 17,		7

160	Synthesis of carbon nanotubes via chemical vapor deposition: an advanced application in the Management of Electroplating Effluent. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 14007-14018	5.1	8
159	Inorganic nanofiber as a promising sorbent for lithium recovery. <i>Separation and Purification Technology</i> , <b>2020</b> , 242, 116757	8.3	8
158	Synthesis of borax cross-linked Jhingan gum hydrogel for remediation of Remazol Brilliant Blue R (RBBR) dye from water: Adsorption isotherm, kinetic, thermodynamic and biodegradation studies. <b>2020</b> , 151, 677-690		52
157	Adsorptive removal of phosphate by the bimetallic hydroxide nanocomposites embedded in pomegranate peel. <b>2020</b> , 91, 189-198		17
156	Ultimate Eradication of the Ciprofloxacin Antibiotic from the Ecosystem by Nanohybrid GO/O-CNTs. <b>2020</b> , 5, 4457-4468		8
155	Cross-linked chitosan and $\beta$ -cyclodextrin as functional adsorbents in water treatment. <b>2020</b> , 161-264		3
154	Synthesis a graphene-like magnetic biochar by potassium ferrate for 17 $\beta$ -estradiol removal: Effects of ALO nanoparticles and microplastics. <i>Science of the Total Environment</i> , <b>2020</b> , 715, 136723	10.2	24
153	Effective removal of Cr(VI) from aqueous solution based on APTES modified nanoporous silicon prepared from kerf loss silicon waste. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 10899-10909	5.1	8
152	Insight into the Adsorption and Photocatalytic Behaviors of an Organo-bentonite/CoO Green Nanocomposite for Malachite Green Synthetic Dye and Cr(VI) Metal Ions: Application and Mechanisms. <b>2020</b> , 5, 2766-2778		20
151	Effect of multiple factors on the adsorption of Cd in an alluvial soil from Xiba, China. <b>2020</b> , 232, 103605		8
150	Nitrogen and sulfur codoped micro-mesoporous carbon sheets derived from natural biomass for synergistic removal of chromium(VI): adsorption behavior and computing mechanism. <i>Science of the Total Environment</i> , <b>2020</b> , 730, 138930	10.2	30
149	Membranes for toxic- and heavy-metal removal. <b>2020</b> , 125-149		5
148	Synthesis of amino-functionalized MIL-101(Cr) MOF for hexavalent chromium adsorption from aqueous solutions. <b>2020</b> , 14, 100300		11
147	Preparation of sulfonated chitosan for enhanced adsorption of methylene blue from aqueous solution. <b>2020</b> , 151, 104584		30
146	Design of pH sensitive low-cost adsorbent from the exudate of <i>Lannea coromandelica</i> (Houtt) for remediation of Malachite Green dye from aqueous solution. <b>2021</b> , 78, 3459-3487		6
145	Effects of exposure of polyethylene microplastics to air, water and soil on their adsorption behaviors for copper and tetracycline. <i>Chemical Engineering Journal</i> , <b>2021</b> , 404, 126412	14.7	51
144	Functionalized pollen-like mesoporous silica. <b>2021</b> , 310, 110531		21
143	Synergic removal of tetracycline using hydrophilic three-dimensional nitrogen-doped porous carbon embedded with copper oxide nanoparticles by coupling adsorption and photocatalytic oxidation processes. <b>2021</b> , 581, 350-361		12

142	Nanostructured manganese oxide as an efficient eco-friendly catalyst for removing azo dye Calcon from water. <b>2021</b> , 37, 3905-3912		3
141	Selective and efficient removal of Hg (II) from aqueous media by a low-cost dendrimer-grafted polyacrylonitrile fiber: Performance and mechanism. <b>2021</b> , 262, 127836		7
140	Mechanism analysis of heavy metal lead captured by natural-aged microplastics. <b>2021</b> , 270, 128624		38
139	New insight into adsorption and reduction of hexavalent chromium by magnetite: Multi-step reaction mechanism and kinetic model developing. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 611, 125784	5.1	8
138	Functional covalent organic framework illuminate rapid and efficient capture of Cu (II) and reutilization to reduce fire hazards of epoxy resin. <i>Separation and Purification Technology</i> , <b>2021</b> , 259, 118119	8.3	14
137	Sensors for the environmental pollutant detection: Are we already there?. <b>2021</b> , 431, 213681		11
136	Removal of Cadmium from Contaminated Groundwater Using a Novel Silicon/Aluminum Nanomaterial: An Experimental Study. <b>2021</b> , 80, 234-247		27
135	Recent advances in removal techniques of Cr(VI) toxic ion from aqueous solution: A comprehensive review. <b>2021</b> , 329, 115062		127
134	Interaction between hexavalent chromium and biologically formed iron mineral-biochar composites: Kinetics, products and mechanisms. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 405, 124246	12.8	12
133	Promoting adsorption of organic pollutants via tailoring surface physicochemical properties of biomass-derived carbon-attapulgite. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 11106-11118	5.1	2
132	Metal-organic frameworks derived C/TiO for visible light photocatalysis: Simple synthesis and contribution of carbon species. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 403, 124048	12.8	50
131	Adsorption of chromium by functionalized metal organic frameworks from aqueous solution. <b>2021</b> , 42, 1930-1942		7
130	Facile preparation of EDTA-functionalized magnetic chitosan for removal of co(II) from aqueous solutions. <b>2021</b> , 42, 1313-1325		3
129	Hexavalent Cr ion adsorption and desorption behaviour of expanded poly(tetrafluoro)ethylene films grafted with 2-(dimethylamino)ethyl methacrylate. <b>2021</b> , 42, 1885-1898		3
128	Equilibrium, kinetic and mechanism studies on adsorption of textile disperse dye from aqueous solution onto TiO <sub>2</sub> in the presence of ultrasound and rare earth ions. <b>2021</b> , 44, 2158-2167		1
127	Bio-inspired fabrication of Cu <sub>2</sub> ZrO <sub>2</sub> nanocomposites for the remediation of Cr(VI) from water system. <b>2021</b> , 4, 100073		4
126	Fungal Communities for Bioremediation of Contaminated Soil for Sustainable Environments. <b>2021</b> , 27-42		2
125	Chitosan-Based Magnetic Adsorbents. <i>Environmental Chemistry for A Sustainable World</i> , <b>2021</b> , 435-465	0.8	



124	Promoted adsorptive removal of chromium(vi) ions from water by a green-synthesized hybrid magnetic nanocomposite (NFeOStarch-Glu-NFeOED).. <i>RSC Advances</i> , <b>2021</b> , 11, 14829-14843	3.7	4
123	Remediation of Cu(II) and its adsorption mechanism in aqueous system by novel magnetic biochar derived from co-pyrolysis of sewage sludge and biomass. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 16408-16419	5.1	3
122	Nanofibrous Membranes for Low-Concentration CrVI Adsorption: Kinetic, Thermodynamic and the Influence on ZFL Cells Viability. <b>2021</b> , 24,		0
121	Removal of Cu(II) Contamination from Aqueous Solution by Ethylenediamine@Zeolite Composite. <i>Molecules</i> , <b>2021</b> , 26,	4.8	
120	Adsorption of Pb <sup>2+</sup> by insolubilized humic acid extracted from sewage sludge. <b>2021</b> , 23, 1037-1047		0
119	Synthesis and application of functionalized Graphene oxide-silica with chitosan for removal of Cd (II) from aqueous solution. <b>2021</b> , 19, 491-502		1
118	Elimination characteristics of sulfonated cobalt phthalocyanine catalyst (Europhtal) from wastewater in natural gas refineries by adsorption using modified natural zeolite. <b>2022</b> , 27, 200506-0		
117	Unexpected effect of magnetic nanoparticles on the performance of aqueous removal of toxic Cr(VI) using modified biopolymer chitosan. <b>2021</b> , 170, 768-779		8
116	Synergistic preparation of modified alginate aerogel with melamine/chitosan for efficiently selective adsorption of lead ions. <b>2021</b> , 256, 117564		22
115	Review on preparation and adsorption properties of chitosan and chitosan composites. 1		9
114	Biochar derived from <i>Salvadora persica</i> branches biomass as low-cost adsorbent for removal of uranium(VI) and thorium(IV) from water. <b>2021</b> , 328, 669-678		5
113	Use of Different Types of Biosorbents to Remove Cr (VI) from Aqueous Solution. <b>2021</b> , 11,		5
112	The potential use of straw-derived biochar as the adsorbent for La(III) and Nd(III) removal in aqueous solutions. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 47024-47034	5.1	2
111	Quaternary amine synthesized ionic polymer for efficient removal of Cr(VI) in waste water. <b>2021</b> , 23, 101031		
110	Preparation of a novel citric acid-crosslinked Zn-MOF/chitosan composite and application in adsorption of chromium(VI) and methyl orange from aqueous solution. <b>2021</b> , 258, 117644		30
109	Experimental and theoretical investigations on kinetic mechanisms of low-pressure CO <sub>2</sub> adsorption onto Malaysian coals. <b>2021</b> , 88, 103828		3
108	The removal of anionic and cationic dyes from an aqueous solution using biomass-based activated carbon. <b>2021</b> , 11, 8623		50
107	Self-decoration of N-doped graphene oxide 3-D hydrogel onto magnetic shrimp shell biochar for enhanced removal of hexavalent chromium. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 408, 124951	12.8	26

106	Multi-functionalized self-floating microspheres for dyes capture: Amphoteric adsorption and rapid surface solid-liquid separation. <i>Journal of Cleaner Production</i> , <b>2021</b> , 296, 126535	10.3	5
105	Synthesis of novel lignosulfonate-modified graphene hydrogel for ultrahigh adsorption capacity of Cr(VI) from wastewater. <i>Journal of Cleaner Production</i> , <b>2021</b> , 295, 126406	10.3	15
104	Physisorption and Chemisorption Mechanisms Influencing Micro (Nano) Plastics-Organic Chemical Contaminants Interactions: A Review. <b>2021</b> , 9,		20
103	Effect of the modification of magnetic graphene oxide with ionic liquid on the adsorption of nonionic surfactant NP10EO. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 58629-58639	5.1	1
102	Enhanced removal of Cr(VI) via in-situ synergistic reduction and fixation by polypyrrole/sugarcane bagasse composites. <b>2021</b> , 272, 129606		18
101	Ethylenediamine-Modified Hollow Porous Nanospheres for Effective Removal of Chromium (VI). <b>2021</b> , 6, 5711-5718		0
100	Preparation of magnetic zeolite/chitosan composite using silane as modifier for adsorption of Cr(VI) from aqueous solutions. <b>2021</b> , 27, 640-654		2
99	Synergistic effect of pistachio shell powder and nano-zerovalent copper for chromium remediation from aqueous solution. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 63422-63436	5.1	3
98	Evaluation of characteristics of raw tea waste-derived adsorbents for removal of metals from aqueous medium. 1		0
97	Ball milling biochar iron oxide composites for the removal of chromium (Cr(VI)) from water: Performance and mechanisms. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 413, 125252	12.8	44
96	Straw-derived biochar as the potential adsorbent for U(VI) and Th(IV) removal in aqueous solutions. 1		0
95	Adsorptive performances of magnetic graphene oxide adsorbent for the removal of fluoroquinolones in the Langat River Basin, Malaysia. 1-20		0
94	Magnetic Fluids in Biosciences, Biotechnology and Environmental Technology. <b>2022</b> , 343-368		
93	Superior removal of methylene blue using green fabricated pomegranate peel/nano-hematite composite: reusability, isotherm and kinetics study. <b>2021</b> , 1-13		0
92	Bio-inspired one-step structure adjustment and chemical modification of melamine foam toward highly efficient removal of hexavalent chromium ions. <i>Separation and Purification Technology</i> , <b>2021</b> , 275, 119257	8.3	5
91	Response of microorganisms to phosphate nanoparticles in Pb polluted sediment: Implications of Pb bioavailability, enzyme activities and bacterial community. <b>2022</b> , 286, 131643		2
90	Remediation Technologies Applied in Polluted Soils: New Perspectives in This Field. <b>2019</b> , 186-203		3
89	Adsorption of Cr(VI) from aqueous solution on graphene oxide (GO) prepared from graphite: equilibrium, kinetic and thermodynamic studies. <b>2020</b> , 10, 1		40

88	Assessment of cancer risk of microplastics enriched with polycyclic aromatic hydrocarbons. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 398, 122994	12.8	43
87	Biosorption of hexavalent chromium from aqueous solutions using raw coconut fiber as a natural adsorbent. <b>2019</b> , 206, 1426-1439		6
86	Functionalized magnetite / silica nanocomposite for oily wastewater treatment. <b>2015</b> , 4, 69-81		3
85	Ethylenediamine grafted to graphene oxide@Fe <sub>3</sub> O <sub>4</sub> for chromium(VI) decontamination: Performance, modelling, and fractional factorial design. <b>2017</b> , 12, e0187166		16
84	Amino-functionalized graphene oxide for Cr(VI), Cu(II), Pb(II) and Cd(II) removal from industrial wastewater. <b>2020</b> , 18, 97-107		15
83	Modification of Diamagnetic Materials Using Magnetic Fluids. <b>2020</b> , 65, 751		4
82	Preparation of Chitosan Beads using Tripolyphosphate and Ethylene Glycol Diglycidyl Ether as Crosslinker for Cr(VI) Adsorption. <b>2016</b> , 10, 105-113		18
81	Adsorption of Chromium Using Blue Green Algae-Modeling and Application of Various Isotherms. <i>International Journal of Chemical Technology</i> , <b>2017</b> , 10, 1-22		14
80	Kinetic and Thermodynamic Studies for the Removal of Cr(VI) from Aqueous Solutions Using Phosphonic Acid Functionalized Multiwalled Carbon Nanotubes. <i>Research Journal of Environmental Sciences</i> , <b>2017</b> , 11, 116-129	0	2
79	Equilibrium, Kinetics and Thermodynamic of Dye Adsorption by Low Cost Adsorbents. <i>International Journal of Chemical Engineering and Applications (IJCEA)</i> , <b>2015</b> , 6, 444-449	0.2	2
78	Kinetic Characteristics of CH <sub>4</sub> Adsorption on Coals under Variable Temperature-Pressure Coupling Interaction. <i>Natural Resources Research</i> , <b>2021</b> , 30, 4597	4.9	3
77	Kinetics Adsorption of Humic Acid from Water onto PVDF Nanofiber. <i>International Journal of Chemical Engineering and Applications (IJCEA)</i> , <b>2017</b> , 8, 175-178	0.2	
76	Biocomposites and Polymer Blends for Wastewater Treatment. <b>2017</b> , 473-499		
75	Assessment of Agricultural Wastes as Biosorbents for Heavy Metal Ions Removal from Wastewater. <b>2017</b> , 465-491		
74	Kitosan Kaplı Muz Kabuğ Boncukları ile Sulu Çözeltilerden Krom(VI) Giderimi. <i>Academic Platform Journal of Engineering and Science</i> ,	0.1	
73	Chromium Adsorption from Aqueous Solution onto Dowex Retardion 11A8 and Amberlite IRA 743 Free Base: An Insight into the Mechanism. <i>Current Analytical Chemistry</i> , <b>2020</b> , 17,	1.7	1
72	Adsorption isotherm models: A comprehensive and systematic review (2010-2020). <i>Science of the Total Environment</i> , <b>2021</b> , 812, 151334	10.2	16
71	Heavy Metal Removal by Low-Cost Adsorbents. <i>Environmental Chemistry for A Sustainable World</i> , <b>2021</b> , 245-272	0.8	1

70	Elimination of antibiotics by adsorption on ferromagnetic carbon from aqueous media: regeneration of the spent carbon. <i>International Journal of Environmental Science and Technology</i> , 1	3.3	2
69	Potential Biopolymer Adsorbent Functionalized with Fe <sub>3</sub> O <sub>4</sub> Nanoparticles for the Removal of Cr(VI) From Aqueous Solution. <i>Journal of Polymers and the Environment</i> , 1	4.5	0
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