

Magnetic chitosan nanoparticles: Studies on chitosan biodegradations

Reactive and Functional Polymers

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Superparamagnetic Iron Oxide Nanoparticles Coated with Galactose-Carrying Polymer for Hepatocyte Targeting. <i>Journal of Biomedicine and Biotechnology</i> , 2007, 2007, 1-9.	3.0	37
2	Bio-controlled Growth of Oxides and Metallic Nanoparticles. , 0, , 159-191.		0
3	Characteristics of equilibrium, kinetics studies for adsorption of fluoride on magnetic-chitosan particle. <i>Journal of Hazardous Materials</i> , 2007, 143, 296-302.	6.5	214
4	Chemical sensors based on multiresponsive block copolymer hydrogels. <i>Sensors and Actuators B: Chemical</i> , 2007, 126, 97-106.	4.0	74
5	Speciation of chromium in water using crosslinked chitosan-bound FeC nanoparticles as solid-phase extractant, and determination by flame atomic absorption spectrometry. <i>Mikrochimica Acta</i> , 2007, 159, 333-339.	2.5	43
6	Adsorption of Cr(VI) onto PEI immobilized acrylate-based magnetic beads: Isotherms, kinetics and thermodynamics study. <i>Chemical Engineering Journal</i> , 2008, 139, 20-28.	6.6	201
7	Polyethylene film surface functionalized with chitosan via γ -ray irradiation in aqueous system: An approach to induce copper(II) ion adsorptivity on PE. <i>Reactive and Functional Polymers</i> , 2008, 68, 1231-1238.	2.0	6
8	Application of chitosan, a natural aminopolysaccharide, for dye removal from aqueous solutions by adsorption processes using batch studies: A review of recent literature. <i>Progress in Polymer Science</i> , 2008, 33, 399-447.	11.8	1,862
9	Heavy metals adsorption on some iminodiacetate chelating resins as a function of the adsorption parameters. <i>Reactive and Functional Polymers</i> , 2008, 68, 1346-1354.	2.0	123
10	Adsorption character for removal Cu(II) by magnetic Cu(II) ion imprinted composite adsorbent. <i>Journal of Hazardous Materials</i> , 2008, 158, 14-22.	6.5	174
11	Kinetics of adsorption of <i>Saccharomyces cerevisiae</i> mediated dehydrogenase on magnetic Fe ₃ O ₄ -chitosan nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 320, 11-18.	2.3	118
12	Suspension of Fe ₃ O ₄ nanoparticles stabilized by chitosan and o-carboxymethylchitosan. <i>International Journal of Pharmaceutics</i> , 2008, 350, 361-368.	2.6	169
13	Research progress of novel adsorption processes in water purification: A review. <i>Journal of Environmental Sciences</i> , 2008, 20, 1-13.	3.2	369
14	Functionalized Nanoscale Materials, Devices and Systems. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2008, , .	0.2	31
15	Preparation of Magnetic Chitosan Nanoparticles for Diverse Biomedical Applications. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2008, , 313-320.	0.2	3
16	Adsorptive Removal of Copper Ions from Aqueous Solution Using Cross-linked Magnetic Chitosan Beads. <i>Chinese Journal of Chemical Engineering</i> , 2009, 17, 960-966.	1.7	54
17	Ethylensulfide as a useful agent for incorporation into the biopolymer chitosan in a solvent-free reaction for use in cation removal. <i>Carbohydrate Research</i> , 2009, 344, 1716-1723.	1.1	51
18	Removal of copper by calcium alginate encapsulated magnetic sorbent. <i>Chemical Engineering Journal</i> , 2009, 152, 509-513.	6.6	72

#	ARTICLE	IF	CITATIONS
19	Magnetothermally-responsive Nanomaterials: Combining Magnetic Nanostructures and Thermally-Sensitive Polymers for Triggered Drug Release. <i>Pharmaceutical Research</i> , 2009, 26, 644-656.	1.7	233
20	Preparation of magnetic chitosan microspheres and its applications in wastewater treatment. <i>Science in China Series B: Chemistry</i> , 2009, 52, 249-256.	0.8	26
21	Characteristics of equilibrium, kinetics studies for adsorption of Hg(II), Cu(II), and Ni(II) ions by thiourea-modified magnetic chitosan microspheres. <i>Journal of Hazardous Materials</i> , 2009, 161, 995-1002.	6.5	452
22	Catalytic reduction of 4-nitrophenol by magnetically recoverable Au nanocatalyst. <i>Journal of Hazardous Materials</i> , 2009, 165, 664-669.	6.5	493
23	Rapid removal of cobalt ion from aqueous solutions by almond green hull. <i>Journal of Hazardous Materials</i> , 2009, 166, 925-930.	6.5	147
24	Highly efficient hydrolysis of phosphodiester by a copper(II)-chelated chitosan magnetic nanocarrier. <i>Reactive and Functional Polymers</i> , 2009, 69, 601-605.	2.0	11
25	Photochemical preparation of magnetic chitosan beads for immobilization of pullulanase. <i>Biochemical Engineering Journal</i> , 2009, 46, 83-87.	1.8	58
26	Nano-adsorbents for the removal of metallic pollutants from water and wastewater. <i>Environmental Technology (United Kingdom)</i> , 2009, 30, 583-609.	1.2	352
27	Water dispersible iron oxide nanoparticles coated with covalently linked chitosan. <i>Journal of Materials Chemistry</i> , 2009, 19, 6870.	6.7	96
28	Adsorption of Chromium(VI) from Aqueous Solutions Using Cross-Linked Magnetic Chitosan Beads. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 2646-2651.	1.8	136
29	pH-Sensitive Magnetic Ion Exchanger for Protein Separation. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 944-950.	1.8	42
30	Hydrogels for Chemical Sensors. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2009, , 165-195.	0.5	25
31	Environmental Application of Chitosan Resins for the Treatment of Water and Wastewater: A Review. <i>Journal of Dispersion Science and Technology</i> , 2010, 31, 273-288.	1.3	138
32	Evaluation of Cu ²⁺ , Co ²⁺ and Ni ²⁺ ions removal from aqueous solution using a novel chitosan/clinoptilolite composite: Kinetics and isotherms. <i>Chemical Engineering Journal</i> , 2010, 160, 157-163.	6.6	245
33	On the use of magnetic nano and microparticles for lake restoration. <i>Journal of Hazardous Materials</i> , 2010, 181, 375-381.	6.5	73
34	Self-assembly functionalized membranes with chitosan microsphere/polyacrylic acid layers and its application for metal ion removal. <i>Journal of Materials Science</i> , 2010, 45, 6694-6700.	1.7	21
35	High-Performance, Superparamagnetic, Nanoparticle-Based Heavy Metal Sorbents for Removal of Contaminants from Natural Waters. <i>ChemSusChem</i> , 2010, 3, 749-757.	3.6	117
36	Preparation and characterization of magnetic chelating resin based on chitosan for adsorption of Cu(II), Co(II), and Ni(II) ions. <i>Reactive and Functional Polymers</i> , 2010, 70, 257-266.	2.0	108

#	ARTICLE	IF	CITATIONS
37	The use of polyethyleneglycolmethacrylate-co-vinylimidazole (PEGMA-co-VI) microspheres for the removal of nickel(II) and chromium(VI) ions. Journal of Hazardous Materials, 2010, 177, 119-125.	6.5	64
38	Adsorption of platinum(IV) and palladium(II) from aqueous solution by magnetic cross-linking chitosan nanoparticles modified with ethylenediamine. Journal of Hazardous Materials, 2010, 182, 518-524.	6.5	184
39	In situ preparation of high relaxivity iron oxide nanoparticles by coating with chitosan: A potential MRI contrast agent useful for cell tracking. Journal of Magnetism and Magnetic Materials, 2010, 322, 208-213.	1.0	88
40	Lanthanum adsorption using iron oxide loaded calcium alginate beads. Hydrometallurgy, 2010, 101, 76-83.	1.8	108
41	Preparation of chitosan/magnetite composite beads and their application for removal of Pb(II) and Ni(II) from aqueous solution. Materials Science and Engineering C, 2010, 30, 304-310.	3.8	327
42	Preparation and characterization of novel composites based on chitosan and clinoptilolite with enhanced adsorption properties for Cu ²⁺ . Bioresource Technology, 2010, 101, 812-817.	4.8	82
43	Adsorptive removal of cobalt from aqueous solution by utilizing lemon peel as biosorbent. Biochemical Engineering Journal, 2010, 48, 181-186.	1.8	295
44	Removal of lead from aqueous solution by hydroxyapatite/magnetite composite adsorbent. Chemical Engineering Journal, 2010, 165, 827-834.	6.6	197
45	Preparation of chitosan functionalized monolithic silica column for hydrophilic interaction liquid chromatography. Journal of Chromatography A, 2010, 1217, 4958-4964.	1.8	30
46	Synthesis of carboxymethyl- β -cyclodextrin conjugated magnetic nano-adsorbent for removal of methylene blue. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 367, 85-95.	2.3	208
47	Adsorption of Hg(II) from aqueous solution by ethylenediamine-modified magnetic crosslinking chitosan microspheres. Desalination, 2010, 258, 41-47.	4.0	135
48	PREPARATION AND CHARACTERIZATION OF CHITOSAN-GOLD NANOCOMPOSITES FOR DRUG DELIVERY APPLICATION. Surface Review and Letters, 2010, 17, 165-172.	0.5	7
49	Synthesis of Iron Oxide Based Gelatin Nanocomposites and their Applications in Removal of Cr (VI) Ions from Aqueous Solutions. Journal of Macromolecular Science - Pure and Applied Chemistry, 2010, 48, 47-56.	1.2	7
50	Preparation and characterization of magnetic chitosan flocculation agent. , 2011, , .		0
52	Preparation of Magnetic Chitosan/Iron (II, III) Oxide Microspheres and Application in Adsorption of Cr (VI). Applied Mechanics and Materials, 2011, 130-134, 989-993.	0.2	0
53	Microbial Biosorption of Metals. , 2011, , .		65
54	Preparation and properties of hybrid monodispersed magnetic β -Fe ₂ O ₃ based chitosan nanocomposite film for industrial and biomedical applications. International Journal of Biological Macromolecules, 2011, 48, 170-176.	3.6	73
55	Removal of Ag ⁺ from water environment using a novel magnetic thiourea-chitosan imprinted Ag ⁺ . Journal of Hazardous Materials, 2011, 194, 193-201.	6.5	157

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56	Preparation of magnetic modified chitosan and adsorption of Zn ²⁺ from aqueous solutions. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 88, 574-581.	2.5	96
57	Enrich and seal radionuclides in magnetic agarose microspheres. <i>Chemical Engineering Journal</i> , 2011, 172, 892-897.	6.6	75
58	Adsorption of acid dyes from aqueous solutions by the ethylenediamine-modified magnetic chitosan nanoparticles. <i>Journal of Hazardous Materials</i> , 2011, 185, 1045-1052.	6.5	249
59	Preparation and characterization of magnetic chitosan microsphere sorbent for separation and determination of environmental estrogens through SPE coupled with HPLC. <i>Journal of Separation Science</i> , 2011, 34, 46-52.	1.3	29
60	Magnetic alginate beads for Pb(II) ions removal from wastewater. <i>Journal of Colloid and Interface Science</i> , 2011, 362, 486-492.	5.0	138
61	Dynamic Column Adsorption Studies of Toxic Cr(VI) Ions onto Iron Oxide Loaded Gelatin Nanoparticles. <i>Journal of Dispersion Science and Technology</i> , 2011, 32, 1353-1362.	1.3	34
62	Study on Synthesis and Adsorption Properties of Chitosan Modified by DMF Grafted β -CD. <i>Advanced Materials Research</i> , 2011, 306-307, 642-645.	0.3	0
63	Adsorptive removal of copper ions from aqueous solution using porous magnetic chitosan microspheres. , 2011, , .		0
64	Shellac-coated iron oxide nanoparticles for removal of cadmium(II) ions from aqueous solution. <i>Journal of Environmental Sciences</i> , 2012, 24, 1165-1173.	3.2	77
65	Preparation and performance of a novel composite as a reactive resin for copper retention. <i>Chemical Engineering Journal</i> , 2012, 213, 163-174.	6.6	7
66	Starch/polyaniline nanocomposite for enhanced removal of reactive dyes from synthetic effluent. <i>Carbohydrate Polymers</i> , 2012, 90, 1437-1444.	5.1	161
67	Synthesis of magnetic alginate beads based on maghemite nanoparticles for Pb(II) removal in aqueous solution. <i>Journal of Industrial and Engineering Chemistry</i> , 2012, 18, 1582-1589.	2.9	162
68	Manganese Doping of Magnetic Iron Oxide Nanoparticles: Tailoring Surface Reactivity for a Regenerable Heavy Metal Sorbent. <i>Langmuir</i> , 2012, 28, 3931-3937.	1.6	115
69	Removal of lead (II) ions from aqueous solution by using crosslinked chitosan-clay beads. <i>Desalination and Water Treatment</i> , 2012, 39, 76-82.	1.0	56
70	Nanoadsorbents for Remediation of Aquatic Environment: Local and Practical Solutions for Global Water Pollution Problems. <i>Critical Reviews in Environmental Science and Technology</i> , 2012, 42, 1233-1295.	6.6	135
71	New Generation Adsorbents for Water Treatment. <i>Chemical Reviews</i> , 2012, 112, 5073-5091.	23.0	1,571
72	Cadmium removal and recovery from aqueous solutions by novel adsorbents prepared from orange peel and Fe ₂ O ₃ nanoparticles. <i>Chemical Engineering Journal</i> , 2012, 180, 81-90.	6.6	835
73	High efficient removal of Pb (II) by amino-functionalized Fe ₃ O ₄ magnetic nano-particles. <i>Chemical Engineering Journal</i> , 2012, 191, 104-111.	6.6	250

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74	Removal of alizarin red from water environment using magnetic chitosan with Alizarin Red as imprinted molecules. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 91, 250-257.	2.5	147
75	Fabrication of magnetic chitosan nanoparticles grafted with β -cyclodextrin as effective adsorbents toward hydroquinol. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 95, 42-49.	2.5	79
76	A situ co-precipitation method to prepare magnetic PMDA modified sugarcane bagasse and its application for competitive adsorption of methylene blue and basic magenta. <i>Bioresource Technology</i> , 2012, 110, 160-166.	4.8	47
77	Facile one-pot preparation of superparamagnetic chitosan sphere and its derived hollow sphere. <i>Journal of Applied Polymer Science</i> , 2012, 123, 3587-3594.	1.3	18
78	Rapid removal of cobalt (II) from aqueous solution using cuttlefish bones; equilibrium, kinetics, and thermodynamic study. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2013, 8, 144-153.	0.8	29
79	Synthesis and antibacterial activities of novel nanocomposite films of chitosan/phosphoramidate/Fe ₃ O ₄ NPs. <i>International Journal of Biological Macromolecules</i> , 2013, 60, 226-234.	3.6	58
80	Application of magnetic chitosan composites for the removal of toxic metal and dyes from aqueous solutions. <i>Advances in Colloid and Interface Science</i> , 2013, 201-202, 68-93.	7.0	543
81	Adsorption Behavior of Heavy Metal Ions from Aqueous Solution by Soy Protein Hollow Microspheres. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 11036-11044.	1.8	119
82	Review: Preparation and Application of Magnetic Chitosan Derivatives in Separation Processes. <i>Analytical Letters</i> , 2013, 46, 2635-2656.	1.0	28
83	Recognition and enrichment specificity of Fe ₃ O ₄ magnetic nanoparticles surface modified by chitosan and <i>Staphylococcus aureus</i> enterotoxins A antiserum. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 103, 107-113.	2.5	27
84	Synthesis and characterization of magnetic nano-material for removal of Eu ³⁺ ions from aqueous solutions. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2013, 295, 929-935.	0.7	15
85	Competitive adsorption of Pb ²⁺ and Cd ²⁺ on magnetic modified sugarcane bagasse prepared by two simple steps. <i>Applied Surface Science</i> , 2013, 268, 163-170.	3.1	109
86	Adsorbent for hydroquinone removal based on graphene oxide functionalized with magnetic cyclodextrin-chitosan. <i>International Journal of Biological Macromolecules</i> , 2013, 58, 169-175.	3.6	95
87	Synthesis, characterization and application of cellulose/polyaniline nanocomposite for the treatment of simulated textile effluent. <i>Cellulose</i> , 2013, 20, 1153-1166.	2.4	47
88	Kinetics of adsorption of bovine serum albumin on magnetic carboxymethyl chitosan nanoparticles. <i>International Journal of Biological Macromolecules</i> , 2013, 58, 57-65.	3.6	38
89	Magnetic chitosan nanoparticles for removal of Cr(VI) from aqueous solution. <i>Materials Science and Engineering C</i> , 2013, 33, 1214-1218.	3.8	143
90	Nanotechnology for domestic water purification. , 2013, , 364-427.		4
91	Adsorption of Fluorine from Aqueous Solution by Chitosan Magnetic Microspheres of Loading Lanthanum. <i>Advanced Materials Research</i> , 2013, 634-638, 367-374.	0.3	1

#	ARTICLE	IF	CITATIONS
92	Removal of zinc and copper ions from water by chitosan coated permutite granules. , 2013, , .		1
93	Removal of selected pharmaceuticals from aqueous solution using magnetic chitosan: sorption behavior and mechanism. <i>Environmental Science and Pollution Research</i> , 2014, 21, 12780-12789.	2.7	44
94	Preparation of an Estriol Surface Imprinted Polymer and its Adsorption Ability Evaluation. <i>Journal of Macromolecular Science - Physics</i> , 2014, 53, 662-672.	0.4	5
95	Enlarging bulblet by magnetic and chelating structures of nano-chitosan as supplementary fertilizer in Lilium. <i>Horticulture Environment and Biotechnology</i> , 2014, 55, 437-444.	0.7	9
96	Preparation, spectroscopic, and electrochemical characterization of metal(II) complexes with Schiff base ligands derived from chitosan: correlations of redox potentials with Hammett parameters. <i>Journal of Coordination Chemistry</i> , 2014, 67, 4114-4124.	0.8	8
97	Application of polyaniline/bacterial extracellular polysaccharide nanocomposite for removal and detoxification of Cr(VI). <i>Cellulose</i> , 2014, 21, 463-472.	2.4	28
98	A novel method for pullulanase immobilized onto magnetic chitosan/Fe ₃ O ₄ composite nanoparticles by in situ preparation and evaluation of the enzyme stability. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014, 109, 53-61.	1.8	42
99	Nanoparticles and core-shell nanocomposite based new generation water remediation materials and analytical techniques: A review. <i>Microchemical Journal</i> , 2014, 116, 62-76.	2.3	106
100	Recent progress and future challenges on the use of high performance magnetic nano-adsorbents in environmental applications. <i>Chemical Engineering Journal</i> , 2014, 256, 187-204.	6.6	325
102	Preparation of Magnetite-Mg/Al Hydrotalcite through Hydrothermal Process and Subsequent Calcination. <i>Advanced Materials Research</i> , 0, 1101, 336-339.	0.3	4
103	Fluoride adsorption on Fe ₃ O ₄ /Fe ₂ O ₃ nanoparticles. <i>Journal of Environmental Health Science & Engineering</i> , 2015, 13, 54.	1.4	31
104	Bioinspired fabrication and lead adsorption property of nano-hydroxyapatite/chitosan porous materials. <i>RSC Advances</i> , 2015, 5, 98783-98795.	1.7	20
105	Preparation and Characterization of Carboxymethyl Chitosan Modified Magnetic Nanoparticles for Bovine Serum Albumin Adsorption. <i>Separation Science and Technology</i> , 2015, 50, 299-309.	1.3	10
106	Preparation and heavy metal ion adsorption behavior of novel supermagnetic nanocomposite based on thiacalix[4]arene and polyaniline: Conductivity, isotherm and kinetic study. <i>Synthetic Metals</i> , 2015, 203, 135-148.	2.1	51
107	Immobilization of pullulanase onto activated magnetic chitosan/Fe ₃ O ₄ nanoparticles prepared by in situ mineralization and effect of surface functional groups on the stability. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 472, 69-77.	2.3	31
108	Critical Review on the Toxicity of Some Widely Used Engineered Nanoparticles. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 6209-6233.	1.8	222
109	Cobalt(II) acetylacetonate initiated RAFT polymerization of acrylonitrile and its application in removal of methyl orange after electrospinning. <i>RSC Advances</i> , 2015, 5, 58393-58402.	1.7	7
110	Application of Nanoparticles in Manufacturing. , 2015, , 1-53.		4

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111	Evaluation of cesium removal from radioactive waste water using maghemite PVA-alginate beads. Chemical Engineering Journal, 2015, 262, 372-382.	6.6	73
112	A New Derivative of Core-Shell Magnetic Chitosan Biopolymer: Synthesis, Characterization and Application for Adsorption of Lead and Copper Ions. Clean - Soil, Air, Water, 2016, 44, 710-719.	0.7	10
113	Comparison of Co ²⁺ adsorption by chitosan and its triethylene-tetramine derivative: Performance and mechanism. Carbohydrate Polymers, 2016, 151, 20-28.	5.1	45
114	One-Pot synthesis, characterization and adsorption studies of amine-functionalized magnetite nanoparticles for removal of Cr (VI) and Ni (II) ions from aqueous solution: kinetic, isotherm and thermodynamic studies. Journal of Environmental Health Science & Engineering, 2016, 14, 11.	1.4	48
115	Sorption of copper by chitosan hydrogel: Kinetics and equilibrium. Chemical Engineering and Processing: Process Intensification, 2016, 109, 104-113.	1.8	24
116	Chitosan Based Nanomaterials and Its Applications. , 2016, , 55-117.		2
117	Systems for Drug Delivery. , 2016, , .		3
118	A comparative study on sorption of arsenate ions from water by crosslinked chitosan and crosslinked chitosan/MMT nanocomposite. Journal of Environmental Chemical Engineering, 2016, 4, 4248-4257.	3.3	34
119	Potential applications of cellulose and chitosan nanoparticles/composites in wastewater treatment: A review. Carbohydrate Polymers, 2016, 153, 600-618.	5.1	333
120	Preparation and characterization of chitosan-Polyethylene glycol-polyvinylpyrrolidone-coated superparamagnetic iron oxide nanoparticles as carrier system: Drug loading and <i>in vitro</i> drug release study. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2016, 104, 808-816.	1.6	37
121	Nanomaterials for Monitoring and Remediation of Water Pollution. Sustainable Agriculture Reviews, 2016, , 207-233.	0.6	2
122	Silica coated Fe ₃ O ₄ magnetic nanospheres for high removal of organic pollutants from wastewater. Chemical Engineering Journal, 2016, 306, 280-288.	6.6	184
123	Nanocellulose/nanobentonite composite anchored with multi-carboxyl functional groups as an adsorbent for the effective removal of Cobalt(II) from nuclear industry wastewater samples. Journal of Colloid and Interface Science, 2016, 467, 307-320.	5.0	116
124	Aqueous Co(II) adsorption using 8-hydroxyquinoline anchored ¹³ Fe ₂ O ₃ @chitosan with Co(II) as imprinted ions. International Journal of Biological Macromolecules, 2016, 87, 375-384.	3.6	48
125	Adsorption of uranium(VI) from aqueous solutions using cross-linked magnetic chitosan beads. Journal of Radioanalytical and Nuclear Chemistry, 2016, 307, 1135-1140.	0.7	12
126	Removal of toxic Cr(VI) from water by a novel magnetic chitosan/glyoxal/PVA hydrogel film. Desalination and Water Treatment, 2016, 57, 14266-14279.	1.0	22
127	Novel Magnetic Chitosan Hydrogel Film, Cross-Linked with Glyoxal as an Efficient Adsorbent for Removal of Toxic Cr(VI) from Water. Arabian Journal for Science and Engineering, 2017, 42, 115-124.	1.7	35
128	Preparation and Heavy Metal Ion Adsorption Behavior of Novel Supermagnetic Nanocomposite of Hydrophilic Thiocalix[4]arene Self-doped Polyaniline: Conductivity, Isotherm, and Kinetic Study. Advances in Polymer Technology, 2017, 36, 107-119.	0.8	16

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129	Quantitative effects of amination degree on the magnetic iron oxide nanoparticles (MIONPs) using as adsorbents to remove aqueous heavy metal ions. <i>Journal of Hazardous Materials</i> , 2017, 335, 47-55.	6.5	28
130	Sulfoethyl functionalized silica nanoparticle as an adsorbent to selectively adsorb silver ions from aqueous solutions. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 71, 330-337.	2.7	40
131	Efficient Separation and High Selectivity for Cobalt and Nickel from Manganese Solution by a Chitosan Derivative: Competitive Behavior and Interaction Mechanisms. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 3418-3428.	1.8	7
133	Comparison of Co(II) adsorption by a crosslinked carboxymethyl chitosan hydrogel and resin: behaviour and mechanism. <i>New Journal of Chemistry</i> , 2017, 41, 3487-3497.	1.4	24
134	Efficient removal of Cs ⁺ and Sr ²⁺ from aqueous solution using hierarchically structured hexagonal tungsten trioxide coated Fe ₃ O ₄ . <i>Chemical Engineering Journal</i> , 2017, 319, 170-178.	6.6	45
135	Adsorption of Cu(II) ions in aqueous solution by aminated lignin from enzymatic hydrolysis residues. <i>RSC Advances</i> , 2017, 7, 44751-44758.	1.7	27
137	Adsorption of As(V) from contaminated water over chitosan coated magnetite nanoparticle: Equilibrium and kinetics study. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2017, 8, 297-305.	1.7	11
138	Silica Nanoparticles Modified with Trithiocyanuric Acid as a Potential Adsorbent for Removal of Ag ⁺ from Aqueous Solutions. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1.	1.1	10
139	Review on nanoadsorbents: a solution for heavy metal removal from wastewater. <i>IET Nanobiotechnology</i> , 2017, 11, 213-224.	1.9	77
140	Synthesis and characterization of nontoxic chitosan-coated Fe ₃ O ₄ particles for patulin adsorption in a juice-pH simulation aqueous. <i>Food Chemistry</i> , 2017, 221, 317-323.	4.2	68
141	Synthesis of magnetic biochar from agricultural waste biomass to enhancing route for waste water and polymer application: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 67, 257-276.	8.2	292
142	Removal of various pollutants from water and wastewater by modified chitosan adsorbents. <i>Critical Reviews in Environmental Science and Technology</i> , 2017, 47, 2331-2386.	6.6	272
143	Smart Carriers and Nanohealers: A Nanomedical Insight on Natural Polymers. <i>Materials</i> , 2017, 10, 929.	1.3	41
144	Synthesis and characterization of the immobilized Ni-Zn-Fe layered double hydroxide (LDH) on silica-coated magnetite as a mesoporous and magnetically reusable catalyst for the preparation of benzylidenemalononitriles and bisdimedones (tetraketones) under green conditions. <i>New Journal of Chemistry</i> , 2018, 42, 8553-8566.	1.4	49
145	Nanoparticles in household level water treatment: An overview. <i>Separation and Purification Technology</i> , 2018, 199, 260-270.	3.9	79
146	A magnetic nanocomposite produced from camel bones for an efficient adsorption of toxic metals from water. <i>Journal of Cleaner Production</i> , 2018, 178, 293-304.	4.6	133
147	Bio- and Nanosorbents from Natural Resources. <i>Springer Series on Polymer and Composite Materials</i> , 2018, , .	0.5	0
148	Functional Magnetic Nanoparticles for Highly Efficient Cholesterol Removal. <i>Journal of Food Science</i> , 2018, 83, 122-128.	1.5	8

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149	Radiation grafting of acrylamide and maleic acid on chitosan and effective application for removal of Co(II) from aqueous solutions. <i>Radiation Physics and Chemistry</i> , 2018, 144, 116-124.	1.4	31
150	Nanomaterials for removal of toxic elements from water. <i>Coordination Chemistry Reviews</i> , 2018, 356, 147-164.	9.5	362
151	Removal of cobalt (II) ions from aqueous solutions utilizing the pre-treated 2-Hypnea Valentiae algae: Equilibrium, thermodynamic, and dynamic studies. <i>Chemical Engineering Journal</i> , 2018, 331, 39-47.	6.6	73
152	Biotechnological Strategies for Effective Remediation of Polluted Soils. , 2018, , .		22
153	Nanobioremediation. , 2018, , 197-220.		5
154	Synthesis and Characteristics Nanocomposites of MCSHA and MHACS and Comparison of Adsorption of Methylene Blue with Adsorbents. <i>SSRN Electronic Journal</i> , 2018, , .	0.4	1
155	Opportunities and constraints of using the innovative adsorbents for the removal of cobalt(II) from wastewater: A review. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2018, 10, 435-456.	1.7	41
156	Binary copper and iron oxides immobilized on silica-layered magnetite as a new reusable heterogeneous nanostructure catalyst for the Knoevenagel condensation in water. <i>Research on Chemical Intermediates</i> , 2018, 44, 6053-6070.	1.3	30
157	Synthesis of highly efficient porous inorganic polymer microspheres for the adsorptive removal of Pb ²⁺ from wastewater. <i>Journal of Cleaner Production</i> , 2018, 193, 351-362.	4.6	88
158	Magnetic chitosan functionalized with β -cyclodextrin as ultrasound-assisted extraction adsorbents for the removal of methyl orange in wastewater coupled with high-performance liquid chromatography. <i>Journal of Separation Science</i> , 2018, 41, 3397-3403.	1.3	7
159	Employ of magnetic polyaniline coated chitosan nanocomposite for extraction and determination of phthalate esters in diapers and wipes using gas chromatography. <i>Microchemical Journal</i> , 2018, 142, 359-366.	2.3	14
160	Hexavalent chromium removal from aqueous solution using functionalized chitosan as a novel nano-adsorbent: modeling and optimization, kinetic, isotherm, and thermodynamic studies, and toxicity testing. <i>Environmental Science and Pollution Research</i> , 2018, 25, 20154-20168.	2.7	38
161	Effect of metal in Schiff bases of chitosan adsorbed on glassy carbon electrode in the inhibition of sphingomyelinase C toxin. <i>Food and Chemical Toxicology</i> , 2018, 120, 662-667.	1.8	1
162	Synthesis and Characteristics Nanocomposites of MCSHA and MHACS and Comparison of Adsorption of Methylene Blue with Adsorbents. <i>SSRN Electronic Journal</i> , 2018, , .	0.4	0
163	Synthesis and characterization of an adsorptive Schiff base-chitosan nanocomposite for removal of Pb(II) ion from aqueous media. <i>International Journal of Biological Macromolecules</i> , 2019, 139, 577-586.	3.6	44
164	Multifunctional Chitosan/Gold Nanoparticles Coatings for Biomedical Textiles. <i>Nanomaterials</i> , 2019, 9, 1064.	1.9	48
165	Improvement of dyes removal from aqueous solution by Nanosized cobalt ferrite treated with humic acid during coprecipitation. <i>Journal of Nanostructure in Chemistry</i> , 2019, 9, 281-298.	5.3	63
166	Cascade synthesis of fused polycyclic dihydropyridines by Ni ²⁺ /Zn ²⁺ /Fe hydrotalcite (HT) immobilized on silica-coated magnetite as magnetically reusable nanocatalyst. <i>Research on Chemical Intermediates</i> , 2019, 45, 2811-2825.	1.3	6

#	ARTICLE	IF	CITATIONS
167	An offshore solution to cobalt shortages via adsorption-based harvesting from seawater. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 105, 301-309.	8.2	11
168	Facile fabrication of inorganic polymer microspheres as adsorbents for removing heavy metal ions. <i>Materials Research Bulletin</i> , 2019, 113, 202-208.	2.7	17
169	Synthesis and metal ion adsorption characteristics of graphene oxide incorporated chitosan Schiff base. <i>International Journal of Biological Macromolecules</i> , 2019, 126, 908-916.	3.6	28
170	Photocatalytic degradation of RB dye by CdS-decorated nanocomposites based on polyaniline and hydrolyzed pectin: Isotherm and kinetic. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 102837.	3.3	23
171	New Generation Nano-Based Adsorbents for Water Purification. , 2019, , 783-798.		3
172	Binary nanocomposite of Fe ₃ O ₄ /MWCNTs for adsorption of Reactive Violet 2: Taguchi design, kinetics and equilibrium isotherms. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2019, 27, 305-316.	1.0	9
173	Removal of cobalt ion from aqueous solution using magnetic graphene oxide/chitosan composite. <i>Environmental Progress and Sustainable Energy</i> , 2019, 38, S32.	1.3	66
174	Efficient Enrichment of Eu ³⁺ , Tb ³⁺ , La ³⁺ and Sm ³⁺ on a Double Core Shell Nano Composite Based Silica. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020, 30, 1537-1552.	1.9	14
175	Structural and magnetic characteristics of carboxymethyl dextran coated magnetic nanoparticles: From characterization to immobilization application. <i>Reactive and Functional Polymers</i> , 2020, 148, 104481.	2.0	41
176	Synthesis, characterization and application of mesoporous silica in removal of cobalt ions from contaminated water. <i>Groundwater for Sustainable Development</i> , 2020, 11, 100425.	2.3	13
177	Emerging Eco-friendly Green Technologies for Wastewater Treatment. <i>Microorganisms for Sustainability</i> , 2020, , .	0.4	9
178	Applications and impact of nanocellulose based adsorbents. <i>Cellulose</i> , 2020, 27, 2967-2990.	2.4	72
179	Fibrous chitosan/cellulose composite as an efficient adsorbent for Co(â€¦) removal. <i>Journal of Cleaner Production</i> , 2021, 285, 124911.	4.6	59
180	New insights into the degradation of synthetic pollutants in contaminated environments. <i>Chemosphere</i> , 2021, 268, 128827.	4.2	146
181	Facile preparation of EDTA-functionalized magnetic chitosan for removal of co(II) from aqueous solutions. <i>Environmental Technology (United Kingdom)</i> , 2021, 42, 1313-1325.	1.2	6
182	Recent advances in synthesis, characterization, and applications of nanoparticles for contaminated water treatment- A review. <i>Ceramics International</i> , 2021, 47, 1526-1550.	2.3	97
183	Synthesis and applications of chitosan and its composites. , 2021, , 439-459.		0
184	Electrospinning of cellulose using ionic liquids: An overview on processing and applications. <i>European Polymer Journal</i> , 2021, 147, 110283.	2.6	31

#	ARTICLE	IF	CITATIONS
185	Nano-Adsorbents for Cobalt Removal from Wastewater: A Bibliometric Analysis of Research Articles Indexed in the Scopus Database. <i>Processes</i> , 2021, 9, 1177.	1.3	5
186	Removal of Cu (II) from industrial wastewater using poly (acrylamide-co-2-acrylamide-2-methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 study. <i>Journal of Water Process Engineering</i> , 2021, 42, 102144.	2.6	20
187	Research progress of adsorption and removal of heavy metals by chitosan and its derivatives: A review. <i>Chemosphere</i> , 2021, 279, 130927.	4.2	122
188	Synthesis of porous geopolymers for Ni(II) removal. <i>Ceramics International</i> , 2021, 47, 29055-29063.	2.3	21
189	Chitosan—A Promising Biomaterial for Dye Elimination. <i>Sustainable Textiles</i> , 2021, , 59-83.	0.4	0
190	Functional Nanocomposites for Heavy Metal Removal. <i>Chemistry in the Environment</i> , 2021, , 216-245.	0.2	0
191	Potential of chitosan/nanocellulose based composite membrane for the removal of heavy metal (chromium ion). <i>Materials Today: Proceedings</i> , 2021, 46, 10954-10959.	0.9	17
192	Application of Nanoparticles in Manufacturing. , 2016, , 1219-1278.		3
193	A review of advances in engineered composite materials popular for wastewater treatment. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104073.	3.3	87
194	Chitosan-Based Polymer Nanocomposites for Heavy Metal Removal. , 2014, , 1-22.		3
195	Synthesis and Characterization of a Chemically-Activated Novel Mesoporous Silica for Cobalt Decontamination from Polluted Water. <i>Current World Environment Journal</i> , 2019, 14, 276-289.	0.2	2
196	One Step In-Situ Formed Magnetic Chitosan Nanoparticles as an Efficient Sorbent for Removal of Mercury Ions From Petrochemical Waste Water: Batch and Column Study. <i>Jundishapur Journal of Health Sciences</i> , 2015, 7, .	0.1	6
197	Synthesis and Characterization of Magnetites Obtained from Mechanically and Sonochemically Assisted Co-precipitation and Reverse Co-precipitation Methods. <i>International Journal of Materials Mechanics and Manufacturing</i> , 2017, 5, 16-19.	0.2	13
198	Current Trend in the Application of Nanoparticles for Waste Water Treatment and Purification: A Review. <i>Current Organic Synthesis</i> , 2017, 14, 206-226.	0.7	37
199	Preparation and Characterization of Repaglinide Loaded Chitosan Polymeric Nanoparticles. <i>Research Journal of Nanoscience and Nanotechnology</i> , 2011, 1, 12-24.	2.0	19
200	Harnessing Magnetic Chitosan Nanocomposites for the Adsorption of Heavy-Metal Ions from Aqueous Medium. <i>Journal of Water Resource and Hydraulic Engineering</i> , 2015, 4, 191-197.	0.2	7
201	Infrared Analysis of Electrostatic Layer-By-Layer Polymer Membranes Having Characteristics of Heavy Metal Ion Desalination. , 0, , .		0
202	Chitosan-Based Natural Biosorbents: Novel Search for Water and Wastewater Desalination and Heavy Metal Detoxification. <i>Springer Series on Polymer and Composite Materials</i> , 2018, , 123-143.	0.5	1

#	ARTICLE	IF	CITATIONS
203	Biopolymers and Their Application in Wastewater Treatment. <i>Microorganisms for Sustainability</i> , 2020, , 245-266.	0.4	8
204	Nanocellulose-Based Materials for Wastewater Treatment. , 2021, , 1-33.		3
205	Unlocking nanomaterials for next generation solar-driven water treatment technologies. , 2022, , 263-309.		0
206	Prospects and implementation of nanotechnology in environmental remediation and clean up. , 2022, , 271-287.		2
207	Nanosorbents for heavy metals removal. , 2022, , 163-186.		0
208	Hydroxypicolinic Acid Tethered on Magnetite Core-Silica Shell (HPCA@SiO ₂ @Fe ₃ O ₄) as an Effective and Reusable Adsorbent for Practical Co(II) Recovery. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
209	Hydroxypicolinic acid tethered on magnetite core-silica shell (HPCA@SiO ₂ @Fe ₃ O ₄) as an effective and reusable adsorbent for practical Co(II) recovery. <i>Chemosphere</i> , 2022, 298, 134301.	4.2	2
210	Chitosan-based materials: Preparation, modification and application. <i>Journal of Cleaner Production</i> , 2022, 355, 131825.	4.6	139
211	Biopolymer in Wastewater Treatment. <i>Springer Series on Polymer and Composite Materials</i> , 2022, , 323-351.	0.5	6
212	Synthesis of novel nanoporous zinc phosphate/hydroxyapatite nano-rods (ZPh/HPANRs) core/shell for enhanced adsorption of Ni ²⁺ and Co ²⁺ ions: Characterization and application. <i>Journal of Molecular Liquids</i> , 2022, 360, 119527.	2.3	20
213	Nanocellulose-Based Materials for Wastewater Treatment. , 2022, , 809-841.		0
214	Removal of arsenic from contaminated water using radiation-induced grafted chitosan: a critical review. <i>Chemistry and Ecology</i> , 2022, 38, 671-705.	0.6	0
215	Carbon nanotube based magnetic composites for decontamination of organic chemical pollutants in water: A review. <i>Applied Surface Science Advances</i> , 2022, 10, 100270.	2.9	39
217	Nano-sorbents: A promising alternative for the remediation of noxious pollutants. , 2022, , 113-128.		0
218	Cost-effective adsorbents. , 2022, , 515-553.		4
219	Environmental Properties and Applications of Cellulose and Chitin-Based Bionanocomposites. <i>Advanced Structured Materials</i> , 2023, , 99-140.	0.3	2
220	Chitosan Nanoparticles as Potential Nano-Sorbent for Removal of Toxic Environmental Pollutants. <i>Nanomaterials</i> , 2023, 13, 447.	1.9	35
221	Experimental design for removal of lead ions from water samples using an engineered novel chitosan functionalized Schiff-base adsorbent. <i>Chemical Engineering Communications</i> , 2023, 210, 2022-2034.	1.5	1

#	ARTICLE	IF	CITATIONS
222	Applications of biodegradable polymer nanocomposites in water and wastewater treatment. , 2023, , 515-553.		1
223	Nanotechnology: Emerging Opportunities and Regulatory Aspects in Water Treatment. Environmental Contamination Remediation and Management, 2023, , 173-209.	0.5	0
237	Recent advances in sustainability science for environmental conservation. , 2024, , 83-90.		0