

A review on modification methods to cellulose-based adsorbents for heavy metal ions adsorption capacity

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Cellulose as a Scaffold for Self-Assembly: From Basic Research to Real Applications. <i>Langmuir</i> , 2016, 32, 12269-12282.	1.6	67
3	Tailoring the adsorption behavior of bone char for heavy metal removal from aqueous solution. <i>Adsorption Science and Technology</i> , 2016, 34, 368-387.	1.5	42
4	Biosorption of heavy metals by organic carbon from spent mushroom substrates and their raw materials. <i>International Journal of Environmental Science and Technology</i> , 2016, 13, 2713-2720.	1.8	37
5	Equilibrium kinetic and thermodynamic studies of Cr(VI) adsorption onto a novel adsorbent of <i>Eucalyptus camaldulensis</i> waste: Batch and column reactors. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 2898-2907.	1.2	49
6	RF atmospheric plasma jet surface treatment of paper. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 374001.	1.3	31
7	Microcrystalline cellulose: Isolation, characterization and bio-composites application—A review. <i>International Journal of Biological Macromolecules</i> , 2016, 93, 789-804.	3.6	497
8	Ratiometric ultrasensitive electrochemical immunosensor based on redox substrate and immunoprobe. <i>Scientific Reports</i> , 2016, 6, 35440.	1.6	17
9	Synthesis, characterization, and application of magnetic-activated carbon nanocomposite (m-Fe ₃ O ₄ @ACCs) as a new low-cost magnetic adsorbent for removal of Pb(II) from industrial wastewaters. <i>Desalination and Water Treatment</i> , 2016, 57, 28887-28899.	1.0	6
10	Poly o-phenylenediamine—MgAl@CaFe ₂ O ₄ nanohybrid for effective removing of lead(II), chromium(III) and anionic azo dye. <i>Chemical Engineering Research and Design</i> , 2016, 102, 687-699.	2.7	22
11	Fabrication of core-shell structured magnetic nanocellulose base polymeric ionic liquid for effective biosorption of Congo red dye. <i>Bioresource Technology</i> , 2016, 218, 326-334.	4.8	99
12	Nanocellulose as a novel nanostructured adsorbent for environmental remediation: a review. <i>Cellulose</i> , 2017, 24, 1171-1197.	2.4	305
13	Novel recyclable adsorbent for the removal of copper(II) and lead(II) from aqueous solution. <i>Bioresource Technology</i> , 2017, 229, 63-68.	4.8	77
14	Optimization of cellulose and sugarcane bagasse oxidation: Application for adsorptive removal of crystal violet and auramine-O from aqueous solution. <i>Journal of Colloid and Interface Science</i> , 2017, 494, 223-241.	5.0	65
15	Oilfield wastewater biotreatment in a fluidized-bed bioreactor using co-immobilized <i>Rhodococcus</i> cultures. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 1252-1260.	3.3	28
16	A bio-based coating onto the surface <i>Populus</i> fiber for oil spillage cleanup applications. <i>Industrial Crops and Products</i> , 2017, 98, 38-45.	2.5	18
17	Cellulose based grafted biosorbents - Journey from lignocellulose biomass to toxic metal ions sorption applications - A review. <i>Journal of Molecular Liquids</i> , 2017, 232, 62-93.	2.3	162
18	Optimizing the lanthanum adsorption process onto chemically modified biomaterials using factorial and response surface design. <i>Journal of Environmental Management</i> , 2017, 204, 839-844.	3.8	27
19	Enhancement of fibroblast growing on the mannosylated surface of cellulose membranes. <i>Materials Science and Engineering C</i> , 2017, 77, 672-679.	3.8	12

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20	Abnormal adsorption and desorption behavior of pharmaceutical drugs on polystyrene microspheres. <i>RSC Advances</i> , 2017, 7, 19639-19644.	1.7	5
21	MOF-derived magnetic porous carbon-based sorbent: Synthesis, characterization, and adsorption behavior of organic micropollutants. <i>Advanced Powder Technology</i> , 2017, 28, 1769-1779.	2.0	92
22	Effectively removal of cationic and anionic dyes by pH-sensitive amphoteric adsorbent derived from agricultural waste-wheat straw. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 76, 65-72.	2.7	66
23	Facile synthesis of cellulose derivatives based on cellulose acetoacetate. <i>Carbohydrate Polymers</i> , 2017, 170, 117-123.	5.1	32
24	Pectin gels cross-linked by Ca ²⁺ : An efficient material for methylene blue removal. <i>Journal of Molecular Liquids</i> , 2017, 238, 36-42.	2.3	26
25	Facile Design of Green Engineered Cellulose/Metal Hybrid Macrogels for Efficient Trace Phosphate Removal. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 7525-7533.	1.8	20
26	Improved Solid-Phase Synthesis of Phosphorylated Cellulose Microsphere Adsorbents for Highly Effective Pb ²⁺ Removal from Water: Batch and Fixed-Bed Column Performance and Adsorption Mechanism. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 5108-5117.	3.2	108
27	A novel carbon aerogel prepared for adsorption of copper(II) ion in water. <i>Journal of Porous Materials</i> , 2017, 24, 1575-1580.	1.3	26
28	Green Synthesis of ZnO Nanoparticles by an Alginate Mediated Ion-Exchange Process and a case study for Photocatalysis of Methylene Blue Dye. <i>Journal of Physics: Conference Series</i> , 2017, 829, 012014.	0.3	9
29	Cellulose and chitosan derivatives for enhanced sorption of erbium(III). <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 529, 580-593.	2.3	59
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32	Heat release at the wetting front during capillary filling of cellulosic micro-substrates. <i>Journal of Colloid and Interface Science</i> , 2017, 504, 751-757.	5.0	13
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34	Plasma surface modification of materials and their entrapment of water contaminant: A review. <i>Plasma Processes and Polymers</i> , 2017, 14, 1600218.	1.6	52
35	Design and function of biomimetic multilayer water purification membranes. <i>Science Advances</i> , 2017, 3, e1601939.	4.7	221
36	High efficient and selective removal of Pb ²⁺ through formation of lead molybdate on $\text{I}^{\pm}\text{-MoO}_3$ porous nanosheets array. <i>Journal of Colloid and Interface Science</i> , 2017, 491, 80-88.	5.0	20
37	Recent advances in nanomaterials for water protection and monitoring. <i>Chemical Society Reviews</i> , 2017, 46, 6946-7020.	18.7	441

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39	Novel modified microcrystalline cellulose-based porous material for fast and effective heavy-metal removal from aqueous solution. Cellulose, 2017, 24, 5565-5577.	2.4	36
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47	Nanocellulose based biosorbents for wastewater treatment: Study of isotherm, kinetic, thermodynamic and reusability. Environmental Nanotechnology, Monitoring and Management, 2017, 8, 134-149.	1.7	62
48	Synthesis of magnetic graphene oxide grafted polymaleicamide dendrimer nanohybrids for adsorption of Pb(II) in aqueous solution. Journal of Hazardous Materials, 2017, 340, 407-416.	6.5	91
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57	Experimental study on treating agate dyeing wastewater with sulfate-reducing bacteria strengthening peanut shells and scrap iron. <i>Water Science and Technology</i> , 2017, 76, 939-952.	1.2	1
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68	Enhanced removal of Cd(II) from water using sulfur-functionalized rice husk: Characterization, adsorptive performance and mechanism exploration. <i>Journal of Cleaner Production</i> , 2018, 183, 880-886.	4.6	58
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73	Recovery of silver from nickel electrolyte using corn stalk-based sulfur-bearing adsorbent. <i>Hydrometallurgy</i> , 2018, 176, 192-200.	1.8	18

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74	Covalently bonded ionic liquid onto cellulose for fast adsorption and efficient separation of Cr(VI): Batch, column and mechanism investigation. <i>Carbohydrate Polymers</i> , 2018, 189, 190-197.	5.1	77
75	Pectin microgel particles as high adsorption rate material for methylene blue: Performance, equilibrium, kinetic, mechanism and regeneration studies. <i>International Journal of Biological Macromolecules</i> , 2018, 112, 383-389.	3.6	38
76	Metals and metalloids treatment in contaminated neutral effluents using modified materials. <i>Journal of Environmental Management</i> , 2018, 212, 142-159.	3.8	29
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93	Cellulose nanowhiskers improve the methylene blue adsorption capacity of chitosan-g-poly(acrylic) Tj ETQq1 1 0.784314 rgBT /Overlook	5.1	181
94	High-Performance Waste Cellulose Based Adsorbent Used for Determination of Ag(I) Coordination Anions. <i>Journal of Polymers and the Environment</i> , 2018, 26, 2650-2659.	2.4	7
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105	Sorption of organic pollutants frequently detected in stormwater: evaluation of five potential sorbents. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 2335-2345.	1.2	10
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108	Rapid Removal of Poly- and Perfluorinated Alkyl Substances by Poly(ethylenimine)-Functionalized Cellulose Microcrystals at Environmentally Relevant Conditions. <i>Environmental Science and Technology Letters</i> , 2018, 5, 764-769.	3.9	99
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127	Sugarcane bagasse fiber and its cellulose nanocrystals for polymer reinforcement and heavy metal adsorbent: a review. <i>Cellulose</i> , 2018, 25, 4303-4330.	2.4	85

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