

# A review of the biochemistry of heavy metal biosorption

Water Research

37, 4311-4330

DOI: [10.1016/S0043-1354\(03\)00293-8](https://doi.org/10.1016/S0043-1354(03)00293-8)

Citation Report

#	ARTICLE	IF	CITATIONS
2	The process of innovation in small manufacturing firms. <i>International Journal of Technology Management</i> , 1999, 18, 610.	0.2	9
3	Cadmium Biosorption by <i>S. fluitans</i> : Treatment, Resilience and Uptake Relative to Other <i>Sargassum</i> spp. and Brown Algae. <i>Water Quality Research Journal of Canada</i> , 2004, 39, 183-189.	1.2	13
4	Thermal behavior of alginic acid and its sodium salt. <i>Eletica Quimica</i> , 2004, 29, 57-64.	0.2	305
5	Biosorption of Cadmium by <i>Fucus spiralis</i> . <i>Environmental Chemistry</i> , 2004, 1, 180.	0.7	116
6	Accumulation of hexavalent chromium by an exopolysaccharide producing marine <i>Enterobacter cloacae</i> . <i>Marine Pollution Bulletin</i> , 2004, 49, 974-977.	2.3	95
7	Extraction, isolation and cadmium binding of alginate from <i>Sargassum</i> spp.. <i>Journal of Applied Phycology</i> , 2004, 16, 275-284.	1.5	103
8	Removal of $^{60}\text{Co}^{2+}$ and $^{137}\text{Cs}^{+}$ ions from low radioactive solutions using <i>Azolla caroliniana</i> willd. water fern. <i>Open Chemistry</i> , 2004, 2, 434-445.	1.0	4
9	Physicochemical studies of Cadmium(II) biosorption by the invasive alga in Europe, <i>Sargassum muticum</i> . <i>Biotechnology and Bioengineering</i> , 2004, 88, 237-247.	1.7	118
10	Use of Bark Activated by Microalgae for Purification of Heavy Metal Contaminated Water. <i>Proceedings of the Water Environment Federation</i> , 2005, 2005, 50-57.	0.0	0
11	Biosorption of reactive dyes on the green alga <i>Chlorella vulgaris</i> . <i>Process Biochemistry</i> , 2005, 40, 1347-1361.	1.8	439
12	Biosorption of lead, cadmium and mercury by immobilized <i>Microcystis aeruginosa</i> in a column. <i>Process Biochemistry</i> , 2005, 40, 3675-3679.	1.8	86
13	Equilibrium biosorption isotherm for lead ion on chaff. <i>Journal of Hazardous Materials</i> , 2005, 125, 266-271.	6.5	171
14	Biosorption of cadmium by the protonated macroalga <i>Sargassum muticum</i> : Binding analysis with a nonideal, competitive, and thermodynamically consistent adsorption (NICCA) model. <i>Journal of Colloid and Interface Science</i> , 2005, 289, 352-358.	5.0	34
15	Biosorption of cadmium by biomass of brown marine macroalgae. <i>Bioresource Technology</i> , 2005, 96, 1796-1803.	4.8	177
16	Batch and column removal of copper from aqueous solution using a brown marine alga <i>Turbinaria ornata</i> . <i>Chemical Engineering Journal</i> , 2005, 106, 177-184.	6.6	153
17	COMPARISON OF Cd, Cu, AND Zn TOXIC EFFECTS ON FOUR MARINE PHYTOPLANKTON BY PULSE-AMPLITUDE-MODULATED FLUOROMETRY. <i>Environmental Toxicology and Chemistry</i> , 2005, 24, 2603.	2.2	133
18	Fucoidan inhibits cellular and neurotoxic effects of $\text{A}\beta^{25-35}$ in rat cholinergic basal forebrain neurons. <i>European Journal of Neuroscience</i> , 2005, 21, 2649-2659.	1.2	88
19	Biosorption of heavy metals by a marine bacterium. <i>Marine Pollution Bulletin</i> , 2005, 50, 340-343.	2.3	199

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20	Calcium alginate immobilized marine microalgae: Experiments on growth and short-term heavy metal accumulation. <i>Marine Pollution Bulletin</i> , 2005, 51, 823-829.	2.3	55
21	Biosorption of cobalt(II) and nickel(II) by seaweeds: batch and column studies. <i>Separation and Purification Technology</i> , 2005, 44, 53-59.	3.9	164
22	The interaction between Cu, Pb, Zn and Ni in their biosorption onto polyurethane-immobilised Sphagnum moss. <i>Journal of Chemical Technology and Biotechnology</i> , 2005, 80, 1297-1305.	1.6	18
23	Biosorption of heavy metals by chemically-activated alga <i>Fucus vesiculosus</i> . <i>Journal of Chemical Technology and Biotechnology</i> , 2005, 80, 1403-1407.	1.6	53
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25	Modelling of proton and metal exchange in the alginate biopolymer. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 383, 587-596.	1.9	26
26	Surface adsorption, intracellular accumulation and compartmentalization of Pb(II) in batch-operated lagoons with <i>Salvinia minima</i> as affected by environmental conditions, EDTA and nutrients. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2005, 32, 577-586.	1.4	37
27	Cadmium removal by <i>Juniperus monosperma</i> : The role of calcium oxalate monohydrate structure in bark. <i>Korean Journal of Chemical Engineering</i> , 2005, 22, 599-604.	1.2	4
28	Wall-associated Kinase WAK1 Interacts with Cell Wall Pectins in a Calcium-induced Conformation. <i>Plant and Cell Physiology</i> , 2005, 46, 268-278.	1.5	304
29	Different cadmium adsorption behavior of juniper wood and bark sorbents. , 0, , .		1
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33	Biosorption of copper, zinc, cadmium and nickel by <i>Chlorella vulgaris</i> . <i>Chemistry and Ecology</i> , 2005, 21, 61-75.	0.6	73
34	Orthophosphate Sorption onto Lanthanum-Treated Lignocellulosic Sorbents. <i>Environmental Science &amp; Technology</i> , 2005, 39, 6273-6279.	4.6	103
35	Quantifying Pb and Cd Complexation by Alginates and the Role of Metal Binding on Macromolecular Aggregation. <i>Biomacromolecules</i> , 2005, 6, 2756-2764.	2.6	60
36	Biosorption of copper, cobalt and nickel by marine green alga <i>Ulva reticulata</i> in a packed column. <i>Chemosphere</i> , 2005, 60, 419-426.	4.2	144
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39	Biosorption of La, Eu and Yb using <i>Sargassum</i> biomass. <i>Water Research</i> , 2005, 39, 239-247.	5.3	170
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42	Synergistic Antioxidative Effects of Alkamides, Caffeic Acid Derivatives, and Polysaccharide Fractions from <i>Echinacea purpurea</i> on In Vitro Oxidation of Human Low-Density Lipoproteins. <i>Journal of Agricultural and Food Chemistry</i> , 2005, 53, 9413-9423.	2.4	131
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44	Gold and Silver Uptake and Nanoprecipitation on Calcium Alginate Beads. <i>Langmuir</i> , 2005, 21, 7951-7958.	1.6	157
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46	Biosorption with Algae: A Statistical Review. <i>Critical Reviews in Biotechnology</i> , 2006, 26, 223-235.	5.1	233
47	Heavy Metals Remediation of Water Using Plants and Lignocellulosic Agrowastes. <i>Reviews of Environmental Contamination and Toxicology</i> , 2006, 188, 59-84.	0.7	58
48	Biosorption Process for Treatment of Electroplating Wastewater Containing Cr(VI): A Laboratory-Scale Feasibility Test. <i>Industrial &amp; Engineering Chemistry Research</i> , 2006, 45, 5059-5065.	1.8	91
49	Application of Two-and Three-Parameter Isotherm Models: Biosorption of Acid Red 88 onto <i>Azolla microphylla</i> . <i>Bioremediation Journal</i> , 2006, 10, 37-44.	1.0	55
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64	Interactions of cadmium(II) and protons with dead biomass of marine algae <i>Fucus</i> sp.. <i>Marine Chemistry</i> , 2006, 99, 106-116.	0.9	73
65	Biosorption of copper on <i>Chlorella vulgaris</i> from single, binary and ternary metal aqueous solutions. <i>Process Biochemistry</i> , 2006, 41, 457-464.	1.8	158
66	Desorption of lanthanum, europium and ytterbium from <i>Sargassum</i> . <i>Separation and Purification Technology</i> , 2006, 50, 71-76.	3.9	15
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94	Studies on Cr(VI), Pb(II) and Cu(II) adsorption-desorption using calcium alginate as biopolymer. <i>Chemical Speciation and Bioavailability</i> , 2007, 19, 17-24.	2.0	52
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105	Using FTIR to corroborate the identity of functional groups involved in the binding of Cd and Cr to saltbush ( <i>Atriplex canescens</i> ) biomass. <i>Chemosphere</i> , 2007, 66, 1424-1430.	4.2	67
106	Evidence for Egg-Box-Compatible Interactions in Calcium Alginate Gels from Fiber X-ray Diffraction. <i>Biomacromolecules</i> , 2007, 8, 2098-2103.	2.6	389
107	Fabrication and Manipulation of Ionotropic Hydrogels Cross-Linked by Paramagnetic Ions. <i>Chemistry of Materials</i> , 2007, 19, 1362-1368.	3.2	29
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129	Biosorption and bioreduction of Cr(VI) by a microalgal isolate, <i>Chlorella miniata</i> . <i>Journal of Hazardous Materials</i> , 2007, 146, 65-72.	6.5	193
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