

Cidlia Botelho

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91
papers

3,667
citations

32
h-index

59
g-index

92
ext. papers

4,261
ext. citations

8
avg, IF

5.78
L-index

#	Paper	IF	Citations
91	Arsenic and antimony in water and wastewater: overview of removal techniques with special reference to latest advances in adsorption. <i>Journal of Environmental Management</i> , 2015 , 151, 326-42	7.9	365
90	Selenium contaminated waters: An overview of analytical methods, treatment options and recent advances in sorption methods. <i>Science of the Total Environment</i> , 2015 , 521-522, 246-60	10.2	179
89	A review of the use of red mud as adsorbent for the removal of toxic pollutants from water and wastewater. <i>Environmental Technology (United Kingdom)</i> , 2011 , 32, 231-49	2.6	176
88	Oil and grease removal from wastewaters: Sorption treatment as an alternative to state-of-the-art technologies. A critical review. <i>Chemical Engineering Journal</i> , 2016 , 297, 229-255	14.7	166
87	Methylene blue adsorption by algal biomass based materials: biosorbents characterization and process behaviour. <i>Journal of Hazardous Materials</i> , 2007 , 147, 120-32	12.8	162
86	Performance and prospects of different adsorbents for phosphorus uptake and recovery from water. <i>Chemical Engineering Journal</i> , 2020 , 381, 122566	14.7	155
85	Tannin-based biosorbents for environmental applications [A review]. <i>Chemical Engineering Journal</i> , 2016 , 303, 575-587	14.7	148
84	Influence of pH, ionic strength and temperature on lead biosorption by Gelidium and agar extraction algal waste. <i>Process Biochemistry</i> , 2005 , 40, 3267-3275	4.8	146
83	Equilibrium and kinetic modelling of Cd(II) biosorption by algae Gelidium and agar extraction algal waste. <i>Water Research</i> , 2006 , 40, 291-302	12.5	127
82	Coconut-based biosorbents for water treatment--a review of the recent literature. <i>Advances in Colloid and Interface Science</i> , 2010 , 160, 1-15	14.3	123
81	Optimization of coagulation/flocculation and flotation parameters for the treatment of a petroleum refinery effluent from a Portuguese plant. <i>Chemical Engineering Journal</i> , 2012 , 183, 117-123	14.7	101
80	Use of cork powder and granules for the adsorption of pollutants: a review. <i>Water Research</i> , 2012 , 46, 3152-66	12.5	98
79	Copper removal by algae Gelidium, agar extraction algal waste and granulated algal waste: kinetics and equilibrium. <i>Bioresource Technology</i> , 2008 , 99, 750-62	11	89
78	Fish canning industry wastewater treatment for water reuse [a case study]. <i>Journal of Cleaner Production</i> , 2015 , 87, 603-612	10.3	65
77	Integrated reduction/oxidation reactions and sorption processes for Cr(VI) removal from aqueous solutions using Laminaria digitata macro-algae. <i>Chemical Engineering Journal</i> , 2014 , 237, 443-454	14.7	62
76	Arsenic removal from water using iron-coated seaweeds. <i>Journal of Environmental Management</i> , 2017 , 192, 224-233	7.9	59
75	Copper desorption from Gelidium algal biomass. <i>Water Research</i> , 2007 , 41, 1569-79	12.5	59

74	Integrated hydrological and water quality model for river management: a case study on Lena River. <i>Science of the Total Environment</i> , 2014 , 485-486, 474-489	10.2	53
73	Bioadsorptive removal of Pb(II) from aqueous solution by the biorefinery waste of <i>Fucus spiralis</i> . <i>Science of the Total Environment</i> , 2019 , 648, 1201-1209	10.2	51
72	Copper removal by algal biomass: biosorbents characterization and equilibrium modelling. <i>Journal of Hazardous Materials</i> , 2009 , 163, 1113-22	12.8	48
71	Chromium and zinc uptake by algae <i>Gelidium</i> and agar extraction algal waste: kinetics and equilibrium. <i>Journal of Hazardous Materials</i> , 2007 , 149, 643-9	12.8	48
70	Optimization of nickel biosorption by chemically modified brown macroalgae (<i>Pelvetia canaliculata</i>). <i>Chemical Engineering Journal</i> , 2012 , 193-194, 256-266	14.7	46
69	Continuous biosorption of Pb/Cu and Pb/Cd in fixed-bed column using algae <i>Gelidium</i> and granulated agar extraction algal waste. <i>Journal of Hazardous Materials</i> , 2008 , 154, 1173-82	12.8	46
68	Watershed model parameter estimation and uncertainty in data-limited environments. <i>Environmental Modelling and Software</i> , 2014 , 51, 84-93	5.2	44
67	Application of the Nernst-Planck approach to lead ion exchange in Ca-loaded <i>Pelvetia canaliculata</i> . <i>Water Research</i> , 2010 , 44, 3946-58	12.5	42
66	Arsenate and arsenite adsorption onto iron-coated cork granulates. <i>Science of the Total Environment</i> , 2018 , 642, 1075-1089	10.2	41
65	Textural and Surface Characterization of Cork-Based Sorbents for the Removal of Oil from Water. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 16427-16435	3.9	40
64	Adding value to marine macro-algae <i>Laminaria digitata</i> through its use in the separation and recovery of trivalent chromium ions from aqueous solution. <i>Chemical Engineering Journal</i> , 2012 , 193-194, 348-357	14.7	38
63	Biosorption of copper by marine algae <i>Gelidium</i> and algal composite material in a packed bed column. <i>Bioresource Technology</i> , 2008 , 99, 5830-8	11	37
62	Surface Water Quality Assessment of Lis River Using Multivariate Statistical Methods. <i>Water, Air, and Soil Pollution</i> , 2012 , 223, 5549-5561	2.6	35
61	The use of pine bark as a natural adsorbent for persistent organic pollutants: study of lindane and heptachlor adsorption. <i>Journal of Chemical Technology and Biotechnology</i> , 2003 , 78, 347-351	3.5	35
60	Lead and copper biosorption by marine red algae <i>Gelidium</i> and algal composite material in a CSTR (Carberry type). <i>Chemical Engineering Journal</i> , 2008 , 138, 249-257	14.7	34
59	Equilibrium and kinetic modelling of Pb ²⁺ biosorption by granulated agar extraction algal waste. <i>Process Biochemistry</i> , 2005 , 40, 3276-3284	4.8	32
58	Insights into trivalent chromium biosorption onto protonated brown algae <i>Pelvetia canaliculata</i> : Distribution of chromium ionic species on the binding sites. <i>Chemical Engineering Journal</i> , 2012 , 200-202, 140-148	14.7	30
57	BIOSORPTION OF ANTIMONY BY BROWN ALGAE <i>S. muticum</i> AND <i>A. nodosum</i> . <i>Environmental Engineering and Management Journal</i> , 2015 , 14, 455-463	0.6	29

56	Kinetics and equilibrium modelling of lead uptake by algae <i>Gelidium</i> and algal waste from agar extraction industry. <i>Journal of Hazardous Materials</i> , 2007 , 143, 396-408	12.8	27
55	Biosorption of antimony oxyanions by brown seaweeds: Batch and column studies. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 3463-3471	6.8	26
54	Modeling equilibrium and kinetics of metal uptake by algal biomass in continuous stirred and packed bed adsorbers. <i>Adsorption</i> , 2007 , 13, 587-601	2.6	26
53	Water quality modelling of Lis River, Portugal. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 508-24	5.1	25
52	Treatment of vegetable oil refinery wastewater by sorption of oil and grease onto regranulated cork IIA study in batch and continuous mode. <i>Chemical Engineering Journal</i> , 2015 , 268, 92-101	14.7	22
51	Evaluation of a tannin-based coagulant on the decolorization of synthetic effluents. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 103125	6.8	21
50	Recovery and valorization of tannins from a forest waste as an adsorbent for antimony uptake. <i>Journal of Cleaner Production</i> , 2018 , 198, 1324-1335	10.3	20
49	Primary treatment optimization of a fish canning wastewater from a Portuguese plant. <i>Water Resources and Industry</i> , 2014 , 6, 51-63	4.5	20
48	Water quality in Lis river, Portugal. <i>Environmental Monitoring and Assessment</i> , 2012 , 184, 7125-40	3.1	20
47	Green macroalgae from the Romanian coast of Black Sea: Physico-chemical characterization and future perspectives on their use as metal anions biosorbents. <i>Chemical Engineering Research and Design</i> , 2017 , 108, 34-43	5.5	19
46	Removal of antimony from water by iron-coated cork granulates. <i>Separation and Purification Technology</i> , 2020 , 233, 116020	8.3	19
45	Antimony oxyanions uptake by green marine macroalgae. <i>Journal of Environmental Chemical Engineering</i> , 2016 , 4, 3441-3450	6.8	19
44	Fish canning wastewater treatment by activated sludge: Application of factorial design optimization. <i>Water Resources and Industry</i> , 2015 , 10, 29-38	4.5	18
43	Water quality in Minho/Miã River (Portugal/Spain). <i>Environmental Monitoring and Assessment</i> , 2013 , 185, 3269-81	3.1	18
42	Lead uptake by algae <i>Gelidium</i> and composite material particles in a packed bed column. <i>Chemical Engineering Journal</i> , 2008 , 144, 420-430	14.7	18
41	Optimization of a primary gravity separation treatment for vegetable oil refinery wastewaters. <i>Clean Technologies and Environmental Policy</i> , 2014 , 16, 1725-1734	4.3	17
40	Removal of Cu and Cr from an industrial effluent using a packed-bed column with algae <i>Gelidium</i> -derived material. <i>Hydrometallurgy</i> , 2009 , 96, 42-46	4	17
39	Cadmium uptake by algal biomass in batch and continuous (CSTR and packed bed column) adsorbers. <i>Biochemical Engineering Journal</i> , 2008 , 42, 276-289	4.2	17

38	Effect of Cu(II), Cd(II) and Zn(II) on Pb(II) biosorption by algae Gelidium-derived materials. <i>Journal of Hazardous Materials</i> , 2008 , 154, 711-20	12.8	17
37	Biological treatment by activated sludge of petroleum refinery wastewaters. <i>Desalination and Water Treatment</i> , 2013 , 51, 6641-6654		16
36	Interactions of lead(II) with natural river water: part I. Soluble organics. <i>Science of the Total Environment</i> , 1994 , 149, 69-81	10.2	15
35	Valorisation of marine <i>Pelvetia canaliculata</i> Ochrophyta for separation and recovery of nickel from water: Equilibrium and kinetics modeling on Na-loaded algae. <i>Chemical Engineering Journal</i> , 2012 , 200-202, 365-372	14.7	14
34	Metal biosorption by algae Gelidium derived materials from binary solutions in a continuous stirred adsorber. <i>Chemical Engineering Journal</i> , 2008 , 141, 42-50	14.7	14
33	Interactions of Pb(II) with particles of a polluted river. <i>Analytica Chimica Acta</i> , 2002 , 462, 73-85	6.6	14
32	Biorefinery of marine macroalgae into high-tech bioproducts: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 969-1000	13.3	14
31	Performance evaluation of the main units of a refinery wastewater treatment plant [A case study. <i>Journal of Environmental Chemical Engineering</i> , 2015 , 3, 2095-2103	6.8	13
30	Complexation mechanisms in arsenic and phosphorus adsorption onto iron-coated cork granulates. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104184	6.8	13
29	Chemical oxidation of fish canning wastewater by Fenton's reagent. <i>Journal of Environmental Chemical Engineering</i> , 2014 , 2, 2372-2376	6.8	13
28	Kinetics modelling of biosorption by algal biomass from binary metal solutions using batch contactors. <i>Biochemical Engineering Journal</i> , 2008 , 38, 319-325	4.2	13
27	Boron fixation in wood: studies of fixation mechanisms using model compounds and maritime pine. <i>European Journal of Wood and Wood Products</i> , 2006 , 64, 445-450	2.1	13
26	Tannin-Adsorbents for Water Decontamination and for the Recovery of Critical Metals: Current State and Future Perspectives. <i>Biotechnology Journal</i> , 2019 , 14, e1900060	5.6	12
25	Global Warming Effects on Faecal Coliform Bacterium Watershed Impairments in Portugal. <i>River Research and Applications</i> , 2015 , 31, 1344-1353	2.3	11
24	Water Remediation Using Calcium Phosphate Derived From Marine Residues. <i>Water, Air, and Soil Pollution</i> , 2012 , 223, 989-1003	2.6	10
23	Trace Metal Fractionation by the Sequential Extraction Method in Sediments from the Lis River (Portugal). <i>Soil and Sediment Contamination</i> , 2009 , 18, 102-119	3.2	10
22	Chemical and Biological Treatment of Fish Canning Wastewaters. <i>International Journal of Bioscience, Biochemistry, Bioinformatics (IJBBB)</i> , 2012 , 237-242	0.3	7
21	Current Trends of Arsenic Adsorption in Continuous Mode: Literature Review and Future Perspectives. <i>Sustainability</i> , 2021 , 13, 1186	3.6	7

20	Macroalgae Biomass as Sorbent for Metal Ions 2018 , 69-112		7
19	Modeling of trivalent chromium speciation in binding sites of marine macroalgae <i>Sargassum Cymosum</i> . <i>Clean Technologies and Environmental Policy</i> , 2013 , 15, 987-997	4.3	6
18	Interactions of lead(II) with natural river water. Part II: particulate matter. <i>Science of the Total Environment</i> , 1994 , 151, 101-112	10.2	6
17	Oil desorption and recovery from cork sorbents. <i>Journal of Environmental Chemical Engineering</i> , 2015 , 3, 2917-2923	6.8	5
16	Turning <i>Laminaria digitata</i> seaweed into a resource for sustainable and ecological removal of trivalent chromium ions from aqueous solutions. <i>Clean Technologies and Environmental Policy</i> , 2013 , 15, 955-965	4.3	5
15	Sulphide removal from petroleum refinery wastewaters by catalytic oxidation. <i>Desalination and Water Treatment</i> , 2012 , 46, 256-263		5
14	Multicomponent adsorption of pentavalent As, Sb and P onto iron-coated cork granulates. <i>Journal of Hazardous Materials</i> , 2021 , 406, 124339	12.8	5
13	The role of emulsion properties and stability in vegetable oil uptake by regranulated cork sorbents. <i>Journal of Chemical Technology and Biotechnology</i> , 2015 , 90, 1601-1610	3.5	4
12	Uptake and Recovery of Gold from Simulated Hydrometallurgical Liquors by Adsorption on Pine Bark Tannin Resin. <i>Water (Switzerland)</i> , 2020 , 12, 3456	3	4
11	Cr(III) uptake by marine algal biomass: equilibrium and kinetics. <i>International Journal of Environment and Waste Management</i> , 2011 , 8, 325	0.9	4
10	Tannin-based coagulants: Current development and prospects on synthesis and uses.. <i>Science of the Total Environment</i> , 2022 , 822, 153454	10.2	3
9	Influence of Metals on Lindane Adsorption onto Pine Bark. <i>Water, Air and Soil Pollution</i> , 2003 , 3, 181-188		2
8	Environmental Friendly Technologies for Wastewater Treatment: Biosorption of Heavy Metals Using Low Cost Materials and Solar Photocatalysis. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2011 , 159-173	0.3	2
7	Removal of arsenic from water by an iron-loaded resin prepared from <i>Pinus pinaster</i> bark tannins. <i>Euro-Mediterranean Journal for Environmental Integration</i> , 2020 , 5, 1	1.7	2
6	Metal Complexation with Different types of Soluble and Adsorbed Freshwater Ligands Followed by DPASV. <i>Aquatic Geochemistry</i> , 2007 , 13, 173-186	1.7	1
5	Antimony removal from water by pine bark tannin resin: Batch and fixed-bed adsorption. <i>Journal of Environmental Management</i> , 2022 , 302, 114100	7.9	1
4	Whole-body vibration exposure in forklift operators – short review 2017 ,		1
3	Efficient removal of arsenic from aqueous solution by continuous adsorption onto iron-coated cork granulates.. <i>Journal of Hazardous Materials</i> , 2022 , 432, 128657	12.8	0

2 BIOSORPTION PERFORMANCE OF A BINARY METAL MIXTURE BY ALGAL BIOMASS: COLUMN EXPERIMENTS **2006**, 281-286

1 Establishing the state-of-the-art on the adsorption of coexisting pnictogens in water: A literature review. *Chemosphere*, **2022**, 286, 131947

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