

# Cidália Botelho

## List of Publications by Year in descending order

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92  
papers

4,894  
citations

109321  
35  
h-index

95266  
68  
g-index

92  
all docs

92  
docs citations

92  
times ranked

5707  
citing authors

#	ARTICLE	IF	CITATIONS
1	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, 326-342.	7.8	480
2	Performance and prospects of different adsorbents for phosphorus uptake and recovery from water. <i>Chemical Engineering Journal</i> , 2020, 381, 122566.	12.7	333
3	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, 246-260.	8.0	241
4	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.	12.7	239
5	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, 231-249.	2.2	224
6	Tannin-based biosorbents for environmental applications – A review. <i>Chemical Engineering Journal</i> , 2016, 303, 575-587.	12.7	207
7	Methylene blue adsorption by algal biomass based materials: Biosorbents characterization and process behaviour. <i>Journal of Hazardous Materials</i> , 2007, 147, 120-132.	12.4	187
8	Influence of pH, ionic strength and temperature on lead biosorption by <i>Gelidium</i> and agar extraction algal waste. <i>Process Biochemistry</i> , 2005, 40, 3267-3275.	3.7	164
9	Coconut-based biosorbents for water treatment – A review of the recent literature. <i>Advances in Colloid and Interface Science</i> , 2010, 160, 1-15.	14.7	159
10	Equilibrium and kinetic modelling of Cd(II) biosorption by algae <i>Gelidium</i> and agar extraction algal waste. <i>Water Research</i> , 2006, 40, 291-302.	11.3	141
11	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.	12.7	134
12	Use of cork powder and granules for the adsorption of pollutants: A review. <i>Water Research</i> , 2012, 46, 3152-3166.	11.3	130
13	Copper removal by algae <i>Gelidium</i> , agar extraction algal waste and granulated algal waste: Kinetics and equilibrium. <i>Bioresource Technology</i> , 2008, 99, 750-762.	9.6	101
14	Fish canning industry wastewater treatment for water reuse – a case study. <i>Journal of Cleaner Production</i> , 2015, 87, 603-612.	9.3	81
15	Arsenic removal from water using iron-coated seaweeds. <i>Journal of Environmental Management</i> , 2017, 192, 224-233.	7.8	80
16	Arsenate and arsenite adsorption onto iron-coated cork granulates. <i>Science of the Total Environment</i> , 2018, 642, 1075-1089.	8.0	70
17	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.	8.0	68
18	Integrated reduction/oxidation reactions and sorption processes for Cr(VI) removal from aqueous solutions using <i>Laminaria digitata</i> macro-algae. <i>Chemical Engineering Journal</i> , 2014, 237, 443-454.	12.7	66

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19	Copper desorption from Gelidium algal biomass. Water Research, 2007, 41, 1569-1579.	11.3	65
20	Integrated hydrological and water quality model for river management: A case study on Lena River. Science of the Total Environment, 2014, 485-486, 474-489.	8.0	61
21	Chromium and zinc uptake by algae Gelidium and agar extraction algal waste: Kinetics and equilibrium. Journal of Hazardous Materials, 2007, 149, 643-649.	12.4	56
22	Copper removal by algal biomass: Biosorbents characterization and equilibrium modelling. Journal of Hazardous Materials, 2009, 163, 1113-1122.	12.4	55
23	Continuous biosorption of Pb/Cu and Pb/Cd in fixed-bed column using algae Gelidium and granulated agar extraction algal waste. Journal of Hazardous Materials, 2008, 154, 1173-1182.	12.4	53
24	Textural and Surface Characterization of Cork-Based Sorbents for the Removal of Oil from Water. Industrial & Engineering Chemistry Research, 2013, 52, 16427-16435.	3.7	51
25	Optimization of nickel biosorption by chemically modified brown macroalgae (Pelvetia canaliculata). Chemical Engineering Journal, 2012, 193-194, 256-266.	12.7	49
26	Watershed model parameter estimation and uncertainty in data-limited environments. Environmental Modelling and Software, 2014, 51, 84-93.	4.5	48
27	Application of the Nernst-Planck approach to lead ion exchange in Ca-loaded Pelvetia canaliculata. Water Research, 2010, 44, 3946-3958.	11.3	46
28	Surface Water Quality Assessment of Lis River Using Multivariate Statistical Methods. Water, Air, and Soil Pollution, 2012, 223, 5549-5561.	2.4	46
29	The use of pine bark as a natural adsorbent for persistent organic pollutants - study of lindane and heptachlor adsorption. Journal of Chemical Technology and Biotechnology, 2003, 78, 347-351.	3.2	44
30	Biosorption of copper by marine algae Gelidium and algal composite material in a packed bed column. Bioresource Technology, 2008, 99, 5830-5838.	9.6	43
31	Adding value to marine macro-algae Laminaria digitata through its use in the separation and recovery of trivalent chromium ions from aqueous solution. Chemical Engineering Journal, 2012, 193-194, 348-357.	12.7	43
32	Equilibrium and kinetic modelling of Pb <sup>2+</sup> biosorption by granulated agar extraction algal waste. Process Biochemistry, 2005, 40, 3276-3284.	3.7	39
33	Lead and copper biosorption by marine red algae Gelidium and algal composite material in a CSTR (Carberry-type). Chemical Engineering Journal, 2008, 138, 249-257.	12.7	38
34	BIOSORPTION OF ANTIMONY BY BROWN ALGAE S. muticum AND A. nodosum. Environmental Engineering and Management Journal, 2015, 14, 455-463.	0.6	37
35	Biorefinery of marine macroalgae into high-tech bioproducts: a review. Environmental Chemistry Letters, 2021, 19, 969-1000.	16.2	36
36	Efficient removal of arsenic from aqueous solution by continuous adsorption onto iron-coated cork granulates. Journal of Hazardous Materials, 2022, 432, 128657.	12.4	36

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37	Modeling equilibrium and kinetics of metal uptake by algal biomass in continuous stirred and packed bed adsorbers. <i>Adsorption</i> , 2007, 13, 587-601.	3.0	35
38	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.	12.7	35
39	Biosorption of antimony oxyanions by brown seaweeds: Batch and column studies. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 3463-3471.	6.7	35
40	Evaluation of a tannin-based coagulant on the decolorization of synthetic effluents. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103125.	6.7	35
41	Removal of antimony from water by iron-coated cork granulates. <i>Separation and Purification Technology</i> , 2020, 233, 116020.	7.9	35
42	Tanninâ€Adsorbents for Water Decontamination and for the Recovery of Critical Metals: Current State and Future Perspectives. <i>Biotechnology Journal</i> , 2019, 14, e1900060.	3.5	33
43	Water quality modelling of Lis River, Portugal. <i>Environmental Science and Pollution Research</i> , 2013, 20, 508-524.	5.3	32
44	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.	12.4	29
45	Primary treatment optimization of a fish canning wastewater from a Portuguese plant. <i>Water Resources and Industry</i> , 2014, 6, 51-63.	3.9	28
46	Treatment of vegetable oil refinery wastewater by sorption of oil and grease onto regranulated cork â€ A study in batch and continuous mode. <i>Chemical Engineering Journal</i> , 2015, 268, 92-101.	12.7	27
47	Antimony oxyanions uptake by green marine macroalgae. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 3441-3450.	6.7	26
48	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.	9.3	26
49	Complexation mechanisms in arsenic and phosphorus adsorption onto iron-coated cork granulates. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104184.	6.7	26
50	Water quality in Lis river, Portugal. <i>Environmental Monitoring and Assessment</i> , 2012, 184, 7125-7140.	2.7	24
51	Water quality in Minho/Mião River (Portugal/Spain). <i>Environmental Monitoring and Assessment</i> , 2013, 185, 3269-3281.	2.7	23
52	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.	5.6	23
53	Biological treatment by activated sludge of petroleum refinery wastewaters. <i>Desalination and Water Treatment</i> , 2013, 51, 6641-6654.	1.0	22
54	Optimization of a primary gravity separation treatment for vegetable oil refinery wastewaters. <i>Clean Technologies and Environmental Policy</i> , 2014, 16, 1725-1734.	4.1	22

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55	Current Trends of Arsenic Adsorption in Continuous Mode: Literature Review and Future Perspectives. Sustainability, 2021, 13, 1186.	3.2	22
56	Interactions of lead(II) with natural river water: part I. Soluble organics. Science of the Total Environment, 1994, 149, 69-81.	8.0	21
57	Effect of Cu(II), Cd(II) and Zn(II) on Pb(II) biosorption by algae Gelidium-derived materials. Journal of Hazardous Materials, 2008, 154, 711-720.	12.4	21
58	Fish canning wastewater treatment by activated sludge: Application of factorial design optimization. Water Resources and Industry, 2015, 10, 29-38.	3.9	21
59	Lead uptake by algae Gelidium and composite material particles in a packed bed column. Chemical Engineering Journal, 2008, 144, 420-430.	12.7	20
60	Boron fixation in wood: studies of fixation mechanisms using model compounds and maritime pine. European Journal of Wood and Wood Products, 2006, 64, 445-450.	2.9	19
61	Cadmium uptake by algal biomass in batch and continuous (CSTR and packed bed column) adsorbers. Biochemical Engineering Journal, 2008, 42, 276-289.	3.6	18
62	Removal of Cu and Cr from an industrial effluent using a packed-bed column with algae Gelidium-derived material. Hydrometallurgy, 2009, 96, 42-46.	4.3	18
63	Chemical oxidation of fish canning wastewater by Fenton's reagent. Journal of Environmental Chemical Engineering, 2014, 2, 2372-2376.	6.7	18
64	Tannin-based coagulants: Current development and prospects on synthesis and uses. Science of the Total Environment, 2022, 822, 153454.	8.0	18
65	Metal biosorption by algae Gelidium derived materials from binary solutions in a continuous stirred adsorber. Chemical Engineering Journal, 2008, 141, 42-50.	12.7	16
66	Valorisation of marine Pelvetia canaliculata Ochrophyta for separation and recovery of nickel from water: Equilibrium and kinetics modeling on Na-loaded algae. Chemical Engineering Journal, 2012, 200-202, 365-372.	12.7	16
67	Performance evaluation of the main units of a refinery wastewater treatment plant – A case study. Journal of Environmental Chemical Engineering, 2015, 3, 2095-2103.	6.7	16
68	Multicomponent adsorption of pentavalent As, Sb and P onto iron-coated cork granulates. Journal of Hazardous Materials, 2021, 406, 124339.	12.4	16
69	Interactions of Pb(II) with particles of a polluted river. Analytica Chimica Acta, 2002, 462, 73-85.	5.4	15
70	Water Remediation Using Calcium Phosphate Derived From Marine Residues. Water, Air, and Soil Pollution, 2012, 223, 989-1003.	2.4	15
71	Global Warming Effects on Faecal Coliform Bacterium Watershed Impairments in Portugal. River Research and Applications, 2015, 31, 1344-1353.	1.7	14
72	Kinetics modelling of biosorption by algal biomass from binary metal solutions using batch contactors. Biochemical Engineering Journal, 2008, 38, 319-325.	3.6	13

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73	Macroalgae Biomass as Sorbent for Metal Ions. , 2018, , 69-112.		12
74	Uptake and Recovery of Gold from Simulated Hydrometallurgical Liquors by Adsorption on Pine Bark Tannin Resin. Water (Switzerland), 2020, 12, 3456.	2.7	12
75	Trace Metal Fractionation by the Sequential Extraction Method in Sediments from the Lis River (Portugal). Soil and Sediment Contamination, 2009, 18, 102-119.	1.9	11
76	Interactions of lead(II) with natural river water. Part II: particulate matter. Science of the Total Environment, 1994, 151, 101-112.	8.0	10
77	Chemical and Biological Treatment of Fish Canning Wastewaters. International Journal of Bioscience, Biochemistry, Bioinformatics (IJBBB), 2012, , 237-242.	0.2	8
78	Modeling of trivalent chromium speciation in binding sites of marine macroalgae Sargassum Cymosum. Clean Technologies and Environmental Policy, 2013, 15, 987-997.	4.1	7
79	Oil desorption and recovery from cork sorbents. Journal of Environmental Chemical Engineering, 2015, 3, 2917-2923.	6.7	7
80	Removal of arsenic from water by an iron-loaded resin prepared from Pinus pinaster bark tannins. Euro-Mediterranean Journal for Environmental Integration, 2020, 5, 1.	1.3	7
81	Antimony removal from water by pine bark tannin resin: Batch and fixed-bed adsorption. Journal of Environmental Management, 2022, 302, 114100.	7.8	7
82	Turning Laminaria digitata seaweed into a resource for sustainable and ecological removal of trivalent chromium ions from aqueous solutions. Clean Technologies and Environmental Policy, 2013, 15, 955-965.	4.1	6
83	The role of emulsion properties and stability in vegetable oil uptake by regranulated cork sorbents. Journal of Chemical Technology and Biotechnology, 2015, 90, 1601-1610.	3.2	6
84	Sulphide removal from petroleum refinery wastewaters by catalytic oxidation. Desalination and Water Treatment, 2012, 46, 256-263.	1.0	5
85	Cr(III) uptake by marine algal biomass: equilibrium and kinetics. International Journal of Environment and Waste Management, 2011, 8, 325.	0.3	4
86	Influence of Metals on Lindane Adsorption onto Pine Bark. Water, Air and Soil Pollution, 2003, 3, 181-188.	0.8	3
87	Environmental Friendly Technologies for Wastewater Treatment: Biosorption of Heavy Metals Using Low Cost Materials and Solar Photocatalysis. NATO Science for Peace and Security Series C: Environmental Security, 2011, , 159-173.	0.2	2
88	Metal Complexation with Different types of Soluble and Adsorbed Freshwater Ligands Followed by DPASV. Aquatic Geochemistry, 2007, 13, 173-186.	1.3	1
89	Whole-body vibration exposure in forklift operators—a short review. , 2017, , .		1
90	Decolorization of a Simulated Reactive Textile Dyeing Effluent using a Plant-derived Coagulant. U Porto Journal of Engineering, 2022, 8, 13-25.	0.4	1

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91	Establishing the state-of-the-art on the adsorption of coexisting pnictogens in water: A literature review. Chemosphere, 2022, 286, 131947.	8.2	0
92	BIOSORPTION PERFORMANCE OF A BINARY METAL MIXTURE BY ALGAL BIOMASS: COLUMN EXPERIMENTS. , 2006, , 281-286.		0