CidÃ¡lia Botelho

List of Publications by Year
in descending order

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92 papers	4,894 citations	109264 35 h-index	95218 68 g-index
92 all docs	92 docs citations	92 times ranked	5707 citing authors

#	ARTICLE	IF	CITATIONS
1	Establishing the state-of-the-art on the adsorption of coexisting pnictogens in water: A literature review. Chemosphere, 2022, 286, 131947.	4.2	0
2	Antimony removal from water by pine bark tannin resin: Batch and fixed-bed adsorption. Journal of Environmental Management, 2022, 302, 114100.	3.8	7
3	Tannin-based coagulants: Current development and prospects on synthesis and uses. Science of the Total Environment, 2022, 822, 153454.	3.9	18
4	Efficient removal of arsenic from aqueous solution by continuous adsorption onto iron-coated cork granulates. Journal of Hazardous Materials, 2022, 432, 128657.	6.5	36
5	Decolorization of a Simulated Reactive Textile Dyeing Effluent using a Plant-derived Coagulant. U Porto Journal of Engineering, 2022, 8, 13-25.	0.2	1
6	Biorefinery of marine macroalgae into high-tech bioproducts: a review. Environmental Chemistry Letters, 2021, 19, 969-1000.	8.3	36
7	Multicomponent adsorption of pentavalent As, Sb and P onto iron-coated cork granulates. Journal of Hazardous Materials, 2021, 406, 124339.	6.5	16
8	Current Trends of Arsenic Adsorption in Continuous Mode: Literature Review and Future Perspectives. Sustainability, 2021, 13, 1186.	1.6	22
9	Performance and prospects of different adsorbents for phosphorus uptake and recovery from water. Chemical Engineering Journal, 2020, 381, 122566.	6.6	333
10	Removal of antimony from water by iron-coated cork granulates. Separation and Purification Technology, 2020, 233, 116020.	3.9	35
11	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.	0.6	7
12	Uptake and Recovery of Gold from Simulated Hydrometallurgical Liquors by Adsorption on Pine Bark Tannin Resin. Water (Switzerland), 2020, 12, 3456.	1.2	12
13	Complexation mechanisms in arsenic and phosphorus adsorption onto iron-coated cork granulates. Journal of Environmental Chemical Engineering, 2020, 8, 104184.	3.3	26
14	Bioadsorptive removal of Pb(II) from aqueous solution by the biorefinery waste of Fucus spiralis. Science of the Total Environment, 2019, 648, 1201-1209.	3.9	68
15	Tanninâ€Adsorbents for Water Decontamination and for the Recovery of Critical Metals: Current State and Future Perspectives. Biotechnology Journal, 2019, 14, e1900060.	1.8	33
16	Evaluation of a tannin-based coagulant on the decolorization of synthetic effluents. Journal of Environmental Chemical Engineering, 2019, 7, 103125.	3.3	35
17	Macroalgae Biomass as Sorbent for Metal Ions. , 2018, , 69-112.		12
18	Arsenate and arsenite adsorption onto iron-coated cork granulates. Science of the Total Environment, 2018, 642, 1075-1089.	3.9	70

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19	Recovery and valorization of tannins from a forest waste as an adsorbent for antimony uptake. Journal of Cleaner Production, 2018, 198, 1324-1335.	4.6	26
20	Arsenic removal from water using iron-coated seaweeds. Journal of Environmental Management, 2017, 192, 224-233.	3.8	80
21	Biosorption of antimony oxyanions by brown seaweeds: Batch and column studies. Journal of Environmental Chemical Engineering, 2017, 5, 3463-3471.	3.3	35
22	Green macroalgae from the Romanian coast of Black Sea: Physico-chemical characterization and future perspectives on their use as metal anions biosorbents. Chemical Engineering Research and Design, 2017, 108, 34-43.	2.7	23
23	Whole-body vibration exposure in forklift operatorsâ€"a short review. , 2017, , .		1
24	Oil and grease removal from wastewaters: Sorption treatment as an alternative to state-of-the-art technologies. A critical review. Chemical Engineering Journal, 2016, 297, 229-255.	6.6	239
25	Antimony oxyanions uptake by green marine macroalgae. Journal of Environmental Chemical Engineering, 2016, 4, 3441-3450.	3.3	26
26	Tannin-based biosorbents for environmental applications â€“ A review. Chemical Engineering Journal, 2016, 303, 575-587.	6.6	207
27	Global Warming Effects on Faecal Coliform Bacterium Watershed Impairments in Portugal. River Research and Applications, 2015, 31, 1344-1353.	0.7	14
28	Arsenic and antimony in water and wastewater: Overview of removal techniques with special reference to latest advances in adsorption. Journal of Environmental Management, 2015, 151, 326-342.	3.8	480
29	Treatment of vegetable oil refinery wastewater by sorption of oil and grease onto regranulated cork â€“ A study in batch and continuous mode. Chemical Engineering Journal, 2015, 268, 92-101.	6.6	27
30	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.	1.6	6
31	Performance evaluation of the main units of a refinery wastewater treatment plant â€“ A case study. Journal of Environmental Chemical Engineering, 2015, 3, 2095-2103.	3.3	16
32	Fish canning wastewater treatment by activated sludge: Application of factorial design optimization. Water Resources and Industry, 2015, 10, 29-38.	1.9	21
33	Selenium contaminated waters: An overview of analytical methods, treatment options and recent advances in sorption methods. Science of the Total Environment, 2015, 521-522, 246-260.	3.9	241
34	Oil desorption and recovery from cork sorbents. Journal of Environmental Chemical Engineering, 2015, 3, 2917-2923.	3.3	7
35	Fish canning industry wastewater treatment for water reuse â€“ a case study. Journal of Cleaner Production, 2015, 87, 603-612.	4.6	81
36	BIOSORPTION OF ANTIMONY BY BROWN ALGAE S. muticum AND A. nodosum. Environmental Engineering and Management Journal, 2015, 14, 455-463.	0.2	37

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37	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.	3.9	61
38	Watershed model parameter estimation and uncertainty in data-limited environments. Environmental Modelling and Software, 2014, 51, 84-93.	1.9	48
39	Optimization of a primary gravity separation treatment for vegetable oil refinery wastewaters. Clean Technologies and Environmental Policy, 2014, 16, 1725-1734.	2.1	22
40	Primary treatment optimization of a fish canning wastewater from a Portuguese plant. Water Resources and Industry, 2014, 6, 51-63.	1.9	28
41	Chemical oxidation of fish canning wastewater by Fenton's reagent. Journal of Environmental Chemical Engineering, 2014, 2, 2372-2376.	3.3	18
42	Integrated reduction/oxidation reactions and sorption processes for Cr(VI) removal from aqueous solutions using Laminaria digitata macro-algae. Chemical Engineering Journal, 2014, 237, 443-454.	6.6	66
43	Water quality in Minho/MiÃ±o River (Portugal/Spain). Environmental Monitoring and Assessment, 2013, 185, 3269-3281.	1.3	23
44	Water quality modelling of Lis River, Portugal. Environmental Science and Pollution Research, 2013, 20, 508-524.	2.7	32
45	Biological treatment by activated sludge of petroleum refinery wastewaters. Desalination and Water Treatment, 2013, 51, 6641-6654.	1.0	22
46	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.	2.1	6
47	Modeling of trivalent chromium speciation in binding sites of marine macroalgae Sargassum Cymosum. Clean Technologies and Environmental Policy, 2013, 15, 987-997.	2.1	7
48	Textural and Surface Characterization of Cork-Based Sorbents for the Removal of Oil from Water. Industrial & Engineering Chemistry Research, 2013, 52, 16427-16435.	1.8	51
49	Sulphide removal from petroleum refinery wastewaters by catalytic oxidation. Desalination and Water Treatment, 2012, 46, 256-263.	1.0	5
50	Surface Water Quality Assessment of Lis River Using Multivariate Statistical Methods. Water, Air, and Soil Pollution, 2012, 223, 5549-5561.	1.1	46
51	Water quality in Lis river, Portugal. Environmental Monitoring and Assessment, 2012, 184, 7125-7140.	1.3	24
52	Use of cork powder and granules for the adsorption of pollutants: A review. Water Research, 2012, 46, 3152-3166.	5.3	130
53	Insights into trivalent chromium biosorption onto protonated brown algae Pelvetia canaliculata: Distribution of chromium ionic species on the binding sites. Chemical Engineering Journal, 2012, 200-202, 140-148.	6.6	35
54	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.	6.6	16

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55	Optimization of coagulationâ€“flocculation and flotation parameters for the treatment of a petroleum refinery effluent from a Portuguese plant. Chemical Engineering Journal, 2012, 183, 117-123.	6.6	134
56	Optimization of nickel biosorption by chemically modified brown macroalgae (Pelvetia canaliculata). Chemical Engineering Journal, 2012, 193-194, 256-266.	6.6	49
57	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.	6.6	43
58	Water Remediation Using Calcium Phosphate Derived From Marine Residues. Water, Air, and Soil Pollution, 2012, 223, 989-1003.	1.1	15
59	Chemical and Biological Treatment of Fish Canning Wastewaters. International Journal of Bioscience, Biochemistry, Bioinformatics (IJBBB), 2012, , 237-242.	0.2	8
60	A review of the use of red mud as adsorbent for the removal of toxic pollutants from water and wastewater. Environmental Technology (United Kingdom), 2011, 32, 231-249.	1.2	224
61	Cr(III) uptake by marine algal biomass: equilibrium and kinetics. International Journal of Environment and Waste Management, 2011, 8, 325.	0.2	4
62	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.	0.1	2
63	Coconut-based biosorbents for water treatment â€" A review of the recent literature. Advances in Colloid and Interface Science, 2010, 160, 1-15.	7.0	159
64	Application of the Nernstâ€“Planck approach to lead ion exchange in Ca-loaded Pelvetia canaliculata. Water Research, 2010, 44, 3946-3958.	5.3	46
65	Removal of Cu and Cr from an industrial effluent using a packed-bed column with algae Gelidium-derived material. Hydrometallurgy, 2009, 96, 42-46.	1.8	18
66	Copper removal by algal biomass: Biosorbents characterization and equilibrium modelling. Journal of Hazardous Materials, 2009, 163, 1113-1122.	6.5	55
67	Trace Metal Fractionation by the Sequential Extraction Method in Sediments from the Lis River (Portugal). Soil and Sediment Contamination, 2009, 18, 102-119.	1.1	11
68	Cadmium uptake by algal biomass in batch and continuous (CSTR and packed bed column) adsorbers. Biochemical Engineering Journal, 2008, 42, 276-289.	1.8	18
69	Lead uptake by algae Gelidium and composite material particles in a packed bed column. Chemical Engineering Journal, 2008, 144, 420-430.	6.6	20
70	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.	6.5	21
71	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.	6.5	53
72	Kinetics modelling of biosorption by algal biomass from binary metal solutions using batch contactors. Biochemical Engineering Journal, 2008, 38, 319-325.	1.8	13

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73	Copper removal by algae Gelidium, agar extraction algal waste and granulated algal waste: Kinetics and equilibrium. Bioresource Technology, 2008, 99, 750-762.	4.8	101
74	Lead and copper biosorption by marine red algae Gelidium and algal composite material in a CSTR (â€œCarberryâ€•type). Chemical Engineering Journal, 2008, 138, 249-257.	6.6	38
75	Metal biosorption by algae Gelidium derived materials from binary solutions in a continuous stirred adsorber. Chemical Engineering Journal, 2008, 141, 42-50.	6.6	16
76	Biosorption of copper by marine algae Gelidium and algal composite material in a packed bed column. Bioresource Technology, 2008, 99, 5830-5838.	4.8	43
77	Copper desorption from Gelidium algal biomass. Water Research, 2007, 41, 1569-1579.	5.3	65
78	Kinetics and equilibrium modelling of lead uptake by algae Gelidium and algal waste from agar extraction industry. Journal of Hazardous Materials, 2007, 143, 396-408.	6.5	29
79	Methylene blue adsorption by algal biomass based materials: Biosorbents characterization and process behaviour. Journal of Hazardous Materials, 2007, 147, 120-132.	6.5	187
80	Chromium and zinc uptake by algae Gelidium and agar extraction algal waste: Kinetics and equilibrium. Journal of Hazardous Materials, 2007, 149, 643-649.	6.5	56
81	Modeling equilibrium and kinetics of metal uptake by algal biomass in continuous stirred and packed bed adsorbers. Adsorption, 2007, 13, 587-601.	1.4	35
82	Metal Complexation with Different types of Soluble and Adsorbed Freshwater Ligands Followed by DPASV. Aquatic Geochemistry, 2007, 13, 173-186.	1.5	1
83	Equilibrium and kinetic modelling of Cd(II) biosorption by algae Gelidium and agar extraction algal waste. Water Research, 2006, 40, 291-302.	5.3	141
84	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.	1.3	19
85	BIOSORPTION PERFORMANCE OF A BINARY METAL MIXTURE BY ALGAL BIOMASS: COLUMN EXPERIMENTS. , 2006, , 281-286.		0
86	Equilibrium and kinetic modelling of Pb2+ biosorption by granulated agar extraction algal waste. Process Biochemistry, 2005, 40, 3276-3284.	1.8	39
87	Influence of pH, ionic strength and temperature on lead biosorption by Gelidium and agar extraction algal waste. Process Biochemistry, 2005, 40, 3267-3275.	1.8	164
88	Influence of Metals on Lindane Adsorption onto Pine Bark. Water, Air and Soil Pollution, 2003, 3, 181-188.	0.8	3
89	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.	1.6	44
90	Interactions of Pb(II) with particles of a polluted river. Analytica Chimica Acta, 2002, 462, 73-85.	2.6	15

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91	Interactions of lead(II) with natural river water: part I. Soluble organics. Science of the Total Environment, 1994, 149, 69-81.	3.9	21
92	Interactions of lead(II) with natural river water. Part II: particulate matter. Science of the Total Environment, 1994, 151, 101-112.	3.9	10