

Meuris Gurgel Carlos da Silva

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71
papers

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22
h-index

37
g-index

73
ext. papers

1,932
ext. citations

5.8
avg, IF

5.68
L-index

#	Paper	IF	Citations
71	Sorption kinetics and equilibrium for the removal of nickel ions from aqueous phase on calcined Bofe bentonite clay. <i>Journal of Hazardous Materials</i> , 2010 , 177, 362-71	12.8	133
70	Chromium biosorption using the residue of alginate extraction from <i>Sargassum filipendula</i> . <i>Chemical Engineering Journal</i> , 2014 , 237, 362-371	14.7	80
69	Preparation and characterization of a Brazilian bentonite clay for removal of copper in porous beds. <i>Applied Clay Science</i> , 2011 , 53, 73-79	5.2	79
68	Adsorption of basic dyes onto activated carbon: Experimental and theoretical investigation of chemical reactivity of basic dyes using DFT-based descriptors. <i>Applied Surface Science</i> , 2018 , 448, 662-670	6.7	72
67	Removal of endocrine disruptors in waters by adsorption, membrane filtration and biodegradation. A review. <i>Environmental Chemistry Letters</i> , 2020 , 18, 1113-1143	13.3	68
66	Biosorption of toxic metals using the alginate extraction residue from the brown algae <i>Sargassum filipendula</i> as a natural ion-exchanger. <i>Journal of Cleaner Production</i> , 2017 , 165, 491-499	10.3	66
65	Biosorption of chromium by alginate extraction products from <i>Sargassum filipendula</i> : investigation of adsorption mechanisms using X-ray photoelectron spectroscopy analysis. <i>Bioresource Technology</i> , 2014 , 164, 264-9	11	64
64	Removal of toxic metals from water using chitosan-based magnetic adsorbents. A review. <i>Environmental Chemistry Letters</i> , 2020 , 18, 1145-1168	13.3	49
63	Biosorption technology for removal of toxic metals: a review of commercial biosorbents and patents. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 19097-19118	5.1	48
62	Cadmium biosorption by alginate extraction waste and process overview in Life Cycle Assessment context. <i>Journal of Cleaner Production</i> , 2018 , 178, 166-175	10.3	47
61	Biosorption study of copper and zinc by particles produced from silk sericin /alginate blend: evaluation of blend proportion and thermal cross-linking process in particles production. <i>Journal of Cleaner Production</i> , 2016 , 137, 1470-1478	10.3	46
60	<i>Sargassum filipendula</i> alginate from Brazil: seasonal influence and characteristics. <i>Carbohydrate Polymers</i> , 2014 , 111, 619-23	10.3	46
59	Characterization of <i>Oreochromis niloticus</i> fish scales and assessment of their potential on the adsorption of reactive blue 5G dye. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015 , 482, 693-701	5.1	43
58	Characterization and evaluation of copper and nickel biosorption on acidic algae <i>Sargassum Filipendula</i> . <i>Materials Research</i> , 2010 , 13, 541-550	1.5	41
57	Cu(II) adsorption on modified bentonitic clays: different isotherm behaviors in static and dynamic systems. <i>Materials Research</i> , 2012 , 15, 114-124	1.5	35
56	Removal of Cadmium(II) and Lead(II) ions from aqueous phase on sodic bentonite. <i>Materials Research</i> , 2013 , 16, 515-527	1.5	34
55	Comprehensive Characterization of Sugarcane Bagasse Ash for Its Use as an Adsorbent. <i>Bioenergy Research</i> , 2015 , 8, 1885-1895	3.1	33

54	Comparative adsorption of diclofenac sodium and losartan potassium in organophilic clay-packed fixed-bed: X-ray photoelectron spectroscopy characterization, experimental tests and theoretical study on DFT-based chemical descriptors. <i>Journal of Molecular Liquids</i> , 2020 , 312, 113427	6	29
53	Adsorption of ciprofloxacin onto thermally modified bentonite clay: Experimental design, characterization, and adsorbent regeneration. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104553	6.8	27
52	Development of sericin/alginate particles by ionic gelation technique for the controlled release of diclofenac sodium. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 45919	2.9	26
51	Characterization of Brazilian Bentonite Organoclays as sorbents of petroleum-derived fuels. <i>Materials Research</i> , 2012 , 15, 253-259	1.5	23
50	Batch and Fixed Bed Biosorption of Copper by Acidified Algae Waste Biomass. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 11767-11777	3.9	22
49	Extraction of alginate biopolymer present in marine alga sargassum filipendula and bioadsorption of metallic ions. <i>Materials Research</i> , 2013 , 16, 481-488	1.5	22
48	Development of novel sericin and alginate-based biosorbents for precious metal removal from wastewater. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 28455-28469	5.1	22
47	Bioadsorption of trivalent and hexavalent chromium from aqueous solutions by sericin-alginate particles produced from Bombyx mori cocoons. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 25967-25982	5.1	22
46	Competitive biosorption of Cu and Ag ions on brown macro-algae waste: kinetic and ion-exchange studies. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 23416-23428	5.1	21
45	Removal of propranolol hydrochloride by batch biosorption using remaining biomass of alginate extraction from Sargassum filipendula algae. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 16599-16611	5.1	20
44	Endocrine-disrupting compounds: Occurrence, detection methods, effects and promising treatment pathways: A critical review. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104558	6.8	20
43	Ofloxacin adsorption by calcined Verde-lodo bentonite clay: Batch and fixed bed system evaluation. <i>Journal of Molecular Liquids</i> , 2020 , 315, 113718	6	19
42	Investigation of the simultaneous biosorption of toxic metals through a mixture design application. <i>Journal of Cleaner Production</i> , 2018 , 200, 890-899	10.3	18
41	Adsorption and desorption processes for copper removal from water using different eluents and calcined clay as adsorbent. <i>Journal of Water Process Engineering</i> , 2014 , 3, 90-97	6.7	18
40	HPO-activated carbons produced from aabi stones and Brazil nut shells: removal of basic blue 26 dye from aqueous solutions by adsorption. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 28533-28547	5.1	16
39	Reuse of the alginate extraction waste from Sargassum filipendula for Ni(II) biosorption. <i>Chemical Engineering Communications</i> , 2020 , 207, 17-30	2.2	14
38	Equilibrium and desorption studies of the competitive binary biosorption of silver(I) and copper(II) ions on brown algae waste. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104840	6.8	14
37	Efficiency maximization of fixed-bed adsorption by applying hybrid statistical-phenomenological modeling. <i>Separation and Purification Technology</i> , 2018 , 207, 477-488	8.3	14

36	Biosorption of aluminum ions from aqueous solutions using non-conventional low-cost materials: A review. <i>Journal of Water Process Engineering</i> , 2021 , 40, 101925	6.7	13
35	Dealginated seaweed waste for Zn(II) continuous removal from aqueous solution on fixed-bed column. <i>Journal of Chemical Technology and Biotechnology</i> , 2018 , 93, 1183-1189	3.5	13
34	Fixed bed biosorption of silver and investigation of functional groups on acidified biosorbent from algae biomass. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 36354-36366	5.1	12
33	Zinc adsorption in bentonite clay: influence of pH and initial concentration. <i>Acta Scientiarum - Technology</i> , 2013 , 35,	0.5	12
32	A kinetic and equilibrium study of zinc removal by Brazilian bentonite clay. <i>Materials Research</i> , 2013 , 16, 128-136	1.5	12
31	Insight into zinc(II) biosorption on alginate extraction residue: Kinetics, isotherm and thermodynamics. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 103629	6.8	12
30	Equilibrium study of binary mixture biosorption of Cr(III) and Zn(II) by dealginated seaweed waste: investigation of adsorption mechanisms using X-ray photoelectron spectroscopy analysis. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 28470-28480	5.1	10
29	Dynamic adsorption of chromium ions onto natural and crosslinked chitosan membranes for wastewater treatment. <i>Materials Research</i> , 2010 , 13, 89-94	1.5	10
28	Crosslinked alginate/sericin particles for bioadsorption of ytterbium: Equilibrium, thermodynamic and regeneration studies. <i>International Journal of Biological Macromolecules</i> , 2020 , 165, 1911-1923	7.9	10
27	Fixed-Bed Adsorption of Ciprofloxacin onto Bentonite Clay: Characterization, Mathematical Modeling, and DFT-Based Calculations. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 4030-4040	3.9	9
26	Palladium adsorption on natural polymeric sericin-alginate particles crosslinked by polyethylene glycol diglycidyl ether. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105617	6.8	9
25	Adsorption of Gold Ions onto Sericin and Alginate Particles Chemically Crosslinked by Proanthocyanidins: a Complete Fixed-Bed Column Study. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 318-328	3.9	7
24	Development of a natural polymeric bioadsorbent based on sericin, alginate and poly(vinyl alcohol) for the recovery of ytterbium from aqueous solutions. <i>Journal of Cleaner Production</i> , 2021 , 279, 123555	10.3	7
23	Characterization and biosorption of silver by biomass waste from the alginate industry. <i>Journal of Cleaner Production</i> , 2020 , 271, 122588	10.3	6
22	Equilibrium, Thermodynamic, Reuse, and Selectivity Studies for the Bioadsorption of Lanthanum onto Sericin/Alginate/Poly(vinyl alcohol) Particles. <i>Polymers</i> , 2021 , 13,	4.5	6
21	Lanthanum biosorption using sericin/alginate particles crosslinked by poly(vinyl alcohol): Kinetic, cation exchange, and desorption studies. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105551	6.8	6
20	Latest advanced oxidative processes applied for the removal of endocrine disruptors from aqueous media: A critical report. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105748	6.8	6
19	Biosorption of lanthanum using sericin/alginate/polyvinyl alcohol beads as a natural cation exchanger in a continuous fixed-bed column system. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 627, 127233	5.1	6

18	Efficient and Selective Adsorption of Neodymium on Expanded Vermiculite. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 4962-4974	3.9	5
17	Modification of valsartan drug release by incorporation into sericin/alginate blend using experimental design methodology. <i>European Polymer Journal</i> , 2021 , 153, 110506	5.2	5
16	Effective recovery of ytterbium through biosorption using crosslinked sericin-alginate beads: A complete continuous packed-bed column study. <i>Journal of Hazardous Materials</i> , 2022 , 421, 126742	12.8	5
15	Adsorption of propranolol hydrochloride from aqueous solutions onto thermally treated bentonite clay: A complete batch system evaluation. <i>Journal of Molecular Liquids</i> , 2021 , 337, 116442	6	4
14	Adsorption of 17 β -ethinylestradiol onto a novel nanocomposite based on graphene oxide, magnetic chitosan and organoclay (GO/mCS/OC): Kinetics, equilibrium, thermodynamics and selectivity studies. <i>Journal of Water Process Engineering</i> , 2022 , 47, 102729	6.7	3
13	Modification of Sodium Bentonitic Clay Used in Zinc Ion Adsorption. <i>Materials Science Forum</i> , 2014 , 798-799, 520-525	0.4	2
12	Recovery of dysprosium by biosorption onto a biocomposite from sericin and alginate. <i>Journal of Water Process Engineering</i> , 2021 , 44, 102388	6.7	2
11	Laboratory Adsorption Studies on Ni(II) and Zn(II) Solutions by Sugarcane-Bagasse Ash. <i>Water, Air, and Soil Pollution</i> , 2021 , 232, 1	2.6	2
10	Capacity assessment and potential for reuse of calcined Bofe bentonitic clay for adsorption of nickel. <i>Canadian Journal of Chemical Engineering</i> , 2016 , 94, 1457-1465	2.3	1
9	Ion exchange and adsorption of cadmium from aqueous media in sodium-modified expanded vermiculite.. <i>Environmental Science and Pollution Research</i> , 2022 ,	5.1	1
8	Ofloxacin degradation in chloride-containing medium by photo-assisted sonoelectrochemical process using a mixed metal oxide anode. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107174	6.8	1
7	Adsorption and Recovery of Silver from Aqueous Solutions 2018 , 55-102		1
6	Adsorption of antibiotic cefazolin in organoclay fixed-bed column: characterization, mathematical modeling, and DFT-based calculations.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	1
5	Synthesis and characterization of furosemide-loaded sericin/alginate beads subjected to thermal or chemical cross-linking for delayed and sustained release. <i>Polymers for Advanced Technologies</i> , 2021 , 32, 461-473	3.2	1
4	Biosorption of rare-earth and toxic metals from aqueous medium using different alternative biosorbents: evaluation of metallic affinity. <i>Environmental Science and Pollution Research</i> , 2021 , 1	5.1	1
3	Application of alginate extraction residue for Al(III) ions biosorption: a complete batch system evaluation. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 51826-51840	5.1	0
2	Characterization of Sargassum sp. from Brazil and Evaluation of Cu ²⁺ and Ni ²⁺ Biosorption. <i>Advanced Materials Research</i> , 2009 , 71-73, 589-592	0.5	
1	Biomass-derived adsorbents for caffeine removal from aqueous medium 2022 , 111-134		

