

Meuris Gurgel Carlos da Silva

List of Publications by Year in descending order

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73
papers

2,430
citations

201575

27
h-index

223716

46
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73
all docs

73
docs citations

73
times ranked

2195
citing authors

#	ARTICLE	IF	CITATIONS
1	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, 362-371.	6.5	159
2	Removal of endocrine disruptors in waters by adsorption, membrane filtration and biodegradation. A review. <i>Environmental Chemistry Letters</i> , 2020, 18, 1113-1143.	8.3	141
3	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.	3.1	124
4	Chromium biosorption using the residue of alginate extraction from <i>Sargassum filipendula</i> . <i>Chemical Engineering Journal</i> , 2014, 237, 362-371.	6.6	101
5	Preparation and characterization of a Brazilian bentonite clay for removal of copper in porous beds. <i>Applied Clay Science</i> , 2011, 53, 73-79.	2.6	95
6	Removal of toxic metals from water using chitosan-based magnetic adsorbents. A review. <i>Environmental Chemistry Letters</i> , 2020, 18, 1145-1168.	8.3	89
7	Adsorption of ciprofloxacin onto thermally modified bentonite clay: Experimental design, characterization, and adsorbent regeneration. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104553.	3.3	85
8	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.	4.6	79
9	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, 264-269.	4.8	77
10	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.	2.7	75
11	Cadmium biosorption by alginate extraction waste and process overview in Life Cycle Assessment context. <i>Journal of Cleaner Production</i> , 2018, 178, 166-175.	4.6	64
12	Endocrine-disrupting compounds: Occurrence, detection methods, effects and promising treatment pathways – A critical review. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104558.	3.3	63
13	<i>Sargassum filipendula</i> alginate from Brazil: Seasonal influence and characteristics. <i>Carbohydrate Polymers</i> , 2014, 111, 619-623.	5.1	60
14	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.	4.6	60
15	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.	2.3	59
16	Comprehensive Characterization of Sugarcane Bagasse Ash for Its Use as an Adsorbent. <i>Bioenergy Research</i> , 2015, 8, 1885-1895.	2.2	51
17	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.	2.3	51
18	Characterization and evaluation of copper and nickel biosorption on acidic algae <i>Sargassum Filipendula</i> . <i>Materials Research</i> , 2010, 13, 541-550.	0.6	50

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19	Cu(II) adsorption on modified bentonitic clays: different isotherm behaviors in static and dynamic systems. <i>Materials Research</i> , 2012, 15, 114-124.	0.6	46
20	Ofloxacin adsorption by calcined Verde-lodo bentonite clay: Batch and fixed bed system evaluation. <i>Journal of Molecular Liquids</i> , 2020, 315, 113718.	2.3	39
21	Removal of Cadmium(II) and Lead(II) ions from aqueous phase on sodic bentonite. <i>Materials Research</i> , 2013, 16, 515-527.	0.6	36
22	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.	1.3	35
23	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.	1.8	34
24	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.	2.7	32
25	Removal of propranolol hydrochloride by batch biosorption using remaining biomass of alginate extraction from <i>Sargassum filipendula</i> algae. <i>Environmental Science and Pollution Research</i> , 2020, 27, 16599-16611.	2.7	31
26	Competitive biosorption of Cu ²⁺ and Ag ⁺ ions on brown macro-algae waste: kinetic and ion-exchange studies. <i>Environmental Science and Pollution Research</i> , 2019, 26, 23416-23428.	2.7	30
27	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.	2.6	30
28	Characterization of Brazilian Bentonite Organoclays as sorbents of petroleum-derived fuels. <i>Materials Research</i> , 2012, 15, 253-259.	0.6	29
29	Extraction of alginate biopolymer present in marine alga <i>sargassum filipendula</i> and bioadsorption of metallic ions. <i>Materials Research</i> , 2013, 16, 481-488.	0.6	28
30	Bioadsorption of trivalent and hexavalent chromium from aqueous solutions by sericin-alginate particles produced from <i>Bombyx mori</i> cocoons. <i>Environmental Science and Pollution Research</i> , 2018, 25, 25967-25982.	2.7	27
31	Batch and Fixed Bed Biosorption of Copper by Acidified Algae Waste Biomass. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 11767-11777.	1.8	27
32	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.	3.3	26
33	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.	3.3	26
34	H ₃ PO ₄ -activated carbons produced from açaí 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.	2.7	25
35	Efficiency maximization of fixed-bed adsorption by applying hybrid statistical-phenomenological modeling. <i>Separation and Purification Technology</i> , 2018, 207, 477-488.	3.9	23
36	Investigation of the simultaneous biosorption of toxic metals through a mixture design application. <i>Journal of Cleaner Production</i> , 2018, 200, 890-899.	4.6	22

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37	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.	2.6	20
38	Crosslinked alginate/sericin particles for bioadsorption of ytterbium: Equilibrium, thermodynamic and regeneration studies. <i>International Journal of Biological Macromolecules</i> , 2020, 165, 1911-1923.	3.6	20
39	Palladium adsorption on natural polymeric sericin-alginate particles crosslinked by polyethylene glycol diglycidyl ether. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105617.	3.3	20
40	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.	2.7	19
41	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.	6.5	18
42	Reuse of the alginate extraction waste from <i>Sargassum filipendula</i> for Ni(II) biosorption. <i>Chemical Engineering Communications</i> , 2020, 207, 17-30.	1.5	17
43	Efficient and Selective Adsorption of Neodymium on Expanded Vermiculite. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 4962-4974.	1.8	17
44	Zinc adsorption in bentonite clay: influence of pH and initial concentration. <i>Acta Scientiarum - Technology</i> , 2013, 35, .	0.4	16
45	Insight into zinc(II) biosorption on alginate extraction residue: Kinetics, isotherm and thermodynamics. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103629.	3.3	16
46	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.	2.3	16
47	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.	2.6	16
48	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.	1.6	15
49	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.	2.7	15
50	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.	1.8	15
51	A kinetic and equilibrium study of zinc removal by Brazilian bentonite clay. <i>Materials Research</i> , 2013, 16, 128-136.	0.6	14
52	Modification of valsartan drug release by incorporation into sericin/alginate blend using experimental design methodology. <i>European Polymer Journal</i> , 2021, 153, 110506.	2.6	14
53	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.	3.3	14
54	Equilibrium, Thermodynamic, Reuse, and Selectivity Studies for the Bioadsorption of Lanthanum onto Sericin/Alginate/Poly(vinyl alcohol) Particles. <i>Polymers</i> , 2021, 13, 623.	2.0	13

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55	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.	2.3	13
56	Characterization and biosorption of silver by biomass waste from the alginate industry. <i>Journal of Cleaner Production</i> , 2020, 271, 122588.	4.6	11
57	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.	4.6	11
58	Dynamic adsorption of chromium ions onto natural and crosslinked chitosan membranes for wastewater treatment. <i>Materials Research</i> , 2010, 13, 89-94.	0.6	10
59	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.	3.3	10
60	Recovery of dysprosium by biosorption onto a biocomposite from sericin and alginate. <i>Journal of Water Process Engineering</i> , 2021, 44, 102388.	2.6	8
61	Adsorption of antibiotic cefazolin in organoclay fixed-bed column: characterization, mathematical modeling, and DFT-based calculations. <i>Environmental Science and Pollution Research</i> , 2022, 29, 31646-31658.	2.7	7
62	Ion exchange and adsorption of cadmium from aqueous media in sodium-modified expanded vermiculite. <i>Environmental Science and Pollution Research</i> , 2022, 29, 79903-79919.	2.7	7
63	Laboratory Adsorption Studies on Ni(II) and Zn(II) Solutions by Sugarcane-Bagasse Ash. <i>Water, Air, and Soil Pollution</i> , 2021, 232, 1.	1.1	5
64	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.	2.7	5
65	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> , 2022, 29, 79788-79797.	2.7	4
66	Adsorption of cefazolin on organoclay: experimental design, characterization, and a complete batch study. <i>Environmental Science and Pollution Research</i> , 2022, 29, 70209-70227.	2.7	4
67	Synthesis and characterization of furosemide-loaded sericin/alginate beads subjected to thermal or chemical crosslinking for delayed and sustained release. <i>Polymers for Advanced Technologies</i> , 2021, 32, 461-473.	1.6	3
68	Renewable and Selective Vermiculite Fixed Bed for the Rare-Earth Dysprosium Recovery. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 9044-9053.	1.8	3
69	Modification of Sodium Bentonitic Clay Used in Zinc Ion Adsorption. <i>Materials Science Forum</i> , 2014, 798-799, 520-525.	0.3	2
70	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.	0.9	2
71	Adsorption and Recovery of Silver from Aqueous Solutions. , 2018, , 55-102.		1
72	Characterization of <i>Sargassum</i> sp. from Brazil and Evaluation of Cu ²⁺ and Ni ²⁺ Biosorption. <i>Advanced Materials Research</i> , 0, 71-73, 589-592.	0.3	0

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73	Biomass-derived adsorbents for caffeine removal from aqueous medium. , 2022, , 111-134.		0