

Melissa Gurgel Adeodato Vieira

List of Publications by Year in descending order

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179
papers

6,572
citations

101496

36
h-index

82499

72
g-index

199
all docs

199
docs citations

199
times ranked

6506
citing authors

#	ARTICLE	IF	CITATIONS
1	Natural-based plasticizers and biopolymer films: A review. <i>European Polymer Journal</i> , 2011, 47, 254-263.	2.6	1,425
2	Adsorption of Pharmaceuticals from Water and Wastewater Using Nonconventional Low-Cost Materials: A Review. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 3103-3127.	1.8	325
3	MgAl-LDH/Biochar composites for methylene blue removal by adsorption. <i>Applied Clay Science</i> , 2019, 168, 11-20.	2.6	186
4	Polyvinylchloride (PVC) and natural rubber films plasticized with a natural polymeric plasticizer obtained through polyesterification of rice fatty acid. <i>Polymer Testing</i> , 2011, 30, 478-484.	2.3	177
5	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
6	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
7	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
8	Removal of emerging contaminants from wastewater using advanced treatments. A review. <i>Environmental Chemistry Letters</i> , 2022, 20, 1333-1375.	8.3	124
9	Adsorption of silver from aqueous solution onto pre-treated bentonite clay: complete batch system evaluation. <i>Journal of Cleaner Production</i> , 2016, 112, 1112-1121.	4.6	108
10	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
11	Adsorption of diclofenac sodium onto commercial organoclay: Kinetic, equilibrium and thermodynamic study. <i>Powder Technology</i> , 2019, 345, 140-150.	2.1	87
12	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
13	Recovery of rare-earth metals from aqueous solutions by bio/adsorption using non-conventional materials: a review with recent studies and promising approaches in column applications. <i>Journal of Rare Earths</i> , 2020, 38, 339-355.	2.5	83
14	Removal of nickel on Bofe bentonite calcined clay in porous bed. <i>Journal of Hazardous Materials</i> , 2010, 176, 109-118.	6.5	80
15	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
16	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
17	Binary adsorption of silver and copper on Verde-Iodo bentonite: Kinetic and equilibrium study. <i>Applied Clay Science</i> , 2017, 137, 69-76.	2.6	68
18	Oxidative degradation of pharmaceutical losartan potassium with N-doped hierarchical porous carbon and peroxydisulfate. <i>Chemical Engineering Journal</i> , 2020, 382, 122971.	6.6	66

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19	Biosorption of chromium(VI) using a Sargassum sp. packed-bed column. <i>Bioresource Technology</i> , 2008, 99, 3094-3099.	4.8	64
20	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
21	Energy Efficiency and Drying Kinetics of Recycled Paper Pulp. <i>Drying Technology</i> , 2007, 25, 1639-1648.	1.7	63
22	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
23	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
24	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
25	Characterization and use of in natura and calcined rice husks for biosorption of heavy metals ions from aqueous effluents. <i>Brazilian Journal of Chemical Engineering</i> , 2012, 29, 619-634.	0.7	51
26	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
27	Adsorption of herbicide 2,4-D from aqueous solution using organo-modified bentonite clay. <i>Environmental Science and Pollution Research</i> , 2019, 26, 18329-18342.	2.7	50
28	Equilibrium and kinetic studies of caffeine adsorption from aqueous solutions on thermally modified Verde-lodo bentonite. <i>Applied Clay Science</i> , 2019, 168, 366-373.	2.6	50
29	Continuous adsorption of silver and copper by Verde-lodo bentonite in a fixed bed flow-through column. <i>Journal of Cleaner Production</i> , 2018, 171, 613-621.	4.6	47
30	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
31	Adsorption of lead and copper ions from aqueous effluents on rice husk ash in a dynamic system. <i>Brazilian Journal of Chemical Engineering</i> , 2014, 31, 519-529.	0.7	46
32	Adsorption of polycyclic aromatic hydrocarbons from wastewater using graphene-based nanomaterials synthesized by conventional chemistry and green synthesis: A critical review. <i>Journal of Hazardous Materials</i> , 2022, 422, 126904.	6.5	45
33	Epoxidation of modified natural plasticizer obtained from rice fatty acids and application on polyvinylchloride films. <i>Journal of Applied Polymer Science</i> , 2013, 127, 3543-3549.	1.3	42
34	Fixed Bed Adsorption of Benzene, Toluene, and Xylene (BTX) Contaminants from Monocomponent and Multicomponent Solutions Using a Commercial Organoclay. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 6326-6336.	1.8	39
35	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
36	Development and evaluation of naproxen-loaded sericin/alginate beads for delayed and extended drug release using different covalent crosslinking agents. <i>Materials Science and Engineering C</i> , 2021, 118, 111412.	3.8	37

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37	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
38	Fixed-Bed Adsorption of Caffeine onto Thermally Modified Verde-Iodo Bentonite. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 17480-17487.	1.8	36
39	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
40	Recovery of gold through adsorption onto sericin and alginate particles chemically crosslinked by proanthocyanidins. <i>Journal of Cleaner Production</i> , 2020, 253, 119925.	4.6	35
41	Removal of the synthetic dye Remazol Brilliant Blue R from textile industry wastewaters by biosorption on the macrophyte <i>Salvinia natans</i> . <i>Brazilian Journal of Chemical Engineering</i> , 2014, 31, 1035-1045.	0.7	34
42	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
43	Synthesis and application of natural polymeric plasticizer obtained through polyesterification of rice fatty acid. <i>Materials Research</i> , 2014, 17, 386-391.	0.6	32
44	Binary adsorption of zinc and copper on expanded vermiculite using a fixed bed column. <i>Applied Clay Science</i> , 2017, 146, 503-509.	2.6	32
45	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
46	Use of supercritical CO ₂ and ultrasound-assisted extractions to obtain $\hat{1}\pm/\hat{1}^2$ -amyrin-rich extracts from uvaia leaves (<i>Eugenia pyriformis</i> Cambess.). <i>Journal of Supercritical Fluids</i> , 2018, 137, 1-8.	1.6	31
47	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
48	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
49	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
50	Correlation of type II adsorption isotherms of water contaminants using modified BET equations. <i>Colloids and Interface Science Communications</i> , 2022, 46, 100557.	2.0	30
51	Characterization of Brazilian Bentonite Organoclays as sorbents of petroleum-derived fuels. <i>Materials Research</i> , 2012, 15, 253-259.	0.6	29
52	A comprehensive evaluation of heavy metals removal from battery industry wastewaters by applying bio-residue, mineral and commercial adsorbent materials. <i>Journal of Materials Science</i> , 2018, 53, 7976-7995.	1.7	28
53	Neodymium recovery from aqueous solution through adsorption/desorption onto expanded vermiculite. <i>Applied Clay Science</i> , 2020, 198, 105825.	2.6	28
54	Removal of nickel ions on residue of alginate extraction from <i>Sargassum filipendula</i> seaweed in packed bed. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 2120-2128.	0.9	27

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55	Development of mucoadhesive sericin/alginate particles loaded with ibuprofen for sustained drug delivery. <i>Particuology</i> , 2018, 41, 65-73.	2.0	27
56	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
57	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
58	Mathematical modeling of supercritical CO ₂ extraction of hops (<i>Humulus lupulus</i> L.). <i>Journal of Supercritical Fluids</i> , 2017, 130, 347-356.	1.6	26
59	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
60	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
61	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
62	High Molecular Sericin from <i>Bombyx mori</i> Cocoons: Extraction and Recovering by Ultrafiltration. <i>International Journal of Chemical Engineering and Applications (IJCEA)</i> , 2014, 5, 266-271.	0.3	25
63	Adsorption of toluene into commercial organoclay in liquid phase: Kinetics, equilibrium and thermodynamics. <i>Canadian Journal of Chemical Engineering</i> , 2015, 93, 998-1008.	0.9	24
64	Evaluation of proanthocyanidin-crosslinked sericin/alginate blend for ketoprofen extended release. <i>Advanced Powder Technology</i> , 2019, 30, 1531-1543.	2.0	24
65	Overview of non-steroidal anti-inflammatory drugs degradation by advanced oxidation processes. <i>Journal of Cleaner Production</i> , 2022, 346, 131226.	4.6	24
66	Kinetic and Thermodynamic Study on the Liquid Phase Adsorption by Starchy Materials in the Alcohol-Water System. <i>Adsorption</i> , 2004, 10, 211-218.	1.4	23
67	Adhesion of an Aqueous Polymeric Suspension to Inert Particles in a Spouted Bed. <i>Drying Technology</i> , 2004, 22, 1069-1085.	1.7	23
68	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
69	Chromium adsorption using <i>Sargassum filipendula</i> algae waste from alginate extraction: Batch and fixed-bed column studies. <i>Chemical Engineering Journal Advances</i> , 2022, 11, 100341.	2.4	23
70	Development of sericin/alginate beads of ketoprofen using experimental design: Formulation and in vitro dissolution evaluation. <i>Powder Technology</i> , 2018, 335, 315-326.	2.1	22
71	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
72	Cassava (<i>Manihot esculenta</i> Crantz) stump biochar: Physical/chemical characteristics and dye affinity. <i>Chemical Engineering Communications</i> , 2019, 206, 829-841.	1.5	22

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73	Metallic copper removal optimization from real wastewater using pulsed electrodeposition. <i>Journal of Hazardous Materials</i> , 2020, 384, 121416.	6.5	22
74	Equilibrium and Thermodynamic Studies of Zinc Adsorption on Expanded Vermiculite. <i>Adsorption Science and Technology</i> , 2012, 30, 759-772.	1.5	21
75	Caffeine removal using activated biochar from a seed (Euterpe oleracea Mart): Experimental study and description of adsorbate properties using Density Functional Theory (DFT). <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104891.	3.3	21
76	Adsorption of bisphenol A from aqueous solution onto organoclay: Experimental design, kinetic, equilibrium and thermodynamic study. <i>Powder Technology</i> , 2022, 395, 695-707.	2.1	21
77	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
78	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
79	Activated carbon from macauba endocarp (<i>Acrocomia aculeate</i>) for removal of atrazine: Experimental and theoretical investigation using descriptors based on DFT. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105155.	3.3	20
80	Removal of non-steroidal anti-inflammatory drugs (NSAIDs) from water with activated carbons synthesized from waste murumuru (<i>Astrocaryum murumuru</i> Mart.): Characterization and adsorption studies. <i>Journal of Molecular Liquids</i> , 2021, 343, 116980.	2.3	20
81	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
82	Equilibrium study of binary mixture biosorption of Cr(III) and Zn(II) by dealginate 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
83	Cerium recovery from aqueous solutions by bio/adsorption: A review in a circular economy context. <i>Journal of Cleaner Production</i> , 2021, 326, 129395.	4.6	19
84	Adsorption of atrazine from aqueous systems on chemically activated biochar produced from corn straw. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107039.	3.3	19
85	Conventional and green-synthesized nanomaterials applied for the adsorption and/or degradation of phenol: A recent overview. <i>Journal of Cleaner Production</i> , 2022, 367, 132980.	4.6	19
86	Performance of organoclay in adsorptive uptake of antihypertensive losartan potassium: A comparative batch study using micro-grain activated carbon. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103562.	3.3	18
87	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
88	Removal and Recovery of Silver by Dynamic Adsorption on Bentonite Clay Using a Fixed-Bed Column System. <i>Adsorption Science and Technology</i> , 2015, 33, 91-103.	1.5	17
89	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
90	Efficient and Selective Adsorption of Neodymium on Expanded Vermiculite. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 4962-4974.	1.8	17

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91	Expanded vermiculite as an alternative adsorbent for the dysprosium recovery. Journal of the Taiwan Institute of Chemical Engineers, 2021, 127, 228-235.	2.7	17
92	Hydrogen sulfide removal from biogas using Fe/EDTA solution: Gas/liquid contacting and sulfur formation. Environmental Progress and Sustainable Energy, 2010, 29, 34-41.	1.3	16
93	Adsorption of benzene, toluene, and xylene (BTX) from binary aqueous solutions using commercial organoclay. Canadian Journal of Chemical Engineering, 2017, 95, 1034-1044.	0.9	16
94	Phenomenological modeling of reactive dye adsorption onto fish scales surface in the presence of electrolyte and surfactant mixtures. Environmental Technology (United Kingdom), 2018, 39, 2467-2483.	1.2	16
95	Insight into zinc(II) biosorption on alginate extraction residue: Kinetics, isotherm and thermodynamics. Journal of Environmental Chemical Engineering, 2020, 8, 103629.	3.3	16
96	New perception of the continuous biosorption of cadmium on a seaweed derivative waste. Journal of Water Process Engineering, 2020, 36, 101322.	2.6	16
97	Hydrothermal synthesis of biobased carbonaceous composite from a blend of kraft black liquor and tannin and its application to aspirin and paracetamol removal. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 608, 125597.	2.3	16
98	Adsorption of propranolol hydrochloride from aqueous solutions onto thermally treated bentonite clay: A complete batch system evaluation. Journal of Molecular Liquids, 2021, 337, 116442.	2.3	16
99	Dysprosium adsorption on expanded vermiculite: Kinetics, selectivity and desorption. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 630, 127616.	2.3	16
100	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. Journal of Water Process Engineering, 2022, 47, 102729.	2.6	16
101	Comparative efficiency of polycyclic aromatic hydrocarbon removal by novel graphene oxide composites prepared from conventional and green synthesis. Journal of Cleaner Production, 2022, 361, 132244.	4.6	16
102	STUDY OF BINARY AND SINGLE BIOSORPTION BY THE FLOATING AQUATIC MACROPHYTE <i>Salvinia natans</i> . Brazilian Journal of Chemical Engineering, 2016, 33, 649-660.	0.7	15
103	Dealginated seaweed waste for Zn(II) continuous removal from aqueous solution on fixed-bed column. Journal of Chemical Technology and Biotechnology, 2018, 93, 1183-1189.	1.6	15
104	Fixed bed biosorption of silver and investigation of functional groups on acidified biosorbent from algae biomass. Environmental Science and Pollution Research, 2019, 26, 36354-36366.	2.7	15
105	Adsorption of Gold Ions onto Sericin and Alginate Particles Chemically Crosslinked by Proanthocyanidins: a Complete Fixed-Bed Column Study. Industrial & Engineering Chemistry Research, 2020, 59, 318-328.	1.8	15
106	A kinetic and equilibrium study of zinc removal by Brazilian bentonite clay. Materials Research, 2013, 16, 128-136.	0.6	14
107	Alginate and Sericin: Environmental and Pharmaceutical Applications. , 0, , .		14
108	Economical and Technological Aspects of Copper Removal from Water Using a Geopolymer and Natural Zeolite. Water, Air, and Soil Pollution, 2020, 231, 1.	1.1	14

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109	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
110	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
111	Fixed-bed adsorption of bisphenol A onto organoclay: Characterisation, mathematical modelling and theoretical calculation of DFT-based chemical descriptors. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106103.	3.3	14
112	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
113	Techno-economical optimization of uvaia (<i>Eugenia pyriformis</i>) extraction using supercritical fluid technology. <i>Journal of Supercritical Fluids</i> , 2021, 174, 105239.	1.6	13
114	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
115	Synthesis of a novel magnetic composite based on graphene oxide, chitosan and organoclay and its application in the removal of bisphenol A, 17 β -ethinylestradiol and triclosan. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107071.	3.3	13
116	Influence of the liquid saturation degree on the fluid dynamics of a spouted-bed coater. <i>Chemical Engineering and Processing: Process Intensification</i> , 2004, 43, 1275-1280.	1.8	12
117	Supercritical CO ₂ extraction of β -amyrin from uvaia (<i>Eugenia pyriformis</i> Cambess.): Effects of pressure and co-solvent addition. <i>Journal of Supercritical Fluids</i> , 2019, 153, 104595.	1.6	12
118	Adsorption of Fermentation Inhibitors by Layered Double Hydroxides in Synthetic Hemicellulose Hydrolysate: A Batch Multicomponent Analysis. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 18822-18828.	1.8	12
119	Application of a dealginated seaweed derivative for the simultaneous metal ions removal from real and synthetic effluents. <i>Journal of Water Process Engineering</i> , 2020, 37, 101546.	2.6	12
120	Application of experimental design to evaluate the incorporation of naproxen into sericin/alginate particles prepared by ionic gelation technique. <i>Chemical Engineering Science</i> , 2021, 229, 116101.	1.9	12
121	Evaluation of different covalent crosslinking agents into valsartan-loaded sericin and alginate particles for modified release. <i>Powder Technology</i> , 2021, 390, 240-255.	2.1	12
122	Photo-assisted electrochemical degradation of ciprofloxacin using DSA [®] anode with NaCl electrolyte and simultaneous chlorine photolysis. <i>Journal of Water Process Engineering</i> , 2022, 47, 102698.	2.6	12
123	Solophenyl Navy Blue Dye Removal by Smectite Clay in a Porous Bed Column. <i>Adsorption Science and Technology</i> , 2009, 27, 861-875.	1.5	11
124	Application of human HAZOP technique adapted to identify risks in Brazilian waste pickers' cooperatives. <i>Journal of Environmental Management</i> , 2019, 246, 247-258.	3.8	11
125	Characterization and biosorption of silver by biomass waste from the alginate industry. <i>Journal of Cleaner Production</i> , 2020, 271, 122588.	4.6	11
126	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

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127	Kinetic, equilibrium, and thermodynamic study on atrazine adsorption in organophilic clay. , 0, 123, 240-252.		11
128	Drying conditions influence on physical properties of recycled paper. Chemical Engineering and Processing: Process Intensification, 2007, 46, 955-963.	1.8	10
129	Dynamic adsorption of chromium ions onto natural and crosslinked chitosan membranes for wastewater treatment. Materials Research, 2010, 13, 89-94.	0.6	10
130	Characterization of Spectrogele Organoclay Used to Adsorption of Petroleum Derivatives. Materials Science Forum, 0, 798-799, 558-563.	0.3	10
131	Competitive fixed-bed biosorption of Ag(I) and Cu(II) ions on Sargassum filipendula seaweed waste. Journal of Water Process Engineering, 2020, 36, 101294.	2.6	10
132	Extraction of natural antioxidants from strawberry guava leaf by conventional and non-conventional techniques. Chemical Engineering Communications, 2021, 208, 1131-1142.	1.5	10
133	Thermal characterization and stability investigation of sericin and alginate blend loaded with diclofenac sodium or ibuprofen. European Polymer Journal, 2021, 142, 110125.	2.6	10
134	Ofloxacin degradation in chloride-containing medium by photo-assisted sonoelectrochemical process using a mixed metal oxide anode. Journal of Environmental Chemical Engineering, 2022, 10, 107174.	3.3	10
135	Nickel, Lead and Zinc Removal by Adsorption Process in Fluidised Bed. Environmental Technology (United Kingdom), 2006, 27, 1101-1114.	1.2	9
136	Gastroresistant controlled release of OTC encapsulated in alginate/chitosan matrix coated with acrylate MP in fluidized bed. Journal of Applied Polymer Science, 2014, 131, .	1.3	9
137	Chemical equilibrium of ion exchange in the binary mixture Cu ²⁺ and Ca ²⁺ in calcium alginate. Adsorption, 2015, 21, 445-458.	1.4	9
138	Insight of the removal of nickel and copper ions in fixed bed through acid activation and treatment with sodium of clay. Brazilian Journal of Chemical Engineering, 2014, 31, 1047-1056.	0.7	8
139	New Insight into a Step-by-Step Modeling of Supercritical CO ₂ Foaming to Fabricate Poly(μ -caprolactone) Scaffold. Industrial & Engineering Chemistry Research, 2020, 59, 20033-20044.	1.8	8
140	Recovery of dysprosium by biosorption onto a biocomposite from sericin and alginate. Journal of Water Process Engineering, 2021, 44, 102388.	2.6	8
141	Natural polysaccharides and proteins applied to the development of gastroresistant multiparticulate systems for anti-inflammatory drug delivery – A systematic review. European Polymer Journal, 2022, 172, 111205.	2.6	8
142	Shrinkage of Recycled Paper Sheet During Drying. Drying Technology, 2006, 24, 465-474.	1.7	7
143	Copper removal kinetic from electroplating industry wastewater using pulsed electrodeposition technique. Environmental Technology (United Kingdom), 2022, 43, 469-477.	1.2	7
144	Development of a modified drug delivery system through the incorporation of furosemide into sericin and alginate matrix using the experimental design approach. Journal of Chemical Technology and Biotechnology, 2021, 96, 650-661.	1.6	7

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