

Guilherme Luiz Dotto

List of Publications by Year in descending order

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414
papers

16,727
citations

14655

66
h-index

34986

98
g-index

417
all docs

417
docs citations

417
times ranked

10433
citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorption of congo red and methylene blue dyes on an ashitaba waste and a walnut shell-based activated carbon from aqueous solutions: Experiments, characterization and physical interpretations. <i>Chemical Engineering Journal</i> , 2020, 388, 124263.	12.7	319
2	Microwave-assisted activated carbon from cocoa shell as adsorbent for removal of sodium diclofenac and nimesulide from aqueous effluents. <i>Journal of Hazardous Materials</i> , 2015, 289, 18-27.	12.4	276
3	Current scenario and challenges in adsorption for water treatment. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103988.	6.7	273
4	Adsorption of Methylene Blue by ultrasonic surface modified chitin. <i>Journal of Colloid and Interface Science</i> , 2015, 446, 133-140.	9.4	224
5	Comparison of <i>Spirulina platensis</i> microalgae and commercial activated carbon as adsorbents for the removal of Reactive Red 120 dye from aqueous effluents. <i>Journal of Hazardous Materials</i> , 2012, 241-242, 146-153.	12.4	213
6	Adsorption of food dyes acid blue 9 and food yellow 3 onto chitosan: Stirring rate effect in kinetics and mechanism. <i>Journal of Hazardous Materials</i> , 2011, 187, 164-170.	12.4	211
7	Adsorption isotherms and thermochemical data of FD&C Red n ^o 40 binding by Chitosan. <i>Brazilian Journal of Chemical Engineering</i> , 2011, 28, 295-304.	1.3	204
8	Adsorption of food dyes onto chitosan: Optimization process and kinetic. <i>Carbohydrate Polymers</i> , 2011, 84, 231-238.	10.2	190
9	Effective adsorption of dyes on an activated carbon prepared from carboxymethyl cellulose: Experiments, characterization and advanced modelling. <i>Chemical Engineering Journal</i> , 2021, 417, 128116.	12.7	175
10	New biochar from pecan nutshells as an alternative adsorbent for removing reactive red 141 from aqueous solutions. <i>Journal of Cleaner Production</i> , 2018, 171, 57-65.	9.3	174
11	Preparation of activated carbon from black wattle bark waste and its application for phenol adsorption. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103396.	6.7	174
12	Adsorption of ibuprofen, ketoprofen, and paracetamol onto activated carbon prepared from effluent treatment plant sludge of the beverage industry. <i>Chemosphere</i> , 2021, 262, 128322.	8.2	168
13	Application of chitosan films for the removal of food dyes from aqueous solutions by adsorption. <i>Chemical Engineering Journal</i> , 2013, 214, 8-16.	12.7	165
14	Preparation of activated carbon from peanut shell by conventional pyrolysis and microwave irradiation-pyrolysis to remove organic dyes from aqueous solutions. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 266-275.	6.7	158
15	Preparation and characterization of NiFe ₂ O ₄ /activated carbon composite as potential magnetic adsorbent for removal of ibuprofen and ketoprofen pharmaceuticals from aqueous solutions. <i>Journal of Cleaner Production</i> , 2019, 229, 828-837.	9.3	157
16	Adsorption of crystal violet on biomasses from pecan nutshell, para chestnut husk, araucaria bark and palm cactus: Experimental study and theoretical modeling via monolayer and double layer statistical physics models. <i>Chemical Engineering Journal</i> , 2019, 378, 122101.	12.7	148
17	Biosorption of food dyes onto <i>Spirulina platensis</i> nanoparticles: Equilibrium isotherm and thermodynamic analysis. <i>Bioresource Technology</i> , 2012, 103, 123-130.	9.6	144
18	Recovery of cobalt from spent lithium-ion batteries using supercritical carbon dioxide extraction. <i>Waste Management</i> , 2016, 51, 245-251.	7.4	137

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19	Microwave synthesis of silica nanoparticles and its application for methylene blue adsorption. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 649-659.	6.7	137
20	A novel route for preparation of chemically activated carbon from pistachio wood for highly efficient Pb(II) sorption. <i>Journal of Environmental Management</i> , 2019, 236, 34-44.	7.8	134
21	Development of CO ₂ activated biochar from solid wastes of a beer industry and its application for methylene blue adsorption. <i>Waste Management</i> , 2018, 78, 630-638.	7.4	131
22	Preparation, characterization and application of microwave-assisted activated carbons from wood chips for removal of phenol from aqueous solution. <i>Journal of Molecular Liquids</i> , 2016, 223, 1067-1080.	4.9	130
23	Adsorption of methylene blue on agroindustrial wastes: Experimental investigation and phenomenological modelling. <i>Progress in Biophysics and Molecular Biology</i> , 2019, 141, 60-71.	2.9	130
24	Kinetics and Mechanism of Tartrazine Adsorption onto Chitin and Chitosan. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 6862-6868.	3.7	129
25	Formosa papaya seed powder (FPSP): Preparation, characterization and application as an alternative adsorbent for the removal of crystal violet from aqueous phase. <i>Journal of Environmental Chemical Engineering</i> , 2014, 2, 230-238.	6.7	128
26	Chitosan/polyamide nanofibers prepared by Forcespinning [®] technology: A new adsorbent to remove anionic dyes from aqueous solutions. <i>Journal of Cleaner Production</i> , 2017, 144, 120-129.	9.3	128
27	Adsorption of hazardous dyes on functionalized multiwalled carbon nanotubes in single and binary systems: Experimental study and physicochemical interpretation of the adsorption mechanism. <i>Chemical Engineering Journal</i> , 2020, 389, 124467.	12.7	125
28	Adsorption of dyes brilliant blue, sunset yellow and tartrazine from aqueous solution on chitosan: Analytical interpretation via multilayer statistical physics model. <i>Chemical Engineering Journal</i> , 2020, 382, 122952.	12.7	123
29	Interpretation of the adsorption mechanism of Reactive Black 5 and Ponceau 4R dyes on chitosan/polyamide nanofibers via advanced statistical physics model. <i>Journal of Molecular Liquids</i> , 2019, 285, 165-170.	4.9	121
30	Preparation of mesoporous geopolymer using metakaolin and rice husk ash as synthesis precursors and its use as potential adsorbent to remove organic dye from aqueous solutions. <i>Ceramics International</i> , 2018, 44, 416-423.	4.8	116
31	Biosorption of rhodamine B dye from dyeing stones effluents using the green microalgae <i>Chlorella pyrenoidosa</i> . <i>Journal of Cleaner Production</i> , 2018, 198, 1302-1310.	9.3	113
32	Adsorption of crystal violet dye onto a mesoporous ZSM-5 zeolite synthesized using chitin as template. <i>Journal of Colloid and Interface Science</i> , 2017, 508, 313-322.	9.4	112
33	Efficient mercury removal from wastewater by pistachio wood wastes-derived activated carbon prepared by chemical activation using a novel activating agent. <i>Journal of Environmental Management</i> , 2018, 223, 1001-1009.	7.8	110
34	Development of high quality activated carbon from biological sludge and its application for dyes removal from aqueous solutions. <i>Science of the Total Environment</i> , 2019, 660, 277-287.	8.0	109
35	Understanding the adsorption mechanism of phenol and 2-nitrophenol on a biopolymer-based biochar in single and binary systems via advanced modeling analysis. <i>Chemical Engineering Journal</i> , 2019, 371, 1-6.	12.7	107
36	Adsorption of FD&C Red No. 40 by chitosan: Isotherms analysis. <i>Journal of Food Engineering</i> , 2009, 95, 16-20.	5.2	105

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37	Adsorption of amoxicillin and tetracycline on activated carbon prepared from durian shell in single and binary systems: Experimental study and modeling analysis. <i>Chemical Engineering Journal</i> , 2020, 379, 122320.	12.7	101
38	Development of chitosan based hybrid hydrogels for dyes removal from aqueous binary system. <i>Journal of Molecular Liquids</i> , 2017, 225, 265-270.	4.9	100
39	Application of spouted bed elutriation in the recycling of lithium ion batteries. <i>Journal of Power Sources</i> , 2015, 275, 627-632.	7.8	96
40	Chitosan scaffold as an alternative adsorbent for the removal of hazardous food dyes from aqueous solutions. <i>Journal of Colloid and Interface Science</i> , 2014, 424, 7-15.	9.4	94
41	Highly efficient and reusable mesoporous zeolite synthesized from a biopolymer for cationic dyes adsorption. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 556, 43-50.	4.7	92
42	Development of chitosan/bentonite hybrid composite to remove hazardous anionic and cationic dyes from colored effluents. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 3230-3239.	6.7	90
43	Hybrid adsorbents of tannin and APTES (3-aminopropyltriethoxysilane) and their application for the highly efficient removal of acid red 1 dye from aqueous solutions. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 4307-4318.	6.7	89
44	Statistical optimization, interaction analysis and desorption studies for the azo dyes adsorption onto chitosan films. <i>Journal of Colloid and Interface Science</i> , 2013, 411, 27-33.	9.4	87
45	Detailed numerical solution of pore volume and surface diffusion model in adsorption systems. <i>Chemical Engineering Research and Design</i> , 2017, 122, 298-307.	5.6	87
46	A review of the occurrence, disposal, determination, toxicity and remediation technologies of the tetracycline antibiotic. <i>Chemical Engineering Research and Design</i> , 2022, 160, 25-40.	5.6	86
47	Microwave-activated carbons from tucumã (<i>Astrocaryum aculeatum</i>) seed for efficient removal of 2-nitrophenol from aqueous solutions. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 1173-1187.	2.2	85
48	Adsorption of a textile dye onto piaçava fibers: kinetic, equilibrium, thermodynamics, and application in simulated effluents. <i>Environmental Science and Pollution Research</i> , 2019, 26, 28584-28592.	5.3	84
49	Microplastics physicochemical properties, specific adsorption modeling and their interaction with pharmaceuticals and other emerging contaminants. <i>Science of the Total Environment</i> , 2021, 753, 141981.	8.0	83
50	Diffusional mass transfer model for the adsorption of food dyes on chitosan films. <i>Chemical Engineering Research and Design</i> , 2014, 92, 2324-2332.	5.6	81
51	Preparation of hybrids of wood sawdust with 3-aminopropyl-triethoxysilane. Application as an adsorbent to remove Reactive Blue 4 dye from wastewater effluents. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 125, 141-152.	5.3	81
52	High-performance removal of 2,4-dichlorophenoxyacetic acid herbicide in water using activated carbon derived from Queen palm fruit endocarp (<i>Syagrus romanzoffiana</i>). <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104911.	6.7	79
53	New insights into single-compound and binary adsorption of copper and lead ions on a treated sea mango shell: experimental and theoretical studies. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 25927-25937.	2.8	78
54	Adsorption Isotherms in Liquid Phase: Experimental, Modeling, and Interpretations. , 2017, , 19-51.		78

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55	Alternative synthesis for ZnFe ₂ O ₄ /chitosan magnetic particles to remove diclofenac from water by adsorption. <i>International Journal of Biological Macromolecules</i> , 2019, 131, 301-308.	7.5	76
56	Recent advances on elemental biosorption. <i>Environmental Chemistry Letters</i> , 2019, 17, 409-427.	16.2	76
57	Removal of fluoride from fertilizer industry effluent using carbon nanotubes stabilized in chitosan sponge. <i>Journal of Hazardous Materials</i> , 2020, 388, 122042.	12.4	74
58	Artificial neural network (ANN) and adaptive neuro-fuzzy interference system (ANFIS) modelling for nickel adsorption onto agro-wastes and commercial activated carbon. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 7152-7160.	6.7	73
59	Single and competitive dye adsorption onto chitosan-based hybrid hydrogels using artificial neural network modeling. <i>Journal of Colloid and Interface Science</i> , 2020, 560, 722-729.	9.4	73
60	Sono electro-chemical synthesis of LaFeO ₃ nanoparticles for the removal of fluoride: Optimization and modeling using RSM, ANN and GA tools. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105320.	6.7	73
61	Adsorption of ketoprofen and paracetamol and treatment of a synthetic mixture by novel porous carbon derived from <i>Butia capitata</i> endocarp. <i>Journal of Molecular Liquids</i> , 2021, 339, 117184.	4.9	73
62	Kinetics and Mechanism of the Food Dye FD&C Red 40 Adsorption onto Chitosan. <i>Journal of Chemical & Engineering Data</i> , 2011, 56, 3759-3765.	1.9	72
63	Surface modification of chitin using ultrasound-assisted and supercritical CO ₂ technologies for cobalt adsorption. <i>Journal of Hazardous Materials</i> , 2015, 295, 29-36.	12.4	72
64	Three-dimensional mass transfer modeling of ibuprofen adsorption on activated carbon prepared by sonication. <i>Chemical Engineering Journal</i> , 2018, 341, 65-74.	12.7	72
65	Remoção dos corantes azul brilhante, amarelo crepúsculo e amarelo tartrazina de soluções aquosas utilizando carvão ativado, terra ativada, terra diatomácea, quitina e quitosana: estudos de equilíbrio e termodinâmica. <i>Química Nova</i> , 2011, 34, 1193-1199.	0.3	71
66	Equilibrium and thermodynamics of azo dyes biosorption onto <i>Spirulina platensis</i> . <i>Brazilian Journal of Chemical Engineering</i> , 2013, 30, 13-21.	1.3	71
67	New physicochemical interpretations for the adsorption of food dyes on chitosan films using statistical physics treatment. <i>Food Chemistry</i> , 2015, 171, 1-7.	8.2	71
68	Preparation and characterization of a novel mountain soursop seeds powder adsorbent and its application for the removal of crystal violet and methylene blue from aqueous solutions. <i>Chemical Engineering Journal</i> , 2020, 391, 123617.	12.7	70
69	A review on the environmental impact of phosphogypsum and potential health impacts through the release of nanoparticles. <i>Chemosphere</i> , 2022, 286, 131513.	8.2	70
70	Glass beads coated with chitosan for the food azo dyes adsorption in a fixed bed column. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 3387-3393.	5.8	69
71	Removal of various contaminants from water by renewable lignocellulose-derived biosorbents: a comprehensive and critical review. <i>Critical Reviews in Environmental Science and Technology</i> , 2019, 49, 2155-2219.	12.8	69
72	Use of <i>Spirulina platensis</i> micro and nanoparticles for the removal synthetic dyes from aqueous solutions by biosorption. <i>Process Biochemistry</i> , 2012, 47, 1335-1343.	3.7	68

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73	Kinetic studies on the biosorption of phenol by nanoparticles from <i>Spirulina</i> sp. LEB 18. <i>Journal of Environmental Chemical Engineering</i> , 2013, 1, 1137-1143.	6.7	68
74	Interpretation of single and competitive adsorption of cadmium and zinc on activated carbon using monolayer and exclusive extended monolayer models. <i>Environmental Science and Pollution Research</i> , 2017, 24, 19902-19908.	5.3	68
75	Synthesis of a bio-based polyurethane/chitosan composite foam using ricinoleic acid for the adsorption of Food Red 17 dye. <i>International Journal of Biological Macromolecules</i> , 2019, 121, 373-380.	7.5	68
76	Analysis of mass transfer kinetics in the biosorption of synthetic dyes onto <i>Spirulina platensis</i> nanoparticles. <i>Biochemical Engineering Journal</i> , 2012, 68, 85-90.	3.6	67
77	Highly efficient adsorption performance of a novel magnetic geopolymer/Fe ₃ O ₄ composite towards removal of aqueous acid green 16 dye. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103804.	6.7	67
78	Preparation of Chitosan with Different Characteristics and Its Application for Biofilms Production. <i>Journal of Polymers and the Environment</i> , 2015, 23, 470-477.	5.0	65
79	New insights into the adsorption of crystal violet dye on functionalized multi-walled carbon nanotubes: Experiments, statistical physics and COSMO-RS models application. <i>Journal of Molecular Liquids</i> , 2017, 248, 890-897.	4.9	64
80	Activated carbon obtained from sapelli wood sawdust by microwave heating for o-cresol adsorption. <i>Research on Chemical Intermediates</i> , 2017, 43, 1063-1087.	2.7	64
81	Adsorption of phenol onto chitosan hydrogel scaffold modified with carbon nanotubes. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103460.	6.7	64
82	Improvement of activated carbon characteristics by sonication and its application for pharmaceutical contaminant adsorption. <i>Environmental Science and Pollution Research</i> , 2018, 25, 24713-24725.	5.3	62
83	Adsorption and recovery of phosphate from aqueous solution by the construction and demolition wastes sludge and its potential use as phosphate-based fertiliser. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103605.	6.7	62
84	Adsorption of acid green and procion red on a magnetic geopolymer based adsorbent: Experiments, characterization and theoretical treatment. <i>Chemical Engineering Journal</i> , 2020, 383, 123113.	12.7	61
85	Insights of the adsorption mechanism of methylene blue on brazilian berries seeds: Experiments, phenomenological modelling and DFT calculations. <i>Chemical Engineering Journal</i> , 2020, 394, 125011.	12.7	60
86	Adsorption of amoxicillin and paracetamol on modified activated carbons: Equilibrium and positional entropy studies. <i>Journal of Molecular Liquids</i> , 2017, 234, 375-381.	4.9	59
87	Synthesis of a novel CoFe ₂ O ₄ /chitosan magnetic composite for fast adsorption of indigotine blue dye. <i>Carbohydrate Polymers</i> , 2019, 217, 6-14.	10.2	59
88	Removal of heavy metals by leaves-derived biosorbents. <i>Environmental Chemistry Letters</i> , 2019, 17, 755-766.	16.2	59
89	Utilization of Pacara Earpod tree (<i>Enterolobium contortisilquum</i>) and Ironwood (<i>Caesalpinia</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Pollution Research, 2020, 27, 33307-33320.	5.3	59
90	Process Parameters Optimization, Characterization, and Application of KOH-Activated Norway Spruce Bark Graphitic Biochars for Efficient Azo Dye Adsorption. <i>Molecules</i> , 2022, 27, 456.	3.8	59

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91	A comparative study of chemical treatment by MgCl ₂ , ZnSO ₄ , ZnCl ₂ , and KOH on physicochemical properties and acetaminophen adsorption performance of biobased porous materials from tree bark residues. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 642, 128626.	4.7	59
92	Preparation of carbonaceous materials from pyrolysis of chicken bones and its application for fuchsine adsorption. <i>Environmental Science and Pollution Research</i> , 2019, 26, 28574-28583.	5.3	58
93	Monolayer and multilayer adsorption of pharmaceuticals on activated carbon: Application of advanced statistical physics models. <i>Journal of Molecular Liquids</i> , 2019, 283, 276-286.	4.9	57
94	Transforming shrub waste into a high-efficiency adsorbent: Application of <i>Physalis peruviana</i> chalice treated with strong acid to remove the 2,4-dichlorophenoxyacetic acid herbicide. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104574.	6.7	56
95	Nanominerals assemblages and hazardous elements assessment in phosphogypsum from an abandoned phosphate fertilizer industry. <i>Chemosphere</i> , 2020, 256, 127138.	8.2	56
96	Drying of chitosan in a spouted bed: The influences of temperature and equipment geometry in powder quality. <i>LWT - Food Science and Technology</i> , 2011, 44, 1786-1792.	5.2	55
97	Chromium (VI) biosorption by <i>Saccharomyces cerevisiae</i> subjected to chemical and thermal treatments. <i>Environmental Science and Pollution Research</i> , 2018, 25, 19179-19186.	5.3	55
98	Synthesis and characterization of biopolymers functionalized with APTES (3-aminopropyltriethoxysilane) for the adsorption of sunset yellow dye. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103410.	6.7	55
99	Biochars from animal wastes as alternative materials to treat colored effluents containing basic red 9. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103446.	6.7	54
100	Activated carbon from wood wastes for the removal of uranium and thorium ions through modification with mineral acid. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 607, 125516.	4.7	54
101	Development of highly porous activated carbon from <i>Jacaranda mimosifolia</i> seed pods for remarkable removal of aqueous-phase ketoprofen. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105676.	6.7	54
102	Mesoporous Nb ₂ O ₅ /SiO ₂ material obtained by sol-gel method and applied as adsorbent of crystal violet dye. <i>Environmental Technology (United Kingdom)</i> , 2017, 38, 566-578.	2.2	53
103	Supercritical CO ₂ extraction of indium present in liquid crystal displays from discarded cell phones using organic acids. <i>Journal of Supercritical Fluids</i> , 2017, 120, 95-101.	3.2	53
104	Adsorption of methylene blue on comminuted raw avocado seeds: Interpretation of the effect of salts via physical monolayer model. <i>Journal of Molecular Liquids</i> , 2020, 305, 112815.	4.9	53
105	Forecasting the multicomponent adsorption of nimesulide and paracetamol through artificial neural network. <i>Chemical Engineering Journal</i> , 2021, 412, 127527.	12.7	53
106	A mass transfer study considering intraparticle diffusion and axial dispersion for fixed-bed adsorption of crystal violet on pecan pericarp (<i>Carya illinoensis</i>). <i>Chemical Engineering Journal</i> , 2020, 397, 125423.	12.7	52
107	Efficient adsorbent based on construction and demolition wastes functionalized with 3-aminopropyltriethoxysilane (APTES) for the removal ciprofloxacin from hospital synthetic effluents. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103875.	6.7	52
108	Preparation, Characterization and Dye Adsorption/Reuse of Chitosan-Vanadate Films. <i>Journal of Polymers and the Environment</i> , 2018, 26, 2917-2924.	5.0	51

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109	Adsorption of a non-steroidal anti-inflammatory drug onto MgAl/LDH-activated carbon composite – Experimental investigation and statistical physics modeling. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 586, 124217.	4.7	51
110	Highly effective adsorption of synthetic phenol effluent by a novel activated carbon prepared from fruit wastes of the <i>Ceiba speciosa</i> forest species. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105927.	6.7	51
111	Equilibrium Isotherms, Thermodynamics, and Kinetic Studies for the Adsorption of Food Azo Dyes onto Chitosan Films. <i>Chemical Engineering Communications</i> , 2015, 202, 1316-1323.	2.6	50
112	Potential of <i>Cedrella fissilis</i> bark as an adsorbent for the removal of red 97 dye from aqueous effluents. <i>Environmental Science and Pollution Research</i> , 2019, 26, 19207-19219.	5.3	50
113	Water hyacinth (<i>Eichhornia crassipes</i>) roots, an amazon natural waste, as an alternative biosorbent to uptake a reactive textile dye from aqueous solutions. <i>Ecological Engineering</i> , 2020, 150, 105817.	3.6	50
114	Optimization and kinetic analysis of food dyes biosorption by <i>Spirulina platensis</i> . <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 91, 234-241.	5.0	49
115	Removal of hazardous pharmaceutical dyes by adsorption onto papaya seeds. <i>Water Science and Technology</i> , 2014, 70, 102-107.	2.5	49
116	An eco-friendly and low-cost strategy for groundwater defluorination: Adsorption of fluoride onto calcinated sludge. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104546.	6.7	49
117	Adsorption of diclofenac and nimesulide on activated carbon: Statistical physics modeling and effect of adsorbate size. <i>Journal of Physics and Chemistry of Solids</i> , 2017, 109, 117-123.	4.0	48
118	Biosorption of cationic dyes by <i>Pará chestnut husk</i> (<i>Bertholletia excelsa</i>). <i>Water Science and Technology</i> , 2018, 77, 1612-1621.	2.5	48
119	Adsorbents for glyphosate removal in contaminated waters: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 1525-1543.	16.2	48
120	Adsorption: Fundamental aspects and applications of adsorption for effluent treatment. , 2021, , 41-88.		48
121	Preparation and Application of Efficient Biobased Carbon Adsorbents Prepared from Spruce Bark Residues for Efficient Removal of Reactive Dyes and Colors from Synthetic Effluents. <i>Coatings</i> , 2021, 11, 772.	2.6	48
122	Adsorption mechanisms of single and simultaneous removal of pharmaceutical compounds onto activated carbon: Isotherm and thermodynamic modeling. <i>Journal of Molecular Liquids</i> , 2021, 336, 116203.	4.9	48
123	Influence of Drying Techniques on the Characteristics of Chitosan and the Quality of Biopolymer Films. <i>Drying Technology</i> , 2011, 29, 1784-1791.	3.1	47
124	Preparation of an alternative adsorbent from <i>Acacia Mearnsii</i> wastes through acetosolv method and its application for dye removal. <i>Journal of Cleaner Production</i> , 2018, 180, 386-394.	9.3	47
125	Treatment of effluents containing 2-chlorophenol by adsorption onto chemically and physically activated biochars. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104473.	6.7	47
126	Powdered biosorbent from the mandacaru cactus (<i>cereus jamacaru</i>) for discontinuous and continuous removal of Basic Fuchsin from aqueous solutions. <i>Powder Technology</i> , 2020, 364, 584-592.	4.2	47

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127	Preparation of activated carbon from the residues of the mushroom (<i>Agaricus bisporus</i>) production chain for the adsorption of the 2,4-dichlorophenoxyacetic herbicide. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106843.	6.7	47
128	Convective drying of papaya seeds (<i>Carica papaya</i> L.) and optimization of oil extraction. <i>Industrial Crops and Products</i> , 2016, 85, 221-228.	5.2	46
129	Equilibrium study of single and binary adsorption of lead and mercury on bentonite-alginate composite: Experiments and application of two theoretical approaches. <i>Journal of Molecular Liquids</i> , 2018, 253, 160-168.	4.9	46
130	Molecular modeling of cationic dyes adsorption on agricultural Algerian olive cake waste. <i>Journal of Molecular Liquids</i> , 2018, 264, 127-133.	4.9	46
131	Adsorption of phenol on microwave-assisted activated carbons: Modelling and interpretation. <i>Journal of Molecular Liquids</i> , 2019, 274, 309-314.	4.9	46
132	Bio-Based Active Packaging: Carrageenan Film with Olive Leaf Extract for Lamb Meat Preservation. <i>Foods</i> , 2020, 9, 1759.	4.3	46
133	Single and binary adsorption of cobalt and methylene blue on modified chitin: Application of the Hill and exclusive extended Hill models. <i>Journal of Molecular Liquids</i> , 2017, 233, 543-550.	4.9	44
134	Removal of Procion Red dye from colored effluents using H ₂ SO ₄ /HNO ₃ -treated avocado shells (<i>Persea americana</i>) as adsorbent. <i>Environmental Science and Pollution Research</i> , 2018, 25, 6429-6442.	5.3	44
135	Ternary adsorption of cobalt, nickel and methylene blue on a modified chitin: Phenomenological modeling and physical interpretation of the adsorption mechanism. <i>International Journal of Biological Macromolecules</i> , 2020, 158, 595-604.	7.5	44
136	Nanoparticles in fossil and mineral fuel sectors and their impact on environment and human health: A review and perspective. <i>Gondwana Research</i> , 2021, 92, 184-201.	6.0	44
137	Potential of <i>Araucaria angustifolia</i> bark as adsorbent to remove Gentian Violet dye from aqueous effluents. <i>Water Science and Technology</i> , 2018, 78, 1693-1703.	2.5	43
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#	ARTICLE	IF	CITATIONS
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409	ADSORÇÃO DO CORANTE AMARANTO UTILIZANDO FILMES DE QUITOSANA MODIFICADOS COM BENTONITA. , 0, , .		0
410	CINÉTICA DA ADSORÇÃO DE OURO CONTIDO EM SOLUÇÕES LIXIVIADAS DE MICROPROCESSADORES UTILIZANDO QUITINA COMO ADSORVENTE. , 0, , .		0
411	EQUILÍBRIO E TERMODINÂMICA DA ADSORÇÃO DE CORANTE CATIONICO UTILIZANDO QUITINA TRATADA VIA ULTRASSOM. , 0, , .		0
412	USO DE QUITINA MODIFICADA SUPORTADA EM AREIA PARA ADSORÇÃO DE CORANTE EM LEITO FIXO. , 0, , .		0
413	RECUPERAÇÃO DE OURO DE RESÍDUOS ELETRÔNICOS UTILIZANDO LIXIVIAÇÃO E BIOSORÇÃO COM QUITINA. , 0, , .		0
414	ADSORÇÃO DE IONS DE CROMO (VI) EM NANOFIBRAS DE QUITOSANA E NYLON 6 PRODUZIDAS POR TECNOLOGIA FORCESPINNING®. , 0, , .		0