Guilherme Luiz Dotto

List of Publications by Year
in descending order

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414 papers	16,727 citations	14614 66 h-index	34900 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. Chemical Engineering Journal, 2020, 388, 124263.	6.6	319
2	Microwave-assisted activated carbon from cocoa shell as adsorbent for removal of sodium diclofenac and nimesulide from aqueous effluents. Journal of Hazardous Materials, 2015, 289, 18-27.	6.5	276
3	Current scenario and challenges in adsorption for water treatment. Journal of Environmental Chemical Engineering, 2020, 8, 103988.	3.3	273
4	Adsorption of Methylene Blue by ultrasonic surface modified chitin. Journal of Colloid and Interface Science, 2015, 446, 133-140.	5.0	224
5	Comparison of Spirulina platensis microalgae and commercial activated carbon as adsorbents for the removal of Reactive Red 120 dye from aqueous effluents. Journal of Hazardous Materials, 2012, 241-242, 146-153.	6.5	213
6	Adsorption of food dyes acid blue 9 and food yellow 3 onto chitosan: Stirring rate effect in kinetics and mechanism. Journal of Hazardous Materials, 2011, 187, 164-170.	6.5	211
7	Adsorption isotherms and thermochemical data of FD&C Red nÂ° 40 binding by Chitosan. Brazilian Journal of Chemical Engineering, 2011, 28, 295-304.	0.7	204
8	Adsorption of food dyes onto chitosan: Optimization process and kinetic. Carbohydrate Polymers, 2011, 84, 231-238.	5.1	190
9	Effective adsorption of dyes on an activated carbon prepared from carboxymethyl cellulose: Experiments, characterization and advanced modelling. Chemical Engineering Journal, 2021, 417, 128116.	6.6	175
10	New biochar from pecan nutshells as an alternative adsorbent for removing reactive red 141 from aqueous solutions. Journal of Cleaner Production, 2018, 171, 57-65.	4.6	174
11	Preparation of activated carbon from black wattle bark waste and its application for phenol adsorption. Journal of Environmental Chemical Engineering, 2019, 7, 103396.	3.3	174
12	Adsorption of ibuprofen, ketoprofen, and paracetamol onto activated carbon prepared from effluent treatment plant sludge of the beverage industry. Chemosphere, 2021, 262, 128322.	4.2	168
13	Application of chitosan films for the removal of food dyes from aqueous solutions by adsorption. Chemical Engineering Journal, 2013, 214, 8-16.	6.6	165
14	Preparation of activated carbon from peanut shell by conventional pyrolysis and microwave irradiation-pyrolysis to remove organic dyes from aqueous solutions. Journal of Environmental Chemical Engineering, 2016, 4, 266-275.	3.3	158
15	Preparation and characterization of NiFe2O4/activated carbon composite as potential magnetic adsorbent for removal of ibuprofen and ketoprofen pharmaceuticals from aqueous solutions. Journal of Cleaner Production, 2019, 229, 828-837.	4.6	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. Chemical Engineering Journal, 2019, 378, 122101.	6.6	148
17	Biosorption of food dyes onto Spirulina platensis nanoparticles: Equilibrium isotherm and thermodynamic analysis. Bioresource Technology, 2012, 103, 123-130.	4.8	144
18	Recovery of cobalt from spent lithium-ion batteries using supercritical carbon dioxide extraction. Waste Management, 2016, 51, 245-251.	3.7	137

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19	Microwave synthesis of silica nanoparticles and its application for methylene blue adsorption. Journal of Environmental Chemical Engineering, 2018, 6, 649-659.	3.3	137
20	A novel route for preparation of chemically activated carbon from pistachio wood for highly efficient Pb(II) sorption. Journal of Environmental Management, 2019, 236, 34-44.	3.8	134
21	Development of CO2 activated biochar from solid wastes of a beer industry and its application for methylene blue adsorption. Waste Management, 2018, 78, 630-638.	3.7	131
22	Preparation, characterization and application of microwave-assisted activated carbons from wood chips for removal of phenol from aqueous solution. Journal of Molecular Liquids, 2016, 223, 1067-1080.	2.3	130
23	Adsorption of methylene blue on agroindustrial wastes: Experimental investigation and phenomenological modelling. Progress in Biophysics and Molecular Biology, 2019, 141, 60-71.	1.4	130
24	Kinetics and Mechanism of Tartrazine Adsorption onto Chitin and Chitosan. Industrial & Engineering Chemistry Research, 2012, 51, 6862-6868.	1.8	129
25	Formosa papaya seed powder (FPSP): Preparation, characterization and application as an alternative adsorbent for the removal of crystal violet from aqueous phase. Journal of Environmental Chemical Engineering, 2014, 2, 230-238.	3.3	128
26	Chitosan/polyamide nanofibers prepared by ForcespinningÂ® technology: A new adsorbent to remove anionic dyes from aqueous solutions. Journal of Cleaner Production, 2017, 144, 120-129.	4.6	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. Chemical Engineering Journal, 2020, 389, 124467.	6.6	125
28	Adsorption of dyes brilliant blue, sunset yellow and tartrazine from aqueous solution on chitosan: Analytical interpretation via multilayer statistical physics model. Chemical Engineering Journal, 2020, 382, 122952.	6.6	123
29	Interpretation of the adsorption mechanism of Reactive Black 5 and Ponceau 4R dyes on chitosan/polyamide nanofibers via advanced statistical physics model. Journal of Molecular Liquids, 2019, 285, 165-170.	2.3	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. Ceramics International, 2018, 44, 416-423.	2.3	116
31	Biosorption of rhodamine B dye from dyeing stones effluents using the green microalgae Chlorella pyrenoidosa. Journal of Cleaner Production, 2018, 198, 1302-1310.	4.6	113
32	Adsorption of crystal violet dye onto a mesoporous ZSM-5 zeolite synthetized using chitin as template. Journal of Colloid and Interface Science, 2017, 508, 313-322.	5.0	112
33	Efficient mercury removal from wastewater by pistachio wood wastes-derived activated carbon prepared by chemical activation using a novel activating agent. Journal of Environmental Management, 2018, 223, 1001-1009.	3.8	110
34	Development of high quality activated carbon from biological sludge and its application for dyes removal from aqueous solutions. Science of the Total Environment, 2019, 660, 277-287.	3.9	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. Chemical Engineering Journal, 2019, 371, 1-6.	6.6	107
36	Adsorption of FD&C Red No. 40 by chitosan: Isotherms analysis. Journal of Food Engineering, 2009, 95, 16-20.	2.7	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. Chemical Engineering Journal, 2020, 379, 122320.	6.6	101
38	Development of chitosan based hybrid hydrogels for dyes removal from aqueous binary system. Journal of Molecular Liquids, 2017, 225, 265-270.	2.3	100
39	Application of spouted bed elutriation in the recycling of lithium ion batteries. Journal of Power Sources, 2015, 275, 627-632.	4.0	96
40	Chitosan scaffold as an alternative adsorbent for the removal of hazardous food dyes from aqueous solutions. Journal of Colloid and Interface Science, 2014, 424, 7-15.	5.0	94
41	Highly efficient and reusable mesoporous zeolite synthetized from a biopolymer for cationic dyes adsorption. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 556, 43-50.	2.3	92
42	Development of chitosan/bentonite hybrid composite to remove hazardous anionic and cationic dyes from colored effluents. Journal of Environmental Chemical Engineering, 2016, 4, 3230-3239.	3.3	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. Journal of Environmental Chemical Engineering, 2017, 5, 4307-4318.	3.3	89
44	Statistical optimization, interaction analysis and desorption studies for the azo dyes adsorption onto chitosan films. Journal of Colloid and Interface Science, 2013, 411, 27-33.	5.0	87
45	Detailed numerical solution of pore volume and surface diffusion model in adsorption systems. Chemical Engineering Research and Design, 2017, 122, 298-307.	2.7	87
46	A review of the occurrence, disposal, determination, toxicity and remediation technologies of the tetracycline antibiotic. Chemical Engineering Research and Design, 2022, 160, 25-40.	2.7	86
47	Microwave-activated carbons from tucumÃ£ (Astrocaryum aculeatum) seed for efficient removal of 2-nitrophenol from aqueous solutions. Environmental Technology (United Kingdom), 2018, 39, 1173-1187.	1.2	85
48	Adsorption of a textile dye onto piaÃ§ava fibers: kinetic, equilibrium, thermodynamics, and application in simulated effluents. Environmental Science and Pollution Research, 2019, 26, 28584-28592.	2.7	84
49	Microplastics physicochemical properties, specific adsorption modeling and their interaction with pharmaceuticals and other emerging contaminants. Science of the Total Environment, 2021, 753, 141981.	3.9	83
50	Diffusional mass transfer model for the adsorption of food dyes on chitosan films. Chemical Engineering Research and Design, 2014, 92, 2324-2332.	2.7	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. Journal of the Taiwan Institute of Chemical Engineers, 2021, 125, 141-152.	2.7	81
52	High-performance removal of 2,4-dichlorophenoxyacetic acid herbicide in water using activated carbon derived from Queen palm fruit endocarp (Syagrus romanzoffiana). Journal of Environmental Chemical Engineering, 2021, 9, 104911.	3.3	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. Physical Chemistry Chemical Physics, 2017, 19, 25927-25937.	1.3	78
54	Adsorption Isotherms in Liquid Phase: Experimental, Modeling, and Interpretations. , 2017, , 19-51.		78

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55	Alternative synthesis for ZnFe2O4/chitosan magnetic particles to remove diclofenac from water by adsorption. International Journal of Biological Macromolecules, 2019, 131, 301-308.	3.6	76
56	Recent advances on elemental biosorption. Environmental Chemistry Letters, 2019, 17, 409-427.	8.3	76
57	Removal of fluoride from fertilizer industry effluent using carbon nanotubes stabilized in chitosan sponge. Journal of Hazardous Materials, 2020, 388, 122042.	6.5	74
58	Artificial neural network (ANN) and adaptive neuro-fuzzy interference system (ANFIS) modelling for nickel adsorption onto agro-wastes and commercial activated carbon. Journal of Environmental Chemical Engineering, 2018, 6, 7152-7160.	3.3	73
59	Single and competitive dye adsorption onto chitosanâ€“based hybrid hydrogels using artificial neural network modeling. Journal of Colloid and Interface Science, 2020, 560, 722-729.	5.0	73
60	Sono electro-chemical synthesis of LaFeO3 nanoparticles for the removal of fluoride: Optimization and modeling using RSM, ANN and GA tools. Journal of Environmental Chemical Engineering, 2021, 9, 105320.	3.3	73
61	Adsorption of ketoprofen and paracetamol and treatment of a synthetic mixture by novel porous carbon derived from Butia capitata endocarp. Journal of Molecular Liquids, 2021, 339, 117184.	2.3	73
62	Kinetics and Mechanism of the Food Dye FD&C Red 40 Adsorption onto Chitosan. Journal of Chemical & Engineering Data, 2011, 56, 3759-3765.	1.0	72
63	Surface modification of chitin using ultrasound-assisted and supercritical CO2 technologies for cobalt adsorption. Journal of Hazardous Materials, 2015, 295, 29-36.	6.5	72
64	Three-dimensional mass transfer modeling of ibuprofen adsorption on activated carbon prepared by sonication. Chemical Engineering Journal, 2018, 341, 65-74.	6.6	72
65	RemoÃ§Ã£o dos corantes azul brilhante, amarelo crepÃºsculo e amarelo tartrazina de soluÃ§Ãµes aquosas utilizando carvÃ£o ativado, terra ativada, terra diatomÃ¡cea, quitina e quitosana: estudos de equilÃbrio e termodinÂ¢mica. Quimica Nova, 2011, 34, 1193-1199.	0.3	71
66	Equilibrium and thermodynamics of azo dyes biosorption onto Spirulina platensis. Brazilian Journal of Chemical Engineering, 2013, 30, 13-21.	0.7	71
67	New physicochemical interpretations for the adsorption of food dyes on chitosan films using statistical physics treatment. Food Chemistry, 2015, 171, 1-7.	4.2	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. Chemical Engineering Journal, 2020, 391, 123617.	6.6	70
69	A review on the environmental impact of phosphogypsum and potential health impacts through the release of nanoparticles. Chemosphere, 2022, 286, 131513.	4.2	70
70	Glass beads coated with chitosan for the food azo dyes adsorption in a fixed bed column. Journal of Industrial and Engineering Chemistry, 2014, 20, 3387-3393.	2.9	69
71	Removal of various contaminants from water by renewable lignocellulose-derived biosorbents: a comprehensive and critical review. Critical Reviews in Environmental Science and Technology, 2019, 49, 2155-2219.	6.6	69
72	Use of Spirulina platensis micro and nanoparticles for the removal synthetic dyes from aqueous solutions by biosorption. Process Biochemistry, 2012, 47, 1335-1343.	1.8	68

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73	Kinetic studies on the biosorption of phenol by nanoparticles from Spirulina sp. LEB 18. Journal of Environmental Chemical Engineering, 2013, 1, 1137-1143.	3.3	68
74	Interpretation of single and competitive adsorption of cadmium and zinc on activated carbon using monolayer and exclusive extended monolayer models. Environmental Science and Pollution Research, 2017, 24, 19902-19908.	2.7	68
75	Synthesis of a bioâ€“based polyurethane/chitosan composite foam using ricinoleic acid for the adsorption of Food Red 17 dye. International Journal of Biological Macromolecules, 2019, 121, 373-380.	3.6	68
76	Analysis of mass transfer kinetics in the biosorption of synthetic dyes onto Spirulina platensis nanoparticles. Biochemical Engineering Journal, 2012, 68, 85-90.	1.8	67
77	Highly efficient adsorption performance of a novel magnetic geopolymer/Fe3O4 composite towards removal of aqueous acid green 16 dye. Journal of Environmental Chemical Engineering, 2020, 8, 103804.	3.3	67
78	Preparation of Chitosan with Different Characteristics and Its Application for Biofilms Production. Journal of Polymers and the Environment, 2015, 23, 470-477.	2.4	65
79	New insights into the adsorption of crystal violet dye on functionalized multi-walled carbon nanotubes: Experiments, statistical physics and COSMOâ€“RS models application. Journal of Molecular Liquids, 2017, 248, 890-897.	2.3	64
80	Activated carbon obtained from sapelli wood sawdust by microwave heating for o-cresol adsorption. Research on Chemical Intermediates, 2017, 43, 1063-1087.	1.3	64
81	Adsorption of phenol onto chitosan hydrogel scaffold modified with carbon nanotubes. Journal of Environmental Chemical Engineering, 2019, 7, 103460.	3.3	64
82	Improvement of activated carbon characteristics by sonication and its application for pharmaceutical contaminant adsorption. Environmental Science and Pollution Research, 2018, 25, 24713-24725.	2.7	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. Journal of Environmental Chemical Engineering, 2020, 8, 103605.	3.3	62
84	Adsorption of acid green and procion red on a magnetic geopolymer based adsorbent: Experiments, characterization and theoretical treatment. Chemical Engineering Journal, 2020, 383, 123113.	6.6	61
85	Insights of the adsorption mechanism of methylene blue on brazilian berries seeds: Experiments, phenomenological modelling and DFT calculations. Chemical Engineering Journal, 2020, 394, 125011.	6.6	60
86	Adsorption of amoxicillin and paracetamol on modified activated carbons: Equilibrium and positional entropy studies. Journal of Molecular Liquids, 2017, 234, 375-381.	2.3	59
87	Synthesis of a novel CoFe2O4/chitosan magnetic composite for fast adsorption of indigotine blue dye. Carbohydrate Polymers, 2019, 217, 6-14.	5.1	59
88	Removal of heavy metals by leaves-derived biosorbents. Environmental Chemistry Letters, 2019, 17, 755-766.	8.3	59
89	Utilization of Pacara Earpod tree (Enterolobium contortisilquum) and Ironwood (Caesalpinia) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf Pollution Research, 2020, 27, 33307-33320.	2.7	59
90	Process Parameters Optimization, Characterization, and Application of KOH-Activated Norway Spruce Bark Graphitic Biochars for Efficient Azo Dye Adsorption. Molecules, 2022, 27, 456.	1.7	59

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91	A comparative study of chemical treatment by MgCl2, ZnSO4, ZnCl2, and KOH on physicochemical properties and acetaminophen adsorption performance of biobased porous materials from tree bark residues. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 642, 128626.	2.3	59
92	Preparation of carbonaceous materials from pyrolysis of chicken bones and its application for fuchsine adsorption. Environmental Science and Pollution Research, 2019, 26, 28574-28583.	2.7	58
93	Monolayer and multilayer adsorption of pharmaceuticals on activated carbon: Application of advanced statistical physics models. Journal of Molecular Liquids, 2019, 283, 276-286.	2.3	57
94	Transforming shrub waste into a high-efficiency adsorbent: Application of Physalis peruvian chalice treated with strong acid to remove the 2,4-dichlorophenoxyacetic acid herbicide. Journal of Environmental Chemical Engineering, 2021, 9, 104574.	3.3	56
95	Nanominerals assemblages and hazardous elements assessment in phosphogypsum from an abandoned phosphate fertilizer industry. Chemosphere, 2020, 256, 127138.	4.2	56
96	Drying of chitosan in a spouted bed: The influences of temperature and equipment geometry in powder quality. LWT - Food Science and Technology, 2011, 44, 1786-1792.	2.5	55
97	Chromium (VI) biosorption by Saccharomyces cerevisiae subjected to chemical and thermal treatments. Environmental Science and Pollution Research, 2018, 25, 19179-19186.	2.7	55
98	Synthesis and characterization of biopolymers functionalized with APTES (3â€“aminopropyltriethoxysilane) for the adsorption of sunset yellow dye. Journal of Environmental Chemical Engineering, 2019, 7, 103410.	3.3	55
99	Biochars from animal wastes as alternative materials to treat colored effluents containing basic red 9. Journal of Environmental Chemical Engineering, 2019, 7, 103446.	3.3	54
100	Activated carbon from wood wastes for the removal of uranium and thorium ions through modification with mineral acid. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 607, 125516.	2.3	54
101	Development of highly porous activated carbon from Jacaranda mimosifolia seed pods for remarkable removal of aqueous-phase ketoprofen. Journal of Environmental Chemical Engineering, 2021, 9, 105676.	3.3	54
102	Mesoporous Nb₂O₅/SiO₂material obtained by solâ€“gel method and applied as adsorbent of crystal violet dye. Environmental Technology (United Kingdom), 2017, 38, 566-578.	1.2	53
103	Supercritical CO2 extraction of indium present in liquid crystal displays from discarded cell phones using organic acids. Journal of Supercritical Fluids, 2017, 120, 95-101.	1.6	53
104	Adsorption of methylene blue on comminuted raw avocado seeds: Interpretation of the effect of salts via physical monolayer model. Journal of Molecular Liquids, 2020, 305, 112815.	2.3	53
105	Forecasting the multicomponent adsorption of nimesulide and paracetamol through artificial neural network. Chemical Engineering Journal, 2021, 412, 127527.	6.6	53
106	A mass transfer study considering intraparticle diffusion and axial dispersion for fixed-bed adsorption of crystal violet on pecan pericarp (Carya illinoensis). Chemical Engineering Journal, 2020, 397, 125423.	6.6	52
107	Efficient adsorbent based on construction and demolition wastes functionalized with 3-aminopropyltriethoxysilane (APTES) for the removal ciprofloxacin from hospital synthetic effluents. Journal of Environmental Chemical Engineering, 2020, 8, 103875.	3.3	52
108	Preparation, Characterization and Dye Adsorption/Reuse of Chitosan-Vanadate Films. Journal of Polymers and the Environment, 2018, 26, 2917-2924.	2.4	51

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109	Adsorption of a non-steroidal anti-inflammatory drug onto MgAl/LDH-activated carbon composite â€“ Experimental investigation and statistical physics modeling. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 586, 124217.	2.3	51
110	Highly effective adsorption of synthetic phenol effluent by a novel activated carbon prepared from fruit wastes of the Ceiba speciosa forest species. Journal of Environmental Chemical Engineering, 2021, 9, 105927.	3.3	51
111	Equilibrium Isotherms, Thermodynamics, and Kinetic Studies for the Adsorption of Food Azo Dyes onto Chitosan Films. Chemical Engineering Communications, 2015, 202, 1316-1323.	1.5	50
112	Potential of Cedrella fissilis bark as an adsorbent for the removal of red 97 dye from aqueous effluents. Environmental Science and Pollution Research, 2019, 26, 19207-19219.	2.7	50
113	Water hyacinth (Eichhornia crassipes) roots, an amazon natural waste, as an alternative biosorbent to uptake a reactive textile dye from aqueous solutions. Ecological Engineering, 2020, 150, 105817.	1.6	50
114	Optimization and kinetic analysis of food dyes biosorption by Spirulina platensis. Colloids and Surfaces B: Biointerfaces, 2012, 91, 234-241.	2.5	49
115	Removal of hazardous pharmaceutical dyes by adsorption onto papaya seeds. Water Science and Technology, 2014, 70, 102-107.	1.2	49
116	An eco-friendly and low-cost strategy for groundwater defluorination: Adsorption of fluoride onto calcinated sludge. Journal of Environmental Chemical Engineering, 2020, 8, 104546.	3.3	49
117	Adsorption of diclofenac and nimesulide on activated carbon: Statistical physics modeling and effect of adsorbate size. Journal of Physics and Chemistry of Solids, 2017, 109, 117-123.	1.9	48
118	Biosorption of cationic dyes by ParÃ¡ chestnut husk (Bertholletia excelsa). Water Science and Technology, 2018, 77, 1612-1621.	1.2	48
119	Adsorbents forÂglyphosate removalÂin contaminated waters: a review. Environmental Chemistry Letters, 2021, 19, 1525-1543.	8.3	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. Coatings, 2021, 11, 772.	1.2	48
122	Adsorption mechanisms of single and simultaneous removal of pharmaceutical compounds onto activated carbon: Isotherm and thermodynamic modeling. Journal of Molecular Liquids, 2021, 336, 116203.	2.3	48
123	Influence of Drying Techniques on the Characteristics of Chitosan and the Quality of Biopolymer Films. Drying Technology, 2011, 29, 1784-1791.	1.7	47
124	Preparation of an alternative adsorbent from Acacia Mearnsii wastes through acetosolv method and its application for dye removal. Journal of Cleaner Production, 2018, 180, 386-394.	4.6	47
125	Treatment of effluents containing 2-chlorophenol by adsorption onto chemically and physically activated biochars. Journal of Environmental Chemical Engineering, 2020, 8, 104473.	3.3	47
126	Powdered biosorbent from the mandacaru cactus (cereus jamacaru) for discontinuous and continuous removal of Basic Fuchsin from aqueous solutions. Powder Technology, 2020, 364, 584-592.	2.1	47

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127	Preparation of activated carbon from the residues of the mushroom (Agaricus bisporus) production chain for the adsorption of the 2,4-dichlorophenoxyacetic herbicide. Journal of Environmental Chemical Engineering, 2021, 9, 106843.	3.3	47
128	Convective drying of papaya seeds (Carica papaya L.) and optimization of oil extraction. Industrial Crops and Products, 2016, 85, 221-228.	2.5	46
129	Equilibrium study of single and binary adsorption of lead and mercury on bentonite-alginate composite: Experiments and application of two theoretical approaches. Journal of Molecular Liquids, 2018, 253, 160-168.	2.3	46
130	Molecular modeling of cationic dyes adsorption on agricultural Algerian olive cake waste. Journal of Molecular Liquids, 2018, 264, 127-133.	2.3	46
131	Adsorption of phenol on microwave-assisted activated carbons: Modelling and interpretation. Journal of Molecular Liquids, 2019, 274, 309-314.	2.3	46
132	Bio-Based Active Packaging: Carrageenan Film with Olive Leaf Extract for Lamb Meat Preservation. Foods, 2020, 9, 1759.	1.9	46
133	Single and binary adsorption of cobalt and methylene blue on modified chitin: Application of the Hill and exclusive extended Hill models. Journal of Molecular Liquids, 2017, 233, 543-550.	2.3	44
134	Removal of Procion Red dye from colored effluents using H2SO4-/HNO3-treated avocado shells (Persea americana) as adsorbent. Environmental Science and Pollution Research, 2018, 25, 6429-6442.	2.7	44
135	Ternary adsorption of cobalt, nickel and methylene blue on a modified chitin: Phenomenological modeling and physical interpretation of the adsorption mechanism. International Journal of Biological Macromolecules, 2020, 158, 595-604.	3.6	44
136	Nanoparticles in fossil and mineral fuel sectors and their impact on environment and human health: A review and perspective. Gondwana Research, 2021, 92, 184-201.	3.0	44
137	Potential of Araucaria angustifolia bark as adsorbent to remove Gentian Violet dye from aqueous effluents. Water Science and Technology, 2018, 78, 1693-1703.	1.2	43
138	Adsorption of indium (III) from aqueous solution on raw, ultrasound- and supercritical-modified chitin: Experimental and theoretical analysis. Chemical Engineering Journal, 2019, 373, 1247-1253.	6.6	43
139	Use of chitosan solutions for the microbiological shelf life extension of papaya fruits during storage at room temperature. LWT - Food Science and Technology, 2015, 64, 126-130.	2.5	42
140	Preparation of CTAB-functionalized aqai stalk and its efficient application as adsorbent for the removal of Direct Blue 15 and Direct Red 23 dyes from aqueous media. Chemical Engineering Communications, 2018, 205, 1520-1536.	1.5	42
141	Green synthesis of carbon nanotubes impregnated with metallic nanoparticles: Characterization and application in glyphosate adsorption. Chemosphere, 2021, 283, 131193.	4.2	42
142	Application of ultrasound modified corn straw as adsorbent for malachite green removal from synthetic and real effluents. Environmental Science and Pollution Research, 2017, 24, 21484-21495.	2.7	41
143	Conversion of Eragrostis plana Nees leaves to activated carbon by microwave-assisted pyrolysis for the removal of organic emerging contaminants from aqueous solutions. Environmental Science and Pollution Research, 2018, 25, 23315-23327.	2.7	41
144	Chitosan hydrogel scaffold modified with carbon nanotubes and its application for food dyes removal in single and binary aqueous systems. International Journal of Biological Macromolecules, 2020, 142, 85-93.	3.6	41

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145	Alternative treatments to improve the potential of rice husk as adsorbent for methylene blue. Water Science and Technology, 2017, 75, 296-305.	1.2	40
146	Chitin derived biochar as an alternative adsorbent to treat colored effluents containing methyl violet dye. Advanced Powder Technology, 2019, 30, 1494-1503.	2.0	40
147	Sisal fiber as an alternative and cost-effective adsorbent for the removal of methylene blue and reactive black 5 dyes from aqueous solutions. Chemical Engineering Communications, 2020, 207, 523-536.	1.5	40
148	Make it clean, make it safe: A review on virus elimination via adsorption. Chemical Engineering Journal, 2021, 412, 128682.	6.6	40
149	Adsorption of ketoprofen and 2- nitrophenol on activated carbon prepared from winery wastes: A combined experimental and theoretical study. Journal of Molecular Liquids, 2021, 333, 115906.	2.3	40
150	Powdered biosorbent from pecan pericarp (Carya illinoensis) as an efficient material to uptake methyl violet 2B from effluents in batch and column operations. Advanced Powder Technology, 2020, 31, 2843-2852.	2.0	40
151	Adsorption rate of Reactive Black 5 on chitosan based materials: geometry and swelling effects. Adsorption, 2016, 22, 973-983.	1.4	39
152	Water treatment plant sludge as iron source to catalyze a heterogeneous photo-Fenton reaction. Environmental Technology and Innovation, 2020, 17, 100544.	3.0	38
153	Treatment of water containing methylene by biosorption using Brazilian berry seeds (Eugenia) Tj ETQq1 1 0.784314 rgBT /Overlock 1	2.7	38
154	High removal of emerging contaminants from wastewater by activated carbons derived from the shell of cashew of Para. Carbon Letters, 2021, 31, 13-28.	3.3	38
155	Carbon nanotubes impregnated with metallic nanoparticles and their application as an adsorbent for the glyphosate removal in an aqueous matrix. Journal of Environmental Chemical Engineering, 2021, 9, 105178.	3.3	38
156	Preparation of bionanoparticles derived from Spirulina platensis and its application for Cr (VI) removal from aqueous solutions. Journal of Industrial and Engineering Chemistry, 2012, 18, 1925-1930.	2.9	37
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