

Guilherme Luiz Dotto

List of Publications by Year in descending order

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Version: 2024-02-01

414
papers

16,727
citations

16791

66
h-index

39744

98
g-index

417
all docs

417
docs citations

417
times ranked

11489
citing authors

#	ARTICLE	IF	CITATIONS
1	Pyrolysis of grape bagasse to produce char for Cu(II) adsorption: a circular economy perspective. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 3947-3964.	2.9	4
2	Mass transfer models for the adsorption of 2,4-dichlorophenoxyacetic acid (2,4-D) and atrazine herbicides from agricultural wastewaters. <i>Chemical Engineering Communications</i> , 2023, 210, 247-258.	1.5	5
3	Application of fly ash modified by alkaline fusion as an effective adsorbent to remove methyl violet 10B in water. <i>Chemical Engineering Communications</i> , 2022, 209, 184-195.	1.5	4
4	Artisanal ceramic factories using wood combustion: A nanoparticles and human health study. <i>Geoscience Frontiers</i> , 2022, 13, 101151.	4.3	5
5	An overview of geological originated materials as a trend for adsorption in wastewater treatment. <i>Geoscience Frontiers</i> , 2022, 13, 101150.	4.3	21
6	Deposition of nanoparticles on school eyeglasses in urban and rural areas: A methodology for a more real assessment of the possible impacts. <i>Geoscience Frontiers</i> , 2022, 13, 101135.	4.3	3
7	Effective adsorptive removal of textile pollutant using coal bottom ash with high surface area obtained by alkaline fusion route. <i>Environmental Technology (United Kingdom)</i> , 2022, 43, 2418-2429.	1.2	4
8	A review on the environmental impact of phosphogypsum and potential health impacts through the release of nanoparticles. <i>Chemosphere</i> , 2022, 286, 131513.	4.2	70
9	Development of a pre-treatment process of polymeric wastes (HDPE, LDPE/LLDPE, PP) for application in the qualification of selectors of recyclable materials. <i>Environment, Development and Sustainability</i> , 2022, 24, 6349-6371.	2.7	7
10	Synthesis of geopolymers from fly and bottom ashes of a thermoelectrical power plant for metallic ions adsorption. <i>Environmental Science and Pollution Research</i> , 2022, 29, 2699-2706.	2.7	6
11	Optimization of ketoprofen adsorption from aqueous solutions and simulated effluents using H ₂ SO ₄ activated <i>Campomanesia guazumifolia</i> bark. <i>Environmental Science and Pollution Research</i> , 2022, 29, 2122-2135.	2.7	6
12	Effective adsorptive removal of atrazine herbicide in river waters by a novel hydrochar derived from <i>Prunus serrulata</i> bark. <i>Environmental Science and Pollution Research</i> , 2022, 29, 3672-3685.	2.7	22
13	Woody residues of the grape production chain as an alternative precursor of high porous activated carbon with remarkable performance for naproxen uptake from water. <i>Environmental Science and Pollution Research</i> , 2022, 29, 16988-17000.	2.7	4
14	Freezing effect on the oleuropein content of olive leaves extracts obtained from microwave-assisted extraction. <i>International Journal of Environmental Science and Technology</i> , 2022, 19, 10375-10380.	1.8	5
15	Synthesis of glutaraldehyde-modified silica/chitosan composites for the removal of water-soluble diclofenac sodium. <i>Carbohydrate Polymers</i> , 2022, 277, 118868.	5.1	26
16	Biochar derived from yerba-mate (<i>Ilex paraguariensis</i>) as an alternative TiO ₂ support for enhancement of photocatalytic activity toward Rhodamine-B degradation in water. <i>Chemical Engineering Communications</i> , 2022, 209, 1334-1347.	1.5	7
17	Applicability of amethyst mining rejects as a novel photo-fenton catalyst for the abatement of an emerging pollutant in water. <i>Applied Geochemistry</i> , 2022, 136, 105136.	1.4	8
18	Effects of atmospheric pollutants on human health and deterioration of medieval historical architecture (North Africa, Tunisia). <i>Urban Climate</i> , 2022, 41, 101046.	2.4	14

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19	A study of single and quaternary adsorption of Cu ²⁺ , Co ²⁺ , Ni ²⁺ and Ag ⁺ on sludge modified by alkaline fusion. <i>Chemical Engineering Journal</i> , 2022, 433, 133674.	6.6	7
20	Photo-assisted degradation of organic pollutant by CuFeS ₂ powder in RGB-LED reactors: A comprehensive study of band gap values and the relation between wavelength and electron-hole recombination. <i>Advanced Powder Technology</i> , 2022, 33, 103368.	2.0	13
21	Adsorption of atrazine and 2,4-D pesticides on alternative biochars from cedar bark sawdust (Cedrella) Tj ETQq1 1 0.784314 11 BT /Ov	2.7	11
22	Development of activated carbon from <i>Schizolobium parahyba</i> (guapuruvu) residues employed for the removal of ketoprofen. <i>Environmental Science and Pollution Research</i> , 2022, 29, 21860-21875.	2.7	3
23	Volcanic rock powder residues as precursors for the synthesis of adsorbents and potential application in the removal of dyes and metals from water. <i>Environmental Science and Pollution Research</i> , 2022, 29, 25685-25693.	2.7	5
24	Adsorption of atrazine herbicide from water by diospyros kaki fruit waste activated carbon. <i>Journal of Molecular Liquids</i> , 2022, 347, 117990.	2.3	27
25	Adsorption performance of Food Red 17 dye using an eco-friendly material based on <i>Luffa cylindrica</i> and chitosan. <i>Journal of Molecular Liquids</i> , 2022, 349, 118144.	2.3	9
26	Residual peel of pitaya fruit (<i>Hylocereus undatus</i>) as a precursor to obtaining an efficient carbon-based adsorbent for the removal of metanil yellow dye from water. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107006.	3.3	19
27	New insights into glyphosate adsorption on modified carbon nanotubes via green synthesis: Statistical physical modeling and steric and energetic interpretations. <i>Chemical Engineering Journal</i> , 2022, 431, 134095.	6.6	16
28	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.	1.7	59
29	Effective removal of non-steroidal anti-inflammatory drug from wastewater by adsorption process using acid-treated <i>Fagopyrum esculentum</i> husk. <i>Environmental Science and Pollution Research</i> , 2022, 29, 31085-31098.	2.7	4
30	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.	2.7	86
31	Application of biowaste generated by the production chain of pitaya fruit (<i>Hylocereus undatus</i>) as an efficient adsorbent for removal of naproxen in water. <i>Environmental Science and Pollution Research</i> , 2022, 29, 39754-39767.	2.7	5
32	Attraction to adsorption: Preparation methods and performance of novel magnetic biochars for water and wastewater treatment. , 2022, , 551-568.		1
33	Application of araÃ§Ã¡ fruit husks (<i>Psidium cattleianum</i>) in the preparation of activated carbon with FeCl ₃ for atrazine herbicide adsorption. <i>Chemical Engineering Research and Design</i> , 2022, 180, 67-78.	2.7	24
34	Reviewing variables and their implications affecting adsorption of Cr(VI) onto activated carbon: an in-depth statistical case study. <i>Environmental Science and Pollution Research</i> , 2022, 29, 49832-49849.	2.7	1
35	An Analysis of Nanoparticles Derived from Coal Fly Ash Incorporated into Concrete. <i>Sustainability</i> , 2022, 14, 3943.	1.6	4
36	Understanding the Cu ²⁺ adsorption mechanism on activated carbon using advanced statistical physics modelling. <i>Environmental Science and Pollution Research</i> , 2022, , 1.	2.7	1

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37	Remarkable sunlight-driven photocatalytic performance of Ag-doped ZnO nanoparticles prepared by green synthesis for degradation of emerging pollutants in water. <i>Environmental Science and Pollution Research</i> , 2022, 29, 57330-57344.	2.7	9
38	Geochemical and Morphological Evaluations of Organic and Mineral Aerosols in Coal Mining Areas: A Case Study of Santa Catarina, Brazil. <i>Sustainability</i> , 2022, 14, 3847.	1.6	3
39	Production of sugar-derived carbons by different routes and their applications for dye removal in water. <i>Chemical Engineering Research and Design</i> , 2022, 182, 237-245.	2.7	7
40	A DFT theoretical and experimental study about tetracycline adsorption onto magnetic graphene oxide. <i>Journal of Molecular Liquids</i> , 2022, 353, 118837.	2.3	34
41	Investigation of biochar from <i>Cedrella fissilis</i> applied to the adsorption of atrazine herbicide from an aqueous medium. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107408.	3.3	36
42	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.	2.3	59
43	Environmental Impacts of Coal Nanoparticles from Rehabilitated Mine Areas in Colombia. <i>Sustainability</i> , 2022, 14, 4544.	1.6	2
44	Leaching of rare earth elements from phosphogypsum. <i>Chemosphere</i> , 2022, 301, 134661.	4.2	35
45	Modeling of anthocyanins adsorption onto chitosan films: An approach using the pore volume and surface diffusion model. <i>Separation and Purification Technology</i> , 2022, 292, 121062.	3.9	2
46	Adsorption of basic fuchsin using soybean straw hydrolyzed by subcritical water. <i>Environmental Science and Pollution Research</i> , 2022, 29, 68547-68554.	2.7	7
47	Polishing of painting process effluents through adsorption with biochar from winemaking residues. <i>Environmental Science and Pollution Research</i> , 2022, 29, 66348-66358.	2.7	2
48	Pore volume and surface diffusion model (PVSDM) applied for single and binary dye adsorption systems. <i>Chemical Engineering Research and Design</i> , 2022, 182, 645-658.	2.7	5
49	Adsorption kinetics and equilibrium of Ni ²⁺ , Cu ²⁺ , Co ²⁺ , and Ag ⁺ on geopolymers derived from ashes: application to treat effluents from the E-Coat printing process. <i>Environmental Science and Pollution Research</i> , 2022, 29, 70158-70166.	2.7	1
50	Basic fundamentals of adsorption modeling for removal of pesticides from water and wastewater. , 2022, , 159-188.		1
51	Production of carbon-based adsorbents from lignocellulosic biomass. , 2022, , 169-192.		8
52	Lead ferrite-activated carbon magnetic composite for efficient removal of phenol from aqueous solutions: synthesis, characterization, and adsorption studies. <i>Scientific Reports</i> , 2022, 12, .	1.6	26
53	Conversion of <i>Erythrina speciosa</i> pods to porous adsorbent for Ibuprofen removal. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 108070.	3.3	13
54	Iron-enriched coal and volcanic rock waste powder composite with enhanced microwave absorption capacity for the degradation of 2,4-D and atrazine pesticides in single and binary systems. <i>Advanced Powder Technology</i> , 2022, 33, 103671.	2.0	4

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55	An advanced combination of density functional theory simulations and statistical physics modeling in the unveiling and prediction of adsorption mechanisms of 2,4-D pesticide to activated carbon. <i>Journal of Molecular Liquids</i> , 2022, 361, 119639.	2.3	21
56	Phosphate removal from industrial wastewaters using layered double hydroxides. <i>Environmental Technology (United Kingdom)</i> , 2021, 42, 1-11.	1.2	17
57	Modeling of fixed-bed dye adsorption using response surface methodology and artificial neural network. <i>Chemical Engineering Communications</i> , 2021, 208, 1081-1092.	1.5	14
58	High removal of emerging contaminants from wastewater by activated carbons derived from the shell of cashew of Para. <i>Carbon Letters</i> , 2021, 31, 13-28.	3.3	38
59	A tool for realistic study of nanoparticulate coal rejects. <i>Journal of Cleaner Production</i> , 2021, 278, 121916.	4.6	5
60	Portable dehumidifiers as an original matrix for the study of inhalable nanoparticles in school. <i>Chemosphere</i> , 2021, 262, 127295.	4.2	2
61	Titanium nanoparticles in sedimented dust aggregates from urban children's parks around coal ashes wastes. <i>Fuel</i> , 2021, 285, 119162.	3.4	15
62	Soil contamination in Colombian playgrounds: effects of vehicles, construction, and traffic. <i>Environmental Science and Pollution Research</i> , 2021, 28, 166-176.	2.7	14
63	Application of <i>Cordia trichotoma</i> sawdust as an effective biosorbent for removal of crystal violet from aqueous solution in batch system and fixed-bed column. <i>Environmental Science and Pollution Research</i> , 2021, 28, 6771-6783.	2.7	26
64	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.	4.2	168
65	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.	3.9	83
66	Hazardous elements in the soil of urban cemeteries; constructive solutions aimed at sustainability. <i>Chemosphere</i> , 2021, 262, 128248.	4.2	26
67	Transforming pods of the species <i>Capparis flexuosa</i> into effective biosorbent to remove blue methylene and bright blue in discontinuous and continuous systems. <i>Environmental Science and Pollution Research</i> , 2021, 28, 8036-8049.	2.7	5
68	Successful adsorption of bright blue and methylene blue on modified pods of <i>Caesalpinia echinata</i> in discontinuous system. <i>Environmental Science and Pollution Research</i> , 2021, 28, 8407-8420.	2.7	12
69	Interpretation of diclofenac adsorption onto ZnFe ₂ O ₄ /chitosan magnetic composite via BET modified model by using statistical physics formalism. <i>Journal of Molecular Liquids</i> , 2021, 327, 114858.	2.3	6
70	Current scenario and challenges in using plastic wastes as oil absorbents. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104822.	3.3	5
71	Trapping of Ag ⁺ , Cu ²⁺ , and Co ²⁺ by faujasite zeolite Y: New interpretations of the adsorption mechanism via DFT and statistical modeling investigation. <i>Chemical Engineering Journal</i> , 2021, 420, 127712.	6.6	32
72	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.	3.3	79

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73	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.	6.6	175
74	Nanomineralogy of mortars and ceramics from the Forum of Caesar and Nerva (Rome, Italy): The protagonist of black crusts produced on historic buildings. <i>Journal of Cleaner Production</i> , 2021, 278, 123982.	4.6	27
75	Analysis of adsorption isotherms of Ag ⁺ , Co ²⁺ , and Cu ²⁺ onto zeolites using computational intelligence models. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104960.	3.3	25
76	Adsorbents for glyphosate removal in contaminated waters: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 1525-1543.	8.3	48
77	Forecasting the multicomponent adsorption of nimesulide and paracetamol through artificial neural network. <i>Chemical Engineering Journal</i> , 2021, 412, 127527.	6.6	53
78	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.	3.3	56
79	Macro-fungal (<i>Agaricus bisporus</i>) wastes as an adsorbent in the removal of the acid red 97 and crystal violet dyes from ideal colored effluents. <i>Environmental Science and Pollution Research</i> , 2021, 28, 405-415.	2.7	24
80	Application of seed residues from <i>Anadenanthera macrocarpa</i> and <i>Cedrela fissilis</i> as alternative adsorbents for remarkable removal of methylene blue dye in aqueous solutions. <i>Environmental Science and Pollution Research</i> , 2021, 28, 2342-2354.	2.7	23
81	Modified wheat straw-derived graphene for the removal of Eriochrome Black T: characterization, isotherm, and kinetic studies. <i>Environmental Science and Pollution Research</i> , 2021, 28, 3556-3565.	2.7	30
82	Adsorption: Fundamental aspects and applications of adsorption for effluent treatment. , 2021, , 41-88.		48
83	Chitosan-Based Magnetic Adsorbents. <i>Environmental Chemistry for A Sustainable World</i> , 2021, , 435-465.	0.3	0
84	Environmental aspects of the depreciation of the culturally significant Wall of Cartagena de Indias in Colombia. <i>Chemosphere</i> , 2021, 265, 129119.	4.2	10
85	Chitosan-Coated Glass Beads in a Fluidized Bed for Use in Fixed-Bed Dye Adsorption. <i>Chemical Engineering and Technology</i> , 2021, 44, 631-638.	0.9	2
86	Sustainable Release of Macronutrients to Black Oat and Maize Crops from Organically-Altered Dacite Rock Powder. <i>Natural Resources Research</i> , 2021, 30, 1941-1953.	2.2	7
87	Adsorption investigation of 2,4-D herbicide on acid-treated peanut (<i>Arachis hypogaea</i>) skins. <i>Environmental Science and Pollution Research</i> , 2021, 28, 36453-36463.	2.7	14
88	Hydrogen production automatic control in continuous microbial electrolysis cells reactors used in wastewater treatment. <i>Journal of Environmental Management</i> , 2021, 281, 111869.	3.8	11
89	Carbon nanotubes impregnated with metallic nanoparticles and their application as an adsorbent for the glyphosate removal in an aqueous matrix. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105178.	3.3	38
90	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.	3.0	44

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91	Optimization of green extraction for the recovery of bioactive compounds from Brazilian olive crops and evaluation of its potential as a natural preservative. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105130.	3.3	14
92	Theoretical study and analysis of o-nitrophenol adsorption using layered double hydroxides containing Ca-Al, Ni-Al and Zn-Al. <i>Environmental Science and Pollution Research</i> , 2021, 28, 44547-44556.	2.7	7
93	Novel biochar and hydrochar for the adsorption of 2-nitrophenol from aqueous solutions: An approach using the PVSDM model. <i>Chemosphere</i> , 2021, 269, 128748.	4.2	26
94	Three-dimensional mass transport modeling of pharmaceuticals adsorption inside ZnAl/biochar composite. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 614, 126170.	2.3	29
95	Conversion of the forest species <i>Inga marginata</i> and <i>Tipuana tipu</i> wastes into biosorbents: Dye biosorption study from isotherm to mass transfer. <i>Environmental Technology and Innovation</i> , 2021, 22, 101521.	3.0	10
96	Chitin-psyllium based aerogel for the efficient removal of crystal violet from aqueous solutions. <i>International Journal of Biological Macromolecules</i> , 2021, 179, 366-376.	3.6	28
97	Make it clean, make it safe: A review on virus elimination via adsorption. <i>Chemical Engineering Journal</i> , 2021, 412, 128682.	6.6	40
98	Thermally treated sludge obtained from a coagulation-flocculation water treatment process as a low-cost and eco-friendly adsorbent for water defluorination. <i>Brazilian Journal of Chemical Engineering</i> , 2021, 38, 451-460.	0.7	3
99	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.	1.2	48
100	An overview of forest residues as promising low-cost adsorbents. <i>Gondwana Research</i> , 2021, , .	3.0	14
101	Eco-friendly extraction for the recovery of bioactive compounds from Brazilian olive leaves. <i>Sustainable Materials and Technologies</i> , 2021, 28, e00276.	1.7	15
102	Nanoparticles and interfaces with toxic elements in fluvial suspended sediment. <i>Marine Pollution Bulletin</i> , 2021, 168, 112405.	2.3	6
103	Adsorption of ketoprofen and 2-nitrophenol on activated carbon prepared from winery wastes: A combined experimental and theoretical study. <i>Journal of Molecular Liquids</i> , 2021, 333, 115906.	2.3	40
104	Nanoparticles as vectors of other contaminants in estuarine suspended sediments: Natural and real conditions. <i>Marine Pollution Bulletin</i> , 2021, 168, 112429.	2.3	15
105	Composite carbon materials from winery composted waste for the treatment of effluents contaminated with ketoprofen and 2-nitrophenol. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105421.	3.3	21
106	From cellulose to graphene-like porous carbon nanosheets. <i>Microporous and Mesoporous Materials</i> , 2021, 323, 111217.	2.2	18
107	Dispersion of hazardous nanoparticles on beaches around phosphogypsum factories. <i>Marine Pollution Bulletin</i> , 2021, 169, 112493.	2.3	8
108	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.	2.3	48

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109	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.	3.3	73
110	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.	2.7	81
111	Oil field-produced water treatment: characterization, photochemical systems, and combined processes. <i>Environmental Science and Pollution Research</i> , 2021, 28, 52744-52763.	2.7	10
112	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.	3.3	54
113	Effective treatment of hospital wastewater with high-concentration diclofenac and ibuprofen using a promising technology based on degradation reaction catalyzed by FeO under microwave irradiation. <i>Science of the Total Environment</i> , 2021, 783, 146991.	3.9	33
114	Implementation of a multilayer statistical physics model to interpret the adsorption of food dyes on a chitosan film. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105516.	3.3	34
115	A novel Fe-Al-La trioxide composite: Synthesis, characterization, and application for fluoride ions removal from the water supply. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106350.	3.3	12
116	Application of Thermally Treated Water Treatment Sludge as a Remarkable Adsorbent Towards Emerging Pollutant Removal from Aqueous Solution. <i>Water, Air, and Soil Pollution</i> , 2021, 232, 1.	1.1	1
117	The impact of air pollutants on the degradation of two historic buildings in Bordeaux, France. <i>Urban Climate</i> , 2021, 39, 100927.	2.4	7
118	Optimization of flamboyant-based catalysts functionalized with calcium for fatty acid methyl esters production via transesterification. <i>Fuel</i> , 2021, 302, 121125.	3.4	4
119	A new method of developing ANN-isotherm hybrid models for the determination of thermodynamic parameters in the adsorption of ions Ag ⁺ , Co ²⁺ and Cu ²⁺ onto zeolites ZSM-5, HY, and 4A. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106126.	3.3	14
120	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.	2.3	73
121	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.	3.3	51
122	Green synthesis of carbon nanotubes impregnated with metallic nanoparticles: Characterization and application in glyphosate adsorption. <i>Chemosphere</i> , 2021, 283, 131193.	4.2	42
123	Rare earth elements study of Cretaceous coals from Benue Trough basin, Nigeria: Modes of occurrence for greater sustainability of mining. <i>Fuel</i> , 2021, 304, 121468.	3.4	8
124	Adsorptive recovery of butanol, propanol, and ethanol using activated carbon based on residual sludge industrial (ACRS). <i>Journal of Molecular Liquids</i> , 2021, 341, 117452.	2.3	5
125	A statistical physics analysis of the adsorption of Fe ³⁺ , Al ³⁺ and Cu ²⁺ heavy metals on chitosan films via homogeneous and heterogeneous monolayer models. <i>Journal of Molecular Liquids</i> , 2021, 343, 117617.	2.3	12
126	Theoretical analysis of the removal mechanism of Crystal Violet and Acid Red 97 dyes on <i>Agaricus bisporus</i> residue. <i>Journal of Molecular Liquids</i> , 2021, 343, 117621.	2.3	2

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127	Adsorption and mass transfer studies of methylene blue onto comminuted seedpods from <i>Luehea divaricata</i> and <i>Inga laurina</i> . <i>Environmental Science and Pollution Research</i> , 2021, 28, 20854-20868.	2.7	8
128	Removal of rhodamine B cationic dye using activated carbon. <i>International Journal of Environment and Waste Management</i> , 2021, 28, 263.	0.2	0
129	Development of a biosponge based on <i>Luffa cylindrica</i> and crosslinked chitosan for Allura red AC adsorption. <i>International Journal of Biological Macromolecules</i> , 2021, 192, 1117-1122.	3.6	8
130	Study of mayenite produced from waste eggshell as support for Ni ²⁺ /Co catalysts for biomass tar cracking. <i>Chemical Engineering Research and Design</i> , 2021, 176, 218-228.	2.7	3
131	One step acid modification of the residual bark from <i>Campomanesia guazumifolia</i> using H ₂ SO ₄ and application in the removal of 2,4-dichlorophenoxyacetic from aqueous solution. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2021, 56, 995-1006.	0.7	2
132	Transforming agricultural waste into adsorbent: application of <i>Fagopyrum esculentum</i> wheat husks treated with H ₂ SO ₄ to adsorption of the 2,4-D herbicide. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106872.	3.3	22
133	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.	3.3	47
134	Efficient removal of naproxen from aqueous solution by highly porous activated carbon produced from Grapetree (<i>Plinia cauliflora</i>) fruit peels. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106820.	3.3	24
135	Indoor Nanoparticle Characterization in Construction Waste Recycling Companies over Time. <i>Sustainability</i> , 2021, 13, 14071.	1.6	2
136	Sisal fiber as an alternative and cost-effective adsorbent for the removal of methylene blue and reactive black 5 dyes from aqueous solutions. <i>Chemical Engineering Communications</i> , 2020, 207, 523-536.	1.5	40
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138	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.	6.6	123
139	Chitosan hydrogel scaffold modified with carbon nanotubes and its application for food dyes removal in single and binary aqueous systems. <i>International Journal of Biological Macromolecules</i> , 2020, 142, 85-93.	3.6	41
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165	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.	2.7	59
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170	Diffusion mechanisms and effect of adsorbent geometry on heavy metal adsorption. <i>Chemical Engineering Research and Design</i> , 2020, 157, 182-194.	2.7	24
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226	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.	2.3	57
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238	Analysis of intraparticle diffusion on adsorption of crystal violet on bentonite. <i>Chemical Engineering Communications</i> , 2019, 206, 1463-1473.	1.5	23
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248	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.	3.9	109
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255	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.	3.6	68
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260	Three-dimensional mass transfer modeling of ibuprofen adsorption on activated carbon prepared by sonication. <i>Chemical Engineering Journal</i> , 2018, 341, 65-74.	6.6	72
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264	Preparation, Characterization and Dye Adsorption/Reuse of Chitosan-Vanadate Films. <i>Journal of Polymers and the Environment</i> , 2018, 26, 2917-2924.	2.4	51
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266	Microwave synthesis of silica nanoparticles and its application for methylene blue adsorption. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 649-659.	3.3	137
267	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.	2.3	46
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269	Azo dyes adsorption in fixed bed column packed with different deacetylation degrees chitosan coated glass beads. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 3233-3241.	3.3	28
270	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.	1.2	85

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