

Raúl Ocampo-Páez

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

3,587
citations

186209

28
h-index

155592

55
g-index

61
all docs

61
docs citations

61
times ranked

5000
citing authors

#	ARTICLE	IF	CITATIONS
1	Elucidation of adsorption mechanisms and mass transfer controlling resistances during single and binary adsorption of caffeic and chlorogenic acids. <i>Environmental Science and Pollution Research</i> , 2022, 29, 26297-26311.	2.7	5
2	Tramadol extended-release porous silicon microcarriers: A kinetic, physicochemical and biological evaluation. <i>Journal of Drug Delivery Science and Technology</i> , 2022, 69, 103132.	1.4	0
3	Design and application of molecularly imprinted polymers for adsorption and environmental assessment of anti-inflammatory drugs in wastewater samples. <i>Environmental Science and Pollution Research</i> , 2022, 29, 45885-45902.	2.7	20
4	Mathematical Description of the Initial Stages of a Composting Process in a Batch Bioreactor. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 5388-5400.	1.8	0
5	Characterization and transformation of nanche stone (<i>Byrsonima crassifolia</i>) in an activated hydrochar with high adsorption capacity towards metformin in aqueous solution. <i>Chemical Engineering Research and Design</i> , 2022, 183, 580-594.	2.7	9
6	Mechanism adsorption analysis during the removal of Cd ²⁺ and Cu ²⁺ onto cedar sawdust via experiment coupled with theoretical calculation: Mono- and multicomponent systems. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2022, 18, 100715.	1.7	2
7	Influence of calcium species on SO ₂ adsorption capacity of a novel carbonaceous materials and their ANN modeling. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104810.	3.3	8
8	Adsorption of sulfamethoxazole, sulfadiazine and sulfametazine in single and ternary systems on activated carbon. Experimental and DFT computations. <i>Journal of Molecular Liquids</i> , 2021, 324, 114740.	2.3	29
9	Hydrodynamic effects on the overall adsorption rate of phenol on activated carbon cloth through the advection-diffusion model application. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 93, 267-278.	2.9	7
10	Monolithic carbon xerogels-metal composites for crude oil removal from oil in-saltwater emulsions and subsequent regeneration through oxidation process: Composites synthesis, adsorption studies, and oil decomposition experiments. <i>Microporous and Mesoporous Materials</i> , 2021, 319, 111039.	2.2	11
11	Insights into Equilibrium and Adsorption Rate of Phenol on Activated Carbon Pellets Derived from Cigarette Butts. <i>Processes</i> , 2021, 9, 934.	1.3	9
12	Catalytic Conversion of n-C7 Asphaltenes and Resins II into Hydrogen Using CeO ₂ -Based Nanocatalysts. <i>Nanomaterials</i> , 2021, 11, 1301.	1.9	13
13	Ibuprofen degradation and energy generation in a microbial fuel cell using a bioanode fabricated from devil fish bone char. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2021, 56, 874-885.	0.9	8
14	Diatomite cross-linked β -Cyclodextrin polymers: A novel vision of diatomite adsorbent for the removal of bisphenol A. <i>Environmental Technology and Innovation</i> , 2021, 23, 101602.	3.0	13
15	Understanding mechanisms in the adsorption of lead and copper ions on chili seed waste in single and multicomponent systems: a combined experimental and computational study. <i>Environmental Science and Pollution Research</i> , 2021, 28, 23204-23219.	2.7	10
16	Biodegradation of carbamazepine and production of bioenergy using a microbial fuel cell with bioelectrodes fabricated from devil fish bone chars. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106692.	3.3	9
17	Use of bone char prepared from an invasive species, pleco fish (<i>Pterygoplichthys</i> spp.), to remove fluoride and Cadmium(II) in water. <i>Journal of Environmental Management</i> , 2020, 256, 109956.	3.8	49
18	Synthesis and characterization of carbon xerogel/graphene hybrids as adsorbents for metronidazole pharmaceutical removal: Effect of operating parameters. <i>Separation and Purification Technology</i> , 2020, 237, 116341.	3.9	29

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19	Customizable Heterogeneous Catalysts: Nonchanneled Advanced Monolithic Supports Manufactured by 3D-Printing for Improved Active Phase Coating Performance. ACS Applied Materials & Interfaces, 2020, 12, 54573-54584.	4.0	31
20	Removal of sulfamethoxazole, sulfadiazine, and sulfamethazine by UV radiation and HO• and SO4•- radicals using a response surface model and DFT calculations. Environmental Science and Pollution Research, 2020, 27, 41609-41622.	2.7	11
21	Iron precursor salt effect on the generation of OH radicals and sulfamethoxazole degradation through a heterogeneous Fenton process using Carbon-Fe catalysts. Journal of Water Process Engineering, 2020, 36, 101273.	2.6	12
22	Synthesis and characterization of hydrochar from industrial Capsicum annum seeds and its application for the adsorptive removal of methylene blue from water. Environmental Research, 2020, 184, 109334.	3.7	35
23	Experimental and computational data set on adsorption of Cr (VI) from water using an activated carbon. Data in Brief, 2020, 29, 105292.	0.5	0
24	Removal of Cr (VI) from an aqueous solution using an activated carbon obtained from teakwood sawdust: Kinetics, equilibrium, and density functional theory calculations. Journal of Environmental Chemical Engineering, 2020, 8, 103702.	3.3	51
25	Simultaneous removal of metronidazole and Pb(II) from aqueous solution onto bifunctional activated carbons. Environmental Science and Pollution Research, 2019, 26, 25916-25931.	2.7	6
26	Porous silicon microcarriers for extended release of metformin: Design, biological evaluation and 3D kinetics modeling. Chemical Engineering Journal, 2019, 365, 415-428.	6.6	9
27	Removal of bisphenols A and S by adsorption on activated carbon clothes enhanced by the presence of bacteria. Science of the Total Environment, 2019, 669, 767-776.	3.9	48
28	Role of the radical promoter systems on the degradation of an antiepileptic drug using HO and SO4-species. Journal of Water Process Engineering, 2019, 27, 162-170.	2.6	9
29	Tailoring the textural properties of an activated carbon for enhancing its adsorption capacity towards diclofenac from aqueous solution. Environmental Science and Pollution Research, 2019, 26, 6141-6152.	2.7	28
30	Synthesis of biochar from chili seeds and its application to remove ibuprofen from water. Equilibrium and 3D modeling. Science of the Total Environment, 2019, 655, 1397-1408.	3.9	56
31	Gelatin-based porous silicon hydrogel composites for the controlled release of tramadol. European Polymer Journal, 2018, 108, 485-497.	2.6	24
32	3D modeling of the overall adsorption rate of metronidazole on granular activated carbon at low and high concentrations in aqueous solution. Chemical Engineering Journal, 2018, 349, 82-91.	6.6	33
33	Walnut shell treated with citric acid and its application as biosorbent in the removal of Zn(II). Journal of Water Process Engineering, 2018, 25, 45-53.	2.6	50
34	Single and competitive adsorption of Cd(II) and Pb(II) ions from aqueous solutions onto industrial chili seeds (Capsicum annum) waste. Sustainable Environment Research, 2017, 27, 61-69.	2.1	50
35	3D modeling of overall adsorption rate of acetaminophen on activated carbon pellets. Chemical Engineering Journal, 2017, 321, 510-520.	6.6	44
36	Biosorption mechanism of Methylene Blue from aqueous solution onto White Pine (Pinus Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td (32-40.	2.1	155

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37	Removal of Antibiotics from Water by Adsorption/Biosorption on Adsorbents from Different Raw Materials. , 2017, , 139-204.		3
38	Removal of fluoride from aqueous solution using acid and thermally treated bone char. Adsorption, 2016, 22, 951-961.	1.4	39
39	Adsorption rate of Reactive Black 5 on chitosan based materials: geometry and swelling effects. Adsorption, 2016, 22, 973-983.	1.4	39
40	Removal of compounds used as plasticizers and herbicides from water by means of gamma irradiation. Science of the Total Environment, 2016, 569-570, 518-526.	3.9	22
41	Removal of ronidazole and sulfamethoxazole from water solutions by adsorption on granular activated carbon: equilibrium and intraparticle diffusion mechanisms. Adsorption, 2016, 22, 89-103.	1.4	50
42	Effect of radical peroxide promoters on the photodegradation of cytarabine antineoplastic in water. Chemical Engineering Journal, 2016, 284, 995-1002.	6.6	16
43	Modeling adsorption rate of tetracyclines on activated carbons from aqueous phase. Chemical Engineering Research and Design, 2015, 104, 579-588.	2.7	52
44	Effective mass diffusion and dispersion in random porous media. Canadian Journal of Chemical Engineering, 2015, 93, 756-765.	0.9	1
45	Single, competitive, and dynamic adsorption on activated carbon of compounds used as plasticizers and herbicides. Science of the Total Environment, 2015, 537, 335-342.	3.9	31
46	Cooperative adsorption of bisphenol-A and chromium(III) ions from water on activated carbons prepared from olive-mill waste. Carbon, 2014, 73, 338-350.	5.4	87
47	Removal of diethyl phthalate from water solution by adsorption, photo-oxidation, ozonation and advanced oxidation process (UV/H ₂ O ₂ , O ₃ /H ₂ O ₂ and O ₃ /activated carbon). Science of the Total Environment, 2013, 442, 26-35.	3.9	91
48	Comparative study of the photodegradation of bisphenol A by HO, SO ₄ ^{•-} and CO ₃ ^{•-} /HCO ₃ radicals in aqueous phase. Science of the Total Environment, 2013, 463-464, 423-431.	3.9	120
49	Tetracycline removal from water by adsorption/bioadsorption on activated carbons and sludge-derived adsorbents. Journal of Environmental Management, 2013, 131, 16-24.	3.8	249
50	Pharmaceuticals as emerging contaminants and their removal from water. A review. Chemosphere, 2013, 93, 1268-1287.	4.2	1,122
51	Treatment of water contaminated with diphenolic acid by gamma radiation in the presence of different compounds. Chemical Engineering Journal, 2013, 219, 371-379.	6.6	33
52	Nonlinear MIMO Control of a Continuous Cooling Crystallizer. Modelling and Simulation in Engineering, 2012, 2012, 1-11.	0.4	0
53	Environmental impact of phthalic acid esters and their removal from water and sediments by different technologies – A review. Journal of Environmental Management, 2012, 109, 164-178.	3.8	239
54	Modeling adsorption rate of organic micropollutants present in landfill leachates onto granular activated carbon. Journal of Colloid and Interface Science, 2012, 385, 174-182.	5.0	76

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55	External mass transfer and hindered diffusion of organic compounds in the adsorption on activated carbon cloth. <i>Chemical Engineering Journal</i> , 2012, 183, 141-151.	6.6	62
56	Removal of Pyridine from Aqueous Solution by Adsorption on an Activated Carbon Cloth. <i>Clean - Soil, Air, Water</i> , 2012, 40, 45-53.	0.7	25
57	Metronidazole photodegradation in aqueous solution by using photosensitizers and hydrogen peroxide. <i>Journal of Chemical Technology and Biotechnology</i> , 2012, 87, 1202-1208.	1.6	28
58	Equilibrium and Kinetic Adsorption of Organic Compounds onto Organobentonite: Application of a Surface Diffusion Model. <i>Adsorption Science and Technology</i> , 2011, 29, 1007-1024.	1.5	5
59	Adsorption rate of phenol from aqueous solution onto organobentonite: Surface diffusion and kinetic models. <i>Journal of Colloid and Interface Science</i> , 2011, 364, 195-204.	5.0	107
60	Adsorption of Fluoride from Water Solution on Bone Char. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 9205-9212.	1.8	207
61	Mathematical Modeling of Preferential CO Oxidation Reactions under Advectionâ€“Diffusion Conditions in a 3D-Printed Reactive Monolith. <i>Industrial & Engineering Chemistry Research</i> , 0, , .	1.8	0