

Mohamed Zbair

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

1,720
citations

257101

24
h-index

301761

39
g-index

48
all docs

48
docs citations

48
times ranked

1541
citing authors

#	ARTICLE	IF	CITATIONS
1	Cationic dyes adsorption onto high surface area almond shell TM activated carbon: Kinetics, equilibrium isotherms and surface statistical modeling. <i>Materials Today Chemistry</i> , 2018, 8, 121-132.	1.7	141
2	Acridine orange adsorption by zinc oxide/almond shell activated carbon composite: Operational factors, mechanism and performance optimization using central composite design and surface modeling. <i>Journal of Environmental Management</i> , 2018, 206, 383-397.	3.8	115
3	Recent trends on numerical investigations of response surface methodology for pollutants adsorption onto activated carbon materials: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 1043-1084.	6.6	109
4	Porous carbon by microwave assisted pyrolysis: An effective and low-cost adsorbent for sulfamethoxazole adsorption and optimization using response surface methodology. <i>Journal of Cleaner Production</i> , 2018, 202, 571-581.	4.6	108
5	Toward new benchmark adsorbents: preparation and characterization of activated carbon from argan nut shell for bisphenol A removal. <i>Environmental Science and Pollution Research</i> , 2018, 25, 1869-1882.	2.7	81
6	Hydrothermal Carbonization of Argan Nut Shell: Functional Mesoporous Carbon with Excellent Performance in the Adsorption of Bisphenol A and Diuron. <i>Waste and Biomass Valorization</i> , 2020, 11, 1565-1584.	1.8	77
7	Engineering of new hydrogel beads based conducting polymers: Metal-free catalysis for highly organic pollutants degradation. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119948.	10.8	56
8	Steam activation of waste biomass: highly microporous carbon, optimization of bisphenol A, and diuron adsorption by response surface methodology. <i>Environmental Science and Pollution Research</i> , 2018, 25, 35657-35671.	2.7	55
9	Well-designed WO ₃ /Activated carbon composite for Rhodamine B Removal: Synthesis, characterization, and modeling using response surface methodology. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2018, 26, 389-397.	1.0	53
10	Selected pharmaceuticals removal using algae derived porous carbon: experimental, modeling and DFT theoretical insights. <i>RSC Advances</i> , 2019, 9, 9792-9808.	1.7	48
11	New functionalization approach synthesis of Sulfur doped, Nitrogen doped and Co-doped porous carbon: Superior metal-free Carbocatalyst for the catalytic oxidation of aqueous organics pollutants. <i>Chemical Engineering Journal</i> , 2021, 405, 126660.	6.6	47
12	High extent mass recovery of alginate hydrogel beads network based on immobilized bio-sourced porous carbon@Fe ₃ O ₄ -NPs for organic pollutants uptake. <i>Chemosphere</i> , 2019, 236, 124351.	4.2	43
13	Kinetics, equilibrium, statistical surface modeling and cost analysis of paraquat removal from aqueous solution using carbonated jujube seed. <i>RSC Advances</i> , 2019, 9, 1084-1094.	1.7	43
14	Adsorption kinetics and surface modeling of aqueous methylene blue onto activated carbonaceous wood sawdust. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2018, 26, 433-442.	1.0	42
15	Carbon microspheres derived from walnut shell: Rapid and remarkable uptake of heavy metal ions, molecular computational study and surface modeling. <i>Chemosphere</i> , 2019, 231, 140-150.	4.2	42
16	Microwave assisted green synthesis of Fe ₂ O ₃ /biochar for ultrasonic removal of nonsteroidal anti-inflammatory pharmaceuticals. <i>RSC Advances</i> , 2020, 10, 11371-11380.	1.7	37
17	Adsorptive Removal of Methylene Blue and Crystal Violet onto Micro-Mesoporous Zr ₃ O/Activated Carbon Composite: A Joint Experimental and Statistical Modeling Considerations. <i>Journal of Chemistry</i> , 2018, 2018, 1-14.	0.9	36
18	Reusable bentonite clay: modelling and optimization of hazardous lead and <i>p</i> -nitrophenol adsorption using a response surface methodology approach. <i>RSC Advances</i> , 2019, 9, 5756-5769.	1.7	35

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19	Photo/Electrocatalytic Properties of Nanocrystalline ZnO and La ³⁺ -Doped ZnO: Combined DFT Fundamental Semiconducting Properties and Experimental Study. <i>ChemistrySelect</i> , 2018, 3, 7778-7791.	0.7	34
20	Mesoporous treated sewage sludge as outstanding low-cost adsorbent for cadmium removal. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 330-338.		33
21	Apatitic tricalcium phosphate powder: High sorption capacity of hexavalent chromium removal. <i>Surfaces and Interfaces</i> , 2018, 13, 139-147.	1.5	31
22	Combined Methane Energy Recovery and Toxic Dye Removal by Porous Carbon Derived from Anaerobically Modified Digestate. <i>ACS Omega</i> , 2019, 4, 9434-9445.	1.6	31
23	Hydrochar-derived adsorbent for the removal of diclofenac from aqueous solution. <i>Nanotechnology for Environmental Engineering</i> , 2021, 6, 1.	2.0	31
24	Preparation and Characterization of Porous Carbon@ZnO NPs for Organic Compounds Removal: Classical Adsorption Versus Ultrasound Assisted Adsorption. <i>ChemistrySelect</i> , 2019, 4, 4981-4994.	0.7	30
25	Rietveld refinements, impedance spectroscopy and phase transition of the polycrystalline ZnMoO ₄ ceramics. <i>Ceramics International</i> , 2015, 41, 15193-15201.	2.3	28
26	Herbicide diuron removal from aqueous solution by bottom ash: Kinetics, isotherm, and thermodynamic adsorption studies. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103667.	3.3	28
27	Carbonaceous material prepared by ultrasonic assisted pyrolysis from algae (<i>Bifurcaria bifurcata</i>): Response surface modeling of aspirin removal. <i>Surfaces and Interfaces</i> , 2019, 14, 61-71.	1.5	25
28	Survey Summary on Salts Hydrates and Composites Used in Thermochemical Sorption Heat Storage: A Review. <i>Energies</i> , 2021, 14, 3105.	1.6	24
29	Synthesis of sustainable mesoporous treated fish waste as adsorbent for copper removal. <i>Groundwater for Sustainable Development</i> , 2019, 8, 1-9.	2.3	22
30	Removal of reactive red-198 dye using chitosan as an adsorbent: optimization by Central composite design coupled with response surface methodology. <i>Toxin Reviews</i> , 2021, 40, 225-237.	1.5	22
31	New amino group functionalized porous carbon for strong chelation ability towards toxic heavy metals. <i>RSC Advances</i> , 2020, 10, 31087-31100.	1.7	20
32	Catalytic abatement of dichloromethane over transition metal oxide catalysts: Thermodynamic modelling and experimental studies. <i>Journal of Cleaner Production</i> , 2019, 228, 814-823.	4.6	19
33	Toward new low-temperature thermochemical heat storage materials: Investigation of hydration/dehydration behaviors of MgSO ₄ /Hydroxyapatite composite. <i>Solar Energy Materials and Solar Cells</i> , 2022, 240, 111696.	3.0	19
34	Synthesis of nanosized TiO ₂ powder by sol gel method at low temperature. <i>Molecular Crystals and Liquid Crystals</i> , 2016, 627, 170-175.	0.4	18
35	Structured carbon foam derived from waste biomass: application to endocrine disruptor adsorption. <i>Environmental Science and Pollution Research</i> , 2019, 26, 32589-32599.	2.7	17
36	Nitrogen doped graphitic porous carbon from almond shells as an efficient persulfate activator for organic compound degradation. <i>New Journal of Chemistry</i> , 2020, 44, 9391-9401.	1.4	17

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37	High performance of Zn-Al-CO ₃ layered double hydroxide for anionic reactive blue 21 dye adsorption: kinetic, equilibrium, and thermodynamic studies. <i>Nanotechnology for Environmental Engineering</i> , 2019, 4, 1.	2.0	16
38	Heat storage: Hydration investigation of MgSO ₄ /active carbon composites, from material development to domestic applications scenarios. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 158, 112197.	8.2	15
39	CO ₂ Electroreduction over Metallic Oxide, Carbon-Based, and Molecular Catalysts: A Mini-Review of the Current Advances. <i>Catalysts</i> , 2022, 12, 450.	1.6	14
40	Adsorption of Estradiol from aqueous solution by hydrothermally carbonized and steam activated palm kernel shells. <i>Energy Nexus</i> , 2021, 1, 100009.	3.3	12
41	Ceramic hydroxyapatite foam as a new material for Bisphenol A removal from contaminated water. <i>Environmental Science and Pollution Research</i> , 2021, 28, 17739-17751.	2.7	10
42	Porous carbon materials derived from olive kernels: application in adsorption of organic pollutants. <i>Environmental Science and Pollution Research</i> , 2020, 27, 29967-29982.	2.7	9
43	Catalytic wet air oxidation of high BPA concentration over iron-based catalyst supported on orthophosphate. <i>Environmental Science and Pollution Research</i> , 2020, 27, 32533-32543.	2.7	8
44	Total Oxidation of Dichloromethane over Silica Modified Alumina Catalysts Washcoated on Ceramic Monoliths. <i>Catalysts</i> , 2018, 8, 339.	1.6	7
45	Exhausted Grape Marc Derived Biochars: Effect of Pyrolysis Temperature on the Yield and Quality of Biochar for Soil Amendment. <i>Sustainability</i> , 2021, 13, 11187.	1.6	7
46	Effects of lutetium doping on the X-ray-excited luminescence properties of the tungstate Zn _{1-x} Lu _x WO ₄ . <i>Research on Chemical Intermediates</i> , 2017, 43, 885-899.	1.3	0