

Ming Zhang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94
papers

11,571
citations

39
h-index

94
g-index

94
ext. papers

13,977
ext. citations

9.2
avg, IF

6.7
L-index

#	Paper	IF	Citations
94	Biochar as a sorbent for contaminant management in soil and water: a review. <i>Chemosphere</i> , 2014 , 99, 19-33	8.4	2439
93	Recent advancements in supercapacitor technology. <i>Nano Energy</i> , 2018 , 52, 441-473	17.1	729
92	Engineered/designer biochar for contaminant removal/immobilization from soil and water: Potential and implication of biochar modification. <i>Chemosphere</i> , 2016 , 148, 276-91	8.4	703
91	Heavy metals in food crops: Health risks, fate, mechanisms, and management. <i>Environment International</i> , 2019 , 125, 365-385	12.9	553
90	Effect of biochar amendment on sorption and leaching of nitrate, ammonium, and phosphate in a sandy soil. <i>Chemosphere</i> , 2012 , 89, 1467-71	8.4	553
89	Preparation and characterization of a novel magnetic biochar for arsenic removal. <i>Bioresource Technology</i> , 2013 , 130, 457-62	11	461
88	Hydrogen peroxide modification enhances the ability of biochar (hydrochar) produced from hydrothermal carbonization of peanut hull to remove aqueous heavy metals: Batch and column tests. <i>Chemical Engineering Journal</i> , 2012 , 200-202, 673-680	14.7	451
87	Effects of feedstock type, production method, and pyrolysis temperature on biochar and hydrochar properties. <i>Chemical Engineering Journal</i> , 2014 , 240, 574-578	14.7	446
86	Synthesis of porous MgO-biochar nanocomposites for removal of phosphate and nitrate from aqueous solutions. <i>Chemical Engineering Journal</i> , 2012 , 210, 26-32	14.7	411
85	Removal of arsenic, methylene blue, and phosphate by biochar/AlOOH nanocomposite. <i>Chemical Engineering Journal</i> , 2013 , 226, 286-292	14.7	314
84	Recent advancements in bioremediation of dye: Current status and challenges. <i>Bioresource Technology</i> , 2018 , 253, 355-367	11	287
83	Biochar-supported zerovalent iron for removal of various contaminants from aqueous solutions. <i>Bioresource Technology</i> , 2014 , 152, 538-42	11	275
82	Trichloroethylene adsorption by pine needle biochars produced at various pyrolysis temperatures. <i>Bioresource Technology</i> , 2013 , 143, 615-22	11	266
81	Characterization and environmental applications of clay-biochar composites. <i>Chemical Engineering Journal</i> , 2014 , 242, 136-143	14.7	232
80	Pyrolysis condition affected sulfamethazine sorption by tea waste biochars. <i>Bioresource Technology</i> , 2014 , 166, 303-8	11	225
79	Synthesis, characterization, and dye sorption ability of carbon nanotube-biochar nanocomposites. <i>Chemical Engineering Journal</i> , 2014 , 236, 39-46	14.7	216
78	Engineered carbon (biochar) prepared by direct pyrolysis of Mg-accumulated tomato tissues: characterization and phosphate removal potential. <i>Bioresource Technology</i> , 2013 , 138, 8-13	11	209

77	Carbon dioxide capture using biochar produced from sugarcane bagasse and hickory wood. <i>Chemical Engineering Journal</i> , 2014 , 249, 174-179	14.7	200
76	Phosphate removal ability of biochar/MgAl-LDH ultra-fine composites prepared by liquid-phase deposition. <i>Chemosphere</i> , 2013 , 92, 1042-7	8.4	190
75	Review of nanomaterials as sorbents in solid-phase extraction for environmental samples. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 108, 347-369	14.6	176
74	Synthesis, characterization, and environmental implications of graphene-coated biochar. <i>Science of the Total Environment</i> , 2012 , 435-436, 567-72	10.2	158
73	Nanoparticle-plant interaction: Implications in energy, environment, and agriculture. <i>Environment International</i> , 2018 , 119, 1-19	12.9	143
72	Metal-organic frameworks as advanced sorbents for the extraction and determination of pollutants from environmental, biological, and food media. <i>TrAC - Trends in Analytical Chemistry</i> , 2017 , 97, 65-82	14.6	116
71	Impact of soybean stover- and pine needle-derived biochars on Pb and As mobility, microbial community, and carbon stability in a contaminated agricultural soil. <i>Journal of Environmental Management</i> , 2016 , 166, 131-9	7.9	113
70	Invasive plant-derived biochar inhibits sulfamethazine uptake by lettuce in soil. <i>Chemosphere</i> , 2014 , 111, 500-4	8.4	96
69	Effects of graphene on seed germination and seedling growth. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	90
68	Acid-activated biochar increased sulfamethazine retention in soils. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 2175-86	5.1	85
67	Evaluating biochar and its modifications for the removal of ammonium, nitrate, and phosphate in water. <i>Water Research</i> , 2020 , 186, 116303	12.5	84
66	Characterization of bioenergy biochar and its utilization for metal/metalloid immobilization in contaminated soil. <i>Science of the Total Environment</i> , 2018 , 640-641, 704-713	10.2	80
65	Recent advances in photodegradation of antibiotic residues in water. <i>Chemical Engineering Journal</i> , 2021 , 405, 126806	14.7	78
64	Sorption of polycyclic aromatic hydrocarbons to carbohydrates and lipids of ryegrass root and implications for a sorption prediction model. <i>Environmental Science & Technology</i> , 2009 , 43, 2740-5	10.3	64
63	Effect of rhamnolipids on the uptake of PAHs by ryegrass. <i>Environmental Pollution</i> , 2008 , 156, 46-52	9.3	62
62	Synthesis of a multifunctional graphene-carbon nanotube aerogel and its strong adsorption of lead from aqueous solution. <i>RSC Advances</i> , 2013 , 3, 21099	3.7	60
61	Recent advances in control technologies for non-point source pollution with nitrogen and phosphorous from agricultural runoff: current practices and future prospects. <i>Applied Biological Chemistry</i> , 2020 , 63,	2.9	59
60	Sources, distribution, bioavailability, toxicity, and risk assessment of heavy metal(loid)s in complementary medicines. <i>Environment International</i> , 2017 , 108, 103-118	12.9	55

59	Spatial distribution of heavy metals in crops in a wastewater irrigated zone and health risk assessment. <i>Environmental Research</i> , 2019 , 168, 382-388	7.9	52
58	Self-assembly of needle-like layered double hydroxide (LDH) nanocrystals on hydrochar: characterization and phosphate removal ability. <i>RSC Advances</i> , 2014 , 4, 28171	3.7	44
57	Sorption Process of Date Palm Biochar for Aqueous Cd (II) Removal: Efficiency and Mechanisms. <i>Water, Air, and Soil Pollution</i> , 2016 , 227, 1	2.6	42
56	Biochars as Potential Adsorbers of CH ₄ , CO ₂ and H ₂ S. <i>Sustainability</i> , 2017 , 9, 121	3.6	41
55	Bioaccumulation of potentially toxic elements by submerged plants and biofilms: A critical review. <i>Environment International</i> , 2019 , 131, 105015	12.9	39
54	Biochar soil amendment for sustainable agriculture with carbon and contaminant sequestration. <i>Carbon Management</i> , 2014 , 5, 255-257	3.3	37
53	Recent advances in photocatalytic hydrogen evolution with high-performance catalysts without precious metals. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 132, 110040	16.2	36
52	Remediation of soils and sediments polluted with polycyclic aromatic hydrocarbons: To immobilize, mobilize, or degrade?. <i>Journal of Hazardous Materials</i> , 2021 , 420, 126534	12.8	36
51	Sorption of polycyclic aromatic hydrocarbons (PAHs) to lignin: effects of hydrophobicity and temperature. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2014 , 93, 84-8	2.7	31
50	Recent advances in carbon nanotube sponge-based sorption technologies for mitigation of marine oil spills. <i>Journal of Colloid and Interface Science</i> , 2020 , 570, 411-422	9.3	30
49	Effect of SDBS between 80 mixed surfactants on the distribution of polycyclic aromatic hydrocarbons in soil-water system. <i>Journal of Soils and Sediments</i> , 2010 , 10, 1123-1130	3.4	30
48	Ammonium removal using a calcined natural zeolite modified with sodium nitrate. <i>Journal of Hazardous Materials</i> , 2020 , 393, 122481	12.8	29
47	Fabrication of spherical biochar by a two-step thermal process from waste potato peel. <i>Science of the Total Environment</i> , 2018 , 626, 478-485	10.2	28
46	Fabrication and application of magnetic starch-based activated hierarchical porous carbon spheres for the efficient removal of dyes from water. <i>Materials Chemistry and Physics</i> , 2016 , 174, 179-186	4.4	28
45	Adsorption-desorption behavior of naphthalene onto CDMBA modified bentonite: Contribution of the interaction. <i>Applied Clay Science</i> , 2014 , 100, 29-34	5.2	28
44	Fabrication and application of hierarchical porous carbon for the adsorption of bulky dyes. <i>Microporous and Mesoporous Materials</i> , 2019 , 290, 109651	5.3	23
43	Thermolysis of crude oil sludge using CO ₂ as reactive gas medium. <i>Energy Conversion and Management</i> , 2019 , 186, 393-400	10.6	23
42	Adsorption Characteristics of a Novel Carbon-Nanotube-Based Composite Adsorbent toward Organic Pollutants. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 2379-2384	3.9	23

41	Efficient succinic acid production using a biochar-treated textile waste hydrolysate in an in situ fibrous bed bioreactor. <i>Biochemical Engineering Journal</i> , 2019 , 149, 107249	4.2	21
40	Synthesis of fatty acid methyl esters via non-catalytic transesterification of avocado oil with dimethyl carbonate. <i>Energy Conversion and Management</i> , 2019 , 195, 1-6	10.6	21
39	Optimization of preparation conditions for biochar derived from water hyacinth by using response surface methodology (RSM) and its application in Pb ²⁺ removal. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104198	6.8	21
38	Organo-layered double hydroxides for the removal of polycyclic aromatic hydrocarbons from soil washing effluents containing high concentrations of surfactants. <i>Journal of Hazardous Materials</i> , 2019 , 373, 678-686	12.8	18
37	Highly Effective Removal of Tetracycline from Water by Hierarchical Porous Carbon: Batch and Column Adsorption. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 20036-20046	3.9	17
36	Ozone-encapsulated colloidal gas aphrons for in situ and targeting remediation of phenanthrene-contaminated sediment-aquifer. <i>Water Research</i> , 2019 , 160, 29-38	12.5	16
35	Effects of aging and weathering on immobilization of trace metals/metalloids in soils amended with biochar. <i>Environmental Sciences: Processes and Impacts</i> , 2020 , 22, 1790-1808	4.3	14
34	Role and fate of the lead during the conversion of calcium sulfate dihydrate to hemihydrate whiskers in ethylene glycol-water solutions. <i>Chemical Engineering Journal</i> , 2019 , 372, 74-81	14.7	11
33	The unique features of non-competitive vs. competitive sorption: Tests against single volatile aromatic hydrocarbons and their quaternary mixtures. <i>Environmental Research</i> , 2019 , 173, 508-516	7.9	11
32	Adsorptive Removal of Trichloroethylene in Water by Crop Residue Biochars Pyrolyzed at Contrasting Temperatures: Continuous Fixed-Bed Experiments. <i>Journal of Chemistry</i> , 2015 , 2015, 1-6	2.3	10
31	The enhanced thermolysis of heavy oil contaminated soil using CO ₂ for soil remediation and energy recovery. <i>Journal of CO₂ Utilization</i> , 2018 , 28, 367-373	7.6	10
30	A remediation approach to chromium-contaminated water and soil using engineered biochar derived from peanut shell. <i>Environmental Research</i> , 2021 , 204, 112125	7.9	10
29	Transport of micro- and nanoplastics in the environment: Trojan-Horse effect for organic contaminants. <i>Critical Reviews in Environmental Science and Technology</i> , 2020 , 1-37	11.1	9
28	Sorption of pharmaceuticals and personal care products (PPCPs) from water and wastewater by carbonaceous materials: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2020 , 1-40	11.1	8
27	Construction of biotreatment platforms for aromatic hydrocarbons and their future perspectives. <i>Journal of Hazardous Materials</i> , 2021 , 416, 125968	12.8	8
26	A novel high surface area spherical carbon from cassava starch. <i>Materials Letters</i> , 2015 , 139, 262-264	3.3	7
25	Metal oxide and carbon nanomaterial based membranes for reverse osmosis and membrane distillation: A comparative review. <i>Environmental Research</i> , 2021 , 202, 111716	7.9	7
24	Comparative evaluation for the sorption capacity of four carbonaceous sorbents to phenol. <i>Chemical Speciation and Bioavailability</i> , 2016 , 28, 18-25		6

23	Effect of Temperature, Salinity, and pH on the Adsorption of Lead by Sediment of a Tidal River in East China 2012 ,		6
22	Engineered/designer hierarchical porous carbon materials for organic pollutant removal from water and wastewater: A critical review. <i>Critical Reviews in Environmental Science and Technology</i> , 2021 , 51, 2295-2328	11.1	6
21	Biochar alters chemical and microbial properties of microplastic-contaminated soil.. <i>Environmental Research</i> , 2022 , 112807	7.9	5
20	Removal of phosphate from water by paper mill sludge biochar. <i>Environmental Pollution</i> , 2021 , 293, 118521	7.3	5
19	The adsorptive removal of lead ions in aquatic media: Performance comparison between advanced functional materials and conventional materials. <i>Critical Reviews in Environmental Science and Technology</i> , 2020 , 50, 2441-2483	11.1	5
18	Biochar for Anionic Contaminants Removal From Water 2019 , 143-160		5
17	Reduction of Na and K contents in bio-heavy oil using micro-/nano-sized CO ₂ bubbles. <i>Journal of CO₂ Utilization</i> , 2019 , 34, 430-436	7.6	4
16	Construction of carbon nanotube-based microcapsules by self-assembly. <i>Environmental Chemistry Letters</i> , 2014 , 12, 359-364	13.3	4
15	Selective removal of phenanthrene from SDBS or TX100 solution by sorption of resin SP850. <i>Chemical Engineering Journal</i> , 2020 , 388, 124191	14.7	4
14	Analytical techniques and challenges for removal of pharmaceuticals and personal care products in water 2019 , 239-257		3
13	Sorption of polycyclic aromatic hydrocarbons (PAHs) by dietary fiber extracted from wheat bran. <i>Chemical Speciation and Bioavailability</i> , 2016 , 28, 13-17		3
12	Retention and transport behavior of microplastic particles in water-saturated porous media. <i>Science of the Total Environment</i> , 2021 , 808, 152154	10.2	3
11	Dramatic change of methylenedianiline activity and selectivity in different pore geometry of zeolites. <i>Microporous and Mesoporous Materials</i> , 2016 , 233, 109-116	5.3	2
10	Fabricate hollow Ag@POMs microtubule by a simple process. <i>Materials Letters</i> , 2015 , 141, 128-131	3.3	2
9	Facile preparation of high performance degradation of HCHO catalyst from Li-MnO ₂ batteries. <i>Materials Letters</i> , 2020 , 260, 126958	3.3	2
8	Re-recognizing micro locations of nanoscale zero-valent iron in biochar using C-TEM technique. <i>Scientific Reports</i> , 2021 , 11, 5037	4.9	2
7	Time-dependent desorption of anilines, phenols, and nitrobenzenes from biochar produced at 700°C: Insight into desorption hysteresis. <i>Chemical Engineering Journal</i> , 2021 , 422, 130584	14.7	2
6	Biodegradation of hazardous naphthalene and cleaner production of rhamnolipids - Green approaches of pollution mitigation.. <i>Environmental Research</i> , 2022 , 112875	7.9	1

5	Enhanced removal of ammonium from water using sulfonated reed waste biochar-A lab-scale investigation. <i>Environmental Pollution</i> , 2022 , 292, 118412	9.3	1
4	Insights into the adsorption mechanism of tetracycline on hierarchically porous carbon and the effect of nanoporous geometry. <i>Chemical Engineering Journal</i> , 2022 , 437, 135454	14.7	1
3	Synergistic role of inherent calcium and iron minerals in paper mill sludge biochar for phosphate adsorption.. <i>Science of the Total Environment</i> , 2022 , 155193	10.2	1
2	Functionalizing biochar by Co-pyrolysis shaddock peel with red mud for removing acid orange 7 from water.. <i>Environmental Pollution</i> , 2022 , 118893	9.3	0
1	Selective sorption of PAHs from TX100 solution by resin SP850: effects of TX100 concentrations and PAHs solubility.. <i>RSC Advances</i> , 2021 , 11, 13530-13536	3.7	0