

Xiao Yang

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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.

63

papers

1,777

citations

24

h-index

41

g-index

66

ext. papers

2,605

ext. citations

9.4

avg, IF

5.45

L-index

#	Paper	IF	Citations
63	Carbon-based materials as adsorbent for antibiotics removal: Mechanisms and influencing factors. <i>Journal of Environmental Management</i> , 2019 , 237, 128-138	7.9	154
62	Influence of soil properties and feedstocks on biochar potential for carbon mineralization and improvement of infertile soils. <i>Geoderma</i> , 2018 , 332, 100-108	6.7	142
61	Pyrolysis process of agricultural waste using CO ₂ for waste management, energy recovery, and biochar fabrication. <i>Applied Energy</i> , 2017 , 185, 214-222	10.7	142
60	Effect of gasification biochar application on soil quality: Trace metal behavior, microbial community, and soil dissolved organic matter. <i>Journal of Hazardous Materials</i> , 2019 , 365, 684-694	12.8	100
59	Fabrication of sustainable manganese ferrite modified biochar from vinasse for enhanced adsorption of fluoroquinolone antibiotics: Effects and mechanisms. <i>Science of the Total Environment</i> , 2020 , 709, 136079	10.2	98
58	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
57	Characterization and ecotoxicological investigation of biochar produced via slow pyrolysis: Effect of feedstock composition and pyrolysis conditions. <i>Journal of Hazardous Materials</i> , 2019 , 365, 178-185	12.8	66
56	The potential of biochar as sorptive media for removal of hazardous benzene in air. <i>Chemical Engineering Journal</i> , 2019 , 361, 1576-1585	14.7	63
55	Gasification biochar from biowaste (food waste and wood waste) for effective CO adsorption. <i>Journal of Hazardous Materials</i> , 2020 , 391, 121147	12.8	62
54	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
53	Goethite modified biochar as a multifunctional amendment for cationic Cd(II), anionic As(III), roxarsone, and phosphorus in soil and water. <i>Journal of Cleaner Production</i> , 2020 , 247, 119579	10.3	58
52	Sustainable gasification biochar as a high efficiency adsorbent for CO ₂ capture: A facile method to designer biochar fabrication. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 124, 109785	16.2	51
51	A comparison of figure of merit (FOM) for various materials in adsorptive removal of benzene under ambient temperature and pressure. <i>Environmental Research</i> , 2019 , 168, 96-108	7.9	51
50	Emerging risks of toxic metal(loid)s in soil-vegetables influenced by steel-making activities and isotopic source apportionment. <i>Environment International</i> , 2021 , 146, 106207	12.9	48
49	Tin-Functionalized Wood Biochar as a Sustainable Solid Catalyst for Glucose Isomerization in Biorefinery. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 4851-4860	8.3	44
48	Cadmium isotopes as tracers in environmental studies: A review. <i>Science of the Total Environment</i> , 2020 , 736, 139585	10.2	37
47	Metal(loid) immobilization in soils with biochars pyrolyzed in N and CO environments. <i>Science of the Total Environment</i> , 2018 , 630, 1103-1114	10.2	35

46	Mechanistic insights of 2,4-D sorption onto biochar: Influence of feedstock materials and biochar properties. <i>Bioresource Technology</i> , 2017 , 246, 160-167	11	35
45	Effects of carbon dioxide on pyrolysis of peat. <i>Energy</i> , 2017 , 120, 929-936	7.9	29
44	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
43	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
42	Green sustainable and highly efficient hematite nanoparticles modified biochar-clay granular composite for Cr(VI) removal and related mechanism. <i>Journal of Cleaner Production</i> , 2020 , 276, 123009	10.3	27
41	Polyamide 6 microplastics facilitate methane production during anaerobic digestion of waste activated sludge. <i>Chemical Engineering Journal</i> , 2021 , 408, 127251	14.7	25
40	Influence of roxithromycin as antibiotic residue on volatile fatty acids recovery in anaerobic fermentation of waste activated sludge. <i>Journal of Hazardous Materials</i> , 2020 , 394, 122570	12.8	24
39	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
38	Recent advances in nitrous oxide production and mitigation in wastewater treatment. <i>Water Research</i> , 2020 , 184, 116168	12.5	18
37	Cadmium isotopic fractionation in lead-zinc smelting process and signatures in fluvial sediments. <i>Journal of Hazardous Materials</i> , 2021 , 411, 125015	12.8	18
36	Contrasting abiotic As(III) immobilization by undissolved and dissolved fractions of biochar in Ca-rich groundwater under anoxic conditions. <i>Water Research</i> , 2020 , 183, 116106	12.5	17
35	Fabricating poly(vinyl alcohol)/gelatin composite sponges with high absorbency and water-triggered expansion for noncompressible hemorrhage and wound healing. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 1568-1582	7.3	17
34	Escalating health risk of thallium and arsenic from farmland contamination fueled by cement-making activities: A hidden but significant source. <i>Science of the Total Environment</i> , 2021 , 782, 146603	10.2	16
33	Input-output balance of cadmium in typical agriculture soils with historical sewage irrigation in China. <i>Journal of Environmental Management</i> , 2020 , 276, 111298	7.9	15
32	New mechanistic insight into rapid adsorption of pharmaceuticals from water utilizing activated biochar. <i>Environmental Research</i> , 2021 , 202, 111693	7.9	15
31	Exploring the linkage between free nitrous acid accumulation and nitrous oxide emissions in a novel static/oxic/anoxic process. <i>Bioresource Technology</i> , 2020 , 304, 123011	11	13
30	Monitoring the nitrous oxide emissions and biological nutrient removal from wastewater treatment: Impact of perfluorooctanoic acid. <i>Journal of Hazardous Materials</i> , 2021 , 402, 123469	12.8	13
29	Survival strategies and dominant phylotypes of maize-rhizosphere microorganisms under metal(loid)s contamination. <i>Science of the Total Environment</i> , 2021 , 774, 145143	10.2	12

28	Responses of ammonia-oxidizing microorganisms to biochar and compost amendments of heavy metals-polluted soil. <i>Journal of Environmental Sciences</i> , 2021 , 102, 263-272	6.4	12
27	Ball-milled, solvent-free Sn-functionalisation of wood waste biochar for sugar conversion in food waste valorisation. <i>Journal of Cleaner Production</i> , 2020 , 268, 122300	10.3	11
26	Novel insights into the adsorption of organic contaminants by biochar: A review. <i>Chemosphere</i> , 2022 , 287, 132113	8.4	10
25	A combined management scheme to simultaneously mitigate As and Cd concentrations in rice cultivated in contaminated paddy soil. <i>Journal of Hazardous Materials</i> , 2021 , 416, 125837	12.8	9
24	Evaluation of potential ecological risks in potential toxic elements contaminated agricultural soils: Correlations between soil contamination and polymetallic mining activity. <i>Journal of Environmental Management</i> , 2021 , 300, 113679	7.9	9
23	A novel high surface area spherical carbon from cassava starch. <i>Materials Letters</i> , 2015 , 139, 262-264	3.3	7
22	CYP81A68 confers metabolic resistance to ALS and ACCase-inhibiting herbicides and its epigenetic regulation in <i>Echinochloa crus-galli</i> .. <i>Journal of Hazardous Materials</i> , 2022 , 428, 128225	12.8	7
21	Influence of chlortetracycline as an antibiotic residue on nitrous oxide emissions from wastewater treatment. <i>Bioresource Technology</i> , 2020 , 313, 123696	11	6
20	Triclosan facilitates the recovery of volatile fatty acids from waste activated sludge. <i>Science of the Total Environment</i> , 2021 , 754, 142336	10.2	6
19	Thallium geochemical fractionation and migration in Tl-As rich soils: The key controls. <i>Science of the Total Environment</i> , 2021 , 784, 146995	10.2	6
18	Rice husk-derived biochar can aggravate arsenic mobility in ferrous-rich groundwater during oxygenation. <i>Water Research</i> , 2021 , 200, 117264	12.5	5
17	Simultaneous immobilization of arsenic and cadmium in paddy soil by Fe-Mn binary oxide. <i>Elementa</i> , 2020 , 8,	3.6	4
16	Distribution and migration characteristics of dinitrotoluene sulfonates (DNTs) in typical TNT production sites: Effects and health risk assessment. <i>Journal of Environmental Management</i> , 2021 , 287, 112342	7.9	4
15	Ball-milled magnetite for efficient arsenic decontamination: Insights into oxidation-adsorption mechanism.. <i>Journal of Hazardous Materials</i> , 2021 , 427, 128117	12.8	3
14	Perfluorooctanoic acid triggers oxidative stress in anaerobic digestion of sewage sludge. <i>Journal of Hazardous Materials</i> , 2022 , 424, 127418	12.8	3
13	Enhanced delivery of engineered Fe-Mn binary oxides in heterogeneous porous media for efficient arsenic stabilization. <i>Journal of Hazardous Materials</i> , 2022 , 424, 127371	12.8	3
12	Fabricate hollow Ag@POMs microtubule by a simple process. <i>Materials Letters</i> , 2015 , 141, 128-131	3.3	2
11	The FeO-modified biochar reduces arsenic availability in soil and arsenic accumulation in indica rice (<i>Oryza sativa</i> L.). <i>Environmental Science and Pollution Research</i> , 2021 , 28, 18050-18061	5.1	2

10	Interactive influences of meteorological and socioeconomic factors on ecosystem service values in a river basin with different geomorphic features.. <i>Science of the Total Environment</i> , 2022 , 154595	10.2	2
9	Conversion of biochar to sulfonated solid acid catalysts for spiramycin hydrolysis: Insights into the sulfonation process. <i>Environmental Research</i> , 2020 , 188, 109887	7.9	1
8	Evaluation of arsenic mineralogy and geochemistry in gold mine-impacted matrices: Speciation, transformation, and potential associated risks.. <i>Journal of Environmental Management</i> , 2022 , 308, 114619	7.9	1
7	Biochar and nitrogen fertilizer co-application changed SOC content and fraction composition in Huang-Huai-Hai plain, China. <i>Chemosphere</i> , 2021 , 291, 132925	8.4	1
6	Unveiling the different faces of chlortetracycline in fermentative volatile fatty acid production from waste activated sludge. <i>Bioresource Technology</i> , 2021 , 329, 124875	11	1
5	Modeling nitrous oxide emissions in membrane bioreactors: Advancements, challenges and perspectives. <i>Science of the Total Environment</i> , 2022 , 806, 151394	10.2	0
4	Synergistic effects of ball-milled biochar-supported exfoliated LDHs on phosphate adsorption: Insights into role of fine biochar support. <i>Environmental Pollution</i> , 2021 , 294, 118592	9.3	0
3	Theoretical Modeling and Simulations of Magnetic Fluids in Gradient Magnetic Fields. <i>Advanced Materials Research</i> , 2010 , 146-147, 1510-1513	0.5	
2	Influence of the Magnetic Interaction among Particles on Distributions of Magnetic Fluids Using Computer Simulations. <i>Advanced Materials Research</i> , 2010 , 150-151, 1595-1598	0.5	
1	Biochar for remediation of alkaline soils contaminated with toxic elements 2022 , 223-240		