

# Xiao Yang

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

3,478  
citations

126708

33  
h-index

138251

58  
g-index

66  
all docs

66  
docs citations

66  
times ranked

3172  
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon-based materials as adsorbent for antibiotics removal: Mechanisms and influencing factors. <i>Journal of Environmental Management</i> , 2019, 237, 128-138.	3.8	266
2	Influence of soil properties and feedstocks on biochar potential for carbon mineralization and improvement of infertile soils. <i>Geoderma</i> , 2018, 332, 100-108.	2.3	206
3	Pyrolysis process of agricultural waste using CO <sub>2</sub> for waste management, energy recovery, and biochar fabrication. <i>Applied Energy</i> , 2017, 185, 214-222.	5.1	198
4	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.	3.9	187
5	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.	6.5	156
6	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.	4.6	141
7	Gasification biochar from biowaste (food waste and wood waste) for effective CO <sub>2</sub> adsorption. <i>Journal of Hazardous Materials</i> , 2020, 391, 121147.	6.5	132
8	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, .	0.7	129
9	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.	3.9	110
10	Sustainable gasification biochar as a high efficiency adsorbent for CO <sub>2</sub> capture: A facile method to designer biochar fabrication. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 124, 109785.	8.2	107
11	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.	4.8	105
12	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.	6.5	100
13	Novel insights into the adsorption of organic contaminants by biochar: A review. <i>Chemosphere</i> , 2022, 287, 132113.	4.2	97
14	The potential of biochar as sorptive media for removal of hazardous benzene in air. <i>Chemical Engineering Journal</i> , 2019, 361, 1576-1585.	6.6	94
15	Polyamide 6 microplastics facilitate methane production during anaerobic digestion of waste activated sludge. <i>Chemical Engineering Journal</i> , 2021, 408, 127251.	6.6	75
16	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.	3.7	73
17	Cadmium isotopes as tracers in environmental studies: A review. <i>Science of the Total Environment</i> , 2020, 736, 139585.	3.9	66
18	Recent advances in nitrous oxide production and mitigation in wastewater treatment. <i>Water Research</i> , 2020, 184, 116168.	5.3	61

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19	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.	3.2	59
20	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.	4.6	55
21	Mechanistic insights of 2,4-D sorption onto biochar: Influence of feedstock materials and biochar properties. <i>Bioresource Technology</i> , 2017, 246, 160-167.	4.8	50
22	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.	6.5	50
23	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.	6.5	50
24	Metal(loid) immobilization in soils with biochars pyrolyzed in N <sub>2</sub> and CO <sub>2</sub> environments. <i>Science of the Total Environment</i> , 2018, 630, 1103-1114.	3.9	48
25	New mechanistic insight into rapid adsorption of pharmaceuticals from water utilizing activated biochar. <i>Environmental Research</i> , 2021, 202, 111693.	3.7	46
26	Cadmium isotopic fractionation in lead-zinc smelting process and signatures in fluvial sediments. <i>Journal of Hazardous Materials</i> , 2021, 411, 125015.	6.5	45
27	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.	2.9	44
28	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, 829, 154595.	3.9	44
29	Contrasting abiotic As(III) immobilization by undissolved and dissolved fractions of biochar in Ca <sup>2+</sup> -rich groundwater under anoxic conditions. <i>Water Research</i> , 2020, 183, 116106.	5.3	42
30	Effects of carbon dioxide on pyrolysis of peat. <i>Energy</i> , 2017, 120, 929-936.	4.5	40
31	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.	6.5	40
32	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.	3.2	40
33	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.	2.0	39
34	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.	3.9	35
35	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.	6.5	35
36	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.	1.8	34

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37	Survival strategies and dominant phylotypes of maize-rhizosphere microorganisms under metal(loid)s contamination. <i>Science of the Total Environment</i> , 2021, 774, 145143.	3.9	29
38	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.	3.9	28
39	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.	3.8	28
40	Synergistic effects of ball-milled biochar-supported exfoliated LDHs on phosphate adsorption: Insights into role of fine biochar support. <i>Environmental Pollution</i> , 2022, 294, 118592.	3.7	27
41	Input–output balance of cadmium in typical agriculture soils with historical sewage irrigation in China. <i>Journal of Environmental Management</i> , 2020, 276, 111298.	3.8	26
42	Perfluorooctanoic acid triggers oxidative stress in anaerobic digestion of sewage sludge. <i>Journal of Hazardous Materials</i> , 2022, 424, 127418.	6.5	24
43	The Fe <sub>3</sub> O <sub>4</sub> -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.	2.7	22
44	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.	4.6	20
45	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.	4.8	19
46	Rice husk-derived biochar can aggravate arsenic mobility in ferrous-rich groundwater during oxygenation. <i>Water Research</i> , 2021, 200, 117264.	5.3	17
47	Biochar and nitrogen fertilizer co-application changed SOC content and fraction composition in Huang-Huai-Hai plain, China. <i>Chemosphere</i> , 2022, 291, 132925.	4.2	17
48	Ball-milled magnetite for efficient arsenic decontamination: Insights into oxidation–adsorption mechanism. <i>Journal of Hazardous Materials</i> , 2022, 427, 128117.	6.5	16
49	Thallium geochemical fractionation and migration in Tl-As rich soils: The key controls. <i>Science of the Total Environment</i> , 2021, 784, 146995.	3.9	14
50	Conversion of biochar to sulfonated solid acid catalysts for spiramycin hydrolysis: Insights into the sulfonation process. <i>Environmental Research</i> , 2020, 188, 109887.	3.7	13
51	Influence of chlortetracycline as an antibiotic residue on nitrous oxide emissions from wastewater treatment. <i>Bioresource Technology</i> , 2020, 313, 123696.	4.8	12
52	Triclosan facilitates the recovery of volatile fatty acids from waste activated sludge. <i>Science of the Total Environment</i> , 2021, 754, 142336.	3.9	12
53	A novel high surface area spherical carbon from cassava starch. <i>Materials Letters</i> , 2015, 139, 262-264.	1.3	10
54	Unveiling the different faces of chlortetracycline in fermentative volatile fatty acid production from waste activated sludge. <i>Bioresource Technology</i> , 2021, 329, 124875.	4.8	9

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55	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.	3.8	9
56	Simultaneous immobilization of arsenic and cadmium in paddy soil by Fe-Mn binary oxide. <i>Elementa</i> , 2020, 8, .	1.1	8
57	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.	3.8	5
58	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.	6.5	4
59	Potential hot spots contaminated with exogenous, rare earth elements originating from e-waste dismantling and recycling. <i>Environmental Pollution</i> , 2022, 309, 119717.	3.7	3
60	Fabricate hollow Ag@POMs microtubule by a simple process. <i>Materials Letters</i> , 2015, 141, 128-131.	1.3	2
61	Modeling nitrous oxide emissions in membrane bioreactors: Advancements, challenges and perspectives. <i>Science of the Total Environment</i> , 2021, 806, 151394.	3.9	2
62	Comprehensive understanding of guest compound intercalated layered double hydroxides: Design and applications in removal of potentially toxic elements. <i>Critical Reviews in Environmental Science and Technology</i> , 2023, 53, 457-482.	6.6	2
63	Theoretical Modeling and Simulations of Magnetic Fluids in Gradient Magnetic Fields. <i>Advanced Materials Research</i> , 0, 146-147, 1510-1513.	0.3	0
64	Influence of the Magnetic Interaction among Particles on Distributions of Magnetic Fluids Using Computer Simulations. <i>Advanced Materials Research</i> , 0, 150-151, 1595-1598.	0.3	0
65	Biochar for remediation of alkaline soils contaminated with toxic elements. , 2022, , 223-240.		0