

# Zibo Xu

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

2,418  
citations

236612

25  
h-index

433756

31  
g-index

32  
all docs

32  
docs citations

32  
times ranked

1413  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biochar as both electron donor and electron shuttle for the reduction transformation of Cr(VI) during its sorption. <i>Environmental Pollution</i> , 2019, 244, 423-430.	3.7	258
2	Waste-derived biochar for water pollution control and sustainable development. <i>Nature Reviews Earth &amp; Environment</i> , 2022, 3, 444-460.	12.2	233
3	Roles of biochar-derived dissolved organic matter in soil amendment and environmental remediation: A critical review. <i>Chemical Engineering Journal</i> , 2021, 424, 130387.	6.6	167
4	Contrasting impacts of pre- and post-application aging of biochar on the immobilization of Cd in contaminated soils. <i>Environmental Pollution</i> , 2018, 242, 1362-1370.	3.7	127
5	Critical impacts of pyrolysis conditions and activation methods on application-oriented production of wood waste-derived biochar. <i>Bioresource Technology</i> , 2021, 341, 125811.	4.8	121
6	Critical Impact of Nitrogen Vacancies in Nonradical Carbocatalysis on Nitrogen-Doped Graphitic Biochar. <i>Environmental Science &amp; Technology</i> , 2021, 55, 7004-7014.	4.6	112
7	One-pot synthesis of nZVI-embedded biochar for remediation of two mining arsenic-contaminated soils: Arsenic immobilization associated with iron transformation. <i>Journal of Hazardous Materials</i> , 2020, 398, 122901.	6.5	109
8	Pyrolysis-temperature depended electron donating and mediating mechanisms of biochar for Cr(VI) reduction. <i>Journal of Hazardous Materials</i> , 2020, 388, 121794.	6.5	103
9	Interaction with low molecular weight organic acids affects the electron shuttling of biochar for Cr(VI) reduction. <i>Journal of Hazardous Materials</i> , 2019, 378, 120705.	6.5	90
10	Kaolinite Enhances the Stability of the Dissolvable and Undissolvable Fractions of Biochar via Different Mechanisms. <i>Environmental Science &amp; Technology</i> , 2018, 52, 8321-8329.	4.6	84
11	Insights into the adsorption of pharmaceuticals and personal care products (PPCPs) on biochar and activated carbon with the aid of machine learning. <i>Journal of Hazardous Materials</i> , 2022, 423, 127060.	6.5	82
12	Contribution of different iron species in the iron-biochar composites to sorption and degradation of two dyes with varying properties. <i>Chemical Engineering Journal</i> , 2020, 389, 124471.	6.6	74
13	Impacts of different activation processes on the carbon stability of biochar for oxidation resistance. <i>Bioresource Technology</i> , 2021, 338, 125555.	4.8	74
14	Electroactive Fe-biochar for redox-related remediation of arsenic and chromium: Distinct redox nature with varying iron/carbon speciation. <i>Journal of Hazardous Materials</i> , 2022, 430, 128479.	6.5	67
15	Facilitated transport of cadmium by biochar-Fe <sub>3</sub> O <sub>4</sub> nanocomposites in water-saturated natural soils. <i>Science of the Total Environment</i> , 2019, 684, 265-275.	3.9	65
16	Roles of the mineral constituents in sludge-derived biochar in persulfate activation for phenol degradation. <i>Journal of Hazardous Materials</i> , 2020, 398, 122861.	6.5	65
17	Unraveling iron speciation on Fe-biochar with distinct arsenic removal mechanisms and depth distributions of As and Fe. <i>Chemical Engineering Journal</i> , 2021, 425, 131489.	6.6	63
18	Two years of aging influences the distribution and lability of metal(loid)s in a contaminated soil amended with different biochars. <i>Science of the Total Environment</i> , 2019, 673, 245-253.	3.9	57

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19	Evolution of redox activity of biochar during interaction with soil minerals: Effect on the electron donating and mediating capacities for Cr(VI) reduction. <i>Journal of Hazardous Materials</i> , 2021, 414, 125483.	6.5	57
20	Machine learning exploration of the direct and indirect roles of Fe impregnation on Cr(VI) removal by engineered biochar. <i>Chemical Engineering Journal</i> , 2022, 428, 131967.	6.6	50
21	Sustainable impact of tartaric acid as electron shuttle on hierarchical iron-incorporated biochar. <i>Chemical Engineering Journal</i> , 2020, 395, 125138.	6.6	46
22	Participation of soil active components in the reduction of Cr(VI) by biochar: Differing effects of iron mineral alone and its combination with organic acid. <i>Journal of Hazardous Materials</i> , 2020, 384, 121455.	6.5	43
23	Redox-induced transformation of potentially toxic elements with organic carbon in soil. , 2022, 1, .		42
24	Stabilization of dissolvable biochar by soil minerals: Release reduction and organo-mineral complexes formation. <i>Journal of Hazardous Materials</i> , 2021, 412, 125213.	6.5	41
25	Direct and Indirect Electron Transfer Routes of Chromium(VI) Reduction with Different Crystalline Ferric Oxyhydroxides in the Presence of Pyrogenic Carbon. <i>Environmental Science &amp; Technology</i> , 2022, 56, 1724-1735.	4.6	40
26	New insights into CO <sub>2</sub> sorption on biochar/Fe oxyhydroxide composites: Kinetics, mechanisms, and in situ characterization. <i>Chemical Engineering Journal</i> , 2020, 384, 123289.	6.6	28
27	Stoichiometric carbocatalysis via epoxide-like C <sup>+</sup> S <sup>+</sup> O configuration on sulfur-doped biochar for environmental remediation. <i>Journal of Hazardous Materials</i> , 2022, 428, 128223.	6.5	25
28	Sorption of reactive red by biochars ball milled in different atmospheres: Co-effect of surface morphology and functional groups. <i>Chemical Engineering Journal</i> , 2021, 413, 127468.	6.6	23
29	Mesoporous ball-milling iron-loaded biochar for enhanced sorption of reactive red: Performance and mechanisms. <i>Environmental Pollution</i> , 2021, 290, 117992.	3.7	21
30	Contrasting effects of dry-wet and freeze-thaw aging on the immobilization of As in As-contaminated soils amended by zero-valent iron-embedded biochar. <i>Journal of Hazardous Materials</i> , 2022, 426, 128123.	6.5	20
31	Synergistic role of bulk carbon and iron minerals inherent in the sludge-derived biochar for As(V) immobilization. <i>Chemical Engineering Journal</i> , 2021, 417, 129183.	6.6	18
32	The shuttling effects and associated mechanisms of different types of iron oxide nanoparticles for Cu(II) reduction by <i>Geobacter sulfurreducens</i> . <i>Journal of Hazardous Materials</i> , 2020, 393, 122390.	6.5	13