

Jingzi Beiyuan

List of Publications by Year in descending order

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49
papers

2,883
citations

172386

29
h-index

182361

51
g-index

51
all docs

51
docs citations

51
times ranked

2274
citing authors

#	ARTICLE	IF	CITATIONS
1	Multifunctional applications of biochar beyond carbon storage. <i>International Materials Reviews</i> , 2022, 67, 150-200.	9.4	245
2	Mobility and phytoavailability of As and Pb in a contaminated soil using pine sawdust biochar under systematic change of redox conditions. <i>Chemosphere</i> , 2017, 178, 110-118.	4.2	231
3	A combination of ferric nitrate/EDDS-enhanced washing and sludge-derived biochar stabilization of metal-contaminated soils. <i>Science of the Total Environment</i> , 2018, 616-617, 572-582.	3.9	146
4	Highly efficient removal of thallium in wastewater by MnFe ₂ O ₄ -biochar composite. <i>Journal of Hazardous Materials</i> , 2021, 401, 123311.	6.5	142
5	Arsenic-containing soil from geogenic source in Hong Kong: Leaching characteristics and stabilization/solidification. <i>Chemosphere</i> , 2017, 182, 31-39.	4.2	117
6	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
7	Legacy of multiple heavy metal(loid)s contamination and ecological risks in farmland soils from a historical artisanal zinc smelting area. <i>Science of the Total Environment</i> , 2020, 720, 137541.	3.9	104
8	Fate of arsenic before and after chemical-enhanced washing of an arsenic-containing soil in Hong Kong. <i>Science of the Total Environment</i> , 2017, 599-600, 679-688.	3.9	96
9	Selective dissolution followed by EDDS washing of an e-waste contaminated soil: Extraction efficiency, fate of residual metals, and impact on soil environment. <i>Chemosphere</i> , 2017, 166, 489-496.	4.2	94
10	Impact of biochar on mobilization, methylation, and ethylation of mercury under dynamic redox conditions in a contaminated floodplain soil. <i>Environment International</i> , 2019, 127, 276-290.	4.8	92
11	Speciation, mobilization, and bioaccessibility of arsenic in geogenic soil profile from Hong Kong. <i>Environmental Pollution</i> , 2018, 232, 375-384.	3.7	83
12	Improvement of alfalfa resistance against Cd stress through rhizobia and arbuscular mycorrhiza fungi co-inoculation in Cd-contaminated soil. <i>Environmental Pollution</i> , 2021, 277, 116758.	3.7	78
13	Pine sawdust biomass and biochars at different pyrolysis temperatures change soil redox processes. <i>Science of the Total Environment</i> , 2018, 625, 147-154.	3.9	75
14	Novel ternary BiOI/g-C ₃ N ₄ /CeO ₂ catalysts for enhanced photocatalytic degradation of tetracycline under visible-light radiation via double charge transfer process. <i>Journal of Alloys and Compounds</i> , 2019, 809, 151804.	2.8	75
15	Emergent thallium exposure from uranium mill tailings. <i>Journal of Hazardous Materials</i> , 2021, 407, 124402.	6.5	71
16	Magnetic bimetallic Fe, Ce-embedded N-enriched porous biochar for peroxymonosulfate activation in metronidazole degradation: Applications, mechanism insight and toxicity evaluation. <i>Chemical Engineering Journal</i> , 2022, 433, 134387.	6.6	71
17	Integrating EDDS-enhanced washing with low-cost stabilization of metal-contaminated soil from an e-waste recycling site. <i>Chemosphere</i> , 2016, 159, 426-432.	4.2	65
18	(Im)mobilization and speciation of lead under dynamic redox conditions in a contaminated soil amended with pine sawdust biochar. <i>Environment International</i> , 2020, 135, 105376.	4.8	63

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19	Phytoremediation of potentially toxic elements (PTEs) contaminated soils using alfalfa (<i>Medicago</i>) Tj ETQq1 1 0.784314 rgBT /Overlook	4.2	63
20	Combined application of EDDS and EDTA for removal of potentially toxic elements under multiple soil washing schemes. <i>Chemosphere</i> , 2018, 205, 178-187.	4.2	62
21	Chelant-enhanced washing of CCA-contaminated soil: Coupled with selective dissolution or soil stabilization. <i>Science of the Total Environment</i> , 2018, 612, 1463-1472.	3.9	60
22	Lignin valorization by bacterial genus <i>Pseudomonas</i> : State-of-the-art review and prospects. <i>Bioresource Technology</i> , 2021, 320, 124412.	4.8	60
23	Microbial insights into the biogeochemical features of thallium occurrence: A case study from polluted river sediments. <i>Science of the Total Environment</i> , 2020, 739, 139957.	3.9	58
24	Effects of low-alkalinity binders on stabilization/solidification of geogenic As-containing soils: Spectroscopic investigation and leaching tests. <i>Science of the Total Environment</i> , 2018, 631-632, 1486-1494.	3.9	51
25	Environmental and health risk assessment of potentially toxic trace elements in soils near uranium (U) mines: A global meta-analysis. <i>Science of the Total Environment</i> , 2022, 816, 151556.	3.9	51
26	New insights into ball milling effects on MgAl-LDHs exfoliation on biochar support: A case study for cadmium adsorption. <i>Journal of Hazardous Materials</i> , 2021, 416, 126258.	6.5	46
27	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
28	Particulate plastics-plant interaction in soil and its implications: A review. <i>Science of the Total Environment</i> , 2021, 792, 148337.	3.9	44
29	Microbial metabolic limitation of rhizosphere under heavy metal stress: Evidence from soil ecoenzymatic stoichiometry. <i>Environmental Pollution</i> , 2022, 300, 118978.	3.7	39
30	Interactions of food waste compost with metals and metal-chelant complexes during soil remediation. <i>Journal of Cleaner Production</i> , 2018, 192, 199-206.	4.6	29
31	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
32	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
33	Dynamic leaching behavior of geogenic As in soils after cement-based stabilization/solidification. <i>Environmental Science and Pollution Research</i> , 2017, 24, 27822-27832.	2.7	26
34	Risk mitigation by waste-based permeable reactive barriers for groundwater pollution control at e-waste recycling sites. <i>Environmental Geochemistry and Health</i> , 2017, 39, 75-88.	1.8	24
35	Sorption, mobility, and bioavailability of PBDEs in the agricultural soils: Roles of co-existing metals, dissolved organic matter, and fertilizers. <i>Science of the Total Environment</i> , 2018, 619-620, 1153-1162.	3.9	23
36	Interactions between methanotrophs and ammonia oxidizers modulate the response of in situ methane emissions to simulated climate change and its legacy in an acidic soil. <i>Science of the Total Environment</i> , 2021, 752, 142225.	3.9	22

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37	Uptake, organ distribution and health risk assessment of potentially toxic elements in crops in abandoned indigenous smelting region. <i>Chemosphere</i> , 2022, 292, 133321.	4.2	22
38	Heavy metal pollution increases soil microbial carbon limitation: Evidence from ecological enzyme stoichiometry. <i>Soil Ecology Letters</i> , 2021, 3, 230-241.	2.4	21
39	Nitrogen of EDDS enhanced removal of potentially toxic elements and attenuated their oxidative stress in a phytoextraction process. <i>Environmental Pollution</i> , 2021, 268, 115719.	3.7	19
40	Facile modification of graphene oxide and its application for the aqueous uranyl ion sequestration: Insights on the mechanism. <i>Chemosphere</i> , 2020, 258, 127152.	4.2	18
41	Thallium and potentially toxic elements distribution in pine needles, tree rings and soils around a pyrite mine and indication for environmental pollution. <i>Science of the Total Environment</i> , 2022, 828, 154346.	3.9	16
42	A critical review of uranium in the soil-plant system: Distribution, bioavailability, toxicity, and bioremediation strategies. <i>Critical Reviews in Environmental Science and Technology</i> , 2023, 53, 340-365.	6.6	16
43	Enhancement of UV-assisted TiO ₂ degradation of ibuprofen using Fenton hybrid process at circumneutral pH. <i>Chinese Journal of Catalysis</i> , 2018, 39, 701-709.	6.9	14
44	Optimizing extraction procedures for better removal of potentially toxic elements during EDTA-assisted soil washing. <i>Journal of Soils and Sediments</i> , 2020, 20, 3417-3426.	1.5	12
45	Effects of thallium exposure on intestinal microbial community and organ functions in zebrafish (<i>Danio rerio</i>). <i>Elementa</i> , 2021, 9, .	1.1	10
46	U(VI) adsorption by green and facilely modified <i>Ficus microcarpa</i> aerial roots: Behavior and mechanism investigation. <i>Science of the Total Environment</i> , 2022, 810, 151166.	3.9	10
47	Preface—Biochar and agricultural sustainability. <i>Journal of Soils and Sediments</i> , 2020, 20, 3015-3016.	1.5	4
48	Perspective on FeO-PS synergetic effect and reaction mechanism in the thallium(I) contaminated water treatment. <i>Environmental Research</i> , 2022, 214, 113698.	3.7	4
49	Effects of modified biochar on As-contaminated water and soil: A recent update. <i>Advances in Chemical Pollution, Environmental Management and Protection</i> , 2021, 7, 107-136.	0.3	2