Zhaohui Guo

List of Publications by Year
in descending order

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74 papers	2,472 citations	172207 29 h-index	233125 45 g-index
79 all docs	79 docs citations	79 times ranked	2225 citing authors

#	Article	IF	Citations
1	Phytoextraction potential of Pteris vittata L. co-planted with woody species for As, Cd, Pb and Zn in contaminated soil. Science of the Total Environment, 2019, 650, 594-603.	3.9	102
2	Identifying sources and transport routes of heavy metals in soil with different land uses around a smelting site by GIS based PCA and PMF. Science of the Total Environment, 2022, 823, 153759.	3.9	99
3	Pollution characteristics and source identification of soil metal(loid)s at an abandoned arsenic-containing mine, China. Journal of Hazardous Materials, 2021, 413, 125382.	6.5	93
4	Atmospheric deposition as a source of cadmium and lead to soil-rice system and associated risk assessment. Ecotoxicology and Environmental Safety, 2019, 180, 160-167.	2.9	80
5	Heavy metal pollution of soils and vegetables in the midstream and downstream of the Xiangjiang River, Hunan Province. Journal of Chinese Geography, 2008, 18, 353-362.	1.5	78
6	Adsorption of vanadium (V) on natural kaolinite and montmorillonite: Characteristics and mechanism. Applied Clay Science, 2018, 161, 310-316.	2.6	77
7	Response of soil microbial activities and microbial community structure to vanadium stress. Ecotoxicology and Environmental Safety, 2017, 142, 200-206.	2.9	76
8	Phytostabilization potential of ornamental plants grown in soil contaminated with cadmium. International Journal of Phytoremediation, 2018, 20, 311-320.	1.7	76
9	Immobilization of cadmium and improvement of bacterial community in contaminated soil following a continuous amendment with lime mixed with fertilizers: A four-season field experiment. Ecotoxicology and Environmental Safety, 2019, 171, 425-434.	2.9	74
10	Growth changes and tissues anatomical characteristics of giant reed (Arundo donax L.) in soil contaminated with arsenic, cadmium and lead. Central South University, 2010, 17, 770-777.	0.5	65
11	Phytostabilisation potential of giant reed for metals contaminated soil modified with complex organic fertiliser and fly ash: A field experiment. Science of the Total Environment, 2017, 576, 292-302.	3.9	63
12	Atmospheric bulk deposition of heavy metal(loid)s in central south China: Fluxes, influencing factors and implication for paddy soils. Journal of Hazardous Materials, 2019, 371, 634-642.	6.5	62
13	Effects of tree-herb co-planting on the bacterial community composition and the relationship between specific microorganisms and enzymatic activities in metal(loid)-contaminated soil. Chemosphere, 2019, 220, 237-248.	4.2	61
14	The bioleaching feasibility for Pb/Zn smelting slag and community characteristics of indigenous moderate-thermophilic bacteria. Bioresource Technology, 2009, 100, 2737-2740.	4.8	59
15	Effects of pH, pulp density and particle size on solubilization of metals from a Pb/Zn smelting slag using indigenous moderate thermophilic bacteria. Hydrometallurgy, 2010, 104, 25-31.	1.8	59
16	Soil vanadium pollution and microbial response characteristics from stone coal smelting district. Transactions of Nonferrous Metals Society of China, 2015, 25, 1271-1278.	1.7	54
17	Physiological stress responses, mineral element uptake and phytoremediation potential of Morus alba L. in cadmium-contaminated soil. Ecotoxicology and Environmental Safety, 2020, 189, 109973.	2.9	54
18	Effect of amendments on growth and metal uptake of giant reed (Arundo donax L.) grown on soil contaminated by arsenic, cadmium and lead. Transactions of Nonferrous Metals Society of China, 2012, 22, 1462-1469.	1.7	53

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19	Polycyclic aromatic hydrocarbons in urban soils of China: Distribution, influencing factors, health risk and regression prediction. Environmental Pollution, 2019, 254, 112930.	3.7	49
20	Optimization of brine leaching of metals from hydrometallurgical residue. Transactions of Nonferrous Metals Society of China, 2010, 20, 2000-2005.	1.7	47
21	Heavy metal impact on bacterial biomass based on DNA analyses and uptake by wild plants in the abandoned copper mine soils. Bioresource Technology, 2009, 100, 3831-3836.	4.8	45
22	Release of cadmium in contaminated paddy soil amended with NPK fertilizer and lime under water management. Ecotoxicology and Environmental Safety, 2018, 159, 38-45.	2.9	45
23	Dynamic response of enzymatic activity and microbial community structure in metal(loid)-contaminated soil with tree-herb intercropping. Geoderma, 2019, 345, 5-16.	2.3	45
24	Effect of rare earth oxides doping on MgAl2O4 spinel obtained by sintering of secondary aluminium dross. Journal of Alloys and Compounds, 2018, 735, 2597-2603.	2.8	43
25	Adsorption-pyrolysis technology for recovering heavy metals in solution using contaminated biomass phytoremediation. Resources, Conservation and Recycling, 2018, 129, 20-26.	5.3	41
26	Soil heavy metal contamination and acid deposition: experimental approach on two forest soils in Hunan, Southern China. Geoderma, 2005, 127, 91-103.	2.3	36
27	Simultaneous mitigation of tissue cadmium and lead accumulation in rice via sulfate-reducing bacterium. Ecotoxicology and Environmental Safety, 2019, 169, 292-300.	2.9	35
28	Chelator-assisted phytoextraction of arsenic, cadmium and lead by Pteris vittata L. and soil microbial community structure response. International Journal of Phytoremediation, 2019, 21, 1032-1040.	1.7	34
29	Complementarity of co-planting a hyperaccumulator with three metal(loid)-tolerant species for metal(loid)-contaminated soil remediation. Ecotoxicology and Environmental Safety, 2019, 169, 306-315.	2.9	33
30	Feasibility of aluminum recovery and MgAl2O4 spinel synthesis from secondary aluminum dross. International Journal of Minerals, Metallurgy and Materials, 2019, 26, 309-318.	2.4	31
31	Effect of simulated acid rain on leaching and transformation of vanadium in paddy soils from stone coal smelting area. Chemical Engineering Research and Design, 2017, 109, 697-703.	2.7	29
32	Effects of mixed amendments on the phytoavailability of Cd in contaminated paddy soil under a rice-rape rotation system. Environmental Science and Pollution Research, 2019, 26, 14128-14136.	2.7	29
33	Physiological, anatomical, and transcriptional responses of mulberry (Morus alba L.) to Cd stress in contaminated soil. Environmental Pollution, 2021, 284, 117387.	3.7	27
34	Modelling mass balance of cadmium in paddy soils under long term control scenarios. Environmental Sciences: Processes and Impacts, 2018, 20, 1158-1166.	1.7	26
35	Feasibility of anaerobic digestion for contaminated rice straw inoculated with waste activated sludge. Bioresource Technology, 2018, 266, 45-50.	4.8	26
36	Stabilization of heavy metals in biochar pyrolyzed from phytoremediated giant reed (Arundo donax) biomass. Transactions of Nonferrous Metals Society of China, 2017, 27, 656-665.	1.7	25

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37	Co-application of indole-3-acetic acid/gibberellin and oxalic acid for phytoextraction of cadmium and lead with Sedum alfredii Hance from contaminated soil. Chemosphere, 2021, 285, 131420.	4.2	24
38	Response to cadmium and phytostabilization potential of Platycladus orientalis in contaminated soil. International Journal of Phytoremediation, 2018, 20, 1337-1345.	1.7	23
39	Physiological responses of Morus alba L. in heavy metal(loid)â€“contaminated soil and its associated improvement of the microbial diversity. Environmental Science and Pollution Research, 2020, 27, 4294-4308.	2.7	23
40	Environmental availability and profile characteristics of arsenic, cadmium, lead and zinc in metal-contaminated vegetable soils. Transactions of Nonferrous Metals Society of China, 2009, 19, 765-772.	1.7	22
41	Geochemistry and ecological risk of metal(loid)s in overbank sediments near an abandoned lead/zinc mine in Central South China. Environmental Earth Sciences, 2018, 77, 1.	1.3	22
42	Feasibility of anaerobic digestion on the release of biogas and heavy metals from rice straw pretreated with sodium hydroxide. Environmental Science and Pollution Research, 2019, 26, 19434-19444.	2.7	22
43	Pyrolysis Characteristics of Biomass Impregnated with Cadmium, Copper and Lead: Influence and Distribution. Waste and Biomass Valorization, 2018, 9, 1223-1230.	1.8	21
44	Cleanup of arsenic, cadmium, and lead in the soil from a smelting site using N,N-bis(carboxymethyl)-L-glutamic acid combined with ascorbic acid: A lab-scale experiment. Journal of Environmental Management, 2021, 296, 113174.	3.8	21
45	Effect of inorganic potassium compounds on the hydrothermal carbonization of Cd-contaminated rice straw for experimental-scale hydrochar. Biomass and Bioenergy, 2019, 130, 105357.	2.9	20
46	Defluorination of spent pot lining from aluminum electrolysis using acidic iron-containing solution. Hydrometallurgy, 2020, 194, 105319.	1.8	20
47	Removal of cadmium, lead, and zinc from multi-metalâ€“contaminated soil using chelate-assisted Sedum alfredii Hance. Environmental Science and Pollution Research, 2019, 26, 28319-28327.	2.7	19
48	Spatial distribution and environmental characterization of sediment-associated metals from middle-downstream of Xiangjiang River, southern China. Central South University, 2010, 17, 68-78.	0.5	18
49	Optimizing pyrolysis temperature of contaminated rice straw biochar: Heavy metal(loid) deportment, properties evolution, and Pb adsorption/immobilization. Journal of Saudi Chemical Society, 2022, 26, 101439.	2.4	18
50	Permissible Value for Vanadium in Allitic Udic Ferrisols Based on Physiological Responses of Green Chinese Cabbage and Soil Microbes. Biological Trace Element Research, 2012, 145, 225-232.	1.9	17
51	Effects of AlN hydrolysis on fractal geometry characteristics of residue from secondary aluminium dross using response surface methodology. Transactions of Nonferrous Metals Society of China, 2018, 28, 2574-2581.	1.7	17
52	Identification of indicators of giant reed (Arundo donax L.) ecotypes for phytoremediation of metal-contaminated soil in a non-ferrous mining and smelting area in southern China. Ecological Indicators, 2019, 101, 249-260.	2.6	17
53	Changes in chemical fractions and ecological risk prediction of heavy metals in estuarine sediments of Chunfeng Lake estuary, China. Marine Pollution Bulletin, 2019, 138, 575-583.	2.3	17
54	A dynamic model to evaluate the critical loads of heavy metals in agricultural soil. Ecotoxicology and Environmental Safety, 2020, 197, 110607.	2.9	16

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55	Potential of Pyrolysis for the Recovery of Heavy Metals and Bioenergy from Contaminated Broussonetia papyrifera Biomass. BioResources, 2018, 13, .	0.5	15
56	Effect of Liming with Various Water Regimes on Both Immobilization of Cadmium and Improvement of Bacterial Communities in Contaminated Paddy: A Field Experiment. International Journal of Environmental Research and Public Health, 2019, 16, 498.	1.2	15
57	Characteristics and behaviour of vanadium(V) adsorption on goethite and birnessite. Environmental Earth Sciences, 2020, 79, 1.	1.3	15
58	Extraction of lead from electrolytic manganese anode mud by microwave coupled ultrasound technology. Journal of Hazardous Materials, 2021, 407, 124622.	6.5	14
59	Effects of Acid Rain on Competitive Releases of Cd, Cu, and Zn from Two Natural Soils and Two Contaminated Soils in Hunan, China. Water, Air and Soil Pollution, 2007, 7, 151-161.	0.8	13
60	Extraction of Cd and Pb from contaminated-paddy soil with EDTA, DTPA, citric acid and FeCl3 and effects on soil fertility. Journal of Central South University, 2019, 26, 2987-2997.	1.2	13
61	Facilitation of Morus alba L. intercropped with Sedum alfredii H. and Arundo donax L. on soil contaminated with potentially toxic metals. Chemosphere, 2022, 290, 133107.	4.2	13
62	Mobility and speciation of Cd, Cu, and Zn in two acidic soils affected by simulated acid rain. Journal of Environmental Sciences, 2005, 17, 332-4.	3.2	13
63	Extraction of metals from a zinc smelting slag using two-step procedure combining acid and ethylene diaminetetraacetic acid disodium. Journal of Central South University, 2012, 19, 1808-1812.	1.2	9
64	Tolerance capacities of Broussonetia papyrifera to heavy metal(loid)s and its phytoremediation potential of the contaminated soil. International Journal of Phytoremediation, 2022, 24, 580-589.	1.7	9
65	Effect of Antimony on Physiological Responses of Green Chinese Cabbage and Enzyme Activities of Allitic Udic Ferrisols. Pedosphere, 2015, 25, 124-129.	2.1	8
66	Spatiotemporal Variation and Pollution Assessment of Pb/Zn from Smelting Activities in China. International Journal of Environmental Research and Public Health, 2020, 17, 1968.	1.2	8
67	Leaching potential and changes in components of metals in two acidic ferrisols. Central South University, 2006, 13, 631-636.	0.5	6
68	Effect of moderately thermophilic bacteria on metal extraction and electrochemical characteristics for zinc smelting slag in bioleaching system. Transactions of Nonferrous Metals Society of China, 2012, 22, 3120-3125.	1.7	6
69	Liquefaction of metal-contaminated giant reed biomass in acidified ethylene glycol system: Batch experiments. Journal of Central South University, 2014, 21, 1756-1762.	1.2	5
70	Effects of combined soil amendments on Cd accumulation, translocation and food safety in rice: a field study in southern China. Environmental Geochemistry and Health, 2022, 44, 2451-2463.	1.8	5
71	Adsorption of Cd on Soils with Various Particle Sizes from an Abandoned Non-ferrous Smelting Site: Characteristics and Mechanism. Bulletin of Environmental Contamination and Toxicology, 2022, 109, 630-635.	1.3	5
72	Impacts of a Compound Amendment on Cd Immobilization, Enzyme Activities and Crop Uptake in Acidic Cd-Contaminated Paddy Soils. Bulletin of Environmental Contamination and Toxicology, 2018, 101, 243-249.	1.3	4

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73	Physiological responses, tolerance efficiency, and phytoextraction potential of Hylotelephium spectabile (Boreau) H. Ohba under Cd stress in hydroponic condition. International Journal of Phytoremediation, 2021, 23, 80-88.	1.7	4
74	Effects of Acid Rain on Competitive Releases of Cd, Cu, and Zn from Two Natural Soils and Two Contaminated Soils in Hunan, China. , 2007, , 151-161.		1