

Hua Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

3,186
citations

136950

32
h-index

175258

52
g-index

54
all docs

54
docs citations

54
times ranked

3433
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient removal of Cd(II) from aqueous environment by potassium permanganate-modified eucalyptus biochar. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 77-89.	4.6	7
2	Understanding the translocation and bioaccumulation of cadmium in the Enshi seleniferous area, China: Possible impact by the interaction of Se and Cd. <i>Environmental Pollution</i> , 2022, 300, 118927.	7.5	16
3	Recent progress in Fenton/Fenton-like reactions for the removal of antibiotics in aqueous environments. <i>Ecotoxicology and Environmental Safety</i> , 2022, 236, 113464.	6.0	74
4	Chromium contamination in paddy soil-rice systems and associated human health risks in Pakistan. <i>Science of the Total Environment</i> , 2022, 826, 153910.	8.0	20
5	Mercury pollution in China: implications on the implementation of the Minamata Convention. <i>Environmental Sciences: Processes and Impacts</i> , 2022, 24, 634-648.	3.5	21
6	Insights into the mechanisms of arsenic-selenium interactions and the associated toxicity in plants, animals, and humans: A critical review. <i>Critical Reviews in Environmental Science and Technology</i> , 2021, 51, 704-750.	12.8	43
7	Hydrogeochemical and health risk evaluation of arsenic in shallow and deep aquifers along the different floodplains of Punjab, Pakistan. <i>Journal of Hazardous Materials</i> , 2021, 402, 124074.	12.4	46
8	Exogenous selenium (cadmium) inhibits the absorption and transportation of cadmium (selenium) in rice. <i>Environmental Pollution</i> , 2021, 268, 115829.	7.5	34
9	Paper-based nanosensors to evaluate community-wide illicit drug use for wastewater-based epidemiology. <i>Water Research</i> , 2021, 189, 116559.	11.3	33
10	Understanding the Bioaccumulation of Mercury in Rice Plants at the Wanshan Mercury Mine, China: Using Stable Mercury Isotopes. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006103.	3.0	2
11	Biosensors for wastewater-based epidemiology for monitoring public health. <i>Water Research</i> , 2021, 191, 116787.	11.3	45
12	A Hydroponic Study on Effect of Zinc Against Mercury Uptake by Triticale: Kinetic Process and Accumulation. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2021, , 1.	2.7	1
13	Arsenic biogeochemical cycling in paddy soil-rice system: Interaction with various factors, amendments and mineral nutrients. <i>Science of the Total Environment</i> , 2021, 773, 145040.	8.0	100
14	Occurrence of various viruses and recent evidence of SARS-CoV-2 in wastewater systems. <i>Journal of Hazardous Materials</i> , 2021, 414, 125439.	12.4	44
15	Rolling Circle Amplification as an Efficient Analytical Tool for Rapid Detection of Contaminants in Aqueous Environments. <i>Biosensors</i> , 2021, 11, 352.	4.7	17
16	Efficient performance of magnesium oxide loaded biochar for the significant removal of Pb ²⁺ and Cd ²⁺ from aqueous solution. <i>Ecotoxicology and Environmental Safety</i> , 2021, 221, 112426.	6.0	51
17	A new method of predicting the contribution of TGM to Hg in white rice: Using leaf THg and implications for Hg risk control in Wanshan Hg mine area. <i>Environmental Pollution</i> , 2021, 288, 117727.	7.5	2
18	Nanomaterial-based aptamer sensors for arsenic detection. <i>Biosensors and Bioelectronics</i> , 2020, 148, 111785.	10.1	100

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19	Mitigation of mercury accumulation in rice using rice hull-derived biochar as soil amendment: A field investigation. <i>Journal of Hazardous Materials</i> , 2020, 388, 121747.	12.4	64
20	An integrated biosensor system with mobile health and wastewater-based epidemiology (iBMW) for COVID-19 pandemic. <i>Biosensors and Bioelectronics</i> , 2020, 169, 112617.	10.1	47
21	Describing the toxicity and sources and the remediation technologies for mercury-contaminated soil. <i>RSC Advances</i> , 2020, 10, 23221-23232.	3.6	56
22	Methanogenesis Is an Important Process in Controlling MeHg Concentration in Rice Paddy Soils Affected by Mining Activities. <i>Environmental Science & Technology</i> , 2020, 54, 13517-13526.	10.0	43
23	The potential of wastewater-based epidemiology as surveillance and early warning of infectious disease outbreaks. <i>Current Opinion in Environmental Science and Health</i> , 2020, 17, 1-7.	4.1	147
24	Efficient removal of Cd(II) from aqueous solution by pinecone biochar: Sorption performance and governing mechanisms. <i>Environmental Pollution</i> , 2020, 265, 115001.	7.5	83
25	Paper-based microfluidics for rapid diagnostics and drug delivery. <i>Journal of Controlled Release</i> , 2020, 322, 187-199.	9.9	53
26	Can a Paper-Based Device Trace COVID-19 Sources with Wastewater-Based Epidemiology?. <i>Environmental Science & Technology</i> , 2020, 54, 3733-3735.	10.0	160
27	Nanomaterial-based aptamer sensors for analysis of illicit drugs and evaluation of drugs consumption for wastewater-based epidemiology. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 130, 115975.	11.4	30
28	Bioaccumulation of Hg in Rice Leaf Facilitates Selenium Bioaccumulation in Rice (<i>Oryza sativa</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	10.0	31
29	Comprehensive review of the basic chemical behaviours, sources, processes, and endpoints of trace element contamination in paddy soil-rice systems in rice-growing countries. <i>Journal of Hazardous Materials</i> , 2020, 397, 122720.	12.4	127
30	A comprehensive review on current status, mechanism, and possible sources of arsenic contamination in groundwater: a global perspective with prominence of Pakistan scenario. <i>Environmental Geochemistry and Health</i> , 2019, 41, 737-760.	3.4	108
31	Corn (<i>Zea mays</i> L.): A low methylmercury staple cereal source and an important biospheric sink of atmospheric mercury, and health risk assessment. <i>Environment International</i> , 2019, 131, 104971.	10.0	22
32	Assessing Air-Surface Exchange and Fate of Mercury in a Subtropical Forest Using a Novel Passive Exchange-Meter Device. <i>Environmental Science & Technology</i> , 2019, 53, 4869-4879.	10.0	6
33	Bioaccumulation and Health Risk Assessment of Heavy Metals in the Soil-Rice System in a Typical Seleniferous Area in Central China. <i>Environmental Toxicology and Chemistry</i> , 2019, 38, 1577-1584.	4.3	41
34	Unraveling prevalence and public health risks of arsenic, uranium and co-occurring trace metals in groundwater along riverine ecosystem in Sindh and Punjab, Pakistan. <i>Environmental Geochemistry and Health</i> , 2019, 41, 2223-2238.	3.4	36
35	Elucidating various geochemical mechanisms drive fluoride contamination in unconfined aquifers along the major rivers in Sindh and Punjab, Pakistan. <i>Environmental Pollution</i> , 2019, 249, 535-549.	7.5	34
36	A Review on the Status of Mercury Pollution in Pakistan: Sources and Impacts. <i>Archives of Environmental Contamination and Toxicology</i> , 2019, 76, 519-527.	4.1	11

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37	Selenium translocation in the soil-rice system in the Enshi seleniferous area, Central China. <i>Science of the Total Environment</i> , 2019, 669, 83-90.	8.0	62
38	Spectral insight into thiosulfate-induced mercury speciation transformation in a historically polluted soil. <i>Science of the Total Environment</i> , 2019, 657, 938-944.	8.0	14
39	Photochemical synthesis of ZnO@Au nanorods as an advanced reusable SERS substrate for ultrasensitive detection of light-resistant organic pollutant in wastewater. <i>Talanta</i> , 2019, 194, 680-688.	5.5	47
40	Vertical mixing with return irrigation water the cause of arsenic enrichment in groundwater of district Larkana Sindh, Pakistan. <i>Environmental Pollution</i> , 2019, 245, 77-88.	7.5	47
41	Potentially toxic elements in soil of the Khyber Pakhtunkhwa province and Tribal areas, Pakistan: evaluation for human and ecological risk assessment. <i>Environmental Geochemistry and Health</i> , 2018, 40, 2177-2190.	3.4	52
42	Heavy Metal Bioaccumulation in Rice from a High Geological Background Area in Guizhou Province, China. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 2281.	2.6	62
43	Health risks of heavy metal exposure through vegetable consumption near a large-scale Pb/Zn smelter in central China. <i>Ecotoxicology and Environmental Safety</i> , 2018, 161, 99-110.	6.0	114
44	Minamata Convention on Mercury: Chinese progress and perspectives. <i>National Science Review</i> , 2017, 4, 677-679.	9.5	13
45	Contaminations, Sources, and Health Risks of Trace Metal(loid)s in Street Dust of a Small City Impacted by Artisanal Zn Smelting Activities. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 961.	2.6	21
46	Effect of Atmospheric Mercury Deposition on Selenium Accumulation in Rice (<i>Oryza sativa</i> L.) at a Mercury Mining Region in Southwestern China. <i>Environmental Science & Technology</i> , 2015, 49, 3540-3547.	10.0	17
47	Understanding the paradox of selenium contamination in mercury mining areas: High soil content and low accumulation in rice. <i>Environmental Pollution</i> , 2014, 188, 27-36.	7.5	52
48	Impacts of Selenium on the Biogeochemical Cycles of Mercury in Terrestrial Ecosystems in Mercury Mining Areas. <i>Springer Theses</i> , 2014, , .	0.1	2
49	Atmospheric mercury inputs in montane soils increase with elevation: evidence from mercury isotope signatures. <i>Scientific Reports</i> , 2013, 3, 3322.	3.3	126
50	Selenium in Soil Inhibits Mercury Uptake and Translocation in Rice (<i>Oryza sativa</i> L.). <i>Environmental Science & Technology</i> , 2012, 46, 10040-10046.	10.0	126
51	In Inland China, Rice, Rather than Fish, Is the Major Pathway for Methylmercury Exposure. <i>Environmental Health Perspectives</i> , 2010, 118, 1183-1188.	6.0	412
52	Bioaccumulation of Methylmercury versus Inorganic Mercury in Rice (<i>Oryza sativa</i> L.) Grain. <i>Environmental Science & Technology</i> , 2010, 44, 4499-4504.	10.0	260