Occurrence and Partitioning of Cadmium, Arsenic and L
Hunan, China

Environmental Science & Technology

43, 637-642

DOI: 10.1021/es802412r

Citation Report

#	Article	IF	Citations
1	Selenium Characterization in the Global Rice Supply Chain. Environmental Science & Technology, 2009, 43, 6024-6030.	4.6	191
2	Speciation and distribution of arsenic and localization of nutrients in rice grains. New Phytologist, 2009, 184, 193-201.	3.5	226
3	Environmental and Genetic Control of Arsenic Accumulation and Speciation in Rice Grain: Comparing a Range of Common Cultivars Grown in Contaminated Sites Across Bangladesh, China, and India. Environmental Science & Technology, 2009, 43, 8381-8386.	4.6	146
4	Arsenic accumulation and phosphorus status in two rice (Oryza sativa L.) cultivars surveyed from fields in South China. Environmental Pollution, 2010, 158, 1536-1541.	3.7	71
5	Distribution and Translocation of Selenium from Soil to Grain and Its Speciation in Paddy Rice (Oryza sativa L.). Environmental Science & Technology, 2010, 44, 6706-6711.	4.6	105
6	Transfer of cadmium and lead from soil to mangoes in an uncontaminated area, Hainan Island, China. Geoderma, 2010, 155, 115-120.	2.3	58
7	Use of the BCR sequential extraction procedure for the study of metal availability to plants. Journal of Environmental Monitoring, 2010, 12, 466-471.	2.1	68
8	Understanding and Harnessing the Health Effects of Rapid Urbanization in China. Environmental Science & Technology, 2011, 45, 5099-5104.	4.6	139
9	Arsenic accumulation and speciation in rice are affected by root aeration and variation of genotypes. Journal of Experimental Botany, 2011, 62, 2889-2898.	2.4	135
10	Genetically engineered bacteria: An emerging tool for environmental remediation and future research perspectives. Gene, 2011, 480, 1-9.	1.0	239
11	Inorganic arsenic in Chinese food and its cancer risk. Environment International, 2011, 37, 1219-1225.	4.8	328
12	Spatial distribution of arsenic and temporal variation of its concentration in rice. New Phytologist, 2011, 189, 200-209.	3.5	121
13	Arsenic removal from contaminated soil via biovolatilization by genetically engineered bacteria under laboratory conditions. Journal of Environmental Sciences, 2011, 23, 1544-1550.	3.2	142
14	Cadmium accumulation in and tolerance of rice (Oryza sativa L.) varieties with different rates of radial oxygen loss. Environmental Pollution, 2011, 159, 1730-1736.	3.7	104
15	Occurrence of arsenic in brown rice and its relationship to soil properties from Hainan Island, China. Environmental Pollution, 2011, 159, 1757-1762.	3.7	67
16	Using stable lead isotopes to trace heavy metal contamination sources in sediments of Xiangjiang and Lishui Rivers in China. Environmental Pollution, 2011, 159, 3406-3410.	3.7	75
17	The timing of grain Cd accumulation in rice plants: the relative importance of remobilisation within the plant and root Cd uptake post-flowering. Plant and Soil, 2011, 347, 105-114.	1.8	129
18	Arsenic, cadmium, and lead pollution and uptake by rice (Oryza sativa L.) grown in greenhouse. Journal of Soils and Sediments, 2011, 11, 115-123.	1.5	40

#	Article	IF	Citations
19	Metal ion separation and recovery from environmental sources using various flotation and sorption techniques. Journal of Chemical Technology and Biotechnology, 2011, 86, 335-344.	1.6	103
21	Evaluation of in Situ DGT Measurements for Predicting the Concentration of Cd in Chinese Field-Cultivated Rice: Impact of Soil Cd:Zn Ratios. Environmental Science & Technology, 2012, 46, 8009-8016.	4.6	73
22	Rhizobiumâ€“Legume Symbiosis: A Model System for the Recovery of Metal-Contaminated Agricultural Land. , 2012, , 115-127.		6
23	Identification of rice cultivars with low brown rice mixed cadmium and lead contents and their interactions with the micronutrients iron, zinc, nickel and manganese. Journal of Environmental Sciences, 2012, 24, 1790-1798.	3.2	51
24	Iron oxidation-reduction and its impacts on cadmium bioavailability in paddy soils: a review. Frontiers of Environmental Science and Engineering, 2012, 6, 509-517.	3.3	105
25	Accumulation and translocation of heavy metals in the canola (Brassica napus L.)â€"soil system in Yangtze River Delta, China. Plant and Soil, 2012, 353, 33-45.	1.8	50
26	Influence of N deficiency and salinity on metal (Pb, Zn and Cu) accumulation and tolerance by Rhizophora stylosa in relation to root anatomy and permeability. Environmental Pollution, 2012, 164, 110-117.	3.7	39
27	Occurrence, speciation and bioaccessibility of lead in Chinese rural household dust and the associated health risk to children. Atmospheric Environment, 2012, 46, 65-70.	1.9	47
28	Identification of quantitative trait loci for rice grain element composition on an arsenic impacted soil: Influence of flowering time on genetic loci. Annals of Applied Biology, 2012, 161, 46-56.	1.3	49
29	Adsorption and desorption characteristics of arsenic onto ceria nanoparticles. Nanoscale Research Letters, 2012, 7, 84.	3.1	60
30	An arsenic-contaminated field trial to assess the uptake and translocation of arsenic by genotypes of rice. Environmental Geochemistry and Health, 2013, 35, 379-390.	1.8	26
31	Examination of the role of iron deficiency response in the accumulation of Cd by rice grown in paddy soil with variable irrigation regimes. Plant and Soil, 2013, 371, 219-236.	1.8	11
32	Affects of mining activities on Cd pollution to the paddy soils and rice grain in Hunan province, Central South China. Environmental Monitoring and Assessment, 2013, 185, 9843-9856.	1.3	161
33	Arsenic volatilization in model anaerobic biogas digesters. Applied Geochemistry, 2013, 33, 294-297.	1.4	40
34	Arsenic-tolerant, arsenite-oxidising bacterial strains in the contaminated soils of West Bengal, India. Science of the Total Environment, 2013, 463-464, 1006-1014.	3.9	72
35	Water management affects arsenic and cadmium accumulation in different rice cultivars. Environmental Geochemistry and Health, 2013, 35, 767-778.	1.8	150
36	In vitro digestion/Caco-2 cell model to estimate cadmium and lead bioaccessibility/bioavailability in two vegetables: The influence of cooking and additives. Food and Chemical Toxicology, 2013, 59, 215-221.	1.8	91
37	Efficacy of indigenous soil microbes in arsenic mitigation from contaminated alluvial soil of India. Environmental Science and Pollution Research, 2013, 20, 5645-5653.	2.7	26

#	Article	IF	Citations
38	A simplified analysis of dimethylarsinic acid by wavelength dispersive X-ray fluorescence spectrometry combined with a strong cation exchange disk. Journal of Hazardous Materials, 2013, 260, 24-31.	6.5	12
39	Current status of heavy metal contamination in Asiaâ€™s rice lands. Reviews in Environmental Science and Biotechnology, 2013, 12, 355-377.	3.9	99
40	Sewage Sludge Biochar Influence upon Rice (Oryza sativaL) Yield, Metal Bioaccumulation and Greenhouse Gas Emissions from Acidic Paddy Soil. Environmental Science & Technology, 2013, 47, 8624-8632.	4.6	413
41	All the Lead in China. Critical Reviews in Environmental Science and Technology, 2013, 43, 1869-1944.	6.6	60
42	Agglomerative hierarchical clustering analysis of twenty-six rice samples analysed by instrumental neutron activation analysis and other techniques. Journal of Radioanalytical and Nuclear Chemistry, 2013, 297, 233-239.	0.7	9
43	Survey of total mercury and arsenic content in infant cereals marketed in Spain and estimated dietary intake. Food Control, 2013, 30, 423-432.	2.8	39
44	Application of Microbial Biosensors to Complement Geochemical Characterisation: a Case Study in Northern China. Water, Air, and Soil Pollution, 2013, 224, 1.	1.1	2
45	Profiling the ionome of rice and its use in discriminating geographical origins at the regional scale, China. Journal of Environmental Sciences, 2013, 25, 144-154.	3.2	44
46	Biogas slurry application elevated arsenic accumulation in rice plant through increased arsenic release and methylation in paddy soil. Plant and Soil, 2013, 365, 387-396.	1.8	29
47	Variation in Rice Cadmium Related to Human Exposure. Environmental Science & Technology, 2013, 47, 5613-5618.	4.6	365
48	Arsenic Speciation and Localization in Horticultural Produce Grown in a Historically Impacted Mining Region. Environmental Science & Technology, 2013, 47, 6164-6172.	4.6	29
49	Influence of E-Waste Dismantling and Its Regulations: Temporal Trend, Spatial Distribution of Heavy Metals in Rice Grains, and Its Potential Health Risk. Environmental Science & Technology, 2013, 47, 7437-7445.	4.6	125
50	Adsorption and Desorption Characteristics of Arsenic on Soils: Kinetics, Equilibrium, and Effect of Fe(OH)3 Colloid, H2SiO3 Colloid and Phosphate. Procedia Environmental Sciences, 2013, 18, 26-36.	1.3	78
51	Effect of water management on cadmium and arsenic accumulation by rice (Oryza sativa L.) with different metal accumulation capacities. Journal of Soils and Sediments, 2013, 13, 916-924.	1.5	100
52	Dynamic changes in radial oxygen loss and iron plaque formation and their effects on Cd and As accumulation in rice (Oryza sativa L.). Environmental Geochemistry and Health, 2013, 35, 779-788.	1.8	44
53	Open-pit coal-mining effects on rice paddy soil composition and metal bioavailability to Oryza sativa L. plants in Cam Pha, northeastern Vietnam. Environmental Science and Pollution Research, 2013, 20, 7686-7698.	2.7	15
54	CADMIUM ACCUMULATION IN THE ROOTLESS MACROPHYTE WOLFFIA GLOBOSA AND ITS POTENTIAL FOR PHYTOREMEDIATION. International Journal of Phytoremediation, 2013, 15, 385-397.	1.7	37
55	Redox-Controlled Changes in Cadmium Solubility and Solid-Phase Speciation in a Paddy Soil As Affected by Reducible Sulfate and Copper. Environmental Science & Technology, 2013, 47, 12775-12783.	4.6	222

#	Article	IF	Citations
56	Bamboo Juiceâ€"Enhanced Desorption of Heavy Metals from Soil. Journal of Hazardous, Toxic, and Radioactive Waste, 2013, 17, 45-51.	1.2	1
57	Ecological Risk Assessment of Heavy Metals in Surface Sediments of Six Major Chinese Freshwater Lakes. Journal of Environmental Quality, 2013, 42, 341-350.	1.0	70
58	Mechanisms Controlling Arsenic Uptake in Rice Grown in Mining Impacted Regions in South China. PLoS ONE, 2014, 9, e108300.	1.1	22
59	Transfer of Cadmium from Soil to Vegetable in the Pearl River Delta area, South China. PLoS ONE, 2014, 9, e108572.	1.1	24
60	Comparison of the Concentrations of Metal Elements and Isotopes of Lead Found in Rice and Rice Bran. Journal of Food Protection, 2014, 77, 1424-1427.	0.8	2
61	Accumulation of mercury and cadmium in rice from paddy soil near a mercury mine. Environmental Toxicology and Chemistry, 2014, 33, 2438-2447.	2.2	35
62	Impact Assessment of Cadmium Toxicity and Its Bioavailability in Human Cell Lines (Caco-2 and HL-7702). BioMed Research International, 2014, 2014, 1-8.	0.9	36
63	Arsenic dynamics in the rhizosphere and its sequestration on rice roots as affected by root oxidation. Journal of Environmental Sciences, 2014, 26, 892-899.	3.2	63
64	Does radial oxygen loss and iron plaque formation on roots alter Cd and Pb uptake and distribution in rice plant tissues?. Plant and Soil, 2014, 375, 137-148.	1.8	131
65	Application of biochar to soil reduces cancer risk via rice consumption: A case study in Miaoqian village, Longyan, China. Environment International, 2014, 68, 154-161.	4.8	156
66	The effects of prenatal exposure to low-level cadmium, lead and selenium on birth outcomes. Chemosphere, 2014, 108, 33-39.	4.2	105
67	Positive regulation of rice RING E3 ligase OsHIR1 in arsenic and cadmium uptakes. Plant Molecular Biology, 2014, 85, 365-379.	2.0	56
68	Lead in rice: Analysis of baseline lead levels in market and field collected rice grains. Science of the Total Environment, 2014, 485-486, 428-434.	3.9	78
69	Characterization of <scp>OsLCT1</scp>, a cadmium transporter from indica rice (Oryza) Tj ETQq1 1 0.784314 rgBT /Overlock	2.6	87
70	Occurrence of arsenic in fruit of mango plant (Mangifera indica L.) and its relationship to soil properties. Catena, 2014, 113, 213-218.	2.2	11
71	Genetically engineered organisms for bioremediation of pollutants in contaminated sites. Science Bulletin, 2014, 59, 703-714.	1.7	65
72	Rice cadmium monitoring using heat-extraction electrothermal atomic absorption spectrometry. Journal of Analytical Atomic Spectrometry, 2014, 29, 1949-1954.	1.6	11
73	Annual input fluxes of heavy metals in agricultural soil of Hainan Island, China. Environmental Science and Pollution Research, 2014, 21, 7876-7885.	2.7	50

#	Article	IF	Citations
74	Spatially Nonstationary Relationships between Copper Accumulation in Rice Grain and Some Related Soil Properties in Paddy Fields at a Regional Scale. Soil Science Society of America Journal, 2014, 78, 1765-1774.	1.2	20
75	Recent advances in phytoremediation of arsenic-contaminated soils. Arsenic in the Environment, 2014, , 69-86.	0.0	1
76	Biochar amendment to leadâ€contaminated soil: Effects on fluorescein diacetate hydrolytic activity and phytotoxicity to rice. Environmental Toxicology and Chemistry, 2015, 34, 1962-1968.	2.2	12
77	Change of water sources reduces health risks from heavy metals via ingestion of water, soil, and rice in a riverine area, South China. Science of the Total Environment, 2015, 530-531, 163-170.	3.9	60
78	Effects of water management on arsenic and cadmium speciation and accumulation in an upland rice cultivar. Journal of Environmental Sciences, 2015, 27, 225-231.	3.2	115
79	Efficiency and mechanisms of Cd removal from aqueous solution by biochar derived from water hyacinth (Eichornia crassipes). Journal of Environmental Management, 2015, 153, 68-73.	3.8	258
80	Assessment of exposure to heavy metals and health risks among residents near Tonglushan mine in Hubei, China. Chemosphere, 2015, 127, 127-135.	4.2	169
81	Recent advances in arsenic bioavailability, transport, and speciation in rice. Environmental Science and Pollution Research, 2015, 22, 5742-5750.	2.7	71
82	Letter to the editor. Food and Chemical Toxicology, 2015, 80, 346-348.	1.8	0
83	Impacts of soil and water pollution on food safety and health risks in China. Environment International, 2015, 77, 5-15.	4.8	804
84	Heavy metal pollution and potential health risk assessment of white rice around mine areas in Hunan Province, China. Food Security, 2015, 7, 45-54.	2.4	122
85	Concentrations of toxic metals and ecological risk assessment for sediments of major freshwater lakes in China. Journal of Geochemical Exploration, 2015, 157, 15-26.	1.5	104
86	Heavy metal accumulation in soils and grains, and health risks associated with use of treated municipal wastewater in subsurface drip irrigation. Environmental Monitoring and Assessment, 2015, 187, 410.	1.3	51
87	Endophytic infection alleviates Pb2+ stress effects on photosystem II functioning of Oryza sativa leaves. Journal of Hazardous Materials, 2015, 295, 79-85.	6.5	35
88	The genetic differentiation of Colocasia esculenta growing in gold mining areas with arsenic contamination. Environmental Monitoring and Assessment, 2015, 187, 227.	1.3	7
89	Effects of cultivars and water management on cadmium accumulation in water spinach (Ipomoea) Tj ETQq1 1 0.784314 rgBT /Overlo	1.8	35
90	Is soil dressing a way once and for all in remediation of arsenic contaminated soils? A case study of arsenic re-accumulation in soils remediated by soil dressing in Hunan Province, China. Environmental Science and Pollution Research, 2015, 22, 10309-10316.	2.7	7
91	Mitigating heavy metal accumulation into rice (Oryza sativa L.) using biochar amendment â€" a field experiment in Hunan, China. Environmental Science and Pollution Research, 2015, 22, 11097-11108.	2.7	125

#	Article	IF	Citations
92	Do soil Fe transformation and secretion of low-molecular-weight organic acids affect the availability of Cd to rice?. Environmental Science and Pollution Research, 2015, 22, 19497-19506.	2.7	9
93	Soil Contamination in China: Current Status and Mitigation Strategies. Environmental Science & Technology, 2015, 49, 750-759.	4.6	1,488
94	Immediate remediation of heavy metal (Cr(VI)) contaminated soil by high energy electron beam irradiation. Journal of Hazardous Materials, 2015, 285, 208-211.	6.5	36
95	Advances in arsenic biosensor development â€“ A comprehensive review. Biosensors and Bioelectronics, 2015, 63, 533-545.	5.3	149
96	Effects of hydrological regulation and anthropogenic pollutants on Dongting Lake in the Yangtze floodplain. Ecohydrology, 2016, 9, 315-325.	1.1	41
97	Efficient arsenate removal by magnetite-modified water hyacinth biochar. Environmental Pollution, 2016, 216, 575-583.	3.7	168
98	Biochar amendment immobilizes lead in rice paddy soils and reduces its phytoavailability. Scientific Reports, 2016, 6, 31616.	1.6	59
99	A SAL1 Loss-of-Function Arabidopsis Mutant Exhibits Enhanced Cadmium Tolerance in Association with Alleviation of Endoplasmic Reticulum Stress. Plant and Cell Physiology, 2016, 57, 1210-1219.	1.5	17
100	Temporal and seasonal variations of As, Cd and Pb atmospheric deposition flux in the vicinity of lead smelters in Jiyuan, China. Atmospheric Pollution Research, 2016, 7, 170-179.	1.8	49
101	Effects of warming on uptake and translocation of cadmium (Cd) and copper (Cu) in a contaminated soil-rice system under Free Air Temperature Increase (FATI). Chemosphere, 2016, 155, 1-8.	4.2	35
102	Water management, rice varieties and mycorrhizal inoculation influence arsenic concentration and speciation in rice grains. Mycorrhiza, 2016, 26, 299-309.	1.3	19
103	Silicon-induced reversibility of cadmium toxicity in rice. Journal of Experimental Botany, 2016, 67, 3573-3585.	2.4	121
104	The Challenges and Solutions for Cadmium-contaminated Rice in China: A Critical Review. Environment International, 2016, 92-93, 515-532.	4.8	518
105	Iron Redox Cycling Coupled to Transformation and Immobilization of Heavy Metals: Implications for Paddy Rice Safety in the Red Soil of South China. Advances in Agronomy, 2016, 137, 279-317.	2.4	137
106	The role of OsPT8 in arsenate uptake and varietal difference in arsenate tolerance in rice. Journal of Experimental Botany, 2016, 67, 6051-6059.	2.4	158
107	Arsenic toxicity in plants: Cellular and molecular mechanisms of its transport and metabolism. Environmental and Experimental Botany, 2016, 132, 42-52.	2.0	213
108	Cadmium uptake dynamics and translocation in rice seedling: Influence of different forms of selenium. Ecotoxicology and Environmental Safety, 2016, 133, 127-134.	2.9	106
109	Lead accumulation and distribution in different rice cultivars. Journal of Crop Science and Biotechnology, 2016, 19, 323-328.	0.7	9

#	Article	IF	Citations
110	Cadmium (Cd) distribution and contamination in Chinese paddy soils on national scale. Environmental Science and Pollution Research, 2016, 23, 17941-17952.	2.7	126
111	Microbial fuel cell driving electrokinetic remediation of toxic metal contaminated soils. Journal of Hazardous Materials, 2016, 318, 9-14.	6.5	125
112	Quantification of the bioreactive Hg fraction in Chinese soils using luminescence-based biosensors. Environmental Technology and Innovation, 2016, 5, 267-276.	3.0	5
113	A lossâ€ofâ€function allele of OsHMA3 associated with high cadmium accumulation in shoots and grain of Japonica rice cultivars. Plant, Cell and Environment, 2016, 39, 1941-1954.	2.8	168
114	Arsenic toxicity in the water weed Wolffia arrhiza measured using Pulse Amplitude Modulation Fluorometry (PAM) measurements of photosynthesis. Ecotoxicology and Environmental Safety, 2016, 132, 178-185.	2.9	12
115	Toxic Heavy Metal and Metalloid Accumulation in Crop Plants and Foods. Annual Review of Plant Biology, 2016, 67, 489-512.	8.6	825
116	Efficiency evaluation for remediating paddy soil contaminated with cadmium and arsenic using water management, variety screening and foliage dressing technologies. Journal of Environmental Management, 2016, 170, 116-122.	3.8	56
117	Genomics enabled breeding approaches for improving cadmium stress tolerance in plants. Euphytica, 2016, 208, 1-31.	0.6	24
118	Varying effect of biochar on Cd, Pb and As mobility in a multi-metal contaminated paddy soil. Chemosphere, 2016, 152, 196-206.	4.2	177
119	Arsenic speciation in locally grown rice grains from Hunan Province, China: Spatial distribution and potential health risk. Science of the Total Environment, 2016, 557-558, 438-444.	3.9	114
120	Distribution and migration of heavy metals in soil and crops affected by acid mine drainage: Public health implications in Guangdong Province, China. Ecotoxicology and Environmental Safety, 2016, 124, 460-469.	2.9	143
121	A novel arsenic methyltransferase gene of Westerdykella aurantiaca isolated from arsenic contaminated soil: phylogenetic, physiological, and biochemical studies and its role in arsenic bioremediation. Metallomics, 2016, 8, 344-353.	1.0	54
122	Low uptake affinity cultivars with biochar to tackle Cd-tainted rice â€" A field study over four rice seasons in Hunan, China. Science of the Total Environment, 2016, 541, 1489-1498.	3.9	165
123	Phosphorus recovery from swine wastewater by struvite precipitation: compositions and heavy metals in the precipitates. Desalination and Water Treatment, 2016, 57, 10361-10369.	1.0	28
124	Combined effect of rice genotypes and soil characteristics on iron plaque formation related to Pb uptake by rice in paddy soils. Journal of Soils and Sediments, 2016, 16, 150-158.	1.5	13
125	Mitigation of cadmium and arsenic in rice grain by applying different silicon fertilizers in contaminated fields. Environmental Science and Pollution Research, 2016, 23, 3781-3788.	2.7	87
126	Application of magnetic Cd²⁺ ion-imprinted mesoporous organosilica nanocomposites for mineral wastewater treatment. RSC Advances, 2017, 7, 7996-8003.	1.7	20
127	Understanding arsenic dynamics in agronomic systems to predict and prevent uptake by crop plants. Science of the Total Environment, 2017, 581-582, 209-220.	3.9	185

#	Article	IF	Citations
128	Effect of organic manure on Cd and As accumulation in brown rice and grain yield in Cd-As-contaminated paddy fields. Environmental Science and Pollution Research, 2017, 24, 9111-9121.	2.7	17
129	Bioaccessibility of selenium from cooked rice as determined in a simulator of the human intestinal tract (SHIME). Journal of the Science of Food and Agriculture, 2017, 97, 3540-3545.	1.7	29
130	Trace Elements and Heavy Metals in Asian Rice-Derived Food Products. Water, Air, and Soil Pollution, 2017, 228, 1.	1.1	8
131	Identification of alternatively spliced transcripts of rice phytochelatin synthase 2 gene OsPCS2 involved in mitigation of cadmium and arsenic stresses. Plant Molecular Biology, 2017, 94, 167-183.	2.0	77
132	Ionomic and transcriptomic analysis provides new insight into the distribution and transport of cadmium and arsenic in rice. Journal of Hazardous Materials, 2017, 331, 246-256.	6.5	82
133	Cadmium Exposure and Osteoporosis: A Population-Based Study and Benchmark Dose Estimation in Southern China. Journal of Bone and Mineral Research, 2017, 32, 1990-2000.	3.1	50
134	OsHAC4 is critical for arsenate tolerance and regulates arsenic accumulation in rice. New Phytologist, 2017, 215, 1090-1101.	3.5	156
135	Applying Cadmium Relative Bioavailability to Assess Dietary Intake from Rice to Predict Cadmium Urinary Excretion in Nonsmokers. Environmental Science & Technology, 2017, 51, 6756-6764.	4.6	60
136	Phosphate reclaim from simulated and real eutrophic water by magnetic biochar derived from water hyacinth. Journal of Environmental Management, 2017, 187, 212-219.	3.8	82
137	Microbial mediated arsenic biotransformation in wetlands. Frontiers of Environmental Science and Engineering, 2017, 11, 1.	3.3	67
138	Surface functionalized composite nanofibers for efficient removal of arsenic from aqueous solutions. Chemosphere, 2017, 180, 108-116.	4.2	60
139	Genotypic and Environmental Variations in Grain Cadmium and Arsenic Concentrations Among a Panel of High Yielding Rice Cultivars. Rice, 2017, 10, 9.	1.7	124
140	Atmospheric size-resolved trace elements in a city affected by non-ferrous metal smelting: Indications of respiratory deposition and health risk. Environmental Pollution, 2017, 224, 559-571.	3.7	63
141	Knocking Out OsPT4 Gene Decreases Arsenate Uptake by Rice Plants and Inorganic Arsenic Accumulation in Rice Grains. Environmental Science & Technology, 2017, 51, 12131-12138.	4.6	133
142	Distribution characteristics of heavy metal(loid)s in aggregates of different size fractions along contaminated paddy soil profile. Environmental Science and Pollution Research, 2017, 24, 23939-23952.	2.7	56
143	Effect of biochar and Fe-biochar on Cd and As mobility and transfer in soil-rice system. Chemosphere, 2017, 186, 928-937.	4.2	194
144	Effect of corrosion inhibitor benzotriazole on the uptake and translocation of Cd in rice (Oryza) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 10	4.2	17
145	Effect of Mineral-Based Amendments on Rice (Oryza sativa L.) Growth and Cadmium Content in Plant and Polluted Soil. Environmental Engineering Science, 2017, 34, 854-860.	0.8	7

#	Article	IF	Citations
146	Understanding the variation of microbial community in heavy metals contaminated soil using high throughput sequencing. Ecotoxicology and Environmental Safety, 2017, 144, 300-306.	2.9	212
147	Polychlorinated dibenzo-p-dioxins/furans (PCDD/Fs) and polychlorinated biphenyls (PCBs) in Zhejiang foods (2006â€“2015): Market basket and polluted areas. Science of the Total Environment, 2017, 574, 120-127.	3.9	58
148	OsPT4 Contributes to Arsenate Uptake and Transport in Rice. Frontiers in Plant Science, 2017, 8, 2197.	1.7	116
149	Heavy Metal Contamination in Soil and Brown Rice and Human Health Risk Assessment near Three Mining Areas in Central China. Journal of Healthcare Engineering, 2017, 2017, 1-9.	1.1	103
150	Cadmium Distribution and Characteristics of Cadmium-binding Proteins in Rice (<i>Oryza sativa) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.8	22
151	Optimizing critical source control of five priority-regulatory trace elements from industrial wastewater in China: Implications for health management. Environmental Pollution, 2018, 235, 761-770.	3.7	18
152	Direct Observation of Simultaneous Immobilization of Cadmium and Arsenate at the Brushiteâ€“Fluid Interface. Environmental Science & Technology, 2018, 52, 3493-3502.	4.6	21
153	A multi-medium chain modeling approach to estimate the cumulative effects of cadmium pollution on human health. Environmental Pollution, 2018, 239, 308-317.	3.7	63
154	Quadratic discriminant analysis model for assessing the risk of cadmium pollution for paddy fields in a county in China. Environmental Pollution, 2018, 236, 366-372.	3.7	28
155	Annual input and output fluxes of heavy metals to paddy fields in four types of contaminated areas in Hunan Province, China. Science of the Total Environment, 2018, 634, 67-76.	3.9	87
156	Occurrence and fate of colloids and colloid-associated metals in a mining-impacted agricultural soil upon prolonged flooding. Journal of Hazardous Materials, 2018, 348, 56-66.	6.5	58
157	Influence of metal-contamination on distribution in subcellular fractions of the earthworm (Metaphire californica) from Hunan Province, China. Journal of Environmental Sciences, 2018, 73, 127-137.	3.2	8
158	Does long-term application of fertilizers enhance the micronutrient density in soil and crop?â€”Evidence from a field trial conducted on a 47-year-old rice paddy. Journal of Soils and Sediments, 2018, 18, 49-62.	1.5	12
159	Effects of Simultaneous Application of Ferrous Iron and Nitrate on Arsenic Accumulation in Rice Grown in Contaminated Paddy Soil. ACS Earth and Space Chemistry, 2018, 2, 103-111.	1.2	42
160	Toward sustainable phosphorus management in Sri Lankan rice and vegetable-based cropping systems: A review. Agriculture and Natural Resources, 2018, 52, 9-15.	0.4	13
161	Rice phytochelatin synthases Os<scp>PCS</scp>1 and Os<scp>PCS</scp>2 make different contributions to cadmium and arsenic tolerance. Plant Direct, 2018, 2, e00034.	0.8	86
162	Geographical variations of cadmium and arsenic concentrations and arsenic speciation in Chinese rice. Environmental Pollution, 2018, 238, 482-490.	3.7	148
163	Supplementation with ferromanganese oxideâ€“impregnated biochar composite reduces cadmium uptake by indica rice (Oryza sativa L.). Journal of Cleaner Production, 2018, 184, 1052-1059.	4.6	50

#	Article	IF	Citations
164	Influence of cadmium-contaminated soil on earthworm communities in a subtropical area of China. Applied Soil Ecology, 2018, 127, 64-73.	2.1	19
165	Effects of continuous fertilization on bioavailability and fractionation of cadmium in soil and its uptake by rice (Oryza sativa L.). Journal of Environmental Management, 2018, 215, 13-21.	3.8	39
166	Heavy metal accumulation and its spatial distribution in agricultural soils: evidence from Hunan province, China. RSC Advances, 2018, 8, 10665-10672.	1.7	45
167	Ecosystem services provided by heavy metal-contaminated soils in China. Journal of Soils and Sediments, 2018, 18, 380-390.	1.5	19
168	Effects of biochar addition on toxic element concentrations in plants: A meta-analysis. Science of the Total Environment, 2018, 616-617, 970-977.	3.9	51
169	Amendment damages the function of continuous flooding in decreasing Cd and Pb uptake by rice in acid paddy soil. Ecotoxicology and Environmental Safety, 2018, 147, 708-714.	2.9	33
170	Field experiment for determining lead accumulation in rice grains of different genotypes and correlation with iron oxides deposited on rhizosphere soil. Science of the Total Environment, 2018, 610-611, 845-853.	3.9	20
171	Arsenic distribution in a pasture area impacted by past mining activities. Ecotoxicology and Environmental Safety, 2018, 147, 228-237.	2.9	27
172	Rapid evaluation of arsenic contamination in paddy soils using field portable X-ray fluorescence spectrometry. Journal of Environmental Sciences, 2018, 64, 345-351.	3.2	9
173	Mechanism of arsenic uptake, translocation and plant resistance to accumulate arsenic in rice grains. Agriculture, Ecosystems and Environment, 2018, 253, 23-37.	2.5	127
174	Arsenic in agricultural soils across China: Distribution pattern, accumulation trend, influencing factors, and risk assessment. Science of the Total Environment, 2018, 616-617, 156-163.	3.9	97
175	Aging shapes the distribution of copper in soil aggregate size fractions. Environmental Pollution, 2018, 233, 569-576.	3.7	38
176	Effect of Silicon on Arsenic Concentration and Speciation in Different Rice Tissues. Pedosphere, 2018, 28, 511-520.	2.1	42
177	Spatial variation and risk assessment of heavy metals in paddy rice from Hunan Province, Southern China. International Journal of Environmental Science and Technology, 2018, 15, 1561-1572.	1.8	28
179	Removal of arsenic(<scp>v</scp>) from aqueous solutions using sulfur-doped Fe₃O₄ nanoparticles. RSC Advances, 2018, 8, 40804-40812.	1.7	22
180	Arsenic in Rice Soils and Potential Agronomic Mitigation Strategies to Reduce Arsenic Bioavailability: A Review. Pedosphere, 2018, 28, 363-382.	2.1	49
181	Equilibrating stable Cd isotopes with acidic soils. Communications in Soil Science and Plant Analysis, 2018, 49, 2497-2506.	0.6	1
182	Long-term effects of biochar on rice production and stabilisation of cadmium and arsenic levels in contaminated paddy soils. Earth and Environmental Science Transactions of the Royal Society of Edinburgh, 2018, 109, 415-420.	0.3	5

#	Article	IF	Citations
183	Review of Heavy Metals Pollution in China in Agricultural and Urban Soils. Journal of Health and Pollution, 2018, 8, 180607.	1.8	81
184	Bioremediation of Contaminated Paddy Soil. Soil Biology, 2018, , 245-271.	0.6	2
185	Adsorption and Desorption of Cd by Soil Amendment: Mechanisms and Environmental Implications in Field-Soil Remediation. Sustainability, 2018, 10, 2337.	1.6	26
186	Distribution and transformation of lead in rice plants grown in contaminated soil amended with biochar and lime. Ecotoxicology and Environmental Safety, 2018, 165, 589-596.	2.9	36
187	ARSENATE INDUCED CHLOROSIS 1/ TRANSLOCON AT THE OUTER ENVOLOPE MEMBRANE OF CHLOROPLASTS 132 Protects Chloroplasts from Arsenic Toxicity. Plant Physiology, 2018, 178, 1568-1583.	2.3	18
188	Coupling bioavailability and stable isotope ratio to discern dietary and non-dietary contribution of metal exposure to residents in mining-impacted areas. Environment International, 2018, 120, 563-571.	4.8	40
189	Cadmium dynamics in soil pore water and uptake by rice: Influences of soil-applied selenite with different water managements. Environmental Pollution, 2018, 240, 523-533.	3.7	55
190	The role of arsenic resistant Bacillus aryabhattai MCC3374 in promotion of rice seedlings growth and alleviation of arsenic phytotoxicity. Chemosphere, 2018, 211, 407-419.	4.2	104
191	Performances of Water Management, Foliage Dressing, and Variation Screening in Controlling the Accumulation of As and Cd and Maintaining the Concentrations of Essential Elements in the Grains of Rice Plant. Frontiers in Environmental Science, 2018, 6, .	1.5	4
192	Rhizobium-Legume Symbioses: Heavy Metal Effects and Principal Approaches for Bioremediation of Contaminated Soil. , 2018, , 205-233.		10
193	Arsenicâ€“silicon priming of rice (Oryza sativa L.) seeds influence mineral nutrient uptake and biochemical responses through modulation of Lsi-1, Lsi-2, Lsi-6 and nutrient transporter genes. Scientific Reports, 2018, 8, 10301.	1.6	106
194	Effect of Cadmium, Copper and Lead on the Growth of Rice in the Coal Mining Region of Quang Ninh, Cam-Pha (Vietnam). Sustainability, 2018, 10, 1758.	1.6	22
195	Legumes and Sustainable Use of Soils. , 2018, , 1-31.		27
196	Inventories of heavy metal inputs and outputs to and from agricultural soils: A review. Ecotoxicology and Environmental Safety, 2018, 164, 118-124.	2.9	155
197	Heavy metals in paddy soil-rice systems of industrial and township areas from subtropical China: Levels, transfer and health risks. Journal of Geochemical Exploration, 2018, 194, 210-217.	1.5	53
198	Health risks of heavy metal exposure through vegetable consumption near a large-scale Pb/Zn smelter in central China. Ecotoxicology and Environmental Safety, 2018, 161, 99-110.	2.9	114
199	Arsenic accumulation in rice (Oryza sativa L.) is influenced by environment and genetic factors. Science of the Total Environment, 2018, 642, 485-496.	3.9	98
200	Genetic variation in bioaccumulation and partitioning of cadmium in Theobroma cacao L.. Science of the Total Environment, 2018, 640-641, 696-703.	3.9	46

#	Article	IF	Citations
201	Ca-containing amendments to reduce the absorption and translocation of Pb in rice plants. Science of the Total Environment, 2018, 637-638, 971-979.	3.9	31
202	Species-specific effects of arsenic on the soil collembolan gut microbiota. Ecotoxicology and Environmental Safety, 2019, 183, 109538.	2.9	6
203	Expressing Arsenite Antiporter PvACR3;1 in Rice (Oryza sativa L.) Decreases Inorganic Arsenic Content in Rice Grains. Environmental Science & Technology, 2019, 53, 10062-10069.	4.6	42
204	Study on optimization of removing cadmium by lactobacillus fermentation and its effect on physicochemical and quality properties of rice noodles. Food Control, 2019, 106, 106740.	2.8	23
205	Distribution, contamination and source identification of heavy metals in bed sediments from the lower reaches of the Xiangjiang River in Hunan province, China. Science of the Total Environment, 2019, 689, 557-570.	3.9	114
206	Changes in growth responses in rice plants grown in the arsenic affected area: implication of As resistant microbes in mineral content and translocation. SN Applied Sciences, 2019, 1, 1.	1.5	3
207	Cadmium contamination in a soil-rice system and the associated health risk: An addressing concern caused by barium mining. Ecotoxicology and Environmental Safety, 2019, 183, 109590.	2.9	19
208	Oral Bioavailability of As, Pb, and Cd in Contaminated Soils, Dust, and Foods based on Animal Bioassays: A Review. Environmental Science & Technology, 2019, 53, 10545-10559.	4.6	67
209	Virtual flows of aquatic heavy metal emissions and associated risk in China. Journal of Environmental Management, 2019, 249, 109400.	3.8	17
210	Simultaneous adsorption and immobilization of As and Cd by birnessite-loaded biochar in water and soil. Environmental Science and Pollution Research, 2019, 26, 8575-8584.	2.7	44
211	Facilitated transport of cadmium by biochar-Fe3O4 nanocomposites in water-saturated natural soils. Science of the Total Environment, 2019, 684, 265-275.	3.9	65
212	Management principles for heavy metal contaminated farmland based on ecological riskâ€"A case study in the pilot area of Hunan province, China. Science of the Total Environment, 2019, 684, 537-547.	3.9	30
213	Remediation of heavy metal contaminated soil by asymmetrical alternating current electrochemistry. Nature Communications, 2019, 10, 2440.	5.8	156
214	Trace elements accumulation in the Yangtze finless porpoise (Neophocaena asiaeorientalis) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T 2019, 686, 797-804.	3.9	14
215	Diagnostic significance of metallothionein members in recognizing cadmium exposure in various organs under low-dose exposure. Chemosphere, 2019, 229, 32-40.	4.2	17
216	Proper Mode of Using Rice Straw Biochar To Treat Cd-Contaminated Irrigation Water in Mining Regions Based on a Multiyear in Situ Experiment. ACS Sustainable Chemistry and Engineering, 2019, 7, 9928-9936.	3.2	7
217	Bacterial response to antimony and arsenic contamination in rice paddies during different flooding conditions. Science of the Total Environment, 2019, 675, 273-285.	3.9	47
218	Arsenic in cooked rice foods: Assessing health risks and mitigation options. Environment International, 2019, 127, 584-591.	4.8	81

#	Article	IF	Citations
219	Cadmium contamination in agricultural soils of China and the impact on food safety. Environmental Pollution, 2019, 249, 1038-1048.	3.7	395
220	Water incubation-induced fluctuating release of heavy metals in two smelter-contaminated soils. Journal of Environmental Sciences, 2019, 82, 14-23.	3.2	23
221	Producing cadmium-free Indica rice by overexpressing OsHMA3. Environment International, 2019, 126, 619-626.	4.8	110
222	Environmental and health impacts of geochemical cycles of persistent toxic substances in food productions systems: Editorial to the special issue for the 8th International Conference on Geochemistry in the Topics & Sub-tropics (GeoTrop 2017). Environmental Geochemistry and Health, 2019, 41, 1-4.	1.8	14
223	In Vitro and In Vivo Testing to Determine Cd Bioaccessibility and Bioavailability in Contaminated Rice in Relation to Mouse Chow. International Journal of Environmental Research and Public Health, 2019, 16, 871.	1.2	9
224	The C-type ATP-Binding Cassette Transporter OsABCC7 Is Involved in the Root-to-Shoot Translocation of Arsenic in Rice. Plant and Cell Physiology, 2019, 60, 1525-1535.	1.5	48
225	Effect of selenium on the subcellular distribution of cadmium and oxidative stress induced by cadmium in rice (Oryza sativa L.). Environmental Science and Pollution Research, 2019, 26, 16220-16228.	2.7	69
226	Arsenic Bio-volatilization by Engineered Yeast Promotes Rice Growth and Reduces Arsenic Accumulation in Grains. International Journal of Environmental Research, 2019, 13, 475-485.	1.1	25
227	Calcium acetateâ€induced reduction of cadmium accumulation in Oryza sativa: Expression of autoâ€inhibited calciumâ€<scp>ATP</scp>ase and cadmium transporters. Plant Biology, 2019, 21, 862-872.	1.8	24
228	A transcriptomic (RNA-seq) analysis of genes responsive to both cadmium and arsenic stress in rice root. Science of the Total Environment, 2019, 666, 445-460.	3.9	67
229	Association Study Reveals Genetic Loci Responsible for Arsenic, Cadmium and Lead Accumulation in Rice Grain in Contaminated Farmlands. Frontiers in Plant Science, 2019, 10, 61.	1.7	29
230	Effects and mechanisms on the reduction of lead accumulation in rice grains through lime amendment. Ecotoxicology and Environmental Safety, 2019, 173, 266-272.	2.9	14
231	Antiscattering X-ray fluorescence analysis for large-area samples. Journal of Analytical Atomic Spectrometry, 2019, 34, 2273-2279.	1.6	2
232	Mitigating arsenic accumulation in rice (Oryza sativa L.) from typical arsenic contaminated paddy soil of southern China using nanostructured Î±-MnO2: Pot experiment and field application. Science of the Total Environment, 2019, 650, 546-556.	3.9	53
233	Identifying heavy metal pollution hot spots in soil-rice systems: A case study in South of Yangtze River Delta, China. Science of the Total Environment, 2019, 658, 614-625.	3.9	90
234	Human health risks of heavy metals in paddy rice based on transfer characteristics of heavy metals from soil to rice. Catena, 2019, 175, 339-348.	2.2	223
235	Geographical variation of arsenic distribution in paddy soil, rice and rice-based products: A meta-analytic approach and implications to human health. Journal of Environmental Management, 2019, 233, 184-199.	3.8	56
236	Heavy metals in human urine, foods and drinking water from an e-waste dismantling area: Identification of exposure sources and metal-induced health risk. Ecotoxicology and Environmental Safety, 2019, 169, 707-713.	2.9	82

#	Article	IF	Citations
237	Effect of a novel Ca-Si composite mineral on Cd bioavailability, transport and accumulation in paddy soil-rice system. Journal of Environmental Management, 2019, 233, 802-811.	3.8	34
238	Decreasing cadmium uptake of rice (Oryza sativa L.) in the cadmium-contaminated paddy field through different cultivars coupling with appropriate soil amendments. Journal of Soils and Sediments, 2019, 19, 1788-1798.	1.5	49
239	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
240	Effect of moisture condition on the immobilization of Cd in red paddy soil using passivators. Environmental Technology (United Kingdom), 2019, 40, 2705-2714.	1.2	20
241	Cd accumulation, biomass and yield of rice are varied with silicon application at different growth phases under high concentration cadmium-contaminated soil. Chemosphere, 2020, 242, 125128.	4.2	55
242	Variations in iron plaque, root morphology and metal bioavailability response to seedling establishment methods and their impacts on Cd and Pb accumulation and translocation in rice (Oryza) Tj ETQq1 1 0.784314 rgBT /Over		
243	Potential of enhancing the phytoremediation efficiency of Solanum nigrum L. by earthworms. International Journal of Phytoremediation, 2020, 22, 529-533.	1.7	7
244	The effect of plant growth-promoting rhizobacteria (PGPR) on arsenic accumulation and the growth of rice plants (Oryza sativa L.). Chemosphere, 2020, 242, 125136.	4.2	59
245	Biochar reduced the uptake of toxic heavy metals and their associated health risk via rice (Oryza) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4 17, 100590.	3.0	32
246	Behaviors of heavy metal(loid)s in a cocontaminated alkaline paddy soil throughout the growth period of rice. Science of the Total Environment, 2020, 716, 136204.	3.9	17
247	Prediction models for rice cadmium accumulation in Chinese paddy fields and the implications in deducing soil thresholds based on food safety standards. Environmental Pollution, 2020, 258, 113879.	3.7	32
248	The effects of chicken manure on the immobilization and bioavailability of cadmium in the soil-rice system. Archives of Agronomy and Soil Science, 2020, 66, 1753-1764.	1.3	10
249	Effects of Fe-oxidizing bacteria (FeOB) on iron plaque formation, As concentrations and speciation in rice (Oryza sativa L.). Ecotoxicology and Environmental Safety, 2020, 190, 110136.	2.9	38
250	Phytoremediation of cadmium-contaminated wetland soil with Typha latifolia L. and the underlying mechanisms involved in the heavy-metal uptake and removal. Environmental Science and Pollution Research, 2020, 27, 4905-4916.	2.7	35
251	Selected soil water tensions at phenological phases and mineral content of trace elements in rice grains â€“ mitigating arsenic by water management. Agricultural Water Management, 2020, 228, 105884.	2.4	15
252	Impacts of biochar and silicate fertilizer on arsenic accumulation in rice (Oryza sativa L.). Ecotoxicology and Environmental Safety, 2020, 189, 109928.	2.9	17
253	Arsenic and cadmium accumulation in rice and mitigation strategies. Plant and Soil, 2020, 446, 1-21.	1.8	327
254	Diffusive gradients in thin films technique coupled to X-ray fluorescence spectrometry for the determination of bioavailable arsenic concentrations in soil. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2020, 164, 105752.	1.5	5

#	Article	IF	Citations
255	Bacterially assembled biopolyester nanobeads for removing cadmium from water. Water Research, 2020, 186, 116357.	5.3	14
256	Effect of the irrigation method and genotype on the bioaccumulation of toxic and trace elements in rice. Science of the Total Environment, 2020, 748, 142484.	3.9	17
257	Health risk assessment of heavy metal pollution in a soil-rice system: a case study in the Jin-Qu Basin of China. Scientific Reports, 2020, 10, 11490.	1.6	45
258	Water management affects arsenic uptake and translocation by regulating arsenic bioavailability, transporter expression and thiol metabolism in rice (Oryza sativa L.). Ecotoxicology and Environmental Safety, 2020, 206, 111208.	2.9	18
259	An integrated methodology for improving heavy metal risk management in soil-rice system. Journal of Cleaner Production, 2020, 273, 122797.	4.6	13
260	Pollution characteristics and ecological risk assessment of heavy metals in paddy fields of Fujian province, China. Scientific Reports, 2020, 10, 12244.	1.6	26
261	Genetic control of violacein biosynthesis to enable a pigment-based whole-cell lead biosensor. RSC Advances, 2020, 10, 28106-28113.	1.7	37
262	Dietary exposure assessment of cadmium, arsenic, and lead in market rice from Sri Lanka. Environmental Science and Pollution Research, 2020, 27, 42704-42712.	2.7	21
263	Chemical Speciation and Distribution of Cadmium in Rice Grain and Implications for Bioavailability to Humans. Environmental Science & Technology, 2020, 54, 12072-12080.	4.6	46
264	Inorganic content of rock dust waste from northwest of Rio de Janeiro, Brazil: do environmental risks incur from its use as natural fertilizer?. Environmental Monitoring and Assessment, 2020, 192, 380.	1.3	1
265	Using rice as a remediating plant to deplete bioavailable arsenic from paddy soils. Environment International, 2020, 141, 105799.	4.8	26
266	Cataloging of Cd Allocation in Late Rice Cultivars Grown in Polluted Gleysol: Implications for Selection of Cultivars with Minimal Risk to Human Health. International Journal of Environmental Research and Public Health, 2020, 17, 3632.	1.2	4
267	Effect of terrain gradient on cadmium accumulation in soils. Geoderma, 2020, 375, 114501.	2.3	10
268	Factors influencing heavy metal availability and risk assessment of soils at typical metal mines in Eastern China. Journal of Hazardous Materials, 2020, 400, 123289.	6.5	176
269	Immobilization and release risk of arsenic associated with partitioning and reactivity of iron oxide minerals in paddy soils. Environmental Science and Pollution Research, 2020, 27, 36377-36390.	2.7	5
270	Reusable biopolymer based heavy metal filter as plant protection for phytoremediation. Environmental Technology and Innovation, 2020, 19, 101005.	3.0	5
271	Enhanced arsenic depletion by rice plant from flooded paddy soil with soluble organic fertilizer application. Chemosphere, 2020, 252, 126521.	4.2	14
272	Use of Dietary Components to Reduce the Bioaccessibility and Bioavailability of Cadmium in Rice. Journal of Agricultural and Food Chemistry, 2020, 68, 4166-4175.	2.4	20

#	Article	IF	Citations
273	Reducing greenhouse gas emissions and grain arsenic and lead levels without compromising yield in organically produced rice. Agriculture, Ecosystems and Environment, 2020, 295, 106922.	2.5	16
274	OASTL-A1 functions as a cytosolic cysteine synthase and affects arsenic tolerance in rice. Journal of Experimental Botany, 2020, 71, 3678-3689.	2.4	19
275	Assessment and source identification of As and Cd contamination in soil and plants in the vicinity of the Nui Phao Mine, Vietnam. Environmental Geochemistry and Health, 2020, 42, 4193-4201.	1.8	13
276	Policy adjustment impacts Cd, Cu, Ni, Pb and Zn contamination in soils around e-waste area: Concentrations, sources and health risks. Science of the Total Environment, 2020, 741, 140442.	3.9	40
277	Distribution of elements and their correlation in bran, polished rice, and whole grain. Food Science and Nutrition, 2020, 8, 982-992.	1.5	30
278	Migration and transformation of cadmium in rice - soil under different nitrogen sources in polymetallic sulfide mining areas. Scientific Reports, 2020, 10, 2418.	1.6	8
279	Coconut-fiber biochar reduced the bioavailability of lead but increased its translocation rate in rice plants: Elucidation of immobilization mechanisms and significance of iron plaque barrier on roots using spectroscopic techniques. Journal of Hazardous Materials, 2020, 389, 122117.	6.5	57
280	Toxic element (As and Hg) content and health risk assessment of commercially available rice for residents in Beijing based on their dietary consumption. Environmental Science and Pollution Research, 2020, 27, 13205-13214.	2.7	7
281	A comprehensive framework for assessing the impact of potential agricultural pollution on grain security and human health in economically developed areas. Environmental Pollution, 2020, 263, 114653.	3.7	35
282	Simultaneous removal of Cd(II) and As(III) by graphene-like biochar-supported zero-valent iron from irrigation waters under aerobic conditions: Synergistic effects and mechanisms. Journal of Hazardous Materials, 2020, 395, 122623.	6.5	174
283	Health risk assessment of Cd pollution in irrigated paddy field system: A field investigation in Hunan Province, China. Human and Ecological Risk Assessment (HERA), 2021, 27, 352-367.	1.7	5
284	Evaluation of geogenic cadmium bioavailability in soil-rice system with high geochemical background caused by black shales. Journal of Soils and Sediments, 2021, 21, 1053-1063.	1.5	10
285	Rice cultivars significantly mitigate cadmium accumulation in grains and its bioaccessibility and toxicity in human HL-7702Âcells. Environmental Pollution, 2021, 272, 116020.	3.7	22
286	Silicon fertilizers mitigate rice cadmium and arsenic uptake in a 4-year field trial. Journal of Soils and Sediments, 2021, 21, 163-171.	1.5	8
287	Removal of lead and other toxic metals in heavily contaminated soil using biodegradable chelators: GLDA, citric acid and ascorbic acid. Chemosphere, 2021, 263, 127912.	4.2	41
288	Effects of biochars combined with ferrous sulfate and pig manure on the bioavailability of Cd and potential phytotoxicity for wheat in an alkaline contaminated soil. Science of the Total Environment, 2021, 753, 141832.	3.9	28
289	Straw return enhances the risks of metals in soil?. Ecotoxicology and Environmental Safety, 2021, 207, 111201.	2.9	42
290	Transport of cadmium from soil to grain in cereal crops: A review. Pedosphere, 2021, 31, 3-10.	2.1	96

#	Article	IF	Citations
291	Reducing the cadmium, inorganic arsenic and dimethylarsinic acid content of rice through food-safe chemical cooking pre-treatment. Food Chemistry, 2021, 338, 127842.	4.2	13
292	Application of TiO2 nanoparticles to reduce bioaccumulation of arsenic in rice seedlings (Oryza sativa) Tj ETQq1 1 0.784314 rgBT /Over	6.5	71
293	Risk assessment and hotspots identification of heavy metals in rice: A case study in Longyan of Fujian province, China. Chemosphere, 2021, 270, 128626.	4.2	27
294	Changes in the Impacts of Topographic Factors, Soil Texture, and Cropping Systems on Topsoil Chemical Properties in the Mountainous Areas of the Subtropical Monsoon Region from 2007 to 2017: A Case Study in Hefeng, China. International Journal of Environmental Research and Public Health, 2021, 18, 832.	1.2	7
295	Sulfate addition and rising temperature promote arsenic methylation and the formation of methylated thioarsenates in paddy soils. Soil Biology and Biochemistry, 2021, 154, 108129.	4.2	38
296	A molecular switch in sulfur metabolism to reduce arsenic and enrich selenium in rice grain. Nature Communications, 2021, 12, 1392.	5.8	48
297	Comparative responses of cadmium accumulation and subcellular distribution in wheat and rice supplied with selenite or selenate. Environmental Science and Pollution Research, 2021, 28, 45075-45086.	2.7	10
298	Comparing effects of ammonium and nitrate nitrogen on arsenic accumulation in brown rice and its dynamics in soil-plant system. Journal of Soils and Sediments, 2021, 21, 2650-2658.	1.5	6
299	The implications of planting mode on cadmium uptake and remobilization in rice: Field experiments across growth stages. Frontiers of Environmental Science and Engineering, 2021, 15, 1.	3.3	9
300	Efficiency of bacteria and bacterial assisted phytoremediation of heavy metals: An update. Bioresource Technology, 2021, 328, 124835.	4.8	134
301	Converting loess into zeolite for heavy metal polluted soil remediation based on â€œsoil for soil-remediationâ€•strategy. Journal of Hazardous Materials, 2021, 412, 125199.	6.5	42
302	High pressure assisted extraction for cadmium decontamination of long rice grain. Food Control, 2021, 125, 107987.	2.8	6
303	Rice Cd Levels in Cambodia Ranged 3 Orders of Magnitude due to Season and Soil Cd Levels. ACS Omega, 2021, 6, 19876-19882.	1.6	4
304	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
305	Variations in root morphological indices of rice (Oryza sativa L.) induced by seedling establishment methods and their relation to arsenic accumulation in plant tissues. Environmental Pollution, 2021, 281, 116999.	3.7	8
306	Distribution and assessment of cadmium contamination in sediments from the Four River inlets to Dongting Lake, China. Environmental Science and Pollution Research, 2021, 28, 66072-66085.	2.7	5
307	Accumulation and translocation of selenium in a soilâ€“rice system in Guangxi, China. Soil Science and Plant Nutrition, 0, , 1-9.	0.8	2
308	Adsorption characteristics of cadmium onto aggregates of various acidic red soils from South China. Journal of Soils and Sediments, 2022, 22, 120-133.	1.5	9

#	Article	IF	Citations
309	Effect of calcium and iron-enriched biochar on arsenic and cadmium accumulation from soil to rice paddy tissues. Science of the Total Environment, 2021, 785, 147163.	3.9	62
310	Cadmium oral bioavailability is affected by calcium and phytate contents in food: Evidence from leafy vegetables in mice. Journal of Hazardous Materials, 2022, 424, 127373.	6.5	8
311	Aging and phytoavailability of newly introduced and legacy cadmium in paddy soil and their bioaccessibility in rice grain distinguished by enriched isotope tracing. Journal of Hazardous Materials, 2021, 417, 125998.	6.5	22
312	Foliar application of the sulfhydryl compound 2,3-dimercaptosuccinic acid inhibits cadmium, lead, and arsenic accumulation in rice grains by promoting heavy metal immobilization in flag leaves. Environmental Pollution, 2021, 285, 117355.	3.7	21
313	Bioaccessibility and bioavailability adjusted dietary exposure of cadmium for local residents from a high-level environmental cadmium region. Journal of Hazardous Materials, 2021, 420, 126550.	6.5	16
314	Biomineralization of Cd2+ and inhibition on rhizobacterial Cd mobilization function by Bacillus Cereus to improve safety of maize grains. Chemosphere, 2021, 283, 131095.	4.2	16
315	Comparative physiological and transcriptomic analyses illuminate common mechanisms by which silicon alleviates cadmium and arsenic toxicity in rice seedlings. Journal of Environmental Sciences, 2021, 109, 88-101.	3.2	36
316	Arsenic and cadmium load in rice tissues cultivated in calcium enriched biochar amended paddy soil. Chemosphere, 2021, 283, 131102.	4.2	18
317	Root Morphology and Anatomy Affect Cadmium Translocation and Accumulation in Rice. Rice Science, 2021, 28, 594-604.	1.7	12
318	Ferrihydriteâ€“organo composites are a suitable analog for predicting Cd(II)â€“As(V) coexistence behaviors at the soil solid-liquid interfaces. Environmental Pollution, 2021, 290, 118040.	3.7	27
319	Amorphous Mn-La oxides immobilized on carbon sphere for efficient removal of As(â...), Cd(â...¡), and Pb(â...¡): Co-adsorption and roles of Mn species. Chemical Engineering Journal, 2022, 429, 132262.	6.6	32
320	Ultrasound assisted extraction of cadmium for decontamination of rice and its influence on structure/texture of cooked rice. Journal of Cereal Science, 2021, 97, 103142.	1.8	6
323	Agricultural Water Management Practices and Environmental Influences on Arsenic Dynamics in Rice Field. , 2020, , 425-443.		13
324	Identifying factors that influence soil heavy metals by using categorical regression analysis: A case study in Beijing, China. Frontiers of Environmental Science and Engineering, 2020, 14, 1.	3.3	35
325	Bioaccumulation of heavy metals in earthworms from field contaminated soil in a subtropical area of China. Ecotoxicology and Environmental Safety, 2018, 148, 876-883.	2.9	78
326	Strategies to manage the risk of heavy metal(loid) contamination in agricultural soils. Frontiers of Agricultural Science and Engineering, 2020, 7, 333.	0.9	11
327	Bio-monitoring of Heavy Metals in the Vicinity of Copper Mining Site at Erdenet, Mongolia. Journal of Applied Sciences, 2015, 15, 1297-1304.	0.1	6
328	Biochemical and Biodiversity Insights into Heavy Metal Ion-Responsive Transcription Regulators for Synthetic Biological Heavy Metal Sensors. Journal of Microbiology and Biotechnology, 2019, 29, 1522-1542.	0.9	27

#	Article	IF	Citations
329	Impacts of Gold Mining on Rice Production in the Anum Valley of Ghana. Agricultural Sciences, 2014, 05, 793-804.	0.2	1
331	Characterization and comparison of the bacterial communities of rhizosphere and bulk soils from cadmium-polluted wheat fields. PeerJ, 2020, 8, e10302.	0.9	13
332	Toxic metals and metalloids: Uptake, transport, detoxification, phytoremediation, and crop improvement for safer food. Molecular Plant, 2022, 15, 27-44.	3.9	131
333	Consistent interâ€“annual reduction of rice cadmium in 5â€“year biannual organic amendment. Science of the Total Environment, 2022, 807, 151026.	3.9	8
334	Engineering of Microbes for Heavy Metal Tolerance. Advances in Environmental Engineering and Green Technologies Book Series, 2015, , 73-91.	0.3	0
335	Water management for arsenic and cadmium mitigation in rice grains. Arsenic in the Environment Proceedings, 2016, , 295-296.	0.0	0
336	Engineering of Microbes for Heavy Metal Tolerance. , 2017, , 575-593.		0
337	Recent advances in phytoremediation of arsenic-contaminated soils. , 2018, , 103-120.		0
338	EVALUATION OF ALIMENTARY RELATED RISKS ASSOCIATED WITH PECULIARITIES OF NUTRITION OF URBAN MEN IN MONGOLIA. Gigiena I Sanitariia, 2018, 97, 951-956.	0.1	3
339	Non-Carcinogenic Risk Assessment of Heavy Metals Through Exposure to the Household Dust (Case) Tj ETQq1 1 0.784314 rgBT /Over	0.1	5
340	Promising Technologies for Cd-Contaminated Soils: Drawbacks and Possibilities. , 2020, , 63-91.		6
341	Lead in Rice Grain. , 2020, , 93-131.		1
342	Inter-annual reduction in rice Cd and its eco-environmental controls in 6-year biannual mineral amendment in subtropical double-rice cropping ecosystems. Environmental Pollution, 2022, 293, 118566.	3.7	6
343	Cadmium and arsenic interactions under different molar ratios during coadsorption processes by excluding pH interference. Chemosphere, 2022, 291, 132839.	4.2	8
344	Combined amendment improves soil health and Brown rice quality in paddy soils moderately and highly Co-contaminated with Cd and As. Environmental Pollution, 2022, 295, 118590.	3.7	19
345	Supergene geochemistry of arsenic and activation mechanism of eucalyptus to arsenic source. Environmental Geochemistry and Health, 2021, , 1.	1.8	0
346	Soil amendments with ZnSO4 or MnSO4 are effective at reducing Cd accumulation in rice grain: An application of the voltaic cell principle. Environmental Pollution, 2022, 294, 118650.	3.7	11
347	Simultaneous mitigation of Cd and As availability in soil-rice continuum via the addition of an Fe-based desulfurization material. Science of the Total Environment, 2022, 812, 152603.	3.9	6

#	Article	IF	Citations
348	Effects of hydroxyapatite and modified biochar derived from Camellia oleifera fruit shell on soil Cd contamination and N2O emissions. Industrial Crops and Products, 2022, 177, 114476.	2.5	12
349	Airborne lead: A vital factor influencing rice lead accumulation in China. Journal of Hazardous Materials, 2022, 427, 128169.	6.5	7
350	Distribution of Pb Isotopes in Different Chemical Fractions in Bed Sediments from Lower Reaches of the Xiangjiang River, Hunan Province of China. SSRN Electronic Journal, 0, , .	0.4	0
351	A Universal Synergistic Rule of Cd(II)-Sb(V) Coadsorption to Typical Soil Mineral and Organic Components. Adsorption Science and Technology, 2022, 2022, .	1.5	2
352	Integrated assessment of phytotoxicity, stress responses, and bioaccumulative mechanisms of the arsenic-contaminated agricultural runoff using a soilless cultivation system. Chemical Engineering Research and Design, 2022, 159, 266-280.	2.7	3
353	Soil ridge cultivation maintains grain As and Cd at low levels and inhibits As methylation by changing arsM-harboring bacterial communities in paddy soils. Journal of Hazardous Materials, 2022, 429, 128325.	6.5	7
354	Simultaneous Reduction of Arsenic and Lead Bioaccumulation in Rice (Oryza Sativa L.) by Tio2 Nanoparticles: A Mechanistic Study. SSRN Electronic Journal, 0, , .	0.4	0
355	Deep-marine bacteriaâ€"The Frontier alternative for heavy metals bioremediation. , 2022, , 429-450.		2
357	Electrospun Nanofiber-Based Composites for Arsenic Removal in Water and Wastewater. Springer Series in Materials Science, 2022, , 145-174.	0.4	0
358	Combined Role of Fe Nanoparticles (Fe NPs) and Staphylococcus aureus L. in the Alleviation of Chromium Stress in Rice Plants. Life, 2022, 12, 338.	1.1	17
359	China national food safety standards of cadmium in staple foods: Issues and thinking. Chinese Science Bulletin, 2022, 67, 3252-3260.	0.4	2
360	Rice grain arsenic and nutritional content during post harvesting to cooking: A review on arsenic bioavailability and bioaccessibility in humans. Food Research International, 2022, 154, 111042.	2.9	22
361	Influence of straw-derived humic acid-like substance on the availability of Cd/As in paddy soil and their accumulation in rice grain. Chemosphere, 2022, 300, 134368.	4.2	8
362	Arsenic bioaccumulation and biotransformation in aquatic organisms. Environment International, 2022, 163, 107221.	4.8	43
363	Distribution of Pb isotopes in different chemical fractions in bed sediments from lower reaches of the Xiangjiang River, Hunan province of China. Science of the Total Environment, 2022, 829, 154394.	3.9	12
364	Whole Transcriptome Profiling of the Effects of Cadmium on the Liver of the Xiangxi Yellow Heifer. Frontiers in Veterinary Science, 2022, 9, 846662.	0.9	0
378	Research Progress on Heavy Metals Pollution in the Soil of Smelting Sites in China. Toxics, 2022, 10, 231.	1.6	61
379	Suppression of methanogenesis in paddy soil increases dimethylarsenate accumulation and the incidence of straighthead disease in rice. Soil Biology and Biochemistry, 2022, 169, 108689.	4.2	14

#	Article	IF	Citations
380	Impact of Water Management on Arsenic and Cadmium Accumulation in Rice Grown Nearby Abandoned Mines in Korea. Han'guk T'oyang Piryo Hakhoe Chi Han'guk T'oyang Piryo Hakhoe, 2018, 51, 353-359.	0.1	2
381	Varietal differences influence arsenic and lead contamination of rice grown in mining impacted agricultural fields of Zamfara State, Nigeria. Chemosphere, 2022, 305, 135339.	4.2	5
382	Health Risks Associated with Arsenic Contamination and Its Biotransformation Mechanisms in Environment: A Review. Emerging Contaminants and Associated Treatment Technologies, 2022, , 241-288.	0.4	3
383	Arsenic and Cadmium Leaching in Co-Contaminated SoilÂAnd the Influence of High Rainfall and Agronomic Amendments. SSRN Electronic Journal, 0, , .	0.4	0
384	Arsenic Speciation in Rice, Mechanisms and Associated Health Risk Through Rice Consumption in Various Districts of Khyber Pakhtunkhwa, Pakistan. Exposure and Health, 2023, 15, 299-313.	2.8	3
385	A Review on the interaction between Nanoparticles and Toxic metals in Soil: Meta-analysis of their effects on soil, plants and human health. Soil and Sediment Contamination, 2023, 32, 417-447.	1.1	4
386	Comparison of grain cadmium and arsenic concentration between main and ratoon crop in rice ratooning system. Food Chemistry, 2023, 399, 134017.	4.2	7
388	An AHP-based evaluation system applied for phytoremediation method selection in heavy metal contaminated farmland. Journal of Hazardous Materials Advances, 2022, 7, 100138.	1.2	0
389	Transformation of arsenic species by diverse endophytic bacteria of rice roots. Environmental Pollution, 2022, 309, 119825.	3.7	11
390	Simultaneous Alleviation of Cd Availability in Contaminated Soil and Accumulation in Rice (Oryza) Tj ETQq1 1 0.784314 rgBT /Overlock	0.4	0
391	Risk assessment of metal(loid)s in tea from seven producing provinces in China. Science of the Total Environment, 2023, 856, 159140.	3.9	3
392	Prevalence of arsenic contamination in rice and the potential health risks to the Bahamian populationâ€"A preliminary study. Frontiers in Environmental Science, 0, 10, .	1.5	4
393	Source apportionment of soil heavy metals: A new quantitative framework coupling receptor model and stable isotopic ratios. Environmental Pollution, 2022, 314, 120291.	3.7	9
394	Simultaneous alleviation of Cd availability in contaminated soil and accumulation in rice (Oryza) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.9	14
395	Roles of nanoparticles in arsenic mobility and microbial community composition in arsenic-enriched soils. Journal of Environmental Sciences, 2022, , .	3.2	0
396	OsNRAMP5 Is a Major Transporter for Lead Uptake in Rice. Environmental Science & Technology, 2022, 56, 17481-17490.	4.6	16
397	Relationship between groundwater cadmium and vicinity resident urine cadmium levels in the non-ferrous metal smelting area, China. Frontiers of Environmental Science and Engineering, 2023, 17, .	3.3	1
398	Competitive and synergistic effects of phosphate and cadmium coadsorbed on goethite. Chemosphere, 2023, 324, 138171.	4.2	0

#	Article	IF	Citations
399	Integrated assessment of land-to-river Cd fluxes and riverine Cd loads using SWAT-HM to guide management strategies. Journal of Environmental Management, 2023, 334, 117501.	3.8	4
400	Foliarâ€applied sulfate and potassium does not reduce rice grain arsenic concentrations nor straighthead severity. Crop Science, 0, , .	0.8	0
401	Accumulation and Chemical Forms of Cadmium in Tissues of Different Vegetable Crops. Agronomy, 2023, 13, 680.	1.3	4
402	Partitioning and transformation behavior of Cd(II) and As(V) during As(V)-Cd(II)-Fe(III) coprecipitation: Effect of aging under aerobic conditions at pH 5 and 11 relevant to tailings and acid waste. Hydrometallurgy, 2023, 218, 106061.	1.8	1
403	The simultaneous high-effective removal of As(III) and Cd by a modified biochar derived from rice straw. Journal of Environmental Chemical Engineering, 2023, 11, 109874.	3.3	6
404	Exposure and health risk assessment of transition metals in rice found on the Ghanaian market. Environmental Monitoring and Assessment, 2023, 195, .	1.3	2
405	Silicon Calcium Fertilizer Application and Foliar Spraying with Silicon Fertilizer Decreases Cadmium Uptake and Translocation in Rice Grown in Polluted Soil. Agronomy, 2023, 13, 1170.	1.3	0
406	Arsenic and other heavy metals resistant bacteria in rice ecosystem: Potential role in promoting plant growth and tolerance to heavy metal stress. Environmental Technology and Innovation, 2023, 31, 103160.	3.0	4
411	Occurrence of Toxic Elements in Foods. , 2024, , 490-497.		0
423	A critical analysis of various post-harvest arsenic removal treatments of rice and their impact on public health due to nutrient loss. Environmental Monitoring and Assessment, 2023, 195, .	1.3	0
443	Occurrence, Behaviour and Transport of Heavy Metals from Industries in River Catchments. Handbook of Environmental Engineering, 2023, , 205-277.	0.2	1
446	Role of genetically modified organisms in biodegradation and detoxification â€"challenges and prospectives. , 2024, , 221-239.		0