

Current status of agricultural soil pollution by heavy m

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Assessing heavy metal pollution in paddy soil from coal mining area, Anhui, China. <i>Environmental Monitoring and Assessment</i> , 2019, 191, 518.	1.3	38
2	Concentration, Source, and Total Health Risks of Cadmium in Multiple Media in Densely Populated Areas, China. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 2269.	1.2	45
3	Phytoremediation of cadmium-contaminated soil by <i>Sorghum bicolor</i> and the variation of microbial community. <i>Chemosphere</i> , 2019, 235, 985-994.	4.2	44
4	Cadmium contamination in a soil-rice system and the associated health risk: An addressing concern caused by barium mining. <i>Ecotoxicology and Environmental Safety</i> , 2019, 183, 109590.	2.9	19
5	Hyperaccumulation of Cd by <i>Rorippa globosa</i> (Turcz.) Thell. from soil enriched with different Cd compounds, and impact of soil amendment with glutathione (GSH) on the hyperaccumulation efficiency. <i>Environmental Pollution</i> , 2019, 255, 113270.	3.7	12
6	Generic assessment criteria for human health risk management of agricultural land scenario in Jiangsu Province, China. <i>Science of the Total Environment</i> , 2019, 697, 134071.	3.9	16
7	Comprehensive Evaluation and Source Apportionment of Potential Toxic Elements in Soils and Sediments of Guishui River, Beijing. <i>Water (Switzerland)</i> , 2019, 11, 1847.	1.2	8
8	Assessment of phytoextraction using <i>Sedum plumbizincicola</i> and rice production in Cd-polluted acid paddy soils of south China: A field study. <i>Agriculture, Ecosystems and Environment</i> , 2019, 286, 106651.	2.5	38
9	A novel and biocompatible Fe ₃ O ₄ loaded chitosan polyelectrolyte nanoparticles for the removal of Cd ²⁺ ion. <i>International Journal of Biological Macromolecules</i> , 2019, 141, 1165-1174.	3.6	26
10	A living plant cell-based biosensor for real-time monitoring invisible damage of plant cells under heavy metal stress. <i>Science of the Total Environment</i> , 2019, 697, 134097.	3.9	29
11	Data integration analysis: Heavy metal pollution in China's large-scale cattle rearing and reduction potential in manure utilization. <i>Journal of Cleaner Production</i> , 2019, 232, 308-317.	4.6	31
12	Distribution Characteristics and Pollution Assessment of Soil Heavy Metals under Different Land-Use Types in Xuzhou City, China. <i>Sustainability</i> , 2019, 11, 1832.	1.6	14
13	Recommended acceptable levels of maternal serum typical toxic metals from the perspective of spontaneous preterm birth in Shanxi Province, China. <i>Science of the Total Environment</i> , 2019, 686, 599-605.	3.9	13
14	Joint toxic effects of cadmium and four pesticides on the earthworm (<i>Eisenia fetida</i>). <i>Chemosphere</i> , 2019, 227, 489-495.	4.2	37
15	Accumulation, ecological-health risks assessment, and source apportionment of heavy metals in paddy soils: A case study in Hanzhong, Shaanxi, China. <i>Environmental Pollution</i> , 2019, 248, 349-357.	3.7	176
16	Geochemical Fractions of the Agricultural Soils of Southern Poland and the Assessment of the Potentially Harmful Element Mobility. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 674.	0.8	7
17	Comparisons of heavy metal input inventory in agricultural soils in North and South China: A review. <i>Science of the Total Environment</i> , 2019, 660, 776-786.	3.9	180
18	Metal status in soils within a developing education park: Potential risk of land development. <i>Land Degradation and Development</i> , 2020, 31, 430-438.	1.8	6

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19	Input of Cd from agriculture phosphate fertilizer application in China during 2006–2016. <i>Science of the Total Environment</i> , 2020, 698, 134149.	3.9	70
20	The contents of the potentially harmful elements in the arable soils of southern Poland, with the assessment of ecological and health risks: a case study. <i>Environmental Geochemistry and Health</i> , 2020, 42, 419-442.	1.8	25
21	Heavy metal and Pb isotopic compositions of soil and maize from a major agricultural area in Northeast China: Contamination assessment and source apportionment. <i>Journal of Geochemical Exploration</i> , 2020, 208, 106403.	1.5	66
22	Rice-duck co-culture integrated different fertilizers reduce P losses and Pb accumulation in subtropical China. <i>Chemosphere</i> , 2020, 245, 125571.	4.2	9
23	Heavy metal concentrations of soils near the large opencast coal mine pits in China. <i>Chemosphere</i> , 2020, 244, 125360.	4.2	55
24	Remediation of cadmium and lead polluted soil using thiol-modified biochar. <i>Journal of Hazardous Materials</i> , 2020, 388, 122037.	6.5	182
25	Distribution and health risk assessment of potentially toxic elements in soils around coal industrial areas: A global meta-analysis. <i>Science of the Total Environment</i> , 2020, 713, 135292.	3.9	84
26	Effects of location, climate, soil conditions and plant species on levels of potentially toxic elements in Chinese Prickly Ash pericarps from the main cultivation regions in China. <i>Chemosphere</i> , 2020, 244, 125501.	4.2	16
27	Status of copper accumulation in agricultural soils across China (1985–2016). <i>Chemosphere</i> , 2020, 244, 125516.	4.2	71
28	Medium-Term Influence of Organic Fertilization on the Quality and Yield of a Celery Crop. <i>Agronomy</i> , 2020, 10, 1418.	1.3	11
29	Ameliorative effects of silicon fertilizer on soil bacterial community and pakchoi (<i>Brassica chinensis</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.7	71
30	Differences in absorption of cadmium and lead among fourteen sweet potato cultivars and health risk assessment. <i>Ecotoxicology and Environmental Safety</i> , 2020, 203, 111012.	2.9	25
31	Heavy metal contamination and exposure risk assessment via drinking groundwater in Vehari, Pakistan. <i>Environmental Science and Pollution Research</i> , 2020, 27, 39852-39864.	2.7	76
32	Evolution of the Speciation and Mobility of Pb, Zn and Cd in Relation to Transport Processes in a Mining Environment. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 4912.	1.2	10
33	Agrochemical treatments as a source of heavy metals and rare earth elements in agricultural soils and bioaccumulation in ground beetles. <i>Science of the Total Environment</i> , 2020, 749, 141438.	3.9	59
34	Heavy metal contamination and ecological risk assessment of the agricultural soil in Shanxi Province, China. <i>Royal Society Open Science</i> , 2020, 7, 200538.	1.1	19
35	Mechanisms of electrokinetic technology to remediate different soils contaminated by cadmium. <i>E3S Web of Conferences</i> , 2020, 194, 04050.	0.2	0
36	Identification and functional characterization of ABCC transporters for Cd tolerance and accumulation in <i>Sedum alfredii</i> Hance. <i>Scientific Reports</i> , 2020, 10, 20928.	1.6	14

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38	Meta-analysis of heavy metal effects on soil enzyme activities. <i>Science of the Total Environment</i> , 2020, 737, 139744.	3.9	152
39	Antioxidant responses of barley (<i>Hordeum vulgare</i> L.) genotypes to lead toxicity. <i>Biologia (Poland)</i> , 2020, 75, 1265-1272.	0.8	3
40	Status of chromium accumulation in agricultural soils across China (1989â€“2016). <i>Chemosphere</i> , 2020, 256, 127036.	4.2	41
41	Comparison of the concentrations, sources, and distributions of heavy metal(loid)s in agricultural soils of two provinces in the Yangtze River Delta, China. <i>Environmental Pollution</i> , 2020, 264, 114688.	3.7	74
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43	The systematic exploration of cadmium-accumulation characteristics of maize kernel in acidic soil with different pollution levels in China. <i>Science of the Total Environment</i> , 2020, 729, 138972.	3.9	37
44	Mapping the probability of exceeding environmental quality standards for Cd and Pb concentrations in soil of northern Tarim Basin using Bayesian geostatistical model. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 467, 012164.	0.2	0
45	Transcriptome analysis of the ovary of beet armyworm <i>Spodoptera exigua</i> under different exposures of cadmium stress. <i>Chemosphere</i> , 2020, 251, 126372.	4.2	10
46	Pivotal role for root cell wall polysaccharides in cultivar-dependent cadmium accumulation in <i>Brassica chinensis</i> L.. <i>Ecotoxicology and Environmental Safety</i> , 2020, 194, 110369.	2.9	43
47	Hyperspectral Inversion of Chromium Content in Soil Using Support Vector Machine Combined with Lab and Field Spectra. <i>Sustainability</i> , 2020, 12, 4441.	1.6	12
48	Heavy metal concentration in the agricultural soils under the different climatic regions: a case study of Iran. <i>Environmental Earth Sciences</i> , 2020, 79, 1.	1.3	4
49	Cadmium adsorption behavior of porous and reduced graphene oxide and its potential for promoting cadmium migration during soil electrokinetic remediation. <i>Chemosphere</i> , 2020, 259, 127441.	4.2	24
50	Evaluation of the environmental effects of intensive land consolidation: A field-based case study of the Chinese Loess Plateau. <i>Land Use Policy</i> , 2020, 94, 104523.	2.5	34
51	The application of ultrasonic treatment and a bis(2-ethylhexyl)sulfosuccinate-based novel ionic liquid for cadmium extraction. <i>New Journal of Chemistry</i> , 2020, 44, 3045-3051.	1.4	3
52	Temporal dynamics of earthworm (<i>Eisenia fetida</i>) microbial communities after cadmium stress based on a compound mathematical model. <i>Environmental Science and Pollution Research</i> , 2020, 27, 16326-16338.	2.7	8
54	<i>Pteris vittata</i> coupled with phosphate rock effectively reduced As and Cd uptake by water spinach from contaminated soil. <i>Chemosphere</i> , 2020, 247, 125916.	4.2	13
55	Anti-MÃ¼llerian hormone participates in ovarian granulosa cell damage due to cadmium exposure by negatively regulating stem cell factor. <i>Reproductive Toxicology</i> , 2020, 93, 54-60.	1.3	8

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57	Metal accumulation by plants growing in China: Capacity, synergy, and moderator effects. <i>Ecological Engineering</i> , 2020, 148, 105790.	1.6	13
58	Status of arsenic accumulation in agricultural soils across China (1985–2016). <i>Environmental Research</i> , 2020, 186, 109525.	3.7	57
59	Input and output of cadmium (Cd) for paddy soil in central south China: fluxes, mass balance, and model predictions. <i>Environmental Science and Pollution Research</i> , 2020, 27, 21847-21858.	2.7	14
60	Status of mercury accumulation in agricultural soils across China (1976–2016). <i>Ecotoxicology and Environmental Safety</i> , 2020, 197, 110564.	2.9	26
61	Environment-Based Impairment in Mineral Nutrient Status and Heavy Metal Contents of Commonly Consumed Leafy Vegetables Marketed in Kyrgyzstan: a Case Study for Health Risk Assessment. <i>Biological Trace Element Research</i> , 2021, 199, 1123-1144.	1.9	19
62	Immobilization of exchangeable Cd in soil using mixed amendment and its effect on soil microbial communities under paddy upland rotation system. <i>Chemosphere</i> , 2021, 262, 127828.	4.2	46
63	Porous media transport of iron nanoparticles for site remediation application: A review of lab scale column study, transport modelling and field-scale application. <i>Journal of Hazardous Materials</i> , 2021, 403, 123443.	6.5	48
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67	Striking a balance between N sources: Mitigating soil acidification and accumulation of phosphorous and heavy metals from manure. <i>Science of the Total Environment</i> , 2021, 754, 142189.	3.9	29
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69	Cadmium level and soil type played a selective role in the endophytic bacterial community of hyperaccumulator <i>Sedum alfredii</i> Hance. <i>Chemosphere</i> , 2021, 263, 127986.	4.2	10
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71	The quantitative source apportionment of heavy metals in peri-urban agricultural soils with UNMIX and input fluxes analysis. <i>Environmental Technology and Innovation</i> , 2021, 21, 101232.	3.0	40
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73	Assessment of potentially toxic element pollution in soils and related health risks in 271 cities across China. <i>Environmental Pollution</i> , 2021, 270, 116196.	3.7	46

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75	PM2.5-bound heavy metals from the major cities in China: Spatiotemporal distribution, fuzzy exposure assessment and health risk management. <i>Journal of Cleaner Production</i> , 2021, 286, 124967.	4.6	66
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77	Soil heavy metal pollution and food safety in China: Effects, sources and removing technology. <i>Chemosphere</i> , 2021, 267, 129205.	4.2	434
78	Quantifying the influencing factors and multi-factor interactions affecting cadmium accumulation in limestone-derived agricultural soil using random forest (RF) approach. <i>Ecotoxicology and Environmental Safety</i> , 2021, 209, 111773.	2.9	28
79	Lead stress affects the reproduction of <i>Spodoptera litura</i> but not by regulating the vitellogenin gene promoter. <i>Ecotoxicology and Environmental Safety</i> , 2021, 208, 111581.	2.9	9
80	LncRNA loc105377478 promotes NPs-Nd2O3-induced inflammation in human bronchial epithelial cells through the ADIPOR1/NF- κ B axis. <i>Ecotoxicology and Environmental Safety</i> , 2021, 208, 111609.	2.9	14
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82	An Overview of the Problems and Prospects for Circular Agriculture in Sustainable Food Systems in the Anthropocene. <i>Circular Agricultural Systems</i> , 2021, 1, 1-11.	0.5	11
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87	The cadmium accumulation differences of two <i>Bidens pilosa</i> L. ecotypes from clean farmlands and the changes of some physiology and biochemistry indices. <i>Ecotoxicology and Environmental Safety</i> , 2021, 209, 111847.	2.9	14
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89	Investigation of Lithium Application and Effect of Organic Matter on Soil Health. <i>Sustainability</i> , 2021, 13, 1705.	1.6	15
90	Effect of modified biochar on the availability of some heavy metals speciation and investigation of contaminated calcareous soil. <i>Environmental Earth Sciences</i> , 2021, 80, 1.	1.3	17
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93	Regional human health risk assessment of cadmium and hexachlorocyclohexane for agricultural land in China. <i>Environmental Geochemistry and Health</i> , 2021, 43, 3715-3732.	1.8	7
94	Effects of cadmium stress at different concentrations on the reproductive behaviors of beet armyworm <i>Spodoptera exigua</i> (Hübner). <i>Ecotoxicology</i> , 2021, 30, 402-410.	1.1	14
95	Controlling Factors and Prediction of Lead Uptake and Accumulation in Various Soil-Pepper Systems. <i>Environmental Toxicology and Chemistry</i> , 2021, 40, 1443-1451.	2.2	8
96	Immobilization of Cd and Pb in a contaminated acidic soil amended with hydroxyapatite, bentonite, and biochar. <i>Journal of Soils and Sediments</i> , 2021, 21, 2262-2272.	1.5	17
97	A risk-based approach for the safety analysis of eight trace elements in Chinese flowering cabbage (<i>Brassica oleracea</i> var. capitata). <i>Journal of Environmental Health</i> , 2021, 17, 1-14.	1.7	14
98	Cadmium accumulation in wheat and maize grains from China: Interaction of soil properties, novel enrichment models and soil thresholds. <i>Environmental Pollution</i> , 2021, 275, 116623.	3.7	35
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101	Cd bioavailability and nitrogen cycling microbes interaction affected by mixed amendments under paddy-pak choi continued planting. <i>Environmental Pollution</i> , 2021, 275, 116542.	3.7	9
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106	The Pedosphere as a Sink, Source, and Record of Anthropogenic and Natural Arsenic Atmospheric Deposition. <i>Environmental Science & Technology</i> , 2021, 55, 7757-7769.	4.6	15
107	Improvement of alfalfa resistance against Cd stress through rhizobia and arbuscular mycorrhiza fungi co-inoculation in Cd-contaminated soil. <i>Environmental Pollution</i> , 2021, 277, 116758.	3.7	78
108	Seeking for an optimal strategy to avoid arsenic and cadmium over-accumulation in crops: Soil management vs cultivar selection in a case study with maize. <i>Chemosphere</i> , 2021, 272, 129891.	4.2	16
109	Facilitating effect of heavy metals on di(2-ethylhexyl) phthalate adsorption in soil: New evidence from adsorption experiment data and quantum chemical simulation. <i>Science of the Total Environment</i> , 2021, 772, 144980.	3.9	14
110	Assembly strategies of the wheat root-associated microbiome in soils contaminated with phenanthrene and copper. <i>Journal of Hazardous Materials</i> , 2021, 412, 125340.	6.5	25

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111	Human Health Risk Distribution and Safety Threshold of Cadmium in Soil of Coal Chemical Industry Area. <i>Minerals</i> (Basel, Switzerland), 2021, 11, 678.	0.8	12
112	Source apportionment of heavy metals in sediments and soils in an interconnected river-soil system based on a composite fingerprint screening approach. <i>Journal of Hazardous Materials</i> , 2021, 411, 125125.	6.5	46
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114	Agricultural planning by selecting food crops with low arsenic accumulation to efficiently reduce arsenic exposure to human health in an arsenic-polluted mining region. <i>Journal of Cleaner Production</i> , 2021, 308, 127403.	4.6	11
115	Cadmium Pollution Impact on the Bacterial Community Structure of Arable Soil and the Isolation of the Cadmium Resistant Bacteria. <i>Frontiers in Microbiology</i> , 2021, 12, 698834.	1.5	28
116	Phosphate-solubilizing bacterium <i>Burkholderia</i> sp. strain N3 facilitates the regulation of gene expression and improves tomato seedling growth under cadmium stress. <i>Ecotoxicology and Environmental Safety</i> , 2021, 217, 112268.	2.9	11
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119	Organic and inorganic amendments for the remediation of nickel contaminated soil and its improvement on <i>Brassica napus</i> growth and oxidative defense. <i>Journal of Hazardous Materials</i> , 2021, 416, 125921.	6.5	22
120	High Quantum Yield Fluorescent Chitosan-Based Carbon Dots for the Turn-On-Off-On Detection of Cr(VI) and H ₂ O ₂ . <i>Nano</i> , 2021, 16, .	0.5	4
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124	Genotypic variation in cadmium concentration and nutritional traits of main celery cultivars of China. <i>Environmental Science and Pollution Research</i> , 2022, 29, 7721-7731.	2.7	2
125	Ultra-sensitive detection of Cr ²⁺ in farmland achieved by an electrosynthesized fluorescent poly(Fmoc-succinimide). <i>Dyes and Pigments</i> , 2021, 193, 109568.	2.0	6
126	A meta-analysis about the accumulation of heavy metals uptake by <i>Sedum alfredii</i> and <i>Sedum plumbizincicola</i> in contaminated soil. <i>International Journal of Phytoremediation</i> , 2022, 24, 744-752.	1.7	9
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128	Pore-scale modeling on supercritical CO ₂ invasion in 3D micromodel with randomly arranged spherical cross-sections. <i>Energy Reports</i> , 2021, 7, 33-42.	2.5	5

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129	In situ electrokinetic (EK) remediation of the total and plant available cadmium (Cd) in paddy agricultural soil using low voltage gradients at pilot and full scales. <i>Science of the Total Environment</i> , 2021, 785, 147277.	3.9	24
130	Status, fuzzy integrated risk assessment, and hierarchical risk management of soil heavy metals across China: A systematic review. <i>Science of the Total Environment</i> , 2021, 785, 147180.	3.9	25
131	Effects of sulfur application on cadmium accumulation in brown rice under wheat-rice rotation. <i>Environmental Pollution</i> , 2021, 287, 117601.	3.7	7
132	Integration of transcriptome and proteome reveals molecular mechanisms underlying stress responses of the cutworm, <i>Spodoptera litura</i> , exposed to different levels of lead (Pb). <i>Chemosphere</i> , 2021, 283, 131205.	4.2	15
133	Magnesium application reduced heavy metal-associated health risks and improved nutritional quality of field-grown Chinese cabbage. <i>Environmental Pollution</i> , 2021, 289, 117881.	3.7	13
134	Effects and mechanisms of Cd remediation with zeolite in brown rice (<i>Oryza sativa</i>). <i>Ecotoxicology and Environmental Safety</i> , 2021, 226, 112813.	2.9	5
135	Heavy metals in the water environment of Yangtze River Economic Belt: Status, fuzzy environmental risk assessment and management. <i>Urban Climate</i> , 2021, 40, 100981.	2.4	17
136	Comprehensive exploration of heavy metal contamination and risk assessment at two common smelter sites. <i>Chemosphere</i> , 2021, 285, 131350.	4.2	44
137	Remediation of soils co-contaminated with cadmium and dichlorodiphenyltrichloroethanes by king grass associated with <i>Piriformospora indica</i> : Insights into the regulation of root excretion and reshaping of rhizosphere microbial community structure. <i>Journal of Hazardous Materials</i> , 2022, 422, 126936.	6.5	20
138	Thermal reduction-desorption of cadmium from contaminated soil by a biomass co-pyrolysis process. <i>Journal of Hazardous Materials</i> , 2022, 423, 126937.	6.5	13
139	Total and bioaccessible heavy metals in cabbage from major producing cities in Southwest China: health risk assessment and cytotoxicity. <i>RSC Advances</i> , 2021, 11, 12306-12314.	1.7	21
140	Potential use of arbuscular mycorrhizal fungi for simultaneous mitigation of arsenic and cadmium accumulation in rice. <i>Journal of Experimental Botany</i> , 2022, 73, 50-67.	2.4	16
141	Physicochemical properties, metal availability and bacterial community structure in heavy metal-polluted soil remediated by montmorillonite-based amendments. <i>Chemosphere</i> , 2020, 261, 128010.	4.2	60
142	Accumulation of potentially toxic elements in agricultural soil and scenario analysis of cadmium inputs by fertilization: A case study in Quzhou county. <i>Journal of Environmental Management</i> , 2020, 269, 110797.	3.8	29
143	Comparisons of pollution characteristics, emission situations, and mass loads for heavy metals in the manures of different livestock and poultry in China. <i>Science of the Total Environment</i> , 2020, 734, 139023.	3.9	147
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