

CITATION REPORT

List of articles citing

Metal contamination and bioremediation of agricultural soils for food safety and sustainability

DOI: 10.1038/s43017-020-0061-y

Nature Reviews Earth & Environment, 2020, 1, 366-381.

Source: <https://exaly.com/paper-pdf/77157839/citation-report.pdf>

Version: 2024-04-03

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
294	Knowledge sharing and adoption behaviour: An imperative to promote sustainable soil use and management. 2020 , 36, 557-560		1
293	Nature-Inspired and Sustainable Synthesis of Sulfur-Bearing Fe-Rich Nanoparticles. 2020 , 8, 15791-15808		4
292	Effect of immobilizing reagents on soil Cd and Pb lability under freeze-thaw cycles: Implications for sustainable agricultural management in seasonally frozen land. 2020 , 144, 106040		22
291	Effect of fertilization of a biochar and compost amended technosol: Consequence on Ailanthus altissima growth and As- and Pb-specific root sorption. 2020 , 36, 766-772		4
290	The predominant role of pectin in binding Cd in the root cell wall of a high Cd accumulating rice line (<i>Oryza sativa</i> L.). 2020 , 206, 111210		12
289	Edible Green Infrastructure for Urban Regeneration and Food Security: Case Studies from the Campania Region. 2020 , 10, 358		12
288	Hydroxyapatite as a passivator for safe wheat production and its impacts on soil microbial communities in a Cd-contaminated alkaline soil. 2021 , 404, 124005		18
287	VIRS based detection in combination with machine learning for mapping soil pollution. 2021 , 268, 115845		10
286	Phytoremediation potential of twelve wild plant species for toxic elements in a contaminated soil. 2021 , 146, 106233		43
285	Possible application of stable isotope compositions for the identification of metal sources in soil. 2021 , 407, 124812		24
284	Mapping soil pollution by using drone image recognition and machine learning at an arsenic-contaminated agricultural field. 2021 , 270, 116281		22
283	Recent advances in exploring the heavy metal(loid) resistant microbiome. 2021 , 19, 94-109		24
282	Accumulation of Cd by three forage mulberry (<i>Morus atropurpurea</i> Roxb.) cultivars in heavy metal-polluted farmland: a field experiment. 2021 , 28, 3354-3360		3
281	Ameliorative effect of indole-3-acetic acid- and siderophore-producing <i>Leclercia adecarboxylata</i> MO1 on cucumber plants under zinc stress. 2021 , 16, 30-41		7
280	Banana Trunk Fibers-Infused Acidified Chitosan-Based Biocomposite for Cadmium(II) Sorption. 1-15		
279	Assessing the relevance of atmospheric heavy metal deposition with regard to ecosystem integrity and human health in Germany. 2021 , 33,		7
278	Spatial Distribution of As and Cd in Co-contaminated Soils Within the Rice Root Microzone. 2021 , 106, 115-120		1

277	Biochar for sustainable soil management. 2021 , 37, 2-6	12
276	Chitosan-based carbon nanoparticles as a heavy metal indicator and for wastewater treatment. 2021 , 11, 12015-12021	5
275	Nanomaterials for sustainable remediation of chemical contaminants in water and soil. 1-50	10
274	Enhanced Electrokinetic Remediation for the Removal of Heavy Metals From Contaminated Soils. 2021 , 11, 1799	7
273	Impacts of root pruning and magnetized water irrigation on the phytoremediation efficiency of <i>Celosia argentea</i> . 2021 , 211, 111963	1
272	Influence of biochar on trace element uptake, toxicity and detoxification in plants and associated health risks: A critical review. 1-41	23
271	Vegetation uptake of mercury and impacts on global cycling. <i>Nature Reviews Earth & Environment</i> , 2021 , 2, 269-284	30.2 35
270	A review of green remediation strategies for heavy metal contaminated soil. 2021 , 37, 936	29
269	Graphitic Carbon Nitride (CN) Reduces Cadmium and Arsenic Phytotoxicity and Accumulation in Rice (L.). 2021 , 11,	3
268	Coupling Plant Biomass Derived from Phytoremediation of Potential Toxic-Metal-Polluted Soils to Bioenergy Production and High-Value by-Products: A Review. 2021 , 11, 2982	15
267	Transport and transformation of microplastics and nanoplastics in the soil environment: A critical review. 2021 , 37, 224-242	7
266	Evaluation and Dietary Exposure Assessment of Selected Toxic Trace Elements in Durum Wheat () Imported into the Italian Market: Six Years of Official Controls. 2021 , 10,	2
265	Influence of Planting Density on the Phytoremediation Efficiency of <i>Festuca arundinacea</i> in cd-Polluted Soil. 2021 , 107, 154-159	2
264	Insights into decontamination of soils by phytoremediation: A detailed account on heavy metal toxicity and mitigation strategies. 2021 , 173, 287-304	5
263	Hydrochemical characteristics and human health risk assessment of groundwater in the Shivalik region of Sutlej basin, Punjab, India. 2021 , 14, 1	3
262	Spatio-Temporal Distribution of Environmental Health Risk of Heavy Metals in Industrial Wastewater of China during 1999-2018. 2021 , 18,	0
261	Silicon attenuates the negative effects of chromium stress in tomato plants by modifying antioxidant enzyme activities, ascorbate-glutathione cycle and glyoxalase system. 2021 , 43, 1	6
260	Biochar composites: Emerging trends, field successes and sustainability implications. 2022 ,	14

259	Different effects of foliar application of silica sol on arsenic translocation in rice under low and high arsenite stress. 2021 , 105, 22-32	3
258	The Actual Lead Toxicity for Scots Pine Seedlings in Hydroculture. 2021 , 68, S103-S115	
257	Phytoremediation potential of forage mulberry (Roxb.) for cadmium contaminated paddy soils. 2021 , 1-7	1
256	A critical review on performance indicators for evaluating soil biota and soil health of biochar-amended soils. 2021 , 414, 125378	55
255	Conventional and Contemporary Techniques for Removal of Heavy Metals from Soil.	0
254	Uranium (U) source, speciation, uptake, toxicity and bioremediation strategies in soil-plant system: A review. 2021 , 413, 125319	40
253	Enhancing phytoremediation of hazardous metal(loid)s using genome engineering CRISPR-Cas9 technology. 2021 , 414, 125493	40
252	The role of soils in the disposition, sequestration and decontamination of environmental contaminants. 2021 , 376, 20200177	10
251	Escalating health risk of thallium and arsenic from farmland contamination fueled by cement-making activities: A hidden but significant source. 2021 , 782, 146603	16
250	Integrated Life Cycle Assessment for Sustainable Remediation of Contaminated Agricultural Soil in China. 2021 , 55, 12032-12042	12
249	Simultaneous reduction and immobilization of Cr(VI) in seasonally frozen areas: Remediation mechanisms and the role of ageing. 2021 , 415, 125650	12
248	Uptake and mobilization of heavy metals through phytoremediation process from native plants species growing on complex pollutants: Antioxidant enzymes and photosynthetic pigments response. 2021 , 23, 101629	6
247	Intrusion of heavy metals/metalloids into rice (Oryza sativa L.) in relation to their status in two different agricultural management systems in Sri Lanka. 2021 , 14, 100619	3
246	Small structures with big impact: Multi-walled carbon nanotubes enhanced remediation efficiency in hyperaccumulator Solanum nigrum L. under cadmium and arsenic stress. 2021 , 276, 130130	12
245	Molecular hydrogen in agriculture. 2021 , 254, 56	4
244	Influence of light-irradiated Noccaea caerulescens on the characteristics of dissolved organic matter in its rhizospheric soil during phytoremediation. 2021 , 1	1
243	From Mangrove to Fork: Metal Presence in the Guayas Estuary (Ecuador) and Commercial Mangrove Crabs. 2021 , 10,	0
242	Micro (nano) plastic pollution: The ecological influence on soil-plant system and human health. 2021 , 788, 147815	29

241	Microbial Community Diversity Dynamics in Acid Mine Drainage and Acid Mine Drainage-Polluted Soils: Implication on Mining Water Irrigation Agricultural Sustainability. 2021 , 5,	1
240	Interfacial solar evaporation driven lead removal from a contaminated soil. e12140	6
239	Biosurfactant is a powerful tool for the bioremediation of heavy metals from contaminated soils. 2021 , 418, 126253	25
238	Global soil pollution by toxic elements: Current status and future perspectives on the risk assessment and remediation strategies - A review. 2021 , 417, 126039	50
237	Soft Computing Techniques for Appraisal of Potentially Toxic Elements from Jalandhar (Punjab), India. 2021 , 11, 8362	2
236	Effect of production temperature and particle size of rice husk biochar on mercury immobilization and erosion prevention of a mercury contaminated soil. 2021 , 420, 126646	11
235	Challenges in microbially and chelate-assisted phytoextraction of cadmium and lead - A review. 2021 , 287, 117667	20
234	A synthesis framework using machine learning and spatial bivariate analysis to identify drivers and hotspots of heavy metal pollution of agricultural soils. 2021 , 287, 117611	6
233	Modelling evaluation of key cadmium transformation processes in acid paddy soil under alternating redox conditions. 2021 , 581, 120409	5
232	Mechanistic insights into the (im)mobilization of arsenic, cadmium, lead, and zinc in a multi-contaminated soil treated with different biochars. 2021 , 156, 106638	12
231	Re-utilization of Chinese medicinal herbal residues improved soil fertility and maintained maize yield under chemical fertilizer reduction. 2021 , 283, 131262	5
230	Interactive effects of biochar and mussel shell activated concoctions on immobilization of nickel and their amelioration on the growth of rapeseed in contaminated aged soil. 2021 , 282, 130897	5
229	Impact of a super typhoon on heavy metal distribution, migration, availability in agricultural soils. 2021 , 289, 117835	3
228	The role of polysaccharides functional groups in cadmium binding in root cell wall of a cadmium-safe rice line. 2021 , 226, 112818	4
227	A composite amendment benefits rice (<i>Oryza sativa</i> L.) safety and production in cadmium-contaminated soils by unique characteristics after oxidation modification. 2022 , 806, 150484	1
226	A critical review on various remediation approaches for heavy metal contaminants removal from contaminated soils. 2022 , 287, 132369	56
225	Heavy metal pollution in coastal wetlands: A systematic review of studies globally over the past three decades. 2022 , 424, 127312	7
224	Machine learning exploration of the direct and indirect roles of Fe impregnation on Cr(VI) removal by engineered biochar. 2022 , 428, 131967	8

223	Microwave assisted carbonization and activation of biochar for energy-environment nexus: A review. 2022 , 286, 131631	9
222	Thermal reduction-desorption of cadmium from contaminated soil by a biomass co-pyrolysis process. 2022 , 423, 126937	3
221	Geographical distribution of As-hyperaccumulator <i>Pteris vittata</i> in China: Environmental factors and climate changes. 2022 , 803, 149864	4
220	Foliar dust as a reliable environmental monitor of heavy metal pollution in comparison to plant leaves and soil in urban areas. 2022 , 287, 132341	2
219	Microbial investigations of new hydrogel-biochar composites as soil amendments for simultaneous nitrogen-use improvement and heavy metal immobilization. 2022 , 424, 127154	1
218	Tuning the defects in lignin-derived-carbon and trimetallic layered double hydroxides composites (LDH@LDC) for efficient removal of U(VI) and Cr(VI) in aquatic environment. 2022 , 428, 132113	7
217	Visible light-mediated cross-coupling of electrophiles: synthesis of α -amino amides from isocyanates and ketimines. 2021 , 8, 1227-1232	8
216	Pectin extraction from cocoa (<i>Theobroma cacao</i> L) pod husk and its application as cadmium (Cd) metal adsorbent. 2021 ,	0
215	Influence of Legacy Mercury on Antibiotic Resistomes: Evidence from Agricultural Soils with Different Cropping Systems. 2021 , 55, 13913-13922	1
214	Nitrogen fixation in an electrode-free microwave plasma. 2021 ,	6
213	Microbial Bioprocess for Extracellular Squalene Production and Formulation of Nanoemulsions. 2021 , 9, 14263-14276	2
212	Layered double hydroxides: Scale production and application in soil remediation as super-stable mineralizer. 2021 , 41, 42-42	2
211	Super-stable mineralization effect of layered double hydroxides for heavy metals: Application in soil remediation and perspective. 2021 , 1, 20210052	3
210	Predicting Heavy Metal Adsorption on Soil with Machine Learning and Mapping Global Distribution of Soil Adsorption Capacities. 2021 , 55, 14316-14328	8
209	Biological response and phytoremediation of perennial ryegrass to halogenated flame retardants and Cd in contaminated soils. 2021 , 9, 106526	1
208	Current trends and future prospective in nanoremediation of heavy metals contaminated soils: A way forward towards sustainable agriculture. 2021 , 227, 112888	3
207	The response of bacterial communities to V and Cr and novel reducing bacteria near a vanadium-titanium magnetite refinery. 2022 , 806, 151214	1
206	Cadmium-tolerant bacteria: current trends and applications in agriculture. 2021 ,	1

205	China's pathways to peak carbon emissions: New insights from various industrial sectors. 2022 , 306, 118039	15
204	Earthworms as candidates for remediation of potentially toxic elements contaminated soils and mitigating the environmental and human health risks: A review. 2021 , 158, 106924	3
203	Elemental composition, rare earths and minority elements in organic and conventional wines from volcanic areas: The Canary Islands (Spain). 2021 , 16, e0258739	2
202	Design and development of electrochemical potentiostat circuit for the sensing of toxic cadmium and lead ions in soil.	2
201	Mining footprint of the underground longwall caving extraction method: A case study of a typical industrial coal area in China. 2021 , 425, 127762	1
200	A meta-analysis of potential ecological risk evaluation of heavy metals in sediments and soils. 2021 ,	4
199	Selection and breeding of pollution-safe cultivars (PSCs) An eco-friendly technology for safe utilization of heavy metal(loid) contaminated soils. 2021 , 25, 102142	1
198	Understanding and Monitoring Chemical and Biological Soil Degradation. 2022 , 75-124	0
197	Long-Term Metal Pollution Shifts Microbial Functional Profiles of Nitrification and Denitrification in Agricultural Soils.	
196	Preconcentration and determination of trace Hg(II) using ultrasound-assisted dispersive solid phase microextraction.. 2021 , 12, 53-61	1
195	Presence, sources, and risk assessment of heavy metals in the upland soils of northern China using Monte Carlo simulation.. 2021 , 230, 113154	4
194	Nanobiochar-rhizosphere interactions: Implications for the remediation of heavy-metal contaminated soils.. 2022 , 299, 118810	4
193	One-pot green synthesis of poly(hexamethylenediamine-tannic acid)-bacterial cellulose composite for the reduction, immobilization, and recovery of Cr(VI). 2022 , 10, 107026	0
192	Sustainable biochar: A facile strategy for soil and environmental restoration, energy generation, mitigation of global climate change and circular bioeconomy.. 2021 , 293, 133474	2
191	Phytoremediation of potentially toxic elements (PTEs) contaminated soils using alfalfa (<i>Medicago sativa</i> L.): A comprehensive review.. 2022 , 293, 133577	11
190	Aging features of metal(loid)s in biochar-amended soil: Effects of biochar type and aging method.. 2022 , 152922	3
189	Microplastics and Potentially Toxic Elements: Potential Human Exposure Pathways through Agricultural Lands and Policy Based Countermeasures. 2022 , 1, 102-120	7
188	Recent Progress on Single-Molecule Detection Technologies for Food Safety.. 2022 ,	4

- ¹⁸⁷ Assessment of Extraction Methods of Trace Metallic Elements in Plants: Approval of a Common Method. **2022**, 14, 1428 3
- ¹⁸⁶ Exogenous Chemical Exposure Increased Transcription Levels of the Host Virus Receptor Involving Coronavirus Infection.. **2022**,
- ¹⁸⁵ Copper stress alleviation in corn (*Zea mays* L.): Comparative efficiency of carbon nanotubes and carbon nanoparticles.. **2022**, 25, 100381 1
- ¹⁸⁴ Experimental study on the treatment of oil-based drill cutting by pulsed dielectric barrier discharge plasma at atmospheric pressure. **2022**, 339, 130757 4
- ¹⁸³ Biochar reduces the toxicity of silver to barley (*Hordeum vulgare*) and springtails (*Folsomia candida*) in a natural soil.. **2022**, 1
- ¹⁸² Effectiveness and Characterization of Novel Mineral Clay in Cd²⁺ Adsorption Process: Linear and Non-Linear Isotherm Regression Analysis. **2022**, 14, 279 1
- ¹⁸¹ Metal toxicology in low-income and lower-middle-income countries. **2022**, 705-729 0
- ¹⁸⁰ Heavy Metals and Probabilistic Risk Assessment via (a Traditional Chinese Medicine) Consumption in China.. **2021**, 12, 803592
- ¹⁷⁹ Effects of mining on the potentially toxic elements in the surrounding soils in China: A meta-analysis.. **2022**, 153562 0
- ¹⁷⁸ Effect of light combination on the characteristics of dissolved organic matter and chemical forms of Cd in the rhizosphere of *Arabidopsis thaliana* involved in phytoremediation.. **2022**, 231, 113212 0
- ¹⁷⁷ Refining health risk assessment of heavy metals in vegetables from high geochemical background areas: Role of bioaccessibility and cytotoxicity. **2022**, 159, 345-353 0
- ¹⁷⁶ Heavy metal pollution and net greenhouse gas emissions in a rice-wheat rotation system as influenced by partial organic substitution.. **2022**, 307, 114599 1
- ¹⁷⁵ A biomimetic interfacial solar evaporator for heavy metal soil remediation. **2022**, 435, 134793 3
- ¹⁷⁴ Adsorption mechanism of Pb in montmorillonite nanopore under various temperatures and concentrations.. **2022**, 112817 1
- ¹⁷³ Biosurfactants aided bioremediation mechanisms: A mini-review. 1-17 0
- ¹⁷² The rhizospheric transformation and bioavailability of mercury in pepper plants are influenced by selected Chinese soil types.. **2022**, 1 0
- ¹⁷¹ Computational analyses of bacterial strains from shotgun reads.. **2022**, 0
- ¹⁷⁰ Chemical Weathering Intensity Controls the Accumulation of Nickel in Rice (*Oryza Sativa* L.) Cultivated in Basalt-Derived Paddy Fields.

169	Potential of Industrial Hemp for Phytoremediation of Heavy Metals.. 2022 , 11,	6
168	Toxic element contents and associated multi-medium health risk assessment in an area under continuous agricultural use.. 2022 , 194, 184	0
167	Source apportionment and ecological and health risk mapping of soil heavy metals based on PMF, SOM, and GIS methods in Hulan River Watershed, Northeastern China.. 2022 , 194, 181	1
166	Urban Forests and Green Areas as Nature-Based Solutions for Brownfield Redevelopment: A Case Study from Brescia Municipal Area (Italy). 2022 , 13, 444	1
165	Prediction of Soil Heavy Metal Immobilization by Biochar Using Machine Learning.. 2022 ,	8
164	Pollution assessment and source apportionment of metals in paddy field of Salem, South India. 2022 , 81, 1	0
163	Comprehensive assessment of harmful heavy metals in contaminated soil in order to score pollution level.. 2022 , 12, 3552	2
162	Research on Ecoenvironmental Quality Evaluation System Based on Big Data Analysis.. 2022 , 2022, 5191223	
161	Realising the Circular Phosphorus Economy delivers for Sustainable Development Goals.	
160	Boosting extraction of Pb in contaminated soil via interfacial solar evaporation of multifunctional sponge. 2022 ,	0
159	Biochar, compost, iron oxide, manure, and inorganic fertilizer affect bioavailability of arsenic and improve soil quality of an abandoned arsenic-contaminated gold mine spoil.. 2022 , 234, 113358	2
158	Bioaccumulation and Risk Assessment of Potentially Toxic Elements in Soil-Rice System in Karst Area, Southwest China. 10,	2
157	Thallium isotopic compositions as tracers in environmental studies: A review.. 2022 , 162, 107148	0
156	Soil platisphere: Exploration methods, influencing factors, and ecological insights. 2022 , 430, 128503	0
155	Biochar-based composites for remediation of polluted wastewater and soil environments: Challenges and prospects.. 2022 , 297, 134163	3
154	Rhizospheric mechanisms of <i>Bacillus subtilis</i> bioaugmentation-assisted phytostabilization of Cadmium-contaminated soil.. 2022 , 154136	2
153	Comparison of bacterial communities and their functional profiling using 16S rRNA gene sequencing between the inherent serpentine-associated sites, hyper-accumulator, downgradient agricultural farmlands, and distal non-serpentine soils.. 2022 , 431, 128557	0
152	Use of superabsorbent polymer in soil-cement subsurface barriers for enhanced heavy metal sorption and self-healing.. 2022 , 154708	0

- 151 Long-term metal pollution shifts microbial functional profiles of nitrification and denitrification in agricultural soils.. **2022**, 154732 0
- 150 Preliminary studies of Volten VR4 Kaempferia parviflora herb extracts on blood glucose levels in human type-2 diabetes mellitus and its mineral element analysis. **2021**, 67, 42-53
- 149 The potential of PGPR in bioremediation of soils with heavy metal contamination. **2021**, 2, 20-27
- 148 Gold Nanoclusters Inhibit the Male Reproductive Toxicity of Cu²⁺. **2021**, 4, 13919-13926 1
- 147 Biomass partitioning of plants under soil pollution stress.. **2022**, 5, 365
- 146 Arbuscular mycorrhizae: natural modulators of plant-nutrient relation and growth in stressful environments.. **2022**, 204, 264 5
- 145 Heavy Metal Pollution and Its Prior Pollution Source Identification in Agricultural Soil: A Case Study in the Qianguo Irrigation District, Northeast China. **2022**, 14, 4494 0
- 144 Integrated network analysis reveals that exogenous cadmium-tolerant endophytic bacteria inhibit cadmium uptake in rice.. **2022**, 134655 0
- 143 Complex impacts of hydraulic fracturing return fluids on soil microbial community respiration, structure, and functional potentials.. **2022**, 1
- 142 Roles of plant-associated microorganisms in regulating the fate of Hg in croplands: A perspective on potential pathways in maintaining sustainable agriculture.. **2022**, 155204 2
- 141 Different crop rotation patterns vary heavy metals behavior in soils under plastic sheds: Evidence from field research. **2022**, 0
- 140 Nanoplastic stimulates metalloid leaching from historically contaminated soil via indirect displacement.. **2022**, 218, 118468 0
- 139 Hazardous enrichment of toxic elements in soils and olives in the urban zone of Lavrio, Greece, a legacy, millennia-old silver/lead mining area and related health risk assessment.. **2022**, 434, 128906 0
- 138 Heavy metal in the soil-grain-food path: an overview of the role of Mycotoxins in potential hazards associated with animal products. 42,
- 137 Microbial Degradation of Polychlorinated Biphenyls (PCBs): Usage of Bacteria and Fungi. **2022**, 547-573
- 136 The role of value co-creation in linking green purchase behavior and corporate social responsibility An empirical analysis of the agri-food sector in China. **2022**, 132195 2
- 135 Contamination with multiple heavy metals decreases microbial diversity and favors generalists as the keystones in microbial occurrence networks.. **2022**, 119406 0
- 134 Effects of soil amendments, foliar sprayings of silicon and selenium and their combinations on the reduction of cadmium accumulation in rice. **2022**, 32, 649-659 0

133	Biochar and sustainable development goals. 2022 , 15-22	0
132	Land Use and Soil Contamination in Dry Tropical Ecosystems. 2022 , 81-97	
131	Bioelectrochemical systems-based metal removal and recovery from wastewater and polluted soil: Key factors, development, and perspective. 2022 , 317, 115333	1
130	Meta-analysis of Cd input-output fluxes in agricultural soil. 2022 , 303, 134974	0
129	Assessment of Current Risks of Excessive Heavy Metal Accumulation in Soils Based on the Concept of Critical Loads: A Review. 2022 , 55, 627-640	0
128	Conducting polymer based visible light photocatalytic composites for pollutant removal: Progress and prospects. 2022 , 102698	0
127	Plant growth-promoting bacteria in phytoremediation of metal-polluted soils: Current knowledge and future directions. 2022 , 156435	2
126	Mobilization of contaminants: Potential for soil remediation and unintended consequences. 2022 , 839, 156373	0
125	Biological transformation as a technique in pollution decontamination. 2022 , 123-150	
124	Microbial trait-based approaches for agroecosystems. 2022 ,	
123	Multipurpose uses of fiber cropsSocietal, economic, and environmental development. 2022 , 181-229	
122	Meeting a threat of the Anthropocene: Taste avoidance of metal ions by Drosophila. 2022 , 119,	0
121	Two plant growth-promoting bacterial Bacillus strains possess different mechanisms in affecting cadmium uptake and detoxification of Solanum nigrum L.. 2022 , 135488	1
120	Analysis of Agricultural Products Supply Chain Traceability System Based on Internet of Things and Blockchain. 2022 , 2022, 1-9	
119	Interactions of pristine and aged nanoplastics with heavy metals: Enhanced adsorption and transport in saturated porous media. 2022 , 437, 129311	1
118	Nanotechnology: A sustainable solution for heavy metals remediation. 2022 , 18, 100718	1
117	Electrochemical Analysis for the Rapid Screening of Copper-Tolerant Bacteria.	
116	Polymetallic Stress Changes the Endogenous Status of Brassinosteroids and Reduces the Effectiveness of Photochemical Reactions Photosystem II in Barley Plants. 2022 , 504, 123-127	1

- 115 Analyses of the Heavy Metal Resistance Pattern and Biosorption Potential of an Indigenous *Bacillus tropicus* Strain Isolated from Arable Soil. 1-15 0
- 114 The Effect of Immobilizing Agents on Zn and Cu Availability for Plants in Relation to Their Potential Health Risks. **2022**, 12, 6538 1
- 113 Integrating design and ecological theory to achieve adaptive diverse pastures. **2022**,
- 112 Assessing Farmer Incentives for Transitioning Toward Sustainable Agriculture and Provisioning of Clean Water. 4, 0
- 111 Exogenous calcium oxide nanoparticles alleviate cadmium toxicity by reducing Cd uptake and enhancing antioxidative capacity in barley seedlings. **2022**, 438, 129498 0
- 110 Pollution pressure and soil depth drive prokaryotic microbial assemblage and co-occurrence patterns in an organic polluted site. **2022**, 438, 129570 0
- 109 Influence of magnetized water irrigation on characteristics of antioxidant enzyme, ferritin, and Cd excretion in *Festuca arundinacea* during phytoextraction. **2022**, 438, 129527 0
- 108 Facile synthesis of widened MoS₂ nanosheets vertically anchored on natural cellulose fibers for efficient removal of mercury ions from aquatic systems. **2022**, 10, 108229 0
- 107 Bioavailability and health risk of toxic heavy metals (As, Hg, Pb and Cd) in urban soils: A Monte Carlo simulation approach. **2022**, 214, 113772 1
- 106 Insights into growth-promoting effect of nanomaterials: Using transcriptomics and metabolomics to reveal the molecular mechanisms of MWCNTs in enhancing hyperaccumulator under heavy metal(loid)s stress. **2022**, 439, 129640 0
- 105 Clean Energy for Environmental Protection: An Outlook Toward Phytoremediation. **2022**, 419-438 0
- 104 Recapitulating potential environmental and industrial applications of biomass wastes. 0
- 103 Recent Progress on Sustainable Phytoremediation of Heavy Metals from Soil. **2022**, 108482 5
- 102 Solidification and stabilization of harmful elements in antimony tailings and synergistic utilization of multiple solid wastes. **2022**, 133, 104718 0
- 101 Pristine and biochar-supported nano zero-valent iron to immobilize As, Zn and Pb in soil contaminated by smelting activities. **2022**, 321, 116017 0
- 100 Rare earth elements in the upland soils of northern China: Spatial variation, relationships, and risk assessment. **2022**, 307, 136062 0
- 99 The Impact of Pollution Events on the Productivity of Related Industries:A Case Study of Cadmium-Contaminated Industry. 1-17 0
- 98 Ab initio calculation of the adsorption of As, Cd, Cr, and Hg heavy metal atoms onto the illite(001) surface: Implications for soil pollution and reclamation. **2022**, 312, 120072 0

97	Subcellular localization and compartment-specific toxicokinetics of cadmium, arsenic, and zinc in brandling worm <i>Eisenia fetida</i> . 2022 , 308, 136482	1
96	Manganese stabilization in mine tailings by MgO-loaded rice husk biochar: Performance and mechanisms. 2022 , 308, 136292	0
95	Whole cell evaluation and the enzymatic kinetic study of urease from ureolytic bacteria affected by potentially toxic elements. 2022 , 265, 127208	0
94	Hazardous toxic metal(loid)s in top- and deep-soils during the transformation of aquaculture ponds restored to farmland. 2022 , 852, 158569	0
93	Elucidating the spatial determinants of heavy metals pollution in different agricultural soils using geographically weighted regression. 2022 , 853, 158628	0
92	Modeling phytoremediation of heavy metal contaminated soils through machine learning. 2023 , 441, 129904	1
91	Source-soil-rice-human multi-objective optimization to minimize the cadmium intake risk to consumers of field planting rice. 2023 , 441, 129984	0
90	Biochar as an Emerging Amendment for Remediation of Heavy Metals-Contaminated Soil. 2022 , 445-485	0
89	Heavy Metal/Metalloid Indexing and Balances in Agricultural Soils: Methodological Approach for Research. 2022 , 91, 2687-2697	0
88	Bioremediation: A favorable perspective to eliminate heavy metals from polluted soil. 2023 , 209-230	0
87	Role of Microbial Biofilms in Bioremediation. 2022 , 163-187	0
86	Impact of Microbial Diversity on the Environment. 2022 , 22-40	0
85	Core Microbiota in the Rhizosphere of Heavy Metal Accumulators and Its Contribution to Plant Performance. 2022 , 56, 12975-12987	0
84	Higher facilitation for stress-intolerant ecotypes along a metal pollution gradient are due to a decrease in performance in absence of neighbours.	0
83	Isotherm and kinetics modeling of biosorption and bioreduction of the Cr(VI) by <i>Brachybacterium paraconglomeratum</i> ER41. 2022 , 26,	0
82	Chromium in plant-soil Nexus: Speciation, uptake, transport and sustainable remediation techniques. 2022 , 120350	0
81	Highly-efficient fluoride retention in on-site solidification/stabilization of phosphogypsum: Cemented paste backfill synergizes with poly-aluminum chloride activation. 2022 , 136652	1
80	Genetically engineered microorganisms for environmental remediation. 2022 , 136751	0

- 79 Electrochemical analysis for the rapid screening of copper-tolerant bacteria. **2022**, 148, 108276 ○
- 78 Distinct structural strategies with similar functional responses of abundant and rare subcommunities regarding heavy metal pollution in the Beiyun river basin. **2022**, 309, 136659 ○
- 77 Bioremediation Technologies for the Treatment of Water Contaminated by Organic and Inorganic Contaminants. **2022**, 61-129 ○
- 76 Source-oriented Probabilistic Health Risk Assessment of Soil Potentially Toxic Elements in A Typical Mining City. **2022**, 130222 1
- 75 Construction of the composites of nitrogen and sulfur-doped porous carbon and layered double hydroxides and the synergistic removal of heavy metal pollutants. **2022**, 33, 103824 ○
- 74 Uptake of lead and zinc from soil by blackberry plants (*Rubus fruticosus* L. agg.) and translocation from roots to leaves. **2022**, 100313 ○
- 73 The role of sulfur nutrition in plant response to metal(loid) stress: Facilitating biofortification and phytoremediation. **2022**, 130283 ○
- 72 Heavy metal(loid)s in agricultural soil from main grain production regions of China: Bioaccessibility and health risks to humans. **2022**, 159819 ○
- 71 Stimulated leaching of metalloids along 3D-printed fractured rock vadose zone. **2022**, 226, 119224 ○
- 70 Effects of accumulator plant species straw on the cadmium and nutrient uptake of potato. ○
- 69 Regional metal pollution risk assessment based on a big data framework: A case study of the eastern Tianshan mining area, China. **2022**, 145, 109585 ○
- 68 Modified biochar/humic substance/fertiliser compound soil conditioner for highly efficient improvement of soil fertility and heavy metals remediation in acidic soils. **2023**, 325, 116614 ○
- 67 Biologically bound nickel accelerated de-polymerization of polyethylene to high value hydrocarbons and hydrogen. ○
- 66 Mycosynthesis of Metal-Containing NanoparticlesBungal Metal Resistance and Mechanisms of Synthesis. **2022**, 23, 14084 1
- 65 Comparative Evaluation of Technologies at a Heavy Metal Contaminated Site: The Role of Feasibility Studies. **2022**, 9, 139 ○
- 64 Plasma Nanoengineering of Bioresource-Derived Graphene Quantum Dots as Ultrasensitive Environmental Nanoprobes. ○
- 63 Catalysis toward metal-based substrates: A new prospect for inorganic chemistry. **2022**, 1
- 62 Preparation of Gold Nanoparticles/Polydopamine Composite for Heavy Metal Ion Detection. ○

- 61 Recent Advances in the Graphene Quantum Dot-Based Biological and Environmental Sensors. **2022**, 100130 ○
- 60 Ecological and human health risk assessment of metals in soils and wheat along sutlej river (India). **2022**, 137331 ○
- 59 Mesoporous carbon material prepared from sewage sludge hydrochar using Pluronic F127 as template for efficient removal of phenolic compounds: Experimental study and mechanism interpretation via advanced statistical physics model. **2023**, 326, 116841 ○
- 58 Natural formation of copper sulfide nanoparticles via microbially mediated organic sulfur mineralization in soil: Processes and mechanisms. **2023**, 430, 116300 ○
- 57 Intercropping of *Pinellia ternata* (herbal plant) with *Sedum alfredii* (Cd-hyperaccumulator) to reduce soil cadmium (Cd) absorption and improve yield. **2023**, 318, 120930 ○
- 56 Environmental impact of metal halide perovskite solar cells and potential mitigation strategies: A critical review. **2023**, 219, 115066 ○
- 55 Polyaspartic acid assisted-phytoremediation of cadmium-contaminated farmland: Phytoextraction efficiency, soil quality, and rhizosphere microbial community. **2023**, 862, 160736 1
- 54 Enrichment, contamination, ecological and health risks of toxic metals in agricultural soils of an industrial city, northwestern China. **2023**, 3, 100043 1
- 53 Challenges and opportunities for improving the environmental quality of cadmium-contaminated soil in China. **2023**, 445, 130560 ○
- 52 Fe-biochar for simultaneous stabilization of chromium and arsenic in soil: Rational design and long-term performance. **2023**, 862, 160843 ○
- 51 Multi-metal electrochemical response mechanism for direct copper recovery from waste printed circuit boards via sulfate- and chloride-system electrolysis. **2023**, 190, 106804 ○
- 50 Insights on strain 115 plant growth-promoting bacteria traits and its contribution in lead stress alleviation in pea (*Pisum sativum* L.) plants. **2023**, 205, 1
- 49 Trends and Prospects of Sediment Microbial Fuel Cells as Sustainable Aquatic Ecosystem Remediation Technology. **2022**, 44, 468-492 ○
- 48 Pros and Cons of Biochar to Soil Potentially Toxic Element Mobilization and Phytoavailability: Environmental Implications. 1
- 47 Microbial remediation mechanisms and applications for lead-contaminated environments. **2023**, 39, ○
- 46 Arsenic in Gold Mining Wastes: An Environmental and Human Health Threat in Ghana. **2023**, 49-83 ○
- 45 Bitkilerde Ağır Metal Stresine Verilen Fizyolojik ve Moleküler Yanıtlar. ○
- 44 Effects of *Ascophyllum Nodosum* and Soil Amendments on the Development of Maize Seedlings Cultivated Under Acid Oxisol. ○

- 43 Advances in Remediation of Contaminated Sites. **2023**, 11, 157 o
- 42 Symbiosis Mechanisms and Usage of Other Additives Like Biochar in Soil Quality Management. **2023**, 271-305 o
- 41 Nanobiochar for the remediation of contaminated soil and water: challenges and opportunities. **2023**, 5, o
- 40 Distinctive Structure and Assembly of Phyllosphere Microbial Communities between Wild and Cultivated Rice. o
- 39 Removal of Cd²⁺ from wastewater to form a three-dimensional fiber network using Si-Mg doped industrial lignin-based carbon materials. **2023**, 229, 62-69 o
- 38 Recent advances in biochar amendments for immobilization of heavy metals in an agricultural ecosystem: A systematic review. **2023**, 319, 120937 o
- 37 Variation in pollution status, sources, and risks of soil heavy metals in regions with different levels of urbanization. **2023**, 866, 161355 1
- 36 Prediction of the concentration of cadmium in agricultural soil in the Czech Republic using legacy data, preferential sampling, Sentinel-2, Landsat-8, and ensemble models. **2023**, 330, 117194 o
- 35 Remediation methods of heavy metal contaminated soils from environmental and geotechnical standpoints. **2023**, 867, 161468 2
- 34 The effects of long-term freezing/thawing on the strength properties and the chemical stability of compound solidified/stabilized lead-contaminated soil. o
- 33 Health Risk of Heavy Metals Related to Consumption of Vegetables in Areas of Industrial Impact in the Republic of Kazakhstan: Case Study for Oskemen. **2023**, 20, 275 o
- 32 Screening of Azotobacter, Bacillus and Pseudomonas Species as Plant Growth-Promoting Bacteria. **2023**, 11, 80 1
- 31 The Roles of Microbes in Stream Restorations. o
- 30 Human impacts on risk of antibiotics in soil differentially depend on land system across scales. o
- 29 Metal and metalloid sources apportionment in soil of two major agroecosystems of southern China. **2023**, 195, o
- 28 Heavy metal stress alleviation in plants by ZnO and TiO₂ nanoparticles. **2023**, 347-365 o
- 27 Migration of Dissolved Organic Matter in the Epikarst Fissured Soil of South China Karst. **2023**, 12, 887 o
- 26 Protists at the plant-bacterial interface: Impacts and prospective applications. **2023**, 125, 102011 o

- 25 Evaluation of scale-up effect on cold-active enzyme production and biodegradation tests using pilot-scale bioreactors and a 3D soil tank. **2023**, 450, 131078 ○
- 24 Pollution and health risk assessment of mine tailings contaminated soils in India from toxic elements with statistical approaches. **2023**, 324, 138267 ○
- 23 Nanobubble oxygenated increases crop production via soil structure improvement: The perspective of microbially mediated effects. **2023**, 282, 108263 ○
- 22 Earthworms enhance the bioremediation of tris(2-butoxyethyl) phosphate-contaminated soil by releasing degrading microbes. **2023**, 452, 131303 ○
- 21 The leaching behaviors of lead, zinc, and sulfate in pyrite ash contaminated soil: mineralogical assessments and environmental implications. **2023**, 11, 109687 ○
- 20 Transformation kinetics of exogenous nickel in a paddy soil during anoxic-oxic alteration: Roles of organic matter and iron oxides. **2023**, 452, 131246 ○
- 19 Electrowinning and electrodeposition for metal separation and purification from polymetallic concentrates after waste printed circuit board smelting. **2023**, 158, 146-152 ○
- 18 Phytoremediation, bioaccessibility and ecotoxicological risk assessment of arsenic in a gold mining area. **2023**, 319, 138030 ○
- 17 Selenium and *Bacillus proteolyticus* SES synergistically enhanced ryegrass to remediate Cu²⁺ and Cd²⁺ contaminated soil. **2023**, 323, 121272 ○
- 16 Trace Element Occurrence in Vegetable and Cereal Crops from Parts of Asia: A Meta-data Analysis of Crop-Wise Differences. ○
- 15 A global perspective on e-waste recycling. **2023**, 2, 100028 ○
- 14 Effects of foliar application of abscisic acid on antioxidant content, phytohormones in strawberry shoots, and translocation of various heavy metals. **2023**, 314, 111943 ○
- 13 Persistence of Micro- and Nanoplastics in Soil. **2023**, 97-124 ○
- 12 Influences of arbuscular mycorrhizal fungi on crop growth and potentially toxic element accumulation in contaminated soils: A meta-analysis. 1-22 ○
- 11 Effects of pH and phosphate on cadmium adsorption onto goethite and a paddy soil: experiments and NOM-CD model. **2023**, 23, 2072-2082 ○
- 10 SO₂-Driven In Situ Formation of Superstable Hg₃Se₂Cl₂ for Effective Flue Gas Mercury Removal. **2023**, 57, 5424-5432 ○
- 9 Cannabis sativa. **2023**, 115-128 ○
- 8 Sustainable remediation and redevelopment of brownfield sites. **2023**, 4, 271-286 ○

- 7 Effects of zero-valent iron added in the flooding or drainage process on cadmium immobilization in an acid paddy soil. **2024**, 138, 19-31 ○
- 6 Indicator Spectral Bands and Logistic Models for Detecting Diesel and Gasoline Polluted Soils Based on Close-Range Hyperspectral Image Data. **2023**, 61, 1-13 ○
- 5 Metals could challenge pollinator conservation in legacy cities. ○
- 4 Dark septate endophyte *Exophiala pisciphila* promotes maize growth and alleviates cadmium toxicity. 14, ○
- 3 Effects of γ -Fe₂O₃ nanoparticles and biochar on plant growth and fruit quality of muskmelon under cadmium stress. ○
- 2 Bioremediation system consisted with *Leclercia adecarboxylata* and nZVI@Carbon/Phosphate for lead immobilization: The passivation mechanisms of chemical reaction and biological metabolism in soil. **2023**, 340, 117888 ○
- 1 Deciphering the dynamics of metal and antibiotic resistome profiles under different metal(loid) contamination levels. **2023**, 455, 131567 ○