

Phytoremediation of heavy metals”Concepts and app

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Water Leaching of Chelated Pb Complexes from Post-Phytoremediation Biomass. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	1.1	6
2	Copper changes the yield and cadmium/zinc accumulation and cellular distribution in the cadmium/zinc hyperaccumulator <i>Sedum plumbizincicola</i> . <i>Journal of Hazardous Materials</i> , 2013, 261, 332-341.	6.5	31
3	Phytoextraction of Cr(VI) from soil using <i>Portulaca oleracea</i> . <i>Toxicological and Environmental Chemistry</i> , 2013, 95, 1338-1347.	0.6	14
5	Metallothionein multigene family expression is differentially affected by Cr(III) and Cr(VI) in <i>Solanum nigrum</i> plants. <i>Food and Energy Security</i> , 2013, 2, 130-140.	2.0	14
6	Variations in Metal Tolerance and Accumulation in Three Hydroponically Cultivated Varieties of <i>Salix integra</i> Treated with Lead. <i>PLoS ONE</i> , 2014, 9, e108568.	1.1	59
7	Phytoremediation of Soils Contaminated with Metals and Metalloids at Mining Areas: Potential of Native Flora. , 0, , .		27
8	Capacidad fitorremediadora de cinco especies altoandinas de suelos contaminados con metales pesados. <i>Revista Peruana De Biología</i> , 2014, 21, .	0.1	5
9	Arbuscular Mycorrhizal Fungi and Metal Phytoremediation. , 2014, , 133-160.		16
10	Sorption Stability and Mechanism Exploration of Palygorskite as Immobilization Agent for Cd in Polluted Soil. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	1.1	22
11	Effect of Exogenous Spermidine on the Absorption of Copper Ions in <i>Salix Matsudana</i> . <i>Applied Mechanics and Materials</i> , 0, 587-589, 904-907.	0.2	0
12	Phytoremediation of Radionuclides: A Report on the State of the Art. , 2014, , 1-31.		7
13	A field study on phytoremediation of dredged sediment contaminated by heavy metals and nutrients: the impacts of sediment aeration. <i>Environmental Science and Pollution Research</i> , 2014, 21, 13452-13460.	2.7	18
14	Photosynthesis at the forefront of a sustainable life. <i>Frontiers in Chemistry</i> , 2014, 2, 36.	1.8	65
15	Use of phytoremediation and biochar to remediate heavy metal polluted soils: a review. <i>Solid Earth</i> , 2014, 5, 65-75.	1.2	372
16	Study on the Incineration Experiment to Dispose <i>Pteris vittata</i> L. <i>Applied Mechanics and Materials</i> , 0, 700, 487-492.	0.2	2
18	Arsenic Uptake and Translocation by Plants in Pot and Field Experiments. <i>International Journal of Phytoremediation</i> , 2014, 16, 804-823.	1.7	21
19	Evaluating the phytoremediation potential of <i>Phragmites australis</i> grown in pentachlorophenol and cadmium co-contaminated soils. <i>Environmental Science and Pollution Research</i> , 2014, 21, 1304-1313.	2.7	69
20	Adaptive plasticity of <i>Laguncularia racemosa</i> in response to different environmental conditions: integrating chemical and biological data by chemometrics. <i>Ecotoxicology</i> , 2014, 23, 335-348.	1.1	24

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21	Reuse of heavy metal-accumulating <i>Cynodon dactylon</i> in remediation of water contaminated by heavy metals. <i>Frontiers of Environmental Science and Engineering</i> , 2014, 8, 952-959.	3.3	6
22	Thermal studies and chromium removal efficiency of thermoresponsive hyperbranched copolymers based on PEG-methacrylates. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 116, 401-409.	2.0	8
23	Plant Cell Responses to Cadmium and Zinc. <i>Plant Cell Monographs</i> , 2014, , 209-246.	0.4	36
24	Chemical Stabilization of Metal-Contaminated Mine Soil: Early Short-Term Soil-Amendment Interactions and Their Effects on Biological and Chemical Parameters. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	1.1	22
25	Enhancing phytoextraction of Cd by combining poplar (clone "214") with <i>Pseudomonas fluorescens</i> and microbial consortia. <i>Environmental Science and Pollution Research</i> , 2014, 21, 1796-1808.	2.7	22
26	Ecological risk and pollution history of heavy metals in Nansha mangrove, South China. <i>Ecotoxicology and Environmental Safety</i> , 2014, 104, 143-151.	2.9	81
27	Assessment of cadmium accumulation, toxicity, and tolerance in Brassicaceae and Fabaceae plants—implications for phytoremediation. <i>Environmental Science and Pollution Research</i> , 2014, 21, 10286-10293.	2.7	59
28	Biosorption properties of pretreated sporopollenin biomass for lead(II) and copper(II): Application of response surface methodology. <i>Ecological Engineering</i> , 2014, 68, 200-208.	1.6	37
29	Microbially assisted phytoremediation approaches for two multi-element contaminated sites. <i>Environmental Science and Pollution Research</i> , 2014, 21, 6845-6858.	2.7	54
30	Facultative hyperaccumulation of heavy metals and metalloids. <i>Plant Science</i> , 2014, 217-218, 8-17.	1.7	274
31	Rhizofiltration potential of <i>Arundo donax</i> for cadmium and zinc removal from contaminated wastewater. <i>Chemical Papers</i> , 2014, 68, .	1.0	22
32	The effects of substrate type, HRT and reed on the lead removal in horizontal subsurface-flow constructed wetland. <i>Desalination and Water Treatment</i> , 0, , 1-11.	1.0	0
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34	Inkpen-printed reusable colorimetric sensors for the detection of Hg(II). <i>RSC Advances</i> , 2014, 4, 46145-46151.	1.7	6
35	Optical chemosensors for Hg ²⁺ from terthiophene appended rhodamine derivatives: FRET based molecular and in situ hybrid gold nanoparticle sensors. <i>New Journal of Chemistry</i> , 2014, 38, 3831.	1.4	26
36	Disposable Electrochemical Sensor to Evaluate the Phytoremediation of the Aquatic Plant <i>Lemna minor</i> L. toward Pb ²⁺ and/or Cd ²⁺ . <i>Environmental Science & Technology</i> , 2014, 48, 7477-7485.	4.6	31
37	Assessment of the employment of halophyte plant species for the phytomanagement of mine tailings in semiarid areas. <i>Ecological Engineering</i> , 2014, 71, 598-604.	1.6	29
38	Endophytic bacteria: Prospects and applications for the phytoremediation of organic pollutants. <i>Chemosphere</i> , 2014, 117, 232-242.	4.2	308

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39	Trace metal bioindication and phytoremediation potentialities of <i>Phalaris arundinacea</i> L. (reed canary) Tj ETQq0 0 0,rgBT /Overlock 10 Tf	1.5	43
40	The significant contribution of mycorrhizal fungi and earthworms to maize protection and phytoremediation in Cd-polluted soils. <i>Pedobiologia</i> , 2014, 57, 223-233.	0.5	25
41	Assessment of biotic response to heavy metal contamination in <i>Avicennia marina</i> mangrove ecosystems in Sydney Estuary, Australia. <i>Ecotoxicology and Environmental Safety</i> , 2014, 107, 284-290.	2.9	60
42	Distribution of chromium species in a Cr-polluted soil: Presence of Cr(III) in glomalin related protein fraction. <i>Science of the Total Environment</i> , 2014, 493, 828-833.	3.9	85
43	The influence of earthworm and mycorrhizal co-inoculation on Cd speciation in a contaminated soil. <i>Soil Biology and Biochemistry</i> , 2014, 78, 21-29.	4.2	31
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48	Quantum dot-based turn-on fluorescent probe for imaging intracellular zinc(II) and cadmium(II) ions. <i>Mikrochimica Acta</i> , 2014, 181, 1361-1367.	2.5	19
49	A bisphosphonate increasing the shoot biomass of the metal hyperaccumulator <i>Noccaea caerulea</i> . <i>Chemosphere</i> , 2014, 95, 566-571.	4.2	7
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55	Effects of in situ biological treatments on heavy metal release of urban river sediment. <i>Frontiers of Environmental Science and Engineering</i> , 2014, 8, 607-615.	3.3	2
56	Quality of trace element contaminated soils amended with compost under fast growing tree <i>Paulownia fortunei</i> plantation. <i>Journal of Environmental Management</i> , 2014, 144, 176-185.	3.8	23

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57	Mn accumulation and tolerance in <i>Celosia argentea</i> Linn.: A new Mn-hyperaccumulating plant species. <i>Journal of Hazardous Materials</i> , 2014, 267, 136-141.	6.5	53
58	Halophyte agriculture: Success stories. <i>Environmental and Experimental Botany</i> , 2014, 107, 71-83.	2.0	358
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60	<i>Penicillium aculeatum</i> PDR-4 and <i>Trichoderma</i> sp. PDR-16 promote phytoremediation of mine tailing soil and bioenergy production with sorghum-sudangrass. <i>Ecological Engineering</i> , 2014, 69, 186-191.	1.6	40
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62	Accumulation of heavy metals in a constructed wetland treating road runoff. <i>Ecological Engineering</i> , 2014, 70, 133-139.	1.6	67
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64	Copper-induced adaptation, oxidative stress and its tolerance in <i>Aspergillus niger</i> UCP1261. <i>Electronic Journal of Biotechnology</i> , 2015, 18, 418-427.	1.2	38
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67	Analysis of microbiologically stimulated biomass of <i>Salix viminalis</i> L. in the presence of Cd ²⁺ under in vitro conditions – implications for phytoremediation. <i>Acta Biologica Cracoviensia Series Botanica</i> , 2015, 57, 67-78.	0.5	3
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69	Interactive effect between Cu-adapted arbuscular mycorrhizal fungi and biotreated agrowaste residue to improve the nutritional status of <i>Oenothera picensis</i> growing in Cu-polluted soils. <i>Journal of Plant Nutrition and Soil Science</i> , 2015, 178, 126-135.	1.1	52
70	Efficacy of Chicken Litter and Wood Biochars and Their Activated Counterparts in Heavy Metal Clean up from Wastewater. <i>Agriculture (Switzerland)</i> , 2015, 5, 806-825.	1.4	31
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74	Jacks of metal/metalloid chelation trade in plants – an overview. <i>Frontiers in Plant Science</i> , 2015, 6, 192.	1.7	148

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76	Rela�ões da anatomia radicular na absor�o, no ac�mulo e na toler�ncia ao chumbo em <i>Echinodorus grandiflorus</i> . Revista Brasileira De Engenharia Agr�cola E Ambiental, 2015, 19, 605-612.	0.4	17
77	Phytoextraction of Heavy Metals from Contaminated Soil by Co-Cropping <i>Solanum nigrum</i> L. with Ryegrass Associated with Endophytic Bacterium. Separation Science and Technology, 2015, 50, 1806-1813.	1.3	11
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112	Colocalization of low-methylesterified pectins and Pb deposits in the apoplast of aspen roots exposed to lead. <i>Environmental Pollution</i> , 2015, 205, 315-326.	3.7	29
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126	Changes in bioaccumulation and translocation patterns between root and leaf of <i>Avicennia schaueriana</i> as adaptive response to different levels of metals in mangrove system. <i>Marine Pollution Bulletin</i> , 2015, 94, 176-184.	2.3	35
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1012	Behavior of glutathione as ligand of lead (II). <i>Chemosphere</i> , 2020, 246, 125718.	4.2	7
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1015	Tolerance and distribution of cadmium in an ornamental species <i>Althaea rosea</i> Cavan. <i>International Journal of Phytoremediation</i> , 2020, 22, 713-724.	1.7	16
1016	Bioaccumulation and physiological responses of the Coontail, <i>Ceratophyllum demersum</i> exposed to copper, zinc and in combination.. <i>Ecotoxicology and Environmental Safety</i> , 2020, 189, 110049.	2.9	16
1017	2-Hydroxymelatonin mitigates cadmium stress in <i>cucumis sativus</i> seedlings: Modulation of antioxidant enzymes and polyamines. <i>Chemosphere</i> , 2020, 243, 125308.	4.2	79

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1032	The adsorptive removal of lead ions in aquatic media: Performance comparison between advanced functional materials and conventional materials. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 2441-2483.	6.6	10
1033	Drug design strategies with metal-hydroxyquinoline complexes. <i>Expert Opinion on Drug Discovery</i> , 2020, 15, 383-390.	2.5	22
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1039	Recovery of heavy metals from canola (<i>Brassica napus</i>) and soybean (<i>Glycine max</i>) biomasses using electrochemical process. <i>Environmental Technology and Innovation</i> , 2020, 17, 100559.	3.0	28
1040	Phytoremediation of phenol by <i>Hydrilla verticillata</i> (L.f.) Royle and associated effects on physiological parameters. <i>Journal of Hazardous Materials</i> , 2020, 388, 121569.	6.5	15
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1057	Seasonal variations on trace element bioaccumulation and trophic transfer along a freshwater food chain in Argentina. <i>Environmental Science and Pollution Research</i> , 2020, 27, 40664-40678.	2.7	15
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1110	Metals Uptake by <i>Sagittaria montevidensis</i> in Contaminated Riparian Area of Matanza-Riachuelo River (Argentina). <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	4
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1130	Spatial variations of heavy metal contamination and associated risks around an unplanned landfill site in India. <i>Environmental Monitoring and Assessment</i> , 2020, 192, 335.	1.3	8
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1139	Tolerance mechanism of cadmium in <i>Ceratopteris pteridoides</i> : Translocation and subcellular distribution. <i>Ecotoxicology and Environmental Safety</i> , 2020, 197, 110599.	2.9	19
1140	Assessment of <i>Alternanthera sessilis</i> and <i>Aster philippinensis</i> as excluders in a small-scale Cu-Au processing site at Kias, Benguet, Philippines. <i>Environmental Monitoring and Assessment</i> , 2020, 192, 402.	1.3	1
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1144	Role of Cytochrome P450 Enzymes in Plant Stress Response. <i>Antioxidants</i> , 2020, 9, 454.	2.2	218
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1439	Effects of four woody plant species revegetation on habitat improvement and the spatial distribution of arsenic and antimony in zinc smelting slag. <i>International Journal of Phytoremediation</i> , 2021, 23, 1506-1518.	1.7	8
1440	Life cycle and economic assessment of enhanced ecological floating beds applied water purification. <i>Environmental Science and Pollution Research</i> , 2021, 28, 49574-49587.	2.7	3
1441	Elemental measurements and health risk assessment of sub-Saharan African medicinal plants used for cardiovascular diseases and related risk factors treatment. <i>Journal of Trace Elements in Medicine and Biology</i> , 2021, 65, 126725.	1.5	9
1442	Insights into decontamination of soils by phytoremediation: A detailed account on heavy metal toxicity and mitigation strategies. <i>Physiologia Plantarum</i> , 2021, 173, 287-304.	2.6	15
1444	Influence of soil pollution on the morphology of roots and leaves of <i>Verbascum thapsus</i> L. <i>Environmental Geochemistry and Health</i> , 2022, 44, 83-98.	1.8	5
1445	Preparation of magnetic hydrochar derived from iron-rich <i>Phytolacca acinosa</i> Roxb. for Cd removal. <i>Science of the Total Environment</i> , 2021, 769, 145159.	3.9	24
1446	Recent advances in biochar engineering for soil contaminated with complex chemical mixtures: Remediation strategies and future perspectives. <i>Science of the Total Environment</i> , 2021, 767, 144351.	3.9	72
1447	Phytoremediation of metals by colonizing plants developed in point bars in the channeled bed of the Dilávio Stream, Southern Brazil. <i>International Journal of Phytoremediation</i> , 2022, 24, 59-65.	1.7	2
1448	Phytomining of valuable metals: status and prospective-a review. <i>International Journal of Environmental Analytical Chemistry</i> , 2023, 103, 3913-3933.	1.8	3
1450	Molecular characterization of leaf spot caused by <i>Alternaria alternata</i> on buttonwood (<i>Conocarpus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 e0251471.	1.1	10
1452	Rhizofiltration of Cadmium and Zinc in Hydroponic Systems. <i>Water, Air, and Soil Pollution</i> , 2021, 232, 1.	1.1	13
1453	Gene expression and morphological responses of <i>Lolium perenne</i> L. exposed to cadmium (Cd ²⁺) and mercury (Hg ²⁺). <i>Scientific Reports</i> , 2021, 11, 11257.	1.6	15
1454	Efficiency of bacteria and bacterial assisted phytoremediation of heavy metals: An update. <i>Bioresource Technology</i> , 2021, 328, 124835.	4.8	134
1455	External application of nitrogen alleviates toxicity of cadmium on poplars via starch and sucrose metabolism. <i>Tree Physiology</i> , 2021, 41, 2126-2141.	1.4	20
1456	The Potential Application of Giant Reed (<i>Arundo donax</i>) in Ecological Remediation. <i>Frontiers in Environmental Science</i> , 2021, 9, .	1.5	13
1457	Plant-assisted metal remediation in mine-degraded land: a scientometric review. <i>International Journal of Environmental Science and Technology</i> , 2022, 19, 8085-8112.	1.8	5
1458	Advances and Applications of Water Phytoremediation: A Potential Biotechnological Approach for the Treatment of Heavy Metals from Contaminated Water. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 5215.	1.2	21

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1460	Uptake, accumulation, and translocation of Zn, Cu, Pb, Cd, Ni, and Cr by <i>P. australis</i> seedlings in an urban dredged sediment mesocosm: Impact of seedling origin and initial trace metal content. <i>Science of the Total Environment</i> , 2021, 768, 144983.	3.9	19
1461	Effects of exogenous spermidine on poplar resistance to leaf and root herbivory as affected by soil cadmium stress. <i>Journal of Environmental Management</i> , 2021, 288, 112467.	3.8	9
1463	Heavy metal removal from wastewater using nanomaterials-process and engineering aspects. <i>Chemical Engineering Research and Design</i> , 2021, 150, 323-355.	2.7	54
1464	Mechanisms of cadmium phytoremediation and detoxification in plants. <i>Crop Journal</i> , 2021, 9, 521-529.	2.3	67
1465	Metagenomics of mine tailing rhizospheric communities and its selection for plant establishment towards bioremediation. <i>Microbiological Research</i> , 2021, 247, 126732.	2.5	15
1466	A review on heavy metal contamination at mining sites and remedial techniques. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 796, 012013.	0.2	15
1467	Abandoned Mine Lands Reclamation by Plant Remediation Technologies. <i>Sustainability</i> , 2021, 13, 6555.	1.6	19
1468	Development of Phytoremediation Technology For Arsenic Removal-A State of Art. <i>International Journal of Advanced Research in Science, Communication and Technology</i> , 0, , 112-132.	0.0	0
1469	Evaluation of trace metal accumulation in six vegetable crops intercropped with phytostabilizing plant species, in a French urban wasteland. <i>Environmental Science and Pollution Research</i> , 2021, 28, 56795-56807.	2.7	4
1470	Phyto-Tolerance Degradation of Hydrocarbons and Accumulation of Heavy Metals by of <i>Cajanus cajan</i> (Pigeon Pea) in Petroleum-Oily-Sludge-Contaminated Soil. <i>Agronomy</i> , 2021, 11, 1138.	1.3	7
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1472	Rehabilitation of a Riparian Site Contaminated by Tailings from the Fundão Dam, Brazil, Using Different Remediation Strategies. <i>Environmental Toxicology and Chemistry</i> , 2021, 40, 2359-2373.	2.2	10
1473	The fate of sulfonamides in the process of phytoremediation in hydroponics. <i>Water Research</i> , 2021, 198, 117145.	5.3	27
1474	Phytoremediation Perspectives of Seven Aquatic Macrophytes for Removal of Heavy Metals from Polluted Drains in the Nile Delta of Egypt. <i>Biology</i> , 2021, 10, 560.	1.3	5
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1476	Fourier Transform Infrared Spectroscopy vibrational bands study of <i>Spinacia oleracea</i> and <i>Trigonella corniculata</i> under biochar amendment in naturally contaminated soil. <i>PLoS ONE</i> , 2021, 16, e0253390.	1.1	21
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1482	Bacterial inoculant-assisted phytoremediation of heavy metal-contaminated soil: Inoculant development and the inoculation effects. Biologia (Poland), 2021, 76, 2675-2685.	0.8	11
1483	Porous graphene-based electrodes: Advances in electrochemical sensing of environmental contaminants. Trends in Environmental Analytical Chemistry, 2021, 30, e00120.	5.3	39
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1487	Bioremediation of lignin derivatives and phenolics in wastewater with lignin modifying enzymes: Status, opportunities and challenges. Science of the Total Environment, 2021, 777, 145988.	3.9	96
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1499	Management of Abiotic Stress in Forage Crops. , 0, , .		0
1500	Cadmium (Cd) and Lead (Pb) topsoil levels and incidence of childhood leukemias. <i>Environmental Geochemistry and Health</i> , 2021, , 1.	1.8	5
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1505	Phytomanagement of Metal(loid)-Contaminated Soils: Options, Efficiency and Value. <i>Frontiers in Environmental Science</i> , 2021, 9, .	1.5	17
1507	Aquatic Plants as Bioremediators in Pollution Abatement of Heavy Metals. , 0, , .		1
1508	A holistic approach to soil contamination and sustainable phytoremediation with energy crops in the Aegean Region of Turkey. <i>Chemosphere</i> , 2021, 276, 130192.	4.2	8
1509	Hydroponic phytoremediation of paperboard mill wastewater by using vetiver (<i>Chrysopogon</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 262	3.3	27
1510	Elemental and Thermo-gravimetric Characterization of Trace Metals in Leaves and Soils as Bioindicators of Pollution in Kyiv City. <i>Water, Air, and Soil Pollution</i> , 2021, 232, 331.	1.1	0
1511	Bioretention systems for stormwater management: Recent advances and future prospects. <i>Journal of Environmental Management</i> , 2021, 292, 112766.	3.8	81
1512	<i>Lonchocarpus cultratus</i> , a Brazilian savanna tree, endures high soil Pb levels. <i>Environmental Science and Pollution Research</i> , 2021, 28, 50931-50940.	2.7	3
1513	Effects of Abiotic Stress on Soil Microbiome. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9036.	1.8	84
1514	Ecological risk assessment of heavy metals in sediment, fish, and human hair from Chabahar Bay, Makoran, Iran. <i>Marine Pollution Bulletin</i> , 2021, 169, 112345.	2.3	35

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1516	The Remediation Characteristics of Heavy Metals (Copper and Lead) on Applying Recycled Food Waste Ash and Electrokinetic Remediation Techniques. Applied Sciences (Switzerland), 2021, 11, 7437.	1.3	7
1517	Simultaneous removal of Cd (II), Ni (II), and Pb (II) from water by a submerged macrophyte pondweed (<i>Potamogeton malaianus</i>). Water Environment Research, 2021, 93, 2637-2647.	1.3	3
1518	Effect of crop straw biochars on the remediation of Cd-contaminated farmland soil by hyperaccumulator <i>Bidens pilosa</i> L.. Ecotoxicology and Environmental Safety, 2021, 219, 112332.	2.9	27
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1521	Effects of plant growth regulator and chelating agent on the phytoextraction of heavy metals by <i>Pfaffia glomerata</i> and on the soil microbial community. Environmental Pollution, 2021, 283, 117159.	3.7	35
1522	Hyperaccumulators for Potentially Toxic Elements: A Scientometric Analysis. Agronomy, 2021, 11, 1729.	1.3	7
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1528	Ryegrass (<i>Lolium multiflorum</i> L.) and Indian mustard (<i>Brassica juncea</i> L.) intercropping can improve the phytoremediation of antibiotics and antibiotic resistance genes but not heavy metals. Science of the Total Environment, 2021, 784, 147093.	3.9	20
1529	A review on the removal of heavy metals and metalloids by constructed wetlands: bibliometric, removal pathways, and key factors. World Journal of Microbiology and Biotechnology, 2021, 37, 157.	1.7	27
1530	Accumulation of heavy metals in soil and litter of roadside plantations in Western Polissia of Ukraine. Folia Forestalia Polonica, Series A, 2021, 63, 232-242.	0.1	2
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1532	Root damages induced by extended phytotoxic effects of cadmium pre-exposure against subsequent lindane uptake in rice seedlings. Environmental and Experimental Botany, 2021, 189, 104553.	2.0	0

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1534	Evaluation of phytoremediation potential of native dominant plants and spatial distribution of heavy metals in abandoned mining area in Southwest China. <i>Ecotoxicology and Environmental Safety</i> , 2021, 220, 112368.	2.9	55
1535	Phytoattenuation of Cd, Pb, and Zn in a Slag-contaminated Soil Amended with Rice Straw Biochar and Grown with Energy Maize. <i>Environmental Management</i> , 2022, 69, 196-212.	1.2	5
1536	Review On Activated Carbon: Synthesis, Properties And Applications. <i>SSRG International Journal of Engineering Trends and Technology</i> , 2021, 69, 124-139.	0.3	2
1537	Irrigating digestate to improve cadmium phytoremediation potential of <i>Pennisetum hybridum</i> . <i>Chemosphere</i> , 2021, 279, 130592.	4.2	10
1538	Insights on the bioremediation technologies for pesticide-contaminated soils. <i>Environmental Geochemistry and Health</i> , 2022, 44, 1329-1354.	1.8	36
1539	PGPR-Mediated Plant Growth Attributes and Metal Extraction Ability of <i>Sesbania sesban</i> L. in Industrially Contaminated Soils. <i>Agronomy</i> , 2021, 11, 1820.	1.3	80
1540	Metal accumulation potential and tolerance responses in <i>Alternanthera dentata</i> grown under multi metal treatment. <i>Environmental Technology and Innovation</i> , 2021, 24, 101991.	3.0	0
1541	Reflections and Insights on the Evolution of the Biological Remediation of Contaminated Soils. <i>Frontiers in Environmental Science</i> , 2021, 9, .	1.5	7
1542	Soil Chemical Properties and Maize (<i>Zea mays</i> L.) Yield influenced by Lime and Fern (<i>Pteris vittata</i>). <i>Walailak Journal of Science and Technology</i> , 2021, 18, .	0.5	0
1543	A review on plant-microbial interactions, functions, mechanisms and emerging trends in bioretention system to improve multi-contaminated stormwater treatment. <i>Journal of Environmental Management</i> , 2021, 294, 113108.	3.8	46
1544	Co-planting <i>Brassica napus</i> and <i>Salix nigra</i> as a phytomanagement alternative for copper contaminated soil. <i>Chemosphere</i> , 2021, 279, 130517.	4.2	12
1545	Identification of Cd-resistant microorganisms from heavy metal-contaminated soil and its potential in promoting the growth and Cd accumulation of bermudagrass. <i>Environmental Research</i> , 2021, 200, 111730.	3.7	50
1546	Ecological risk assessment of heavy metal contamination of mining area soil based on land type changes: An information network environ analysis. <i>Ecological Modelling</i> , 2021, 455, 109633.	1.2	16
1547	The remediation potential for PAHs of <i>Verbascum sinuatum</i> L. combined with an enhanced rhizosphere landscape: A full-scale mesocosm experiment. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2021, 31, e00657.	2.1	4
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1550	Effect of using <i>Celosia argentea</i> grown from seeds treated with a magnetic field to conduct Cd phytoremediation in drought stress conditions. <i>Chemosphere</i> , 2021, 280, 130724.	4.2	12

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1552	Identification of heavy metal-responsive genes in radish (<i>Raphanus sativus</i> L.) through RNA-Seq meta-analysis. <i>Scientia Horticulturae</i> , 2021, 288, 110402.	1.7	6
1553	Phytoremediation of Cr(VI) in wastewater using the vetiver grass (<i>Chrysopogon zizanioides</i>). <i>Minerals Engineering</i> , 2021, 172, 107141.	1.8	25
1554	The effects of phytoremediation of treated urban wastewater on the discharge of surface and subsurface drippers (Case study: Gorgan wastewater treatment plant in northern Iran). <i>Cleaner Engineering and Technology</i> , 2021, 4, 100210.	2.1	4
1555	Phytoremediation of Cd-contaminated farmland soil via various <i>Sedum alfredii</i> -oilseed rape cropping systems: Efficiency comparison and cost-benefit analysis. <i>Journal of Hazardous Materials</i> , 2021, 419, 126489.	6.5	53
1556	The behavior of heavy metals in relation to their influence on the common bean (<i>Phaseolus vulgaris</i>) symbiosis. <i>Environmental and Experimental Botany</i> , 2022, 193, 104670.	2.0	14
1557	Distribution, source and health risk assessment based on the Monte Carlo method of heavy metals in shallow groundwater in an area affected by mining activities, China. <i>Ecotoxicology and Environmental Safety</i> , 2021, 224, 112679.	2.9	77
1558	A <i>Bacillus</i> and <i>Lysinibacillus</i> sp. bio-augmented <i>Festuca arundinacea</i> phytoremediation system for the rapid decontamination of chromium influenced soil. <i>Chemosphere</i> , 2021, 283, 131186.	4.2	15
1559	Analysis of the potential of 165 ramie germplasm to be used for cadmium-contamination remediation. <i>Industrial Crops and Products</i> , 2021, 171, 113841.	2.5	7
1560	Bioaugmentation improves the anaerobic co-digestion of cadmium-containing plant residues and cow manure. <i>Environmental Pollution</i> , 2021, 289, 117885.	3.7	8
1561	Phytoextraction efficiency of <i>Arabidopsis halleri</i> is driven by the plant and not by soil metal concentration. <i>Chemosphere</i> , 2021, 285, 131437.	4.2	7
1562	Comparing the effects of humic acid and oxalic acid on Pb(II) immobilization by a green synthesized nanocrystalline hydroxyapatite. <i>Chemosphere</i> , 2021, 285, 131411.	4.2	21
1563	Physiological and biochemical responses of <i>Lawsonia inermis</i> L. to heavy metal pollution in arid environments. <i>South African Journal of Botany</i> , 2021, 143, 7-16.	1.2	5
1564	Assessment of compost and three biochars associated with <i>Ailanthus altissima</i> (Miller) Swingle for lead and arsenic stabilization in a post-mining Technosol. <i>Pedosphere</i> , 2021, 31, 944-953.	2.1	8
1565	Nanoparticles-assisted phytoremediation: Advances and applications. , 2022, , 155-178.		3
1566	Biosurfactant-assisted phytoremediation for a sustainable future. , 2022, , 399-414.		1
1567	Approaches for assisted phytoremediation of arsenic contaminated sites. , 2022, , 221-242.		2
1568	Soil microbial community and abiotic soil properties influence Zn and Cd hyperaccumulation differently in <i>Arabidopsis halleri</i> . <i>Science of the Total Environment</i> , 2022, 803, 150006.	3.9	23

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1569	The phytoextraction power of <i>Cichorium intybus</i> L. on metal-contaminated soil: Focus on time- and cultivar-depending accumulation and distribution of cadmium, lead and zinc. <i>Chemosphere</i> , 2022, 287, 132122.	4.2	3
1570	Effects of biochar on berseem clover (<i>Trifolium alexandrinum</i> , L.) growth and heavy metal (Cd, Cr, Cu,) Tj ETQq1 1 0,784314 ggBT /Ovgrd	4.2	31
1571	Recent developments in phosphate-assisted phytoremediation of potentially toxic metal(loid)s-contaminated soils. , 2022, , 345-370.		3
1572	Chelate-assisted phytoremediation. , 2022, , 131-154.		2
1573	Overcome the limits of multi-contaminated industrial soils bioremediation: Insights from a multi-disciplinary study. <i>Journal of Hazardous Materials</i> , 2022, 421, 126762.	6.5	7
1574	Phytoremediation of cadmium-contaminated sediment using <i>Hydrilla verticillata</i> and <i>Elodea canadensis</i> harbor two same keystone rhizobacteria <i>Pedospaeraceae</i> and <i>Parasegetibacter</i> . <i>Chemosphere</i> , 2022, 286, 131648.	4.2	22
1575	In-situ remediation of zinc contaminated soil using phosphorus recovery product: Hydroxyapatite/calcium silicate hydrate (HAP/Câ€“Sâ€“H). <i>Chemosphere</i> , 2022, 286, 131664.	4.2	13
1576	CRISPR-assisted strategies for futuristic phytoremediation. , 2022, , 203-220.		7
1577	Current perspectives of soil nanoremediation. , 2021, , 521-550.		1
1578	Biochar for Climate Change Adaptation: Effect on Heavy Metal Composition of <i>Telfairia occidentalis</i> Leaves. , 2021, , 1-21.		0
1579	Implications of the Phytoremediation of Heavy Metal Contamination of Soils and Wild Plants in the Industrial Area of Haina, Dominican Republic. <i>Sustainability</i> , 2021, 13, 1403.	1.6	9
1580	Role of secondary metabolites in salt and heavy metal stress mitigation by halophytic plants: An overview. , 2021, , 307-327.		4
1581	Aromatic and Medicinal Plants for Phytoremediation: A Sustainable Approach. , 2021, , 485-543.		3
1582	Potential of <i>Ricinus communis</i> for the removal of toxic metals from mining dumping sites. , 2021, , 263-286.		0
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1759	Impact of Heavy Metal Contamination on Quality Environs. , 2020, , 1-13.		1
1760	Exogenously applied oxalic acid assists in the phytoremediation of Mn by <i>Polygonum pubescens</i> Blume cultivated in three Mn-contaminated soils. <i>Frontiers of Environmental Science and Engineering</i> , 2021, 15, 1.	3.3	6
1761	Chelate-assisted phytoextraction using Brassicaceae plants. <i>Open Journal of Environmental Biology</i> , 2020, , 022-026.	0.1	0
1762	Kadmiyum ve NaCl UygulamalarÄ±nÄ±n Brokolinin (<i>Brassica oleracea</i> var. <i>italica</i>) Kuru Madde Verimi ile Cd ve Besin Elementi AlA±mlarÄ± Äœzerine Etkisi. <i>Turkish Journal of Agricultural and Natural Sciences</i> , 0, , .	0.1	1
1763	Plant Growth-promoting Bacteria for Remediation of Heavy Metal Contaminated Soil: Characteristics, Application and Prospects. <i>Microbiology and Biotechnology Letters</i> , 2020, 48, 399-421.	0.2	3
1764	Effects of Heavy Metals with Different Concentrations on Some Biological Properties of <i>Hyphantria cunea</i> Drury (Lepidoptera: Arctiidae) Larvae. <i>Journal of Anatolian Environmental and Animal Sciences</i> , 0, , .	0.2	0
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1768	Ecotoxicity of nickel and its possible remediation. , 2022, , 297-322.		11
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1770	Engineering plants for metal tolerance and accumulation. , 2022, , 455-480.		1
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1772	An overview and assessment of the existing technological options for management and resource recovery from beach wrack and dredged sediments: An environmental and economic perspective. <i>Journal of Environmental Management</i> , 2022, 302, 113971.	3.8	28
1773	A machine learning-enhanced biosensor for mercury detection based on an hydrophobin chimera. <i>Biosensors and Bioelectronics</i> , 2022, 196, 113696.	5.3	26
1774	Synergism Between Microbes and Plants for Soil Contaminants Mitigation. , 2022, , 211-235.		0

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1780	Nano-phytoremediation for soil contamination: An emerging approach for revitalizing the tarnished resource. , 2022, , 115-138.		3
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1782	Influence of land use and topography on distribution and bioaccumulation of potentially toxic metals in soil and plant leaves: A case study from Sekhukhuneland, South Africa. Science of the Total Environment, 2022, 806, 150659.	3.9	12
1783	PHYTOREMEDIATION POTENTIAL OF LEMONGRASS (CYMBOPOGON FLEXUOSUS STAPF.) GROWN ON TANNERY SLUDGE CONTAMINATED SOIL. Applied Ecology and Environmental Research, 2020, 18, 7703-7715.	0.2	4
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1785	Phytoremediation of Heavy Metals Using Salix (Willows). , 2020, , 161-174.		8
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1787	Fluoride Contaminated Groundwater. Advances in Environmental Engineering and Green Technologies Book Series, 2020, , 31-54.	0.3	0
1788	Phytoremediation of Metals by Aquatic Macrophytes. Concepts and Strategies in Plant Sciences, 2020, , 153-204.	0.6	15
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1795	Phytoremediation Potential of Oilseed Crops for Lead- and Nickel-Contaminated Soil. , 2020, , 801-820.		3
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1801	Phytoremediation Efficiency Increased by Using Plant Growth Promoting Bacteria (PGPB) and Chelates. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , 2020, , 85-103.	0.3	0
1802	PHYTOTOXICITY TEST OF KEROSENE-CONTAMINATED SOIL USING BARLEY. <i>Iraqi Journal of Agricultural Sciences</i> , 2020, 51, .	0.1	0
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1804	Growth, protein expression and heavy metal uptake by tobacco under heavy metals contaminated soil. <i>Pakistan Journal of Botany</i> , 2020, 52, .	0.2	4
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1809	Phytoremediation Potential of <i>Crotalaria juncea</i> Plants in Lead-Contaminated Soils. <i>Journal of Agricultural Science</i> , 2021, 13, 27.	0.1	1
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1822	Constructed Wetland and Microalgae: A Revolutionary Approach of Bioremediation and Sustainable Energy Production. , 2021, , 27-40.		1
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1825	Nanoremediation of toxic contaminants from the environment: challenges and scopes. , 2022, , 601-615.		1
1826	Roles of exogenous plant growth regulators on phytoextraction of Cd/Pb/Zn by <i>Sedum alfredii</i> Hance in contaminated soils. <i>Environmental Pollution</i> , 2022, 293, 118510.	3.7	36
1827	Remedial technologies for future waste management. , 2022, , 305-322.		1
1828	Catalytic hydrogenolysis of As-enriched <i>Pteris vittata</i> L. into high quality biofuel and study on the migration of heavy metals. <i>Fuel</i> , 2022, 310, 122476.	3.4	2
1829	Prediction Models Founded on Soil Characteristics for the Estimated Uptake of Nine Metals by Okra Plant, <i>Abelmoschus esculentus</i> (L.) Moench., Cultivated in Agricultural Soils Modified with Varying Sewage Sludge Concentrations. <i>Sustainability</i> , 2021, 13, 12356.	1.6	4
1830	Remediation of Pb and Cd Polluted Soils with Fulvic Acid. <i>Forests</i> , 2021, 12, 1608.	0.9	6
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1833	Public health implications of heavy metals in foods and drinking water in Ethiopia (2016 to 2020): systematic review. <i>BMC Public Health</i> , 2021, 21, 2114.	1.2	21
1834	<i>Kosteletzkya pentacarpos</i> : A Potential Halophyte Candidate for Phytoremediation in the Meta(loid)s Polluted Saline Soils. <i>Plants</i> , 2021, 10, 2495.	1.6	4
1835	Mercury Accumulation in Commercial Varieties of <i>Oryza sativa</i> L. Cultivated in Soils of La Mojana Region, Colombia. <i>Toxics</i> , 2021, 9, 304.	1.6	6
1836	Enhanced Phytoremediation of Soil Heavy Metal Pollution and Commercial Utilization of Harvested Plant Biomass: a Review. <i>Water, Air, and Soil Pollution</i> , 2021, 232, 1.	1.1	12
1837	A meta-analysis of potential ecological risk evaluation of heavy metals in sediments and soils. <i>Gondwana Research</i> , 2022, 103, 487-501.	3.0	44
1838	Detecting inorganic arsenic below WHO threshold limit; A comparative study of various sensors. <i>International Journal of Environmental Analytical Chemistry</i> , 2023, 103, 8890-8913.	1.8	7
1839	Phytoremediation of leachate contaminated soil: a biotechnical option for the bioreduction of heavy metals induced pollution in tropical landfill. <i>Environmental Science and Pollution Research</i> , 2022, 29, 22069-22081.	2.7	3
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1841	Heavy metal concentrations in floodplain soils of the Innerste River and in leaves of wild blackberries (<i>Rubus fruticosus</i> L. agg.) growing within and outside the floodplain: the legacy of historical mining activities in the Harz Mountains (Germany). <i>Environmental Science and Pollution Research</i> , 2022, 29, 22469-22482.	2.7	4
1842	Heavy Metal Pollution in Aquaculture: Sources, Impacts and Mitigation Techniques. <i>Biological Trace Element Research</i> , 2022, 200, 4476-4492.	1.9	65
1843	A Mini-Review on the Co-growth and Interactions Among Microorganisms (Fungi and Bacteria) From Rhizosphere of Metal-Hyperaccumulators. <i>Frontiers in Fungal Biology</i> , 2021, 2, .	0.9	2
1844	Application of the dry and wet biomass of bryophytes for phytoremediation of metals: Batch experiments. <i>Environmental Challenges</i> , 2021, 5, 100382.	2.0	7
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1846	Sources of Heavy Metals Pollution. <i>Environmental Chemistry for A Sustainable World</i> , 2021, , 419-454.	0.3	3
1847	Investigating cyanogen rich <i>Manihot esculenta</i> efficacy for Ru phytomining and application in catalytic reactions. <i>RSC Advances</i> , 2021, 12, 1165-1176.	1.7	2
1848	A review on nanobioremediation approaches for restoration of contaminated soil. <i>Eurasian Journal of Soil Science</i> , 2022, 11, 43-60.	0.2	12
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1851	Biosurfactant-assisted phytoremediation of potentially toxic elements in soil: Green technology for meeting the United Nations Sustainable Development Goals. <i>Pedosphere</i> , 2022, 32, 198-210.	2.1	28
1852	Assessment of heavy metal and metalloid levels and screening potential of tropical plant species for phytoremediation in Singapore. <i>Environmental Pollution</i> , 2022, 295, 118681.	3.7	9
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1854	Phytoremediation of potentially toxic elements (PTEs) contaminated soils using alfalfa (<i>Medicago</i>) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	4.2	63
1855	Environmental impacts and imperative technologies towards sustainable treatment of aquaculture wastewater: A review. <i>Journal of Water Process Engineering</i> , 2022, 46, 102553.	2.6	51
1856	Short Term Gold-Mine Tailings Exposure Induced Growth and Photosynthesis of Philippine Tung (<i>Reutealis trisperma</i> [Blanco]). <i>Sains Malaysiana</i> , 2020, 49, 2053-2063.	0.3	2
1857	Comparison of different phytoremediation strategies for acid mine drainage (AMD). <i>IOP Conference Series: Earth and Environmental Science</i> , 2022, 963, 012040.	0.2	0
1858	The effect of three types of aquatic plants on water purification and removal of cadmium under different salinity conditions in northwestern Iran. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2022, 71, 301-311.	0.6	1
1859	Higher plant remediation to control pollutants. , 2022, , 321-363.		2
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1863	Distribution and Characterization of Heavy Metal and Pollution Indices in Landfill Soil for Its Rehabilitation by Phytoremediation. <i>Journal of Geoscience and Environment Protection</i> , 2022, 10, 151-172.	0.2	1
1864	The impact of Vermicompost on <i>Pisum sativum</i> spp. Arvence L exposed to methylisothiazolinone. <i>Biologia (Poland)</i> , 2022, 77, 1109-1119.	0.8	4
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1867	Potentially Toxic Elementsâ€™ Contamination of Soils Affected by Mining Activities in the Portuguese Sector of the Iberian Pyrite Belt and Optional Remediation Actions: A Review. <i>Environments - MDPI</i> , 2022, 9, 11.	1.5	20
1868	Identification of <i>Nymphoides indica</i> and <i>Eichhornia crassipes</i> as Potential Plants for the Phytoremediation of Batik Wastewater. <i>Key Engineering Materials</i> , 0, 908, 361-366.	0.4	0

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1874	Phytoremediation of fly ash: bioaccumulation and translocation of metals in natural colonizing vegetation on fly ash lagoons. , 2022, , 501-523.		1
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1878	Phytoremediation: Background, Principle, and Application, <i>Plant Species Used for Phytoremediation. Handbook of Environmental Chemistry</i> , 2022, , 1.	0.2	0
1879	Environmental sustainability: Challenges and approaches. , 2022, , 243-270.		11
1880	Bio- and phytoremediation: plants and microbes to the rescue of heavy metal polluted soils. <i>SN Applied Sciences</i> , 2022, 4, 1.	1.5	15
1881	Advances in bioremediation of industrial wastewater containing metal pollutants. , 2022, , 163-177.		1
1882	Appraisal of nanotechnology for sustainable environmental remediation. , 2022, , 3-31.		0
1883	Lead tolerance and accumulation characteristics of three <i>Hydrangea</i> cultivars representing potential lead-contaminated phytoremediation plants. <i>Horticulture Environment and Biotechnology</i> , 2022, 63, 23-38.	0.7	9
1884	Stabilization of heavy metals in biochar derived from plants in antimony mining area and its environmental implications. <i>Environmental Pollution</i> , 2022, 300, 118902.	3.7	16
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1886	Willows: Cost-Effective Tools for Bioremediation of Contaminated Soils. , 2022, , 183-202.		1
1887	Bioremediation of Soil: An Overview. , 2022, , 1-16.		2
1888	Impacts of water deficit and post-drought irrigation on transpiration rate, root activity, and biomass yield of <i>Festuca arundinacea</i> during phytoextraction. <i>Chemosphere</i> , 2022, 294, 133842.	4.2	21
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1891	Phytoremediation of heavy metals, metalloids, and radionuclides: Prospects and challenges. , 2022, , 253-276.		2
1892	Nanoparticles in biosensor development for the detection of pathogenic bacteria in water. , 2022, , 331-358.		5
1893	Ecological aspects of aquatic macrophytes for environmental pollution control: An eco-remedial approach. , 2022, , 497-523.		1
1894	Phytoremediation and environmental bioremediation. , 2022, , 1-18.		0
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1896	Bamboo biochar greater enhanced Cd/Zn accumulation in <i>Salix psammophila</i> under non-flooded soil compared with flooded. <i>Biochar</i> , 2022, 4, 1.	6.2	16
1897	Phytoremediation of Heavy Metals Using Spinach (<i>Amarantus spinosa</i>) Grown on Contaminated Soils. <i>African Journal of Environment and Natural Science Research</i> , 2022, 5, 1-11.	0.1	0
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1899	The association between <i>Pinus halepensis</i> and the Ectomycorrhizal fungus <i>Scleroderma</i> enhanced the phytoremediation of a polymetal-contaminated soil. <i>International Journal of Environmental Science and Technology</i> , 2022, 19, 12537-12550.	1.8	2
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1902	Evaluation of <i>Nuphar lutea</i> as bioindicator of metal pollution in freshwater ecosystems. <i>Ecological Indicators</i> , 2022, 136, 108633.	2.6	2
1903	Bioavailability, Accumulation and Distribution of Toxic Metals (As, Cd, Ni and Pb) and Their Impact on <i>Sinapis alba</i> Plant Nutrient Metabolism. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 12947.	1.2	14
1904	Recent Developments in Microbeâ€“Plant-Based Bioremediation for Tackling Heavy Metal-Polluted Soils. <i>Frontiers in Microbiology</i> , 2021, 12, 731723.	1.5	30
1905	Screening of <i>Xanthium strumarium</i> (IAPS) Growing on Abandoned Habitats in Khyber Pakhtunkhwa, Pakistan: Perspectives for Phytoremediation. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11704.	1.3	7
1906	Evaluation of Cadmium Bioaccumulation-Related Physiological Effects in <i>Salvinia biloba</i> : An Insight towards Its Use as Pollutant Bioindicator in Water Reservoirs. <i>Plants</i> , 2021, 10, 2679.	1.6	6
1907	Phytoremediation of Heavy Metal Contaminated Soil and Water. , 2021, , 47-70.		1

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1912	Cd ²⁺ Ion Adsorption and Reuse of Spent Adsorbent with N-Doped Carbon Nanoparticles Coated on Cerium Oxide Nanorods Nanocomposite for Fingerprint Detection. SSRN Electronic Journal, 0, , .	0.4	0
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