

Jrg Rinklebe

List of Publications by Year in Descending Order

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

369
papers

15,659
citations

66
h-index

107
g-index

403
ext. papers

22,140
ext. citations

8.8
avg, IF

7.56
L-index

#	Paper	IF	Citations
369	The role of various ameliorants on geochemical arsenic distribution and CO ₂ -carbon efflux under paddy soil conditions.. <i>Environmental Geochemistry and Health</i> , 2022 , 1	4.7	2
368	Recovery, regeneration and sustainable management of spent adsorbents from wastewater treatment streams: A review.. <i>Science of the Total Environment</i> , 2022 , 822, 153555	10.2	12
367	Co application of biofertilizer and zinc oxide nanoparticles upregulate protective mechanism culminating improved arsenic resistance in maize.. <i>Chemosphere</i> , 2022 , 294, 133796	8.4	1
366	Biodegradation of hazardous naphthalene and cleaner production of rhamnolipids - Green approaches of pollution mitigation.. <i>Environmental Research</i> , 2022 , 112875	7.9	1
365	Physical, chemical, and microbial contaminants in food waste management for soil application: A review.. <i>Environmental Pollution</i> , 2022 , 118860	9.3	2
364	Integrated assessment of the impact of land use types on soil pollution by potentially toxic elements and the associated ecological and human health risk.. <i>Environmental Pollution</i> , 2022 , 299, 118917	9.3	2
363	Impact of catalytic hydrothermal treatment and Ca/Al-modified hydrochar on lability, sorption, and speciation of phosphorus in swine manure: Microscopic and spectroscopic investigations.. <i>Environmental Pollution</i> , 2022 , 299, 118877	9.3	2
362	Addition of walnut shells biochar to alkaline arable soil caused contradictory effects on CO ₂ and NO _x emissions, nutrients availability, and enzymes activity.. <i>Chemosphere</i> , 2022 , 293, 133476	8.4	2
361	Hormesis induced by silver iodide, hydrocarbons, microplastics, pesticides, and pharmaceuticals: Implications for agroforestry ecosystems health.. <i>Science of the Total Environment</i> , 2022 , 820, 153116	10.2	4
360	Influence of soil properties, topography, and land cover on soil organic carbon and total nitrogen concentration: A case study in Qinghai-Tibet plateau based on random forest regression and structural equation modeling.. <i>Science of the Total Environment</i> , 2022 , 821, 153440	10.2	2
359	Assessing the risk of toxic metals contamination and phytoremediation potential of mangrove in three coastal sites along the Red Sea.. <i>Marine Pollution Bulletin</i> , 2022 , 176, 113412	6.7	1
358	Understanding and Monitoring Chemical and Biological Soil Degradation. <i>Innovations in Landscape Research</i> , 2022 , 75-124	0.5	0
357	Nanobiochar-rhizosphere interactions: Implications for the remediation of heavy-metal contaminated soils.. <i>Environmental Pollution</i> , 2022 , 299, 118810	9.3	4
356	Simultaneous productions of biodiesel and biochar from krill. <i>Journal of Cleaner Production</i> , 2022 , 335, 130296	10.3	1
355	Spatial distribution, risk estimation and source apportionment of potentially toxic metal(loid)s in resuspended megacity street dust.. <i>Environment International</i> , 2022 , 160, 107073	12.9	2
354	Remediation of Cd and Cu contaminated water and soil using novel nanomaterials derived from sugar beet processing- and clay brick factory-solid wastes.. <i>Journal of Hazardous Materials</i> , 2022 , 428, 128205	12.8	4
353	Sustainable applications of rice feedstock in agro-environmental and construction sectors: A global perspective. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 153, 111791	16.2	22

352	The significant role of electron donating capacity and carbon structure of biochar to electron transfer of zerovalent iron. <i>Chemosphere</i> , 2022 , 287, 132381	8.4	2
351	Multifunctional applications of biochar beyond carbon storage. <i>International Materials Reviews</i> , 2022 , 1-51	16.1	58
350	Biochar composites: Emerging trends, field successes and sustainability implications. <i>Soil Use and Management</i> , 2022 ,	3.1	14
349	Cosorption of Zn(II) and chlortetracycline onto montmorillonite: pH effects and molecular investigations. <i>Journal of Hazardous Materials</i> , 2022 , 424, 127368	12.8	0
348	Review on the interactions of arsenic, iron (oxy)(hydr)oxides, and dissolved organic matter in soils, sediments, and groundwater in a ternary system. <i>Chemosphere</i> , 2022 , 286, 131790	8.4	8
347	Phosphorus application enhances alkane hydroxylase gene abundance in the rhizosphere of wild plants grown in petroleum-hydrocarbon-contaminated soil. <i>Environmental Research</i> , 2022 , 204, 111924	7.9	0
346	Pig carcass-derived biochar caused contradictory effects on arsenic mobilization in a contaminated paddy soil under fluctuating controlled redox conditions. <i>Journal of Hazardous Materials</i> , 2022 , 421, 126647	12.8	9
345	Value of dehydrated food waste fertiliser products in increasing soil health and crop productivity. <i>Environmental Research</i> , 2022 , 204, 111927	7.9	2
344	The beneficial and hazardous effects of selenium on the health of the soil-plant-human system: An overview. <i>Journal of Hazardous Materials</i> , 2022 , 422, 126876	12.8	17
343	Elevation in wildfire frequencies with respect to the climate change. <i>Journal of Environmental Management</i> , 2022 , 301, 113769	7.9	4
342	Elucidating the redox-driven dynamic interactions between arsenic and iron-impregnated biochar in a paddy soil using geochemical and spectroscopic techniques. <i>Journal of Hazardous Materials</i> , 2022 , 422, 126808	12.8	16
341	Prediction of Soil Heavy Metal Immobilization by Biochar Using Machine Learning.. <i>Environmental Science & Technology</i> , 2022 ,	10.3	8
340	Biochar, compost, iron oxide, manure, and inorganic fertilizer affect bioavailability of arsenic and improve soil quality of an abandoned arsenic-contaminated gold mine spoil.. <i>Ecotoxicology and Environmental Safety</i> , 2022 , 234, 113358	7	2
339	Thallium isotopic compositions as tracers in environmental studies: A review.. <i>Environment International</i> , 2022 , 162, 107148	12.9	0
338	Accumulation of chromium in plants and its repercussion in animals and humans.. <i>Environmental Pollution</i> , 2022 , 119044	9.3	4
337	Microbial inoculants and struvite improved organic matter humification and stabilized phosphorus during swine manure composting: multivariate and multiscale investigations.. <i>Bioresource Technology</i> , 2022 , 126976	11	4
336	Retention of sulfamethoxazole by cinnamon wood biochar and its efficacy of reducing bioavailability and plant uptake in soil.. <i>Chemosphere</i> , 2022 , 134073	8.4	1
335	Herbal plants- and rice straw-derived biochars reduced metal mobilization in fishpond sediments and improved their potential as fertilizers.. <i>Science of the Total Environment</i> , 2022 , 154043	10.2	9

334	Natural field freeze-thaw process leads to different performances of soil amendments towards Cd immobilization and enrichment.. <i>Science of the Total Environment</i> , 2022 , 831, 154880	10.2	0
333	Interactive influences of meteorological and socioeconomic factors on ecosystem service values in a river basin with different geomorphic features.. <i>Science of the Total Environment</i> , 2022 , 154595	10.2	2
332	Seasonal flooding wetland expansion would strongly affect soil and sediment organic carbon storage and carbon-nutrient stoichiometry.. <i>Science of the Total Environment</i> , 2022 , 154427	10.2	0
331	Ecotoxicological effects of per- and polyfluoroalkyl substances (PFAS) and of a new PFAS adsorbing organoclay to immobilize PFAS in soils on earthworms and plants.. <i>Journal of Hazardous Materials</i> , 2022 , 433, 128771	12.8	2
330	The significance of eighteen rice genotypes on arsenic accumulation, physiological response and potential health risk.. <i>Science of the Total Environment</i> , 2022 , 832, 155004	10.2	4
329	Carbon defects in biochar facilitated nitrogen doping: The significant role of pyridinic nitrogen in peroxymonosulfate activation and ciprofloxacin degradation. <i>Chemical Engineering Journal</i> , 2022 , 441, 135864	14.7	3
328	Prospects and environmental sustainability of phyconanotechnology: A review on algae-mediated metal nanoparticles synthesis and mechanism.. <i>Environmental Research</i> , 2022 , 113140	7.9	3
327	Removal of toxic elements from aqueous environments using nano zero-valent iron- and iron oxide-modified biochar: a review. <i>Biochar</i> , 2022 , 4, 1	10	2
326	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.. <i>Journal of Hazardous Materials</i> , 2022 , 434, 128906	12.8	0
325	Enhancing microplastics biodegradation during composting using livestock manure biochar.. <i>Environmental Pollution</i> , 2022 , 119339	9.3	1
324	Biofilm formation and its implications on the properties and fate of microplastics in aquatic environments: A review. <i>Journal of Hazardous Materials Advances</i> , 2022 , 6, 100077		0
323	Modified and pristine biochars for remediation of chromium contamination in soil and aquatic systems.. <i>Chemosphere</i> , 2022 , 134942	8.4	0
322	The interplay between atmospheric deposition and soil dynamics of mercury in Swiss and Chinese boreal forests: A comparison study. <i>Environmental Pollution</i> , 2022 , 119483	9.3	0
321	Influence of biochar on soil biology in the charosphere 2022 , 273-291		0
320	Functionalized biochars for the (im) mobilization of potentially toxic elements in paddy soils under dynamic redox conditions: a case study 2022 , 155-164		
319	Fungi-derived agriculturally important nanoparticles and their application in crop stress management [Prospects and environmental risks. <i>Environmental Research</i> , 2022 , 113543	7.9	0
318	Distribution and ecological risk assessment of trace elements in the paddy soil-rice ecosystem of Punjab, Pakistan. <i>Environmental Pollution</i> , 2022 , 307, 119492	9.3	2
317	Reducing conditions increased the mobilisation and hazardous effects of arsenic in a highly contaminated gold mine spoil. <i>Journal of Hazardous Materials</i> , 2022 , 436, 129238	12.8	0

316	Mobilization of contaminants: Potential for soil remediation and unintended consequences. <i>Science of the Total Environment</i> , 2022 , 839, 156373	10.2	0
315	Treatment processes to eliminate potential environmental hazards and restore agronomic value of sewage sludge: A review. <i>Environmental Pollution</i> , 2021 , 293, 118564	9.3	7
314	Improving the humification and phosphorus flow during swine manure composting: A trial for enhancing the beneficial applications of hazardous biowastes. <i>Journal of Hazardous Materials</i> , 2021 , 425, 127906	12.8	17
313	Enhanced sorption of trivalent antimony by chitosan-loaded biochar in aqueous solutions: Characterization, performance and mechanisms. <i>Journal of Hazardous Materials</i> , 2021 , 425, 127971	12.8	8
312	Effects of modified biochar on As-contaminated water and soil: A recent update. <i>Advances in Chemical Pollution, Environmental Management and Protection</i> , 2021 , 7, 107-136	1.5	0
311	Manganese oxide-modified biochar: production, characterization and applications for the removal of pollutants from aqueous environments - a review.. <i>Bioresource Technology</i> , 2021 , 346, 126581	11	6
310	Removal of potentially toxic elements from contaminated soil and water using bone char compared to plant- and bone-derived biochars: A review.. <i>Journal of Hazardous Materials</i> , 2021 , 427, 128131	12.8	7
309	Co-composted biochar derived from rice straw and sugarcane bagasse improved soil properties, carbon balance, and zucchini growth in a sandy soil: A trial for enhancing the health of low fertile arid soils.. <i>Chemosphere</i> , 2021 , 292, 133389	8.4	3
308	Challenges and opportunities in sustainable management of microplastics and nanoplastics in the environment. <i>Environmental Research</i> , 2021 , 207, 112179	7.9	12
307	Soil and plant contamination by potentially toxic and emerging elements and the associated human health risk in some Egyptian environments. <i>Environmental Geochemistry and Health</i> , 2021 , 1	4.7	1
306	Stepwise redox changes alter the speciation and mobilization of phosphorus in hydromorphic soils. <i>Chemosphere</i> , 2021 , 288, 132652	8.4	4
305	Technologies and perspectives for achieving carbon neutrality. <i>Innovation(China)</i> , 2021 , 2, 100180	17.8	37
304	Earthworms as candidates for remediation of potentially toxic elements contaminated soils and mitigating the environmental and human health risks: A review. <i>Environment International</i> , 2021 , 158, 106924	12.9	3
303	Antimony contamination and its risk management in complex environmental settings: A review. <i>Environment International</i> , 2021 , 158, 106908	12.9	16
302	Comparative study on carbon dioxide-cofed catalytic pyrolysis of grass and woody biomass. <i>Bioresource Technology</i> , 2021 , 323, 124633	11	12
301	A review of green remediation strategies for heavy metal contaminated soil. <i>Soil Use and Management</i> , 2021 , 37, 936	3.1	29
300	CO-assisted catalytic pyrolysis of cellulose acetate using Ni-based catalysts. <i>Environmental Pollution</i> , 2021 , 275, 116667	9.3	3
299	Pristine and iron-engineered animal- and plant-derived biochars enhanced bacterial abundance and immobilized arsenic and lead in a contaminated soil. <i>Science of the Total Environment</i> , 2021 , 763, 144218	10.2	35

298	Green remediation of toxic metals contaminated mining soil using bacterial consortium and <i>Brassica juncea</i> . <i>Environmental Pollution</i> , 2021 , 277, 116789	9.3	23
297	Assessment of water contamination by potentially toxic elements in mangrove lagoons of the Red Sea, Saudi Arabia. <i>Environmental Geochemistry and Health</i> , 2021 , 43, 4819-4830	4.7	4
296	Biochar Surface Functionality Plays a Vital Role in (Im)Mobilization and Phytoavailability of Soil Vanadium. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 6864-6874	8.3	14
295	Bone-derived biochar improved soil quality and reduced Cd and Zn phytoavailability in a multi-metal contaminated mining soil. <i>Environmental Pollution</i> , 2021 , 277, 116800	9.3	21
294	Does soil organic matter in mollic horizons of central/east European floodplain soils have common chemical features?. <i>Catena</i> , 2021 , 200, 105192	5.8	0
293	Supercritical carbon dioxide extraction of plant phytochemicals for biological and environmental applications - A review. <i>Chemosphere</i> , 2021 , 271, 129525	8.4	32
292	Groundwater hydrochemistry, source identification and pollution assessment in intensive industrial areas, eastern Chinese loess plateau. <i>Environmental Pollution</i> , 2021 , 278, 116930	9.3	13
291	<i>Streptomyces pactum</i> addition to contaminated mining soils improved soil quality and enhanced metals phytoextraction by wheat in a green remediation trial. <i>Chemosphere</i> , 2021 , 273, 129692	8.4	16
290	Pedogeochemical distribution of gallium, indium and thallium, their potential availability and associated risk in highly-weathered soil profiles of Taiwan. <i>Environmental Research</i> , 2021 , 197, 110994	7.9	5
289	Insights into upstream processing of microalgae: A review. <i>Bioresource Technology</i> , 2021 , 329, 124870	11	28
288	A critical review on performance indicators for evaluating soil biota and soil health of biochar-amended soils. <i>Journal of Hazardous Materials</i> , 2021 , 414, 125378	12.8	55
287	Fe/Mn- and P-modified drinking water treatment residuals reduced Cu and Pb phytoavailability and uptake in a mining soil. <i>Journal of Hazardous Materials</i> , 2021 , 403, 123628	12.8	53
286	SARS-CoV-2 coronavirus in water and wastewater: A critical review about presence and concern. <i>Environmental Research</i> , 2021 , 193, 110265	7.9	69
285	Hydrogeochemical and health risk evaluation of arsenic in shallow and deep aquifers along the different floodplains of Punjab, Pakistan. <i>Journal of Hazardous Materials</i> , 2021 , 402, 124074	12.8	29
284	Mitigation of indoor air pollution: A review of recent advances in adsorption materials and catalytic oxidation. <i>Journal of Hazardous Materials</i> , 2021 , 405, 124138	12.8	33
283	Arsenic speciation and biotransformation pathways in the aquatic ecosystem: The significance of algae. <i>Journal of Hazardous Materials</i> , 2021 , 403, 124027	12.8	46
282	Influence of biochar and soil properties on soil and plant tissue concentrations of Cd and Pb: A meta-analysis. <i>Science of the Total Environment</i> , 2021 , 755, 142582	10.2	36
281	A chronicle of SARS-CoV-2: Seasonality, environmental fate, transport, inactivation, and antiviral drug resistance. <i>Journal of Hazardous Materials</i> , 2021 , 405, 124043	12.8	46

280	Heavy metals in different moss species in alpine ecosystems of Mountain Gongga, China: Geochemical characteristics and controlling factors. <i>Environmental Pollution</i> , 2021 , 272, 115991	9.3	9
279	Biochar-mediated transformation of titanium dioxide nanoparticles concerning TiONPs-biochar interactions, plant traits and tissue accumulation to cell translocation. <i>Environmental Pollution</i> , 2021 , 270, 116077	9.3	6
278	Sorption of diethyl phthalate and cadmium by pig carcass and green waste-derived biochars under single and binary systems. <i>Environmental Research</i> , 2021 , 193, 110594	7.9	10
277	Phytoremediation potential of twelve wild plant species for toxic elements in a contaminated soil. <i>Environment International</i> , 2021 , 146, 106233	12.9	43
276	Nitric oxide donor, sodium nitroprusside, mitigates mercury toxicity in different cultivars of soybean. <i>Journal of Hazardous Materials</i> , 2021 , 408, 124852	12.8	13
275	Flooding variations affect soil bacterial communities at the spatial and inter-annual scales. <i>Science of the Total Environment</i> , 2021 , 759, 143471	10.2	4
274	Effect of biochar aging and co-existence of diethyl phthalate on the mono-sorption of cadmium and zinc to biochar-treated soils. <i>Journal of Hazardous Materials</i> , 2021 , 408, 124850	12.8	16
273	Iron-modified biochar and water management regime-induced changes in plant growth, enzyme activities, and phytoavailability of arsenic, cadmium and lead in a paddy soil. <i>Journal of Hazardous Materials</i> , 2021 , 407, 124344	12.8	59
272	Remediation of poly- and perfluoroalkyl substances (PFAS) contaminated soils - To mobilize or to immobilize or to degrade?. <i>Journal of Hazardous Materials</i> , 2021 , 401, 123892	12.8	54
271	Mobilization, Methylation, and Demethylation of Mercury in a Paddy Soil Under Systematic Redox Changes. <i>Environmental Science & Technology</i> , 2021 , 55, 10133-10141	10.3	8
270	Redox-induced mobilization of phosphorus in groundwater affected arable soil profiles. <i>Chemosphere</i> , 2021 , 275, 129928	8.4	7
269	Enhancing phytoremediation of hazardous metal(loid)s using genome engineering CRISPR-Cas9 technology. <i>Journal of Hazardous Materials</i> , 2021 , 414, 125493	12.8	40
268	Use of biochar to reduce mercury accumulation in <i>Oryza sativa</i> L: A trial for sustainable management of historically polluted farmlands. <i>Environment International</i> , 2021 , 153, 106527	12.9	36
267	Formation of nitrogen functionalities in biochar materials and their role in the mitigation of hazardous emerging organic pollutants from wastewater. <i>Journal of Hazardous Materials</i> , 2021 , 416, 126131	12.8	15
266	Effects of microorganism-mediated inoculants on humification processes and phosphorus dynamics during the aerobic composting of swine manure. <i>Journal of Hazardous Materials</i> , 2021 , 416, 125738	12.8	20
265	Mitigation of petroleum-hydrocarbon-contaminated hazardous soils using organic amendments: A review. <i>Journal of Hazardous Materials</i> , 2021 , 416, 125702	12.8	14
264	Valorization of rice husk to aromatics via thermocatalytic conversion in the presence of decomposed methane. <i>Chemical Engineering Journal</i> , 2021 , 417, 129264	14.7	8
263	Bio-interaction of nano and bulk lanthanum and ytterbium oxides in soil system: Biochemical, genetic, and histopathological effects on <i>Eisenia fetida</i> . <i>Journal of Hazardous Materials</i> , 2021 , 415, 125574	12.8	12

262	Pyrolysis of <i>Aesculus chinensis</i> Bunge Seed with FeO/NiO as nanocatalysts for the production of bio-oil material. <i>Journal of Hazardous Materials</i> , 2021 , 416, 126012	12.8	4
261	Intrusion of heavy metals/metalloids into rice (<i>Oryza sativa</i> L.) in relation to their status in two different agricultural management systems in Sri Lanka. <i>Groundwater for Sustainable Development</i> , 2021 , 14, 100619	6	3
260	Antidrug resistance in the Indian ambient waters of Ahmedabad during the COVID-19 pandemic. <i>Journal of Hazardous Materials</i> , 2021 , 416, 126125	12.8	13
259	Micro (nano) plastic pollution: The ecological influence on soil-plant system and human health. <i>Science of the Total Environment</i> , 2021 , 788, 147815	10.2	29
258	Effects of nanoparticles on trace element uptake and toxicity in plants: A review. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 221, 112437	7	14
257	Global soil pollution by toxic elements: Current status and future perspectives on the risk assessment and remediation strategies - A review. <i>Journal of Hazardous Materials</i> , 2021 , 417, 126039	12.8	50
256	Biotransfer, bioaccumulation and detoxification of nickel along the soil - faba bean - aphid - ladybird food chain. <i>Science of the Total Environment</i> , 2021 , 785, 147226	10.2	3
255	Fate of arsenic in living systems: Implications for sustainable and safe food chains. <i>Journal of Hazardous Materials</i> , 2021 , 417, 126050	12.8	15
254	Remediation of soils and sediments polluted with polycyclic aromatic hydrocarbons: To immobilize, mobilize, or degrade?. <i>Journal of Hazardous Materials</i> , 2021 , 420, 126534	12.8	36
253	Enthralling the impact of engineered nanoparticles on soil microbiome: A concentric approach towards environmental risks and cogitation. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 222, 112459	7	8
252	Effect of production temperature and particle size of rice husk biochar on mercury immobilization and erosion prevention of a mercury contaminated soil. <i>Journal of Hazardous Materials</i> , 2021 , 420, 126646	12.8	11
251	Production, characterisation, utilisation, and beneficial soil application of steel slag: A review. <i>Journal of Hazardous Materials</i> , 2021 , 419, 126478	12.8	14
250	(Im)mobilization of arsenic, chromium, and nickel in soils via biochar: A meta-analysis. <i>Environmental Pollution</i> , 2021 , 286, 117199	9.3	12
249	Distribution, behaviour, bioavailability and remediation of poly- and per-fluoroalkyl substances (PFAS) in solid biowastes and biowaste-treated soil. <i>Environment International</i> , 2021 , 155, 106600	12.9	17
248	Impact of organic and inorganic amendments on arsenic accumulation by rice genotypes under paddy soil conditions: A pilot-scale investigation to assess health risk. <i>Journal of Hazardous Materials</i> , 2021 , 420, 126620	12.8	7
247	Chemical recycling of plastic waste via thermocatalytic routes. <i>Journal of Cleaner Production</i> , 2021 , 321, 128989	10.3	19
246	Comparison of acidic leaching using a conventional and ultrasound-assisted method for preparation of magnetic-activated biochar. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105865	6.8	9
245	Integration of environmental metabolomics and physiological approach for evaluation of saline pollution to rice plant. <i>Environmental Pollution</i> , 2021 , 286, 117214	9.3	2

244	Challenges in microbially and chelate-assisted phytoextraction of cadmium and lead - A review. <i>Environmental Pollution</i> , 2021 , 287, 117667	9.3	20
243	Soil acidification enhances the mobilization of phosphorus under anoxic conditions in an agricultural soil: Investigating the potential for loss of phosphorus to water and the associated environmental risk. <i>Science of the Total Environment</i> , 2021 , 793, 148531	10.2	8
242	Wheat and maize-derived water-washed and unwashed biochar improved the nutrients phytoavailability and the grain and straw yield of rice and wheat: A field trial for sustainable management of paddy soils. <i>Journal of Environmental Management</i> , 2021 , 297, 113250	7.9	10
241	Mechanistic insights into the (im)mobilization of arsenic, cadmium, lead, and zinc in a multi-contaminated soil treated with different biochars. <i>Environment International</i> , 2021 , 156, 106638	12.9	12
240	Preparation of ammonium-modified cassava waste-derived biochar and its evaluation for synergistic adsorption of ternary antibiotics from aqueous solution. <i>Journal of Environmental Management</i> , 2021 , 298, 113530	7.9	4
239	Effects of sheep bone biochar on soil quality, maize growth, and fractionation and phytoavailability of Cd and Zn in a mining-contaminated soil. <i>Chemosphere</i> , 2021 , 282, 131016	8.4	8
238	Speciation, transportation, and pathways of cadmium in soil-rice systems: A review on the environmental implications and remediation approaches for food safety. <i>Environment International</i> , 2021 , 156, 106749	12.9	21
237	Roles of biochar-derived dissolved organic matter in soil amendment and environmental remediation: A critical review. <i>Chemical Engineering Journal</i> , 2021 , 424, 130387	14.7	65
236	Immobilization of cadmium and lead using phosphorus-rich animal-derived and iron-modified plant-derived biochars under dynamic redox conditions in a paddy soil. <i>Environment International</i> , 2021 , 156, 106628	12.9	20
235	Artificial intelligence (AI) applications in adsorption of heavy metals using modified biochar. <i>Science of the Total Environment</i> , 2021 , 801, 149623	10.2	15
234	Human health risk via soil ingestion of potentially toxic elements and remediation potential of native plants near an abandoned mine spoil in Ghana. <i>Science of the Total Environment</i> , 2021 , 798, 149272	10.2	11
233	From mine to mind and mobiles - Lithium contamination and its risk management. <i>Environmental Pollution</i> , 2021 , 290, 118067	9.3	4
232	Advancements of nanotechnologies in crop promotion and soil fertility: Benefits, life cycle assessment, and legislation policies. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 152, 111686	16.2	10
231	Cadmium stress in plants: A critical review of the effects, mechanisms, and tolerance strategies. <i>Critical Reviews in Environmental Science and Technology</i> , 2020 , 1-52	11.1	38
230	Redox-induced mobilization of Ag, Sb, Sn, and Tl in the dissolved, colloidal and solid phase of a biochar-treated and un-treated mining soil. <i>Environment International</i> , 2020 , 140, 105754	12.9	60
229	Optimizing extraction procedures for better removal of potentially toxic elements during EDTA-assisted soil washing. <i>Journal of Soils and Sediments</i> , 2020 , 20, 3417-3426	3.4	5
228	Apricot shell- and apple tree-derived biochar affect the fractionation and bioavailability of Zn and Cd as well as the microbial activity in smelter contaminated soil. <i>Environmental Pollution</i> , 2020 , 264, 114773	9.3	50
227	Transformation pathways and fate of engineered nanoparticles (ENPs) in distinct interactive environmental compartments: A review. <i>Environment International</i> , 2020 , 138, 105646	12.9	112

226	Soil contamination by potentially toxic elements and the associated human health risk in geo- and anthropogenic contaminated soils: A case study from the temperate region (Germany) and the arid region (Egypt). <i>Environmental Pollution</i> , 2020 , 262, 114312	9.3	38
225	Animal carcass- and wood-derived biochars improved nutrient bioavailability, enzyme activity, and plant growth in metal-phthalic acid ester co-contaminated soils: A trial for reclamation and improvement of degraded soils. <i>Journal of Environmental Management</i> , 2020 , 261, 110246	7.9	43
224	Customised fabrication of nitrogen-doped biochar for environmental and energy applications. <i>Chemical Engineering Journal</i> , 2020 , 401, 126136	14.7	78
223	Deforestation of rainforests requires active use of UN's Sustainable Development Goals. <i>Science of the Total Environment</i> , 2020 , 742, 140681	10.2	10
222	Integration of silicon and secondary metabolites in plants: a significant association in stress tolerance. <i>Journal of Experimental Botany</i> , 2020 , 71, 6758-6774	7	41
221	Metal contamination and bioremediation of agricultural soils for food safety and sustainability. <i>Nature Reviews Earth & Environment</i> , 2020 , 1, 366-381	30.2	171
220	Potential Emergence of Antiviral-Resistant Pandemic Viruses via Environmental Drug Exposure of Animal Reservoirs. <i>Environmental Science & Technology</i> , 2020 , 54, 8503-8505	10.3	35
219	Conversion of biological solid waste to graphene-containing biochar for water remediation: A critical review. <i>Chemical Engineering Journal</i> , 2020 , 390, 124611	14.7	59
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216	Be cautious applying carbon-fluorine bonds in drug delivery. <i>Chemosphere</i> , 2020 , 248, 125971	8.4	
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203	Field trials of phytomining and phytoremediation: A critical review of influencing factors and effects of additives. <i>Critical Reviews in Environmental Science and Technology</i> , 2020 , 50, 2724-2774	11.1	42
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129	Impact of sugarcane bagasse-derived biochar on heavy metal availability and microbial activity: A field study. <i>Chemosphere</i> , 2018 , 200, 274-282	8.4	168
128	Partitioning of Ag and CeO nanoparticles versus Ag and Ce ions in soil suspensions and effect of natural organic matter on CeO nanoparticles stability. <i>Chemosphere</i> , 2018 , 200, 471-480	8.4	14
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126	Rare earth elements in German soils - A review. <i>Chemosphere</i> , 2018 , 205, 514-523	8.4	38
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60	Interaction of arsenic with biochar in soil and water: A critical review. <i>Carbon</i> , 2017 , 113, 219-230	10.4	200
59	Geochemical distribution of Co, Cu, Ni, and Zn in soil profiles of Fluvisols, Luvisols, Gleysols, and Calcisols originating from Germany and Egypt. <i>Geoderma</i> , 2017 , 307, 122-138	6.7	41
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50	Impact of systematic change of redox potential on the leaching of Ba, Cr, Sr, and V from a riverine soil into water. <i>Journal of Soils and Sediments</i> , 2015 , 15, 623-633	3.4	59
49	Impact of emerging and low cost alternative amendments on the (im)mobilization and phytoavailability of Cd and Pb in a contaminated floodplain soil. <i>Ecological Engineering</i> , 2015 , 74, 319-326	3.9	188
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45	Distribution coefficients of cadmium and zinc in different soils in mono-metal and competitive sorption systems. <i>Journal of Plant Nutrition and Soil Science</i> , 2015 , 178, 671-681	2.3	18
44	Soil Microbial Biomass and Phospholipid Fatty Acids. <i>Soil Science Society of America Book Series</i> , 2015 , 331-348		1
43	Soil Redox Potential and pH Controllers. <i>Soil Science Society of America Book Series</i> , 2015 , 107-116		2
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41	Phytoextraction of potentially toxic elements by Indian mustard, rapeseed, and sunflower from a contaminated riparian soil. <i>Environmental Geochemistry and Health</i> , 2015 , 37, 953-67	4.7	63
40	Impact of various amendments on immobilization and phytoavailability of nickel and zinc in a contaminated floodplain soil. <i>International Journal of Environmental Science and Technology</i> , 2015 , 12, 2765-2776	3.3	58
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24	Letter to the Editor in Chief Concerning the Article: A Simple and Accurate Method to Measure Total Gaseous Mercury Concentrations in Unsaturated Soils By Moore et al., DOI:10.1007/s11270-010-0691-7. <i>Water, Air, and Soil Pollution</i> , 2011 , 218, 13-14	2.6	
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