JÃ¶rg Rinklebe

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1150990/publications.pdf

Version: 2024-02-01

395	29,891	3721 89	8599 146
papers	citations	h-index	g-index

403	403	403	16359
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Efficient removal of Cd(II) from aqueous environment by potassium permanganate-modified eucalyptus biochar. Biomass Conversion and Biorefinery, 2024, 14, 77-89.	2.9	7
2	Soil and plant contamination by potentially toxic and emerging elements and the associated human health risk in some Egyptian environments. Environmental Geochemistry and Health, 2023, 45, 359-379.	1.8	4
3	The role of various ameliorants on geochemical arsenic distribution and CO2-carbon efflux under paddy soil conditions. Environmental Geochemistry and Health, 2023, 45, 507-523.	1.8	12
4	Cadmium stress in plants: A critical review of the effects, mechanisms, and tolerance strategies. Critical Reviews in Environmental Science and Technology, 2022, 52, 675-726.	6.6	196
5	Influence of biochar on trace element uptake, toxicity and detoxification in plants and associated health risks: A critical review. Critical Reviews in Environmental Science and Technology, 2022, 52, 2803-2843.	6.6	63
6	Multifunctional applications of biochar beyond carbon storage. International Materials Reviews, 2022, 67, 150-200.	9.4	245
7	Biochar composites: Emerging trends, field successes and sustainability implications. Soil Use and Management, 2022, 38, 14-38.	2.6	73
8	Cosorption of Zn(II) and chlortetracycline onto montmorillonite: pH effects and molecular investigations. Journal of Hazardous Materials, 2022, 424, 127368.	6.5	4
9	Review on the interactions of arsenic, iron (oxy)(hydr)oxides, and dissolved organic matter in soils, sediments, and groundwater in a ternary system. Chemosphere, 2022, 286, 131790.	4.2	73
10	Phosphorus application enhances alkane hydroxylase gene abundance in the rhizosphere of wild plants grown in petroleum-hydrocarbon-contaminated soil. Environmental Research, 2022, 204, 111924.	3.7	10
11	Pig carcass-derived biochar caused contradictory effects on arsenic mobilization in a contaminated paddy soil under fluctuating controlled redox conditions. Journal of Hazardous Materials, 2022, 421, 126647.	6.5	32
12	Value of dehydrated food waste fertiliser products in increasing soil health and crop productivity. Environmental Research, 2022, 204, 111927.	3.7	12
13	The beneficial and hazardous effects of selenium on the health of the soil-plant-human system: An overview. Journal of Hazardous Materials, 2022, 422, 126876.	6.5	88
14	Elevation in wildfire frequencies with respect to the climate change. Journal of Environmental Management, 2022, 301, 113769.	3.8	70
15	Elucidating the redox-driven dynamic interactions between arsenic and iron-impregnated biochar in a paddy soil using geochemical and spectroscopic techniques. Journal of Hazardous Materials, 2022, 422, 126808.	6.5	57
16	Challenges and opportunities in sustainable management of microplastics and nanoplastics in the environment. Environmental Research, 2022, 207, 112179.	3.7	75
17	Special issue on biochar technologies, production, and environmental applications in Critical Reviews in Environmental Science & Technology during 2017â€“2021. Critical Reviews in Environmental Science and Technology, 2022, 52, 3375-3383.	6.6	7
18	Stepwise redox changes alter the speciation and mobilization of phosphorus in hydromorphic soils. Chemosphere, 2022, 288, 132652.	4.2	16

#	Article	IF	Citations
19	Earthworms as candidates for remediation of potentially toxic elements contaminated soils and mitigating the environmental and human health risks: A review. Environment International, 2022, 158, 106924.	4.8	68
20	Sustainable applications of rice feedstock in agro-environmental and construction sectors: A global perspective. Renewable and Sustainable Energy Reviews, 2022, 153, 111791.	8.2	78
21	Antimony contamination and its risk management in complex environmental settings: A review. Environment International, 2022, 158, 106908.	4.8	125
22	The significant role of electron donating capacity and carbon structure of biochar to electron transfer of zerovalent iron. Chemosphere, 2022, 287, 132381.	4.2	8
23	Treatment processes to eliminate potential environmental hazards and restore agronomic value of sewage sludge: A review. Environmental Pollution, 2022, 293, 118564.	3.7	63
24	Understanding and Monitoring Chemical and Biological Soil Degradation. Innovations in Landscape Research, 2022, , 75-124.	0.2	5
25	Improving the humification and phosphorus flow during swine manure composting: A trial for enhancing the beneficial applications of hazardous biowastes. Journal of Hazardous Materials, 2022, 425, 127906.	6.5	83
26	Enhanced sorption of trivalent antimony by chitosan-loaded biochar in aqueous solutions: Characterization, performance and mechanisms. Journal of Hazardous Materials, 2022, 425, 127971.	6.5	89
27	Nanobiochar-rhizosphere interactions: Implications for the remediation of heavy-metal contaminated soils. Environmental Pollution, 2022, 299, 118810.	3.7	38
28	Manganese oxide-modified biochar: production, characterization and applications for the removal of pollutants from aqueous environments - a review. Bioresource Technology, 2022, 346, 126581.	4.8	60
29	Simultaneous productions of biodiesel and biochar from krill. Journal of Cleaner Production, 2022, 335, 130296.	4.6	7
30	Spatial distribution, risk estimation and source apportionment of potentially toxic metal(loid)s in resuspended megacity street dust. Environment International, 2022, 160, 107073.	4.8	36
31	Removal of potentially toxic elements from contaminated soil and water using bone char compared to plant- and bone-derived biochars: A review. Journal of Hazardous Materials, 2022, 427, 128131.	6.5	31
32	Remediation of Cd and Cu contaminated water and soil using novel nanomaterials derived from sugar beet processing- and clay brick factory-solid wastes. Journal of Hazardous Materials, 2022, 428, 128205.	6.5	30
33	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. Chemosphere, 2022, 292, 133389.	4.2	37
34	Recovery, regeneration and sustainable management of spent adsorbents from wastewater treatment streams: A review. Science of the Total Environment, 2022, 822, 153555.	3.9	174
35	Co application of biofertilizer and zinc oxide nanoparticles upregulate protective mechanism culminating improved arsenic resistance in maize. Chemosphere, 2022, 294, 133796.	4.2	24
36	Biodegradation of hazardous naphthalene and cleaner production of rhamnolipids â€" Green approaches of pollution mitigation. Environmental Research, 2022, 209, 112875.	3.7	18

#	Article	IF	Citations
37	Physical, chemical, and microbial contaminants in food waste management for soil application: A review. Environmental Pollution, 2022, 300, 118860.	3.7	34
38	Integrated assessment of the impact of land use types on soil pollution by potentially toxic elements and the associated ecological and human health risk. Environmental Pollution, 2022, 299, 118911.	3.7	24
39	Impact of catalytic hydrothermal treatment and Ca/Al-modified hydrochar on lability, sorption, and speciation of phosphorus in swine manure: Microscopic and spectroscopic investigations. Environmental Pollution, 2022, 299, 118877.	3.7	15
40	Addition of walnut shells biochar to alkaline arable soil caused contradictory effects on CO2 and N2O emissions, nutrients availability, and enzymes activity. Chemosphere, 2022, 293, 133476.	4.2	12
41	Hormesis induced by silver iodide, hydrocarbons, microplastics, pesticides, and pharmaceuticals: Implications for agroforestry ecosystems health. Science of the Total Environment, 2022, 820, 153116.	3.9	33
42	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. Science of the Total Environment, 2022, 821, 153440.	3.9	38
43	Assessing the risk of toxic metals contamination and phytoremediation potential of mangrove in three coastal sites along the Red Sea. Marine Pollution Bulletin, 2022, 176, 113412.	2.3	13
44	Differences and Interactions in Placental Manganese and Iron Transfer across an In Vitro Model of Human Villous Trophoblasts. International Journal of Molecular Sciences, 2022, 23, 3296.	1.8	8
45	Prediction of Soil Heavy Metal Immobilization by Biochar Using Machine Learning. Environmental Science & Technology, 2022, 56, 4187-4198.	4.6	138
46	Biochar, compost, iron oxide, manure, and inorganic fertilizer affect bioavailability of arsenic and improve soil quality of an abandoned arsenic-contaminated gold mine spoil. Ecotoxicology and Environmental Safety, 2022, 234, 113358.	2.9	20
47	Thallium isotopic compositions as tracers in environmental studies: A review. Environment International, 2022, 162, 107148.	4.8	15
48	New measures in 2022 to enhance the quality and reputation of Critical Reviews in Environmental Science and Technology journal. Critical Reviews in Environmental Science and Technology, 2022, 52, 3943-3946.	6.6	2
49	Accumulation of chromium in plants and its repercussion in animals and humans. Environmental Pollution, 2022, 301, 119044.	3.7	67
50	Microbial inoculants and struvite improved organic matter humification and stabilized phosphorus during swine manure composting: Multivariate and multiscale investigations. Bioresource Technology, 2022, 351, 126976.	4.8	29
51	Retention of sulfamethoxazole by cinnamon wood biochar and its efficacy of reducing bioavailability and plant uptake in soil. Chemosphere, 2022, 297, 134073.	4.2	8
52	Herbal plants- and rice straw-derived biochars reduced metal mobilization in fishpond sediments and improved their potential as fertilizers. Science of the Total Environment, 2022, 826, 154043.	3.9	49
53	Natural field freeze-thaw process leads to different performances of soil amendments towards Cd immobilization and enrichment. Science of the Total Environment, 2022, 831, 154880.	3.9	18
54	Interactive influences of meteorological and socioeconomic factors on ecosystem service values in a river basin with different geomorphic features. Science of the Total Environment, 2022, 829, 154595.	3.9	44

#	Article	IF	Citations
55	Seasonal flooding wetland expansion would strongly affect soil and sediment organic carbon storage and carbon-nutrient stoichiometry. Science of the Total Environment, 2022, 828, 154427.	3.9	7
56	Ecotoxicological effects of per- and polyfluoroalkyl substances (PFAS) and of a new PFAS adsorbing organoclay to immobilize PFAS in soils on earthworms and plants. Journal of Hazardous Materials, 2022, 433, 128771.	6.5	14
57	The significance of eighteen rice genotypes on arsenic accumulation, physiological response and potential health risk. Science of the Total Environment, 2022, 832, 155004.	3.9	15
58	Carbon defects in biochar facilitated nitrogen doping: The significant role of pyridinic nitrogen in peroxymonosulfate activation and ciprofloxacin degradation. Chemical Engineering Journal, 2022, 441, 135864.	6.6	86
59	Prospects and environmental sustainability of phyconanotechnology: A review on algae-mediated metal nanoparticles synthesis and mechanism. Environmental Research, 2022, 212, 113140.	3.7	66
60	Environmental applications and risks of nanomaterials: An introduction to CREST publications during 2018â€“2021. Critical Reviews in Environmental Science and Technology, 2022, 52, 3753-3762.	6.6	16
61	Removal of toxic elements from aqueous environments using nano zero-valent iron- and iron oxide-modified biochar: a review. Biochar, 2022, 4, 1.	6.2	54
62	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. Journal of Hazardous Materials, 2022, 434, 128906.	6.5	20
63	Enhancing microplastics biodegradation during composting using livestock manure biochar. Environmental Pollution, 2022, 306, 119339.	3.7	29
64	Biofilm formation and its implications on the properties and fate of microplastics in aquatic environments: A review. Journal of Hazardous Materials Advances, 2022, 6, 100077.	1.2	43
65	Biogeochemical cycle of mercury and controlling technologies: Publications in critical reviews in environmental science & technology in the period of 2017â€“2021. Critical Reviews in Environmental Science and Technology, 2022, 52, 4325-4330.	6.6	9
66	Modified and pristine biochars for remediation of chromium contamination in soil and aquatic systems. Chemosphere, 2022, 303, 134942.	4.2	26
67	The interplay between atmospheric deposition and soil dynamics of mercury in Swiss and Chinese boreal forests: A comparison study. Environmental Pollution, 2022, , 119483.	3.7	4
68	Influence of biochar on soil biology in the charosphere. , 2022, , 273-291.		2
69	Functionalized biochars for the (im) mobilization of potentially toxic elements in paddy soils under dynamic redox conditions: a case study. , 2022, , 155-164.		0
70	Fungi-derived agriculturally important nanoparticles and their application in crop stress management â€“ Prospects and environmental risks. Environmental Research, 2022, 212, 113543.	3.7	18
71	Distribution and ecological risk assessment of trace elements in the paddy soil-rice ecosystem of Punjab, Pakistan. Environmental Pollution, 2022, 307, 119492.	3.7	21
72	Efficient Disposal of the Aqueous Products of Wet Organic Waste Hydrothermal Carbonization by Paddy Constructed Wetlands. ACS ES&T Engineering, 2022, 2, 1651-1664.	3.7	11

#	Article	IF	Citations
73	Reducing conditions increased the mobilisation and hazardous effects of arsenic in a highly contaminated gold mine spoil. Journal of Hazardous Materials, 2022, 436, 129238.	6.5	7
74	Mobilization of contaminants: Potential for soil remediation and unintended consequences. Science of the Total Environment, 2022, 839, 156373.	3.9	43
75	Unraveling natural aging-induced properties change of sludge-derived hydrochar and enhanced cadmium sorption site heterogeneity. Biochar, 2022, 4, .	6.2	13
76	Engineered biochar for environmental decontamination in aquatic and soil systems: a review. , 2022, 1, .		93
77	Waste-derived biochar for water pollution control and sustainable development. Nature Reviews Earth & Environment, 2022, 3, 444-460.	12.2	233
78	Distribution, transformation and remediation of poly- and per-fluoroalkyl substances (PFAS) in wastewater sources. Chemical Engineering Research and Design, 2022, 164, 91-108.	2.7	48
79	Melatonin enhanced oilseed rape growth and mitigated Cd stress risk: A novel trial for reducing Cd accumulation by bioenergy crops. Environmental Pollution, 2022, 308, 119642.	3.7	14
80	Hydroxyapatite tailored hierarchical porous biochar composite immobilized Cd(II) and Pb(II) and mitigated their hazardous effects in contaminated water and soil. Journal of Hazardous Materials, 2022, 437, 129330.	6.5	62
81	Environmental implications, potential value, and future of food-waste anaerobic digestate management: A review. Journal of Environmental Management, 2022, 318, 115519.	3.8	40
82	Mechanisms and influencing factors of yttrium sorption on paddy soil: Experiments and modeling. Chemosphere, 2022, , 135688.	4.2	1
83	Removal of lead (Pb+2) from contaminated water using a novel MoO3-biochar composite: Performance and mechanism. Environmental Pollution, 2022, 308, 119693.	3.7	28
84	Phytoavailability and uptake of arsenic in ryegrass affected by various amendments in soil of an abandoned gold mining site. Environmental Research, 2022, 214, 113729.	3.7	11
85	Removal of nanoplastics in water treatment processes: A review. Science of the Total Environment, 2022, 845, 157168.	3.9	38
86	Effects of selenium on the uptake of toxic trace elements by crop plants: A review. Critical Reviews in Environmental Science and Technology, 2021, 51, 2531-2566.	6.6	50
87	Fe/Mn- and P-modified drinking water treatment residuals reduced Cu and Pb phytoavailability and uptake in a mining soil. Journal of Hazardous Materials, 2021, 403, 123628.	6.5	88
88	SARS-CoV-2 coronavirus in water and wastewater: A critical review about presence and concern. Environmental Research, 2021, 193, 110265.	3.7	150
89	Hydrogeochemical and health risk evaluation of arsenic in shallow and deep aquifers along the different floodplains of Punjab, Pakistan. Journal of Hazardous Materials, 2021, 402, 124074.	6.5	46
90	Mitigation of indoor air pollution: A review of recent advances in adsorption materials and catalytic oxidation. Journal of Hazardous Materials, 2021, 405, 124138.	6.5	128

#	Article	IF	Citations
91	Arsenic speciation and biotransformation pathways in the aquatic ecosystem: The significance of algae. Journal of Hazardous Materials, 2021, 403, 124027.	6.5	111
92	Influence of biochar and soil properties on soil and plant tissue concentrations of Cd and Pb: A meta-analysis. Science of the Total Environment, 2021, 755, 142582.	3.9	109
93	A chronicle of SARS-CoV-2: Seasonality, environmental fate, transport, inactivation, and antiviral drug resistance. Journal of Hazardous Materials, 2021, 405, 124043.	6.5	76
94	Heavy metals in different moss species in alpine ecosystems of Mountain Gongga, China: Geochemical characteristics and controlling factors. Environmental Pollution, 2021, 272, 115991.	3.7	25
95	Biochar-mediated transformation of titanium dioxide nanoparticles concerning TiO2NPs-biochar interactions, plant traits and tissue accumulation to cell translocation. Environmental Pollution, 2021, 270, 116077.	3.7	16
96	Sorption of diethyl phthalate and cadmium by pig carcass and green waste-derived biochars under single and binary systems. Environmental Research, 2021, 193, 110594.	3.7	17
97	Phytoremediation potential of twelve wild plant species for toxic elements in a contaminated soil. Environment International, 2021, 146, 106233.	4.8	85
98	Nitric oxide donor, sodium nitroprusside, mitigates mercury toxicity in different cultivars of soybean. Journal of Hazardous Materials, 2021, 408, 124852.	6.5	38
99	Flooding variations affect soil bacterial communities at the spatial and inter-annual scales. Science of the Total Environment, 2021, 759, 143471.	3.9	19
100	Effect of biochar aging and co-existence of diethyl phthalate on the mono-sorption of cadmium and zinc to biochar-treated soils. Journal of Hazardous Materials, 2021, 408, 124850.	6.5	37
101	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. Journal of Hazardous Materials, 2021, 407, 124344.	6.5	150
102	Remediation of poly- and perfluoroalkyl substances (PFAS) contaminated soils â€“ To mobilize or to immobilize or to degrade?. Journal of Hazardous Materials, 2021, 401, 123892.	6.5	169
103	Comparative study on carbon dioxide-cofed catalytic pyrolysis of grass and woody biomass. Bioresource Technology, 2021, 323, 124633.	4.8	27
104	A review of green remediation strategies for heavy metal contaminated soil. Soil Use and Management, 2021, 37, 936-963.	2.6	117
105	CO2-assisted catalytic pyrolysis of cellulose acetate using Ni-based catalysts. Environmental Pollution, 2021, 275, 116667.	3.7	11
106	Pristine and iron-engineered animal- and plant-derived biochars enhanced bacterial abundance and immobilized arsenic and lead in a contaminated soil. Science of the Total Environment, 2021, 763, 144218.	3.9	72
107	Green remediation of toxic metals contaminated mining soil using bacterial consortium and Brassica juncea. Environmental Pollution, 2021, 277, 116789.	3.7	57
108	Assessment of water contamination by potentially toxic elements in mangrove lagoons of the Red Sea, Saudi Arabia. Environmental Geochemistry and Health, 2021, 43, 4819-4830.	1.8	14

#	Article	IF	Citations
109	New measures in 2021 to increase the quality and reputation of the Critical Review in Environmental Science and Technology (CREST) journal. Critical Reviews in Environmental Science and Technology, 2021, 51, 1303-1305.	6.6	3
110	Biochar Surface Functionality Plays a Vital Role in (Im)Mobilization and Phytoavailability of Soil Vanadium. ACS Sustainable Chemistry and Engineering, 2021, 9, 6864-6874.	3.2	35
111	Bone-derived biochar improved soil quality and reduced Cd and Zn phytoavailability in a multi-metal contaminated mining soil. Environmental Pollution, 2021, 277, 116800.	3.7	66
112	Does soil organic matter in mollic horizons of central/east European floodplain soils have common chemical features?. Catena, 2021, 200, 105192.	2.2	5
113	Supercritical carbon dioxide extraction of plant phytochemicals for biological and environmental applications â€“ A review. Chemosphere, 2021, 271, 129525.	4.2	93
114	Groundwater hydrochemistry, source identification and pollution assessment in intensive industrial areas, eastern Chinese loess plateau. Environmental Pollution, 2021, 278, 116930.	3.7	64
115	Streptomyces pactum addition to contaminated mining soils improved soil quality and enhanced metals phytoextraction by wheat in a green remediation trial. Chemosphere, 2021, 273, 129692.	4.2	38
116	Pedogeochemical distribution of gallium, indium and thallium, their potential availability and associated risk in highly-weathered soil profiles of Taiwan. Environmental Research, 2021, 197, 110994.	3.7	14
117	Insights into upstream processing of microalgae: A review. Bioresource Technology, 2021, 329, 124870.	4.8	79
118	A critical review on performance indicators for evaluating soil biota and soil health of biochar-amended soils. Journal of Hazardous Materials, 2021, 414, 125378.	6.5	155
119	Mobilization, Methylation, and Demethylation of Mercury in a Paddy Soil Under Systematic Redox Changes. Environmental Science & Technology, 2021, 55, 10133-10141.	4.6	44
120	Redox-induced mobilization of phosphorus in groundwater affected arable soil profiles. Chemosphere, 2021, 275, 129928.	4.2	17
121	Enhancing phytoremediation of hazardous metal(loid)s using genome engineering CRISPRâ€“Cas9 technology. Journal of Hazardous Materials, 2021, 414, 125493.	6.5	74
122	Use of biochar to reduce mercury accumulation in Oryza sativa L: A trial for sustainable management of historically polluted farmlands. Environment International, 2021, 153, 106527.	4.8	61
123	Formation of nitrogen functionalities in biochar materials and their role in the mitigation of hazardous emerging organic pollutants from wastewater. Journal of Hazardous Materials, 2021, 416, 126131.	6.5	47
124	Effects of microorganism-mediated inoculants on humification processes and phosphorus dynamics during the aerobic composting of swine manure. Journal of Hazardous Materials, 2021, 416, 125738.	6.5	37
125	Mitigation of petroleum-hydrocarbon-contaminated hazardous soils using organic amendments: A review. Journal of Hazardous Materials, 2021, 416, 125702.	6.5	46
126	Valorization of rice husk to aromatics via thermocatalytic conversion in the presence of decomposed methane. Chemical Engineering Journal, 2021, 417, 129264.	6.6	18

#	Article	IF	Citations
127	Bio-interaction of nano and bulk lanthanum and ytterbium oxides in soil system: Biochemical, genetic, and histopathological effects on Eisenia fetida. Journal of Hazardous Materials, 2021, 415, 125574.	6.5	37
128	Pyrolysis of Aesculus chinensis Bunge Seed with Fe2O3/NiO as nanocatalysts for the production of bio-oil material. Journal of Hazardous Materials, 2021, 416, 126012.	6.5	16
129	Intrusion of heavy metals/metalloids into rice (Oryza sativa L.) in relation to their status in two different agricultural management systems in Sri Lanka. Groundwater for Sustainable Development, 2021, 14, 100619.	2.3	7
130	Antidrug resistance in the Indian ambient waters of Ahmedabad during the COVID-19 pandemic. Journal of Hazardous Materials, 2021, 416, 126125.	6.5	28
131	Micro (nano) plastic pollution: The ecological influence on soil-plant system and human health. Science of the Total Environment, 2021, 788, 147815.	3.9	99
132	Effects of nanoparticles on trace element uptake and toxicity in plants: A review. Ecotoxicology and Environmental Safety, 2021, 221, 112437.	2.9	57
133	Global soil pollution by toxic elements: Current status and future perspectives on the risk assessment and remediation strategies â€“ A review. Journal of Hazardous Materials, 2021, 417, 126039.	6.5	213
134	Biotransfer, bioaccumulation and detoxification of nickel along the soil - faba bean - aphid - ladybird food chain. Science of the Total Environment, 2021, 785, 147226.	3.9	13
135	Fate of arsenic in living systems: Implications for sustainable and safe food chains. Journal of Hazardous Materials, 2021, 417, 126050.	6.5	69
136	Remediation of soils and sediments polluted with polycyclic aromatic hydrocarbons: To immobilize, mobilize, or degrade?. Journal of Hazardous Materials, 2021, 420, 126534.	6.5	150
137	Enthralling the impact of engineered nanoparticles on soil microbiome: A concentric approach towards environmental risks and cogitation. Ecotoxicology and Environmental Safety, 2021, 222, 112459.	2.9	42
138	Effect of production temperature and particle size of rice husk biochar on mercury immobilization and erosion prevention of a mercury contaminated soil. Journal of Hazardous Materials, 2021, 420, 126646.	6.5	22
139	Production, characterisation, utilisation, and beneficial soil application of steel slag: A review. Journal of Hazardous Materials, 2021, 419, 126478.	6.5	57
140	(Im)mobilization of arsenic, chromium, and nickel in soils via biochar: A meta-analysis. Environmental Pollution, 2021, 286, 117199.	3.7	40
141	Distribution, behaviour, bioavailability and remediation of poly- and per-fluoroalkyl substances (PFAS) in solid biowastes and biowaste-treated soil. Environment International, 2021, 155, 106600.	4.8	74
142	Impact of organic and inorganic amendments on arsenic accumulation by rice genotypes under paddy soil conditions: A pilot-scale investigation to assess health risk. Journal of Hazardous Materials, 2021, 420, 126620.	6.5	17
143	Chemical recycling of plastic waste via thermocatalytic routes. Journal of Cleaner Production, 2021, 321, 128989.	4.6	81
144	Comparison of acidic leaching using a conventional and ultrasound-assisted method for preparation of magnetic-activated biochar. Journal of Environmental Chemical Engineering, 2021, 9, 105865.	3.3	50

#	Article	IF	Citations
145	Integration of environmental metabolomics and physiological approach for evaluation of saline pollution to rice plant. Environmental Pollution, 2021, 286, 117214.	3.7	8
146	Challenges in microbially and chelate-assisted phytoextraction of cadmium and lead â€“ A review. Environmental Pollution, 2021, 287, 117667.	3.7	74
147	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. Science of the Total Environment, 2021, 793, 148531.	3.9	31
148	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. Journal of Environmental Management, 2021, 297, 113250.	3.8	29
149	Mechanistic insights into the (im)mobilization of arsenic, cadmium, lead, and zinc in a multi-contaminated soil treated with different biochars. Environment International, 2021, 156, 106638.	4.8	61
150	Preparation of ammonium-modified cassava waste-derived biochar and its evaluation for synergistic adsorption of ternary antibiotics from aqueous solution. Journal of Environmental Management, 2021, 298, 113530.	3.8	26
151	Effects of sheep bone biochar on soil quality, maize growth, and fractionation and phytoavailability of Cd and Zn in a mining-contaminated soil. Chemosphere, 2021, 282, 131016.	4.2	36
152	Speciation, transportation, and pathways of cadmium in soil-rice systems: A review on the environmental implications and remediation approaches for food safety. Environment International, 2021, 156, 106749.	4.8	116
153	Roles of biochar-derived dissolved organic matter in soil amendment and environmental remediation: A critical review. Chemical Engineering Journal, 2021, 424, 130387.	6.6	167
154	Immobilization of cadmium and lead using phosphorus-rich animal-derived and iron-modified plant-derived biochars under dynamic redox conditions in a paddy soil. Environment International, 2021, 156, 106628.	4.8	77
155	Artificial intelligence (AI) applications in adsorption of heavy metals using modified biochar. Science of the Total Environment, 2021, 801, 149623.	3.9	61
156	Human health risk via soil ingestion of potentially toxic elements and remediation potential of native plants near an abandoned mine spoil in Ghana. Science of the Total Environment, 2021, 798, 149272.	3.9	34
157	From mine to mind and mobiles â€“ Lithium contamination and its risk management. Environmental Pollution, 2021, 290, 118067.	3.7	58
158	Advancements of nanotechnologies in crop promotion and soil fertility: Benefits, life cycle assessment, and legislation policies. Renewable and Sustainable Energy Reviews, 2021, 152, 111686.	8.2	40
159	Technologies and perspectives for achieving carbon neutrality. Innovation(China), 2021, 2, 100180.	5.2	306
160	Effects of modified biochar on As-contaminated water and soil: A recent update. Advances in Chemical Pollution, Environmental Management and Protection, 2021, 7, 107-136.	0.3	2
161	Occurrence of contaminants in drinking water sources and the potential of biochar for water quality improvement: A review. Critical Reviews in Environmental Science and Technology, 2020, 50, 549-611.	6.6	143
162	Biochar-induced metal immobilization and soil biogeochemical process: An integrated mechanistic approach. Science of the Total Environment, 2020, 698, 134112.	3.9	139

#	Article	IF	Citations
163	Almond and walnut shell-derived biochars affect sorption-desorption, fractionation, and release of phosphorus in two different soils. Chemosphere, 2020, 241, 124888.	4.2	33
164	Waste-derived compost and biochar amendments for stormwater treatment in bioretention column: Co-transport of metals and colloids. Journal of Hazardous Materials, 2020, 383, 121243.	6.5	75
165	Evidence of inter-species swing adsorption between aromatic hydrocarbons. Environmental Research, 2020, 181, 108814.	3.7	13
166	Ammonium nitrogen recovery from digestate by hydrothermal pretreatment followed by activated hydrochar sorption. Chemical Engineering Journal, 2020, 379, 122254.	6.6	69
167	A critical review on remediation of bisphenol S (BPS) contaminated water: Efficacy and mechanisms. Critical Reviews in Environmental Science and Technology, 2020, 50, 476-522.	6.6	56
168	Removing tetracycline and Hg(II) with ball-milled magnetic nanobiochar and its potential on polluted irrigation water reclamation. Journal of Hazardous Materials, 2020, 384, 121095.	6.5	140
169	A review of biochar-based sorbents for separation of heavy metals from water. International Journal of Phytoremediation, 2020, 22, 111-126.	1.7	110
170	Remediation of mercury contaminated soil, water, and air: A review of emerging materials and innovative technologies. Environment International, 2020, 134, 105281.	4.8	228
171	Trace elements-induced phytohormesis: A critical review and mechanistic interpretation. Critical Reviews in Environmental Science and Technology, 2020, 50, 1984-2015.	6.6	92
172	(Im)mobilization and speciation of lead under dynamic redox conditions in a contaminated soil amended with pine sawdust biochar. Environment International, 2020, 135, 105376.	4.8	63
173	Biochar-induced immobilization and transformation of silver-nanoparticles affect growth, intracellular-radicles generation and nutrients assimilation by reducing oxidative stress in maize. Journal of Hazardous Materials, 2020, 390, 121976.	6.5	45
174	Field trials of phytomining and phytoremediation: A critical review of influencing factors and effects of additives. Critical Reviews in Environmental Science and Technology, 2020, 50, 2724-2774.	6.6	84
175	Soil amendments for immobilization of potentially toxic elements in contaminated soils: A critical review. Environment International, 2020, 134, 105046.	4.8	701
176	Release of toxic elements in fishpond sediments under dynamic redox conditions: Assessing the potential environmental risk for a safe management of fisheries systems and degraded waterlogged sediments. Journal of Environmental Management, 2020, 255, 109778.	3.8	29
177	Mitigation of mercury accumulation in rice using rice hull-derived biochar as soil amendment: A field investigation. Journal of Hazardous Materials, 2020, 388, 121747.	6.5	64
178	Evaluating vanadium bioavailability to cabbage in rural soils using geochemical and micro-spectroscopic techniques. Environmental Pollution, 2020, 258, 113699.	3.7	14
179	Environmental transformation and nano-toxicity of engineered nano-particles (ENPs) in aquatic and terrestrial organisms. Critical Reviews in Environmental Science and Technology, 2020, 50, 2523-2581.	6.6	70
180	Frontier review on the propensity and repercussion of SARS-CoV-2 migration to aquatic environment. Journal of Hazardous Materials Letters, 2020, 1, 100001.	2.0	49

#	Article	IF	Citations
181	Elucidating the differentiation of soil heavy metals under different land uses with geographically weighted regression and self-organizing map. Environmental Pollution, 2020, 260, 114065.	3.7	98
182	Phosphorus cycling and spring barley crop response to varying redox potential. Vadose Zone Journal, 2020, 19, e20088.	1.3	7
183	Effects of aging and weathering on immobilization of trace metals/metalloids in soils amended with biochar. Environmental Sciences: Processes and Impacts, 2020, 22, 1790-1808.	1.7	29
184	Valorization of Phytoremediation Byproduct via Synthesis of Biodiesel from Cockspur Grass (Echinochloa crus-galli) Seed. ACS Sustainable Chemistry and Engineering, 2020, 8, 11588-11595.	3.2	12
185	Environmental management of two of the world's most endangered marine and terrestrial predators: Vaquita and cheetah. Environmental Research, 2020, 190, 109966.	3.7	1
186	Effect of immobilizing reagents on soil Cd and Pb lability under freeze-thaw cycles: Implications for sustainable agricultural management in seasonally frozen land. Environment International, 2020, 144, 106040.	4.8	54
187	Biochar Aging: Mechanisms, Physicochemical Changes, Assessment, And Implications for Field Applications. Environmental Science & Technology, 2020, 54, 14797-14814.	4.6	273
188	Biodiesel synthesis from swine manure. Bioresource Technology, 2020, 317, 124032.	4.8	9
189	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. Environment International, 2020, 140, 105754.	4.8	104
190	Optimizing extraction procedures for better removal of potentially toxic elements during EDTA-assisted soil washing. Journal of Soils and Sediments, 2020, 20, 3417-3426.	1.5	12
191	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. Environmental Pollution, 2020, 264, 114773.	3.7	82
192	Transformation pathways and fate of engineered nanoparticles (ENPs) in distinct interactive environmental compartments: A review. Environment International, 2020, 138, 105646.	4.8	238
193	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). Environmental Pollution, 2020, 262, 114312.	3.7	77
194	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. Journal of Environmental Management, 2020, 261, 110246.	3.8	86
195	Customised fabrication of nitrogen-doped biochar for environmental and energy applications. Chemical Engineering Journal, 2020, 401, 126136.	6.6	158
196	Deforestation of rainforests requires active use of UN's Sustainable Development Goals. Science of the Total Environment, 2020, 742, 140681.	3.9	14
197	Integration of silicon and secondary metabolites in plants: a significant association in stress tolerance. Journal of Experimental Botany, 2020, 71, 6758-6774.	2.4	107
198	Metal contamination and bioremediation of agricultural soils for food safety and sustainability. Nature Reviews Earth & Environment, 2020, 1, 366-381.	12.2	493

#	Article	IF	Citations
199	Potential Emergence of Antiviral-Resistant Pandemic Viruses via Environmental Drug Exposure of Animal Reservoirs. Environmental Science & Technology, 2020, 54, 8503-8505.	4.6	72
200	Conversion of biological solid waste to graphene-containing biochar for water remediation: A critical review. Chemical Engineering Journal, 2020, 390, 124611.	6.6	108
201	Nanoactivated Carbon Reduces Mercury Mobility and Uptake by Oryza sativa L: Mechanistic Investigation Using Spectroscopic and Microscopic Techniques. Environmental Science & Technology, 2020, 54, 2698-2706.	4.6	45
202	Biochar effects on environmental qualities in multiple directions. Chemosphere, 2020, 250, 126306.	4.2	4
203	Coconut-fiber biochar reduced the bioavailability of lead but increased its translocation rate in rice plants: Elucidation of immobilization mechanisms and significance of iron plaque barrier on roots using spectroscopic techniques. Journal of Hazardous Materials, 2020, 389, 122117.	6.5	57
204	Be cautious applying carbon-fluorine bonds in drug delivery. Chemosphere, 2020, 248, 125971.	4.2	0
205	Crop types have stronger effects on soil microbial communities and functionalities than biochar or fertilizer during two cycles of legume-cereal rotations of dry land. Science of the Total Environment, 2020, 715, 136958.	3.9	50
206	Arsenic contamination in abandoned and active gold mine spoils in Ghana: Geochemical fractionation, speciation, and assessment of the potential human health risk. Environmental Pollution, 2020, 261, 114116.	3.7	80
207	Sulfur-modified biochar as a soil amendment to stabilize mercury pollution: An accelerated simulation of long-term aging effects. Environmental Pollution, 2020, 264, 114687.	3.7	71
208	Speciation and sorption of phosphorus in agricultural soil profiles of redoximorphic character. Environmental Geochemistry and Health, 2020, 42, 3231-3246.	1.8	20
209	A critical review on arsenic removal from water using biochar-based sorbents: The significance of modification and redox reactions. Chemical Engineering Journal, 2020, 396, 125195.	6.6	243
210	New trends in biochar pyrolysis and modification strategies: feedstock, pyrolysis conditions, sustainability concerns and implications for soil amendment. Soil Use and Management, 2020, 36, 358-386.	2.6	200
211	First predatory journals, now conferences: The need to establish lists of fake conferences. Science of the Total Environment, 2020, 715, 136990.	3.9	11
212	Recent advances in control technologies for non-point source pollution with nitrogen and phosphorous from agricultural runoff: current practices and future prospects. Applied Biological Chemistry, 2020, 63, .	0.7	129
213	Wood-based biochar for the removal of potentially toxic elements in water and wastewater: a critical review. International Materials Reviews, 2019, 64, 216-247.	9.4	355
214	Interactions between biochar and trace elements in the environment. Science of the Total Environment, 2019, 649, 792.	3.9	9
215	Sediment quality, elemental bioaccumulation and antimicrobial properties of mangroves of Indian Sundarban. Environmental Geochemistry and Health, 2019, 41, 275-296.	1.8	13
216	Assessing the potential ecological risk of Co, Cr, Cu, Fe and Zn in the sediments of Hooghlyâ€“Matla estuarine system, India. Environmental Geochemistry and Health, 2019, 41, 53-70.	1.8	28

#	Article	IF	Citations
217	Exposure to nickel oxide nanoparticles insinuates physiological, ultrastructural and oxidative damage: A life cycle study on Eisenia fetida. Environmental Pollution, 2019, 254, 113032.	3.7	65
218	Bioaccumulation of potentially toxic elements by submerged plants and biofilms: A critical review. Environment International, 2019, 131, 105015.	4.8	65
219	Occurrence and cycling of trace elements in ultramafic soils and their impacts on human health: A critical review. Environment International, 2019, 131, 104974.	4.8	43
220	Particulate plastics as a vector for toxic trace-element uptake by aquatic and terrestrial organisms and human health risk. Environment International, 2019, 131, 104937.	4.8	337
221	Potentially toxic elements in solid waste streams: Fate and management approaches. Environmental Pollution, 2019, 253, 680-707.	3.7	79
222	Mechanistic insights into red mud, blast furnace slag, or metakaolin-assisted stabilization/solidification of arsenic-contaminated sediment. Environment International, 2019, 133, 105247.	4.8	91
223	Estimating the pollution characteristics and health risks of potentially toxic metal(loid)s in urban-industrial soils in the Indus basin, Pakistan. Environmental Monitoring and Assessment, 2019, 191, 748.	1.3	14
224	Floating duckweed mitigated ammonia volatilization and increased grain yield and nitrogen use efficiency of rice in biochar amended paddy soils. Chemosphere, 2019, 237, 124532.	4.2	38
225	Distribution characteristics of Cd in different types of leaves of Festuca arundinacea intercropped with Cicer arietinum L.: A new strategy to remove pollutants by harvesting senescent and dead leaves. Environmental Research, 2019, 179, 108801.	3.7	17
226	A critical review on bioremediation technologies for Cr(VI)-contaminated soils and wastewater. Critical Reviews in Environmental Science and Technology, 2019, 49, 1027-1078.	6.6	298
227	Rare earth elements in soil profiles of various ecosystems across Germany. Applied Geochemistry, 2019, 102, 197-217.	1.4	42
228	Removal of various contaminants from water by renewable lignocellulose-derived biosorbents: a comprehensive and critical review. Critical Reviews in Environmental Science and Technology, 2019, 49, 2155-2219.	6.6	69
229	Methylmercury production in a paddy soil and its uptake by rice plants as affected by different geochemical mercury pools. Environment International, 2019, 129, 461-469.	4.8	52
230	Recent Progress in Mercury Research by Young Chinese Scholars. Bulletin of Environmental Contamination and Toxicology, 2019, 102, 595-596.	1.3	0
231	Sorption of lead in soil amended with coconut fiber biochar: Geochemical and spectroscopic investigations. Geoderma, 2019, 350, 52-60.	2.3	43
232	Biogeochemical cycling, speciation and transformation pathways of arsenic in aquatic environments with the emphasis on algae. Comprehensive Analytical Chemistry, 2019, 85, 15-51.	0.7	21
233	A critical prospective analysis of the potential toxicity of trace element regulation limits in soils worldwide: Are they protective concerning health risk assessment? - A review. Environment International, 2019, 127, 819-847.	4.8	280
234	Synergistic effects of low-/medium-vacuum carbonization on physico-chemical properties and stability characteristics of biochars. Chemical Engineering Journal, 2019, 373, 44-57.	6.6	39

#	Article	IF	Citations
235	Effect of biochars on the bioavailability of cadmium and di-(2-ethylhexyl) phthalate to Brassica chinensis L. in contaminated soils. Science of the Total Environment, 2019, 678, 43-52.	3.9	77
236	Response of microbial communities to biochar-amended soils: a critical review. Biochar, 2019, 1, 3-22.	6.2	419
237	Geo- and nano-materials affect the mono-metal and competitive sorption of Cd, Cu, Ni, and Zn in a sewage sludge-treated alkaline soil. Journal of Hazardous Materials, 2019, 379, 120567.	6.5	26
238	Mono-and co-applications of Ca-bentonite with zeolite, Ca-hydroxide, and tobacco biochar affect phytoavailability and uptake of copper and lead in a gold mine-polluted soil. Journal of Hazardous Materials, 2019, 374, 401-411.	6.5	27
239	Biochar composition-dependent impacts on soil nutrient release, carbon mineralization, and potential environmental risk: A review. Journal of Environmental Management, 2019, 241, 458-467.	3.8	249
240	Soil organic carbon dynamics: Impact of land use changes and management practices: A review. Advances in Agronomy, 2019, , 1-107.	2.4	216
241	Sulfur-modified organoclay promotes plant uptake and affects geochemical fractionation of mercury in a polluted floodplain soil. Journal of Hazardous Materials, 2019, 371, 687-693.	6.5	29
242	Mercury speciation, transformation, and transportation in soils, atmospheric flux, and implications for risk management: A critical review. Environment International, 2019, 126, 747-761.	4.8	278
243	Mercury cycling and bioaccumulation in a changing environment. Science of the Total Environment, 2019, 670, 345.	3.9	3
244	Environmental and health impacts of geochemical cycles of persistent toxic substances in food productions systems: Editorial to the special issue for the 8th International Conference on Geochemistry in the Topics & Sub-tropics (GeoTrop 2017). Environmental Geochemistry and Health, 2019, 41, 1-4.	1.8	14
245	Mobilization of mercury species under dynamic laboratory redox conditions in a contaminated floodplain soil as affected by biochar and sugar beet factory lime. Science of the Total Environment, 2019, 672, 604-617.	3.9	38
246	Soil lead immobilization by biochars in short-term laboratory incubation studies. Environment International, 2019, 127, 190-198.	4.8	70
247	Impact of biochar on mobilization, methylation, and ethylation of mercury under dynamic redox conditions in a contaminated floodplain soil. Environment International, 2019, 127, 276-290.	4.8	92
248	Sorption mechanisms of lead on silicon-rich biochar in aqueous solution: Spectroscopic investigation. Science of the Total Environment, 2019, 672, 572-582.	3.9	79
249	Responses of wheat (Triticum aestivum) plants grown in a Cd contaminated soil to the application of iron oxide nanoparticles. Ecotoxicology and Environmental Safety, 2019, 173, 156-164.	2.9	145
250	Health risk assessment of potentially toxic elements in soils along the Central Elbe River, Germany. Environment International, 2019, 126, 76-88.	4.8	299
251	Enhancing phytoextraction of potentially toxic elements in a polluted floodplain soil using sulfur-impregnated organoclay. Environmental Pollution, 2019, 248, 1059-1066.	3.7	27
252	Management of biosolids-derived hydrochar (Sewchar): Effect on plant germination, and farmers' acceptance. Journal of Environmental Management, 2019, 237, 200-214.	3.8	48

#	Article	IF	Citations
253	Rice straw- and rapeseed residue-derived biochars affect the geochemical fractions and phytoavailability of Cu and Pb to maize in a contaminated soil under different moisture content. Journal of Environmental Management, 2019, 237, 5-14.	3.8	56
254	Release dynamics of As, Co, and Mo in a biochar treated soil under pre-definite redox conditions. Science of the Total Environment, 2019, 657, 686-695.	3.9	69
255	Biochar as an (Im)mobilizing Agent for the Potentially Toxic Elements in Contaminated Soils. , 2019, , 255-274.		13
256	Redox chemistry of vanadium in soils and sediments: Interactions with colloidal materials, mobilization, speciation, and relevant environmental implications- A review. Advances in Colloid and Interface Science, 2019, 265, 1-13.	7.0	115
257	Exploring the arsenic removal potential of various biosorbents from water. Environment International, 2019, 123, 567-579.	4.8	130
258	Soil and maize contamination by trace elements and associated health risk assessment in the industrial area of Volos, Greece. Environment International, 2019, 124, 79-88.	4.8	167
259	Biowastes alone and combined with sulfur affect the phytoavailability of Cu and Zn to barnyard grass and sorghum in a fluvial alkaline soil under dry and wet conditions. Journal of Environmental Management, 2019, 234, 440-447.	3.8	11
260	Biochar application to low fertility soils: A review of current status, and future prospects. Geoderma, 2019, 337, 536-554.	2.3	571
261	Characteristics and mechanisms of cadmium adsorption onto biogenic aragonite shells-derived biosorbent: Batch and column studies. Journal of Environmental Management, 2019, 241, 535-548.	3.8	68
262	Potentially toxic elements in saltmarsh sediments and common reed (Phragmites australis) of Burullus coastal lagoon at North Nile Delta, Egypt: A survey and risk assessment. Science of the Total Environment, 2019, 649, 1237-1249.	3.9	53
263	Potential toxicity of trace elements and nanomaterials to Chinese cabbage in arsenic- and lead-contaminated soil amended with biochars. Environmental Geochemistry and Health, 2019, 41, 1777-1791.	1.8	24
264	Impact of a severe flood on large-scale contamination of arable soils by potentially toxic elements (Serbia). Environmental Geochemistry and Health, 2019, 41, 249-266.	1.8	16
265	Teaching Green Analytical Chemistry on the Example of Bioindication and Biomonitoring (B & B) Technologies. Green Chemistry and Sustainable Technology, 2019, , 19-43.	0.4	0
266	Impact of sugarcane bagasse-derived biochar on heavy metal availability and microbial activity: A field study. Chemosphere, 2018, 200, 274-282.	4.2	254
267	Partitioning of Ag and CeO2 nanoparticles versus Ag and Ce ions in soil suspensions and effect of natural organic matter on CeO2 nanoparticles stability. Chemosphere, 2018, 200, 471-480.	4.2	17
268	Combined application of EDDS and EDTA for removal of potentially toxic elements under multiple soil washing schemes. Chemosphere, 2018, 205, 178-187.	4.2	62
269	Rare earth elements in German soils - A review. Chemosphere, 2018, 205, 514-523.	4.2	68
270	Bamboo- and pig-derived biochars reduce leaching losses of dibutyl phthalate, cadmium, and lead from co-contaminated soils. Chemosphere, 2018, 198, 450-459.	4.2	121

#	Article	IF	Citations
271	Trace element dynamics of biosolids-derived microbeads. Chemosphere, 2018, 199, 331-339.	4.2	61
272	Modulation of hexavalent chromium toxicity on ÎŸriganum vulgare in an acidic soil amended with peat, lime, and zeolite. Chemosphere, 2018, 195, 291-300.	4.2	43
273	Biochar affects the dissolved and colloidal concentrations of Cd, Cu, Ni, and Zn and their phytoavailability and potential mobility in a mining soil under dynamic redox-conditions. Science of the Total Environment, 2018, 624, 1059-1071.	3.9	201
274	Pine sawdust biomass and biochars at different pyrolysis temperatures change soil redox processes. Science of the Total Environment, 2018, 625, 147-154.	3.9	75
275	Influence of bioenergy waste biochar on proton- and ligand-promoted release of Pb and Cu in a shooting range soil. Science of the Total Environment, 2018, 625, 547-554.	3.9	25
276	Comparative analysis biochar and compost-induced degradation of di-(2-ethylhexyl) phthalate in soils. Science of the Total Environment, 2018, 625, 987-993.	3.9	65
277	Plant and soil responses to hydrothermally converted sewage sludge (sewchar). Chemosphere, 2018, 206, 338-348.	4.2	55
278	Freundlich sorption parameters for cadmium, copper, nickel, lead, and zinc for different soils: Influence of kinetics. Geoderma, 2018, 324, 80-88.	2.3	88
279	Cadmium phytoremediation potential of Brassica crop species: A review. Science of the Total Environment, 2018, 631-632, 1175-1191.	3.9	275
280	Zinc sorption by different soils as affected by selective removal of carbonates and hydrous oxides. Applied Geochemistry, 2018, 88, 49-58.	1.4	24
281	Vanadium in thirteen different soil profiles originating from Germany and Egypt: Geochemical fractionation and potential mobilization. Applied Geochemistry, 2018, 88, 288-301.	1.4	55
282	Arsenic removal by Japanese oak wood biochar in aqueous solutions and well water: Investigating arsenic fate using integrated spectroscopic and microscopic techniques. Science of the Total Environment, 2018, 621, 1642-1651.	3.9	175
283	Characterization of pig manure-derived hydrochars for their potential application as fertilizer. Environmental Science and Pollution Research, 2018, 25, 25772-25779.	2.7	34
284	Impact of biosolid application rates on competitive sorption and distribution coefficients of Cd, Cu, Ni, Pb, and Zn in an Alfisol and an Entisol. Chemical Engineering Research and Design, 2018, 115, 38-48.	2.7	13
285	Arsenic removal by perilla leaf biochar in aqueous solutions and groundwater: An integrated spectroscopic and microscopic examination. Environmental Pollution, 2018, 232, 31-41.	3.7	297
286	Compositional variety of soil organic matter in mollic floodplain-soil profiles - Also an indicator of pedogenesis. Geoderma, 2018, 311, 15-24.	2.3	17
287	Responses of Soil Enzyme Activities and Microbial Community Composition to Moisture Regimes in Paddy Soils Under Long-Term Fertilization Practices. Pedosphere, 2018, 28, 323-331.	2.1	20
288	Trace elements in the cycle of soils, sediments, waters, and plants: Editorial to the special issue. Chemosphere, 2018, 213, 610.	4.2	1

#	Article	IF	Citations
289	Assessing the mobilization of As, Cr, Mo, and Se in Egyptian lacustrine and calcareous soils using sequential extraction and biogeochemical microcosm techniques. Journal of Geochemical Exploration, 2018, 191, 28-42.	1.5	28
290	Exploring potential applications of a novel extracellular polymeric substance synthesizing bacterium (Bacillus licheniformis) isolated from gut contents of earthworm (Metaphire posthuma) in environmental remediation. Biodegradation, 2018, 29, 323-337.	1.5	27
291	Arsenic removal by natural and chemically modified water melon rind in aqueous solutions and groundwater. Science of the Total Environment, 2018, 645, 1444-1455.	3.9	96
292	Influence of soil properties and feedstocks on biochar potential for carbon mineralization and improvement of infertile soils. Geoderma, 2018, 332, 100-108.	2.3	206
293	Thiosulphate-induced phytoextraction of mercury in Brassica juncea: Spectroscopic investigations to define a mechanism for Hg uptake. Environmental Pollution, 2018, 242, 986-993.	3.7	30
294	Sorption of norfloxacin, sulfamerazine and oxytetracycline by KOH-modified biochar under single and ternary systems. Bioresource Technology, 2018, 263, 385-392.	4.8	181
295	Potential of Biochar to Immobilize Nickel in Contaminated Soils. , 2018, , 293-318.		3
296	Part I: The Biological System of the Chemical Elements (BSCE) and the role of Lithium for mental health care. Bioactive Compounds in Health and Disease, 2018, 1, 1.	0.2	2
297	Use of filtration techniques to study environmental fate of engineered metallic nanoparticles: Factors affecting filter performance. Journal of Hazardous Materials, 2017, 322, 105-117.	6.5	28
298	Biogeochemistry of Ni and Pb in a periodically flooded arable soil: Fractionation and redox-induced (im)mobilization. Journal of Environmental Management, 2017, 186, 141-150.	3.8	43
299	Bioavailability and risk assessment of potentially toxic elements in garden edible vegetables and soils around a highly contaminated former mining area in Germany. Journal of Environmental Management, 2017, 186, 192-200.	3.8	218
300	Biogeochemistry of trace elements in the environment â€“ Editorial to the special issue. Journal of Environmental Management, 2017, 186, 127-130.	3.8	24
301	Heavy metal immobilization and microbial community abundance by vegetable waste and pine cone biochar of agricultural soils. Chemosphere, 2017, 174, 593-603.	4.2	245
302	Residual effects of monoammonium phosphate, gypsum and elemental sulfur on cadmium phytoavailability and translocation from soil to wheat in an effluent irrigated field. Chemosphere, 2017, 174, 515-523.	4.2	128
303	Mobility and phytoavailability of As and Pb in a contaminated soil using pine sawdust biochar under systematic change of redox conditions. Chemosphere, 2017, 178, 110-118.	4.2	231
304	Effect of biochar on cadmium bioavailability and uptake in wheat (Triticum aestivum L.) grown in a soil with aged contamination. Ecotoxicology and Environmental Safety, 2017, 140, 37-47.	2.9	360
305	Biosolids application affects the competitive sorption and lability of cadmium, copper, nickel, lead, and zinc in fluvial and calcareous soils. Environmental Geochemistry and Health, 2017, 39, 1365-1379.	1.8	34
306	N doped cobalt-carbon composite for reduction of p-nitrophenol and pendimethaline. Journal of Alloys and Compounds, 2017, 703, 118-124.	2.8	49

#	Article	IF	Citations
307	Silicon fractionation in Mollic Fluvisols along the Central Elbe River, Germany. Catena, 2017, 153, 100-105.	2.2	18
308	Trace elements in surface sediments of the Hooghly (Ganges) estuary: distribution and contamination risk assessment. Environmental Geochemistry and Health, 2017, 39, 1245-1258.	1.8	39
309	Metal organic framework derived Cuâ€“carbon composite: An efficient non-noble metal catalyst for reduction of hexavalent chromium and pendimethalin. Journal of Industrial and Engineering Chemistry, 2017, 52, 331-337.	2.9	32
310	Arsenic, chromium, molybdenum, and selenium: Geochemical fractions and potential mobilization in riverine soil profiles originating from Germany and Egypt. Chemosphere, 2017, 180, 553-563.	4.2	95
311	Harnessing fertilizer potential of human urine in a mesocosm system: a novel test case for linking the loop between sanitation and aquaculture. Environmental Geochemistry and Health, 2017, 39, 1545-1561.	1.8	7
312	Multi-metal resistance and plant growth promotion potential of a wastewater bacterium Pseudomonas aeruginosa and its synergistic benefits. Environmental Geochemistry and Health, 2017, 39, 1583-1593.	1.8	35
313	Rare earth elements and their release dynamics under pre-definite redox conditions in a floodplain soil. Chemosphere, 2017, 181, 313-319.	4.2	29
314	Impact of raking and bioturbation-mediated ecological manipulation on sedimentâ€“water phosphorus diagenesis: a mesocosm study supported with radioactive signature. Environmental Geochemistry and Health, 2017, 39, 1563-1581.	1.8	5
315	A critical review on effects, tolerance mechanisms and management of cadmium in vegetables. Chemosphere, 2017, 182, 90-105.	4.2	352
316	Compost and sulfur affect the mobilization and phyto-availability of Cd and Ni to sorghum and barnyard grass in a spiked fluvial soil. Environmental Geochemistry and Health, 2017, 39, 1305-1324.	1.8	22
317	Sea Level Rise Induced Arsenic Release from Historically Contaminated Coastal Soils. Environmental Science & Technology, 2017, 51, 5913-5922.	4.6	143
318	Various soil amendments and environmental wastes affect the (im)mobilization and phytoavailability of potentially toxic elements in a sewage effluent irrigated sandy soil. Ecotoxicology and Environmental Safety, 2017, 142, 375-387.	2.9	95
319	Effect of biosolid hydrochar on toxicity to earthworms and brine shrimp. Environmental Geochemistry and Health, 2017, 39, 1351-1364.	1.8	16
320	Trace elements in the soil-plant interface: Phytoavailability, translocation, and phytoremediationâ€“A review. Earth-Science Reviews, 2017, 171, 621-645.	4.0	588
321	Cycling of mercury in the environment: Sources, fate, and human health implications: A review. Critical Reviews in Environmental Science and Technology, 2017, 47, 693-794.	6.6	419
322	Modification of hydrothermal liquefaction products from Arthrospira platensis by using carbon dioxide. Algal Research, 2017, 24, 148-153.	2.4	9
323	Redox-controlled release dynamics of thallium in periodically flooded arable soil. Chemosphere, 2017, 178, 268-276.	4.2	42
324	Redox chemistry of nickel in soils and sediments: A review. Chemosphere, 2017, 179, 265-278.	4.2	88

#	Article	IF	Citations
325	Evaluating the feasibility of pyrophyllite-based ceramic membranes for treating domestic wastewater in anaerobic ceramic membrane bioreactors. Chemical Engineering Journal, 2017, 328, 567-573.	6.6	56
326	Utilizing CO2 to suppress the generation of harmful chemicals from thermal degradation of polyvinyl chloride. Journal of Cleaner Production, 2017, 162, 1465-1471.	4.6	24
327	Pilot-scale investigation of sludge reduction in aerobic digestion system with endospore-forming bacteria. Chemosphere, 2017, 186, 202-208.	4.2	10
328	Modelling the potential mobility of Cd, Cu, Ni, Pb and Zn in Mollic Fluvisols. Environmental Geochemistry and Health, 2017, 39, 1291-1304.	1.8	15
329	Fabrication of engineered biochar from paper mill sludge and its application into removal of arsenic and cadmium in acidic water. Bioresource Technology, 2017, 246, 69-75.	4.8	129
330	International Conference on Heavy Metals in the Environment (ICHMET). Chemosphere, 2017, 185, 94-95.	4.2	1
331	Permanganate-oxidizable soil organic matter in floodplain soils. Catena, 2017, 149, 381-384.	2.2	13
332	Bioassessment of heavy metals in the surface soil layer of an opencast mine aimed for its rehabilitation. Journal of Environmental Management, 2017, 186, 240-252.	3.8	25
333	Phytotoxicity attenuation in Vigna radiata under heavy metal stress at the presence of biochar and N fixing bacteria. Journal of Environmental Management, 2017, 186, 293-300.	3.8	73
334	Modelling the concentrations of dissolved contaminants (Cd, Cu, Ni, Pb, Zn) in floodplain soils. Environmental Geochemistry and Health, 2017, 39, 331-344.	1.8	19
335	Redox-induced mobilization of copper, selenium, and zinc in deltaic soils originating from Mississippi (U.S.A.) and Nile (Egypt) River Deltas: A better understanding of biogeochemical processes for safe environmental management. Journal of Environmental Management, 2017, 186, 131-140.	3.8	69
336	Sugar beet factory lime affects the mobilization of Cd, Co, Cr, Cu, Mo, Ni, Pb, and Zn under dynamic redox conditions in a contaminated floodplain soil. Journal of Environmental Management, 2017, 186, 253-260.	3.8	34
337	Bioavailability and health risk assessment of potentially toxic elements in Thriasio Plain, near Athens, Greece. Environmental Geochemistry and Health, 2017, 39, 319-330.	1.8	64
338	Interaction of arsenic with biochar in soil and water: A critical review. Carbon, 2017, 113, 219-230.	5.4	292
339	Geochemical distribution of Co, Cu, Ni, and Zn in soil profiles of Fluvisols, Luvisols, Gleysols, and Calcisols originating from Germany and Egypt. Geoderma, 2017, 307, 122-138.	2.3	58
340	Trace Metal Concentrations in Marsh Profiles Under the Influence of an Emerging Delta (Atchafalaya) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Soil and Sediment Contamination, 2016, 25, 552-562.	1.1	7
341	Phytomanagement of heavy metals in contaminated soils using sunflower: A review. Critical Reviews in Environmental Science and Technology, 2016, 46, 1498-1528.	6.6	105
342	Nickel in a serpentine-enriched Fluvisol: Redox affected dynamics and binding forms. Geoderma, 2016, 263, 203-214.	2.3	55

#	Article	IF	Citations
343	Amendment of biochar reduces the release of toxic elements under dynamic redox conditions in a contaminated floodplain soil. Chemosphere, 2016, 142, 41-47.	4.2	183
344	Redox effects on release kinetics of arsenic, cadmium, cobalt, and vanadium in Wax Lake Deltaic freshwater marsh soils. Chemosphere, 2016, 150, 740-748.	4.2	166
345	Release of As, Ba, Cd, Cu, Pb, and Sr under pre-definite redox conditions in different rice paddy soils originating from the U.S.A. and Asia. Geoderma, 2016, 270, 21-32.	2.3	182
346	Exploiting biogeochemical and spectroscopic techniques to assess the geochemical distribution and release dynamics of chromium and lead in a contaminated floodplain soil. Chemosphere, 2016, 150, 390-397.	4.2	88
347	Fractionation and mobilization of toxic elements in floodplain soils from Egypt, Germany, and Greece: A comparison study. Eurasian Soil Science, 2015, 48, 1317-1328.	0.5	23
348	Trace element release patterns from three floodplain soils under simulated oxidizedâ€“reduced cycles. Ecological Engineering, 2015, 83, 485-495.	1.6	46
349	Rare Earth Elements in Two Luvisols Developed From Loess Under Arable and Forest Land Use in Bavaria, Germany. Soil Science, 2015, 180, 107-123.	0.9	11
350	Distribution coefficients of cadmium and zinc in different soils in mono-metal and competitive sorption systems. Journal of Plant Nutrition and Soil Science, 2015, 178, 671-681.	1.1	19
351	Soil Microbial Biomass and Phospholipid Fatty Acids. Soil Science Society of America Book Series, 2015, , 331-348.	0.3	1
352	Miscellaneous additives can enhance plant uptake and affect geochemical fractions of copper in a heavily polluted riparian grassland soil. Ecotoxicology and Environmental Safety, 2015, 119, 58-65.	2.9	49
353	Phytoextraction of potentially toxic elements by Indian mustard, rapeseed, and sunflower from a contaminated riparian soil. Environmental Geochemistry and Health, 2015, 37, 953-967.	1.8	76
354	Impact of various amendments on immobilization and phytoavailability of nickel and zinc in a contaminated floodplain soil. International Journal of Environmental Science and Technology, 2015, 12, 2765-2776.	1.8	74
355	Immobilization of soil copper using organic and inorganic amendments. Journal of Plant Nutrition and Soil Science, 2015, 178, 112-117.	1.1	31
356	Impact of systematic change of redox potential on the leaching of Ba, Cr, Sr, and V from a riverine soil into water. Journal of Soils and Sediments, 2015, 15, 623-633.	1.5	80
357	Impact of emerging and low cost alternative amendments on the (im)mobilization and phytoavailability of Cd and Pb in a contaminated floodplain soil. Ecological Engineering, 2015, 74, 319-326.	1.6	225
358	Biogeochemical Factors Governing Cobalt, Nickel, Selenium, and Vanadium Dynamics in Periodically Flooded Egyptian North Nile Delta Rice Soils. Soil Science Society of America Journal, 2014, 78, 1065-1078.	1.2	110
359	Geochemical fractions of chromium, copper, and zinc and their vertical distribution in floodplain soil profiles along the Central Elbe River, Germany. Geoderma, 2014, 228-229, 142-159.	2.3	144
360	Lysimeter trials to assess the impact of different floodâ€“dry-cycles on the dynamics of pore water concentrations of As, Cr, Mo and V in a contaminated floodplain soil. Geoderma, 2014, 228-229, 5-13.	2.3	101

#	Article	IF	Citations
361	Humus und KlimaÃnderung - Ergebnisse aus 15 langjÃhrigen Dauerfeldversuchen. Archives of Agronomy and Soil Science, 2014, 60, 1485-1517.	1.3	22
362	Contamination of Floodplain Soils along the Wupper River, Germany, with As, Co, Cu, Ni, Sb, and Zn and the Impact of Pre-definite Redox Variations on the Mobility of These Elements. Soil and Sediment Contamination, 2014, 23, 779-799.	1.1	110
363	Assessing the Mobilization of Cadmium, Lead, and Nickel Using a Seven-Step Sequential Extraction Technique in Contaminated Floodplain Soil Profiles Along the Central Elbe River, Germany. Water, Air, and Soil Pollution, 2014, 225, 1.	1.1	114
364	Concentrations and geochemical fractions of rare earth elements in two different marsh soil profiles at the North Sea, Germany. Journal of Soils and Sediments, 2014, 14, 1417-1433.	1.5	29
365	Geochemical fractions of rare earth elements in two floodplain soil profiles at the Wupper River, Germany. Geoderma, 2014, 228-229, 160-172.	2.3	43
366	Temporal dynamics of pore water concentrations of Cd, Co, Cu, Ni, and Zn and their controlling factors in a contaminated floodplain soil assessed by undisturbed groundwater lysimeters. Environmental Pollution, 2014, 191, 223-231.	3.7	99
367	Biogeochemical Fractions of Mercury in Soil Profiles of Two Different Floodplain Ecosystems in Germany. Water, Air, and Soil Pollution, 2013, 224, 1.	1.1	38
368	A review of the distribution coefficients of trace elements in soils: Influence of sorption system, element characteristics, and soil colloidal properties. Advances in Colloid and Interface Science, 2013, 201-202, 43-56.	7.0	239
369	Trace Metals Accumulation in Bacopa monnieri and Their Bioaccessibility. Planta Medica, 2013, 79, 1081-1083.	0.7	7
370	Controlled variation of redox conditions in a floodplain soil: Impact on metal mobilization and biomethylation of arsenic and antimony. Geoderma, 2011, 160, 414-424.	2.3	338
371	Advancement in soil microcosm apparatus for biogeochemical research. Ecological Engineering, 2011, 37, 2071-2075.	1.6	40
372	Use of reactive phosphate rocks as fertilizer on acid upland soils in Indonesia: accumulation of cadmium and zinc in soils and shoots of maize plants. Journal of Plant Nutrition and Soil Science, 2011, 174, 186-194.	1.1	31
373	Letter to the Editor in Chief Concerning the Article: â€˜A Simple and Accurate Method to Measure Total Gaseous Mercury Concentrations in Unsaturated Soilsâ€™ by Moore et al., DOI:10.1007/s11270-010-0691-7. Water, Air, and Soil Pollution, 2011, 218, 13-14.	1.1	0
374	Impact of controlled redox conditions on nickel in a serpentine soil. Journal of Soils and Sediments, 2011, 11, 406-415.	1.5	61
375	Priming effect after glucose amendment in two different soils evaluated by SIR- and PLFA-technique. Ecological Engineering, 2011, 37, 465-473.	1.6	11
376	Relationship between soil microbial biomass determined by SIR and PLFA analysis in floodplain soils. Journal of Soils and Sediments, 2010, 10, 4-8.	1.5	19
377	Release of Ni and Zn from Contaminated Floodplain Soils Under Saturated Flow Conditions. Water, Air, and Soil Pollution, 2010, 205, 93-105.	1.1	22
378	Dissolved Inorganic Contaminants in a Floodplain Soil: Comparison of In Situ Soil Solutions and Laboratory Methods. Water, Air, and Soil Pollution, 2010, 209, 489-500.	1.1	35

#	Article	IF	Citations
379	Dynamics of mercury fluxes and their controlling factors in large Hg-polluted floodplain areas. Environmental Pollution, 2010, 158, 308-318.	3.7	74
380	A scale-dependent approach to study pollution control processes in wetland soils using three different techniques. Ecological Engineering, 2010, 36, 1439-1447.	1.6	47
381	Which processes prevail?. Geoderma, 2010, 158, 412-420.	2.3	16
382	Effect of High Nickel and Chromium Background Levels in Serpentine Soil on Their Accumulation in Organs of a Perennial Plant. Communications in Soil Science and Plant Analysis, 2010, 41, 482-496.	0.6	20
383	Heavy metal mobility in intertidal sediments of the Scheldt estuary: Field monitoring. Science of the Total Environment, 2009, 407, 2919-2930.	3.9	72
384	Effect of Water Table Level on Metal Mobility at Different Depths in Wetland Soils of the Scheldt Estuary (Belgium). Water, Air, and Soil Pollution, 2009, 202, 353-367.	1.1	46
385	Optimization of a simple field method to determine mercury volatilization from soilsâ€"Examples of 13 sites in floodplain ecosystems at the Elbe River (Germany). Ecological Engineering, 2009, 35, 319-328.	1.6	34
386	Lipid biomarkers for assessment of microbial communities in floodplain soils of the Elbe River (Germany). Wetlands, 2009, 29, 353-362.	0.7	61
387	Mercury Volatilization from Three Floodplain Soils at the Central Elbe River, Germany. Soil and Sediment Contamination, 2009, 18, 429-444.	1.1	37
388	Floodplain soils at the Elbe river, Germany, and their diverse microbial biomass. Archives of Agronomy and Soil Science, 2008, 54, 259-273.	1.3	22
389	Estimation of soil properties with geostatistical methods in floodplains. Archives of Agronomy and Soil Science, 2008, 54, 275-295.	1.3	41
390	Aggregation of floodplain soils based on classification principles to predict concentrations of nutrients and pollutants. Geoderma, 2007, 141, 210-223.	2.3	79
391	Major Biogeochemical Processes in Soils-A Microcosm Incubation from Reducing to Oxidizing Conditions. Soil Science Society of America Journal, 2007, 71, 1406-1417.	1.2	142
392	Microbial diversity in three floodplain soils at the Elbe River (Germany). Soil Biology and Biochemistry, 2006, 38, 2144-2151.	4.2	104
393	Chernozemâ€"Soil of the Year 2005. Journal of Plant Nutrition and Soil Science, 2005, 168, 725-740.	1.1	172
394	A Simple Field Method to Determine Mercury Volatilization from Soils (3 pp). Environmental Science and Pollution Research, 2005, 12, 133-135.	2.7	22
395	Soil Redox Potential and pH Controllers. Soil Science Society of America Book Series, 0, , 107-116.	0.3	5