

Jörg Rinklebe

List of Publications by Year in descending order

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

Version: 2024-02-01

395
papers

29,891
citations

3721

89
h-index

8599

146
g-index

403
all docs

403
docs citations

403
times ranked

16359
citing authors

#	ARTICLE	IF	CITATIONS
1	Soil amendments for immobilization of potentially toxic elements in contaminated soils: A critical review. <i>Environment International</i> , 2020, 134, 105046.	4.8	701
2	Trace elements in the soil-plant interface: Phytoavailability, translocation, and phytoremediation—A review. <i>Earth-Science Reviews</i> , 2017, 171, 621-645.	4.0	588
3	Biochar application to low fertility soils: A review of current status, and future prospects. <i>Geoderma</i> , 2019, 337, 536-554.	2.3	571
4	Metal contamination and bioremediation of agricultural soils for food safety and sustainability. <i>Nature Reviews Earth & Environment</i> , 2020, 1, 366-381.	12.2	493
5	Cycling of mercury in the environment: Sources, fate, and human health implications: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2017, 47, 693-794.	6.6	419
6	Response of microbial communities to biochar-amended soils: a critical review. <i>Biochar</i> , 2019, 1, 3-22.	6.2	419
7	Effect of biochar on cadmium bioavailability and uptake in wheat (<i>Triticum aestivum</i> L.) grown in a soil with aged contamination. <i>Ecotoxicology and Environmental Safety</i> , 2017, 140, 37-47.	2.9	360
8	Wood-based biochar for the removal of potentially toxic elements in water and wastewater: a critical review. <i>International Materials Reviews</i> , 2019, 64, 216-247.	9.4	355
9	A critical review on effects, tolerance mechanisms and management of cadmium in vegetables. <i>Chemosphere</i> , 2017, 182, 90-105.	4.2	352
10	Controlled variation of redox conditions in a floodplain soil: Impact on metal mobilization and biomethylation of arsenic and antimony. <i>Geoderma</i> , 2011, 160, 414-424.	2.3	338
11	Particulate plastics as a vector for toxic trace-element uptake by aquatic and terrestrial organisms and human health risk. <i>Environment International</i> , 2019, 131, 104937.	4.8	337
12	Technologies and perspectives for achieving carbon neutrality. <i>Innovation(China)</i> , 2021, 2, 100180.	5.2	306
13	Health risk assessment of potentially toxic elements in soils along the Central Elbe River, Germany. <i>Environment International</i> , 2019, 126, 76-88.	4.8	299
14	A critical review on bioremediation technologies for Cr(VI)-contaminated soils and wastewater. <i>Critical Reviews in Environmental Science and Technology</i> , 2019, 49, 1027-1078.	6.6	298
15	Arsenic removal by perilla leaf biochar in aqueous solutions and groundwater: An integrated spectroscopic and microscopic examination. <i>Environmental Pollution</i> , 2018, 232, 31-41.	3.7	297
16	Interaction of arsenic with biochar in soil and water: A critical review. <i>Carbon</i> , 2017, 113, 219-230.	5.4	292
17	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. <i>Environment International</i> , 2019, 127, 819-847.	4.8	280
18	Mercury speciation, transformation, and transportation in soils, atmospheric flux, and implications for risk management: A critical review. <i>Environment International</i> , 2019, 126, 747-761.	4.8	278

#	ARTICLE	IF	CITATIONS
19	Cadmium phytoremediation potential of Brassica crop species: A review. <i>Science of the Total Environment</i> , 2018, 631-632, 1175-1191.	3.9	275
20	Biochar Aging: Mechanisms, Physicochemical Changes, Assessment, And Implications for Field Applications. <i>Environmental Science & Technology</i> , 2020, 54, 14797-14814.	4.6	273
21	Impact of sugarcane bagasse-derived biochar on heavy metal availability and microbial activity: A field study. <i>Chemosphere</i> , 2018, 200, 274-282.	4.2	254
22	Biochar composition-dependent impacts on soil nutrient release, carbon mineralization, and potential environmental risk: A review. <i>Journal of Environmental Management</i> , 2019, 241, 458-467.	3.8	249
23	Heavy metal immobilization and microbial community abundance by vegetable waste and pine cone biochar of agricultural soils. <i>Chemosphere</i> , 2017, 174, 593-603.	4.2	245
24	Multifunctional applications of biochar beyond carbon storage. <i>International Materials Reviews</i> , 2022, 67, 150-200.	9.4	245
25	A critical review on arsenic removal from water using biochar-based sorbents: The significance of modification and redox reactions. <i>Chemical Engineering Journal</i> , 2020, 396, 125195.	6.6	243
26	A review of the distribution coefficients of trace elements in soils: Influence of sorption system, element characteristics, and soil colloidal properties. <i>Advances in Colloid and Interface Science</i> , 2013, 201-202, 43-56.	7.0	239
27	Transformation pathways and fate of engineered nanoparticles (ENPs) in distinct interactive environmental compartments: A review. <i>Environment International</i> , 2020, 138, 105646.	4.8	238
28	Waste-derived biochar for water pollution control and sustainable development. <i>Nature Reviews Earth & Environment</i> , 2022, 3, 444-460.	12.2	233
29	Mobility and phytoavailability of As and Pb in a contaminated soil using pine sawdust biochar under systematic change of redox conditions. <i>Chemosphere</i> , 2017, 178, 110-118.	4.2	231
30	Remediation of mercury contaminated soil, water, and air: A review of emerging materials and innovative technologies. <i>Environment International</i> , 2020, 134, 105281.	4.8	228
31	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.	1.6	225
32	Bioavailability and risk assessment of potentially toxic elements in garden edible vegetables and soils around a highly contaminated former mining area in Germany. <i>Journal of Environmental Management</i> , 2017, 186, 192-200.	3.8	218
33	Soil organic carbon dynamics: Impact of land use changes and management practices: A review. <i>Advances in Agronomy</i> , 2019, , 1-107.	2.4	216
34	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.	6.5	213
35	Influence of soil properties and feedstocks on biochar potential for carbon mineralization and improvement of infertile soils. <i>Geoderma</i> , 2018, 332, 100-108.	2.3	206
36	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. <i>Science of the Total Environment</i> , 2018, 624, 1059-1071.	3.9	201

#	ARTICLE	IF	CITATIONS
37	New trends in biochar pyrolysis and modification strategies: feedstock, pyrolysis conditions, sustainability concerns and implications for soil amendment. <i>Soil Use and Management</i> , 2020, 36, 358-386.	2.6	200
38	Cadmium stress in plants: A critical review of the effects, mechanisms, and tolerance strategies. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 675-726.	6.6	196
39	Amendment of biochar reduces the release of toxic elements under dynamic redox conditions in a contaminated floodplain soil. <i>Chemosphere</i> , 2016, 142, 41-47.	4.2	183
40	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. <i>Geoderma</i> , 2016, 270, 21-32.	2.3	182
41	Sorption of norfloxacin, sulfamerazine and oxytetracycline by KOH-modified biochar under single and ternary systems. <i>Bioresource Technology</i> , 2018, 263, 385-392.	4.8	181
42	Arsenic removal by Japanese oak wood biochar in aqueous solutions and well water: Investigating arsenic fate using integrated spectroscopic and microscopic techniques. <i>Science of the Total Environment</i> , 2018, 621, 1642-1651.	3.9	175
43	Recovery, regeneration and sustainable management of spent adsorbents from wastewater treatment streams: A review. <i>Science of the Total Environment</i> , 2022, 822, 153555.	3.9	174
44	Chernozem – Soil of the Year 2005. <i>Journal of Plant Nutrition and Soil Science</i> , 2005, 168, 725-740.	1.1	172
45	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.	6.5	169
46	Soil and maize contamination by trace elements and associated health risk assessment in the industrial area of Volos, Greece. <i>Environment International</i> , 2019, 124, 79-88.	4.8	167
47	Roles of biochar-derived dissolved organic matter in soil amendment and environmental remediation: A critical review. <i>Chemical Engineering Journal</i> , 2021, 424, 130387.	6.6	167
48	Redox effects on release kinetics of arsenic, cadmium, cobalt, and vanadium in Wax Lake Deltaic freshwater marsh soils. <i>Chemosphere</i> , 2016, 150, 740-748.	4.2	166
49	Customised fabrication of nitrogen-doped biochar for environmental and energy applications. <i>Chemical Engineering Journal</i> , 2020, 401, 126136.	6.6	158
50	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.	6.5	155
51	SARS-CoV-2 coronavirus in water and wastewater: A critical review about presence and concern. <i>Environmental Research</i> , 2021, 193, 110265.	3.7	150
52	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.	6.5	150
53	Remediation of soils and sediments polluted with polycyclic aromatic hydrocarbons: To immobilize, mobilize, or degrade?. <i>Journal of Hazardous Materials</i> , 2021, 420, 126534.	6.5	150
54	Responses of wheat (<i>Triticum aestivum</i>) plants grown in a Cd contaminated soil to the application of iron oxide nanoparticles. <i>Ecotoxicology and Environmental Safety</i> , 2019, 173, 156-164.	2.9	145

#	ARTICLE	IF	CITATIONS
55	Geochemical fractions of chromium, copper, and zinc and their vertical distribution in floodplain soil profiles along the Central Elbe River, Germany. <i>Geoderma</i> , 2014, 228-229, 142-159.	2.3	144
56	Sea Level Rise Induced Arsenic Release from Historically Contaminated Coastal Soils. <i>Environmental Science & Technology</i> , 2017, 51, 5913-5922.	4.6	143
57	Occurrence of contaminants in drinking water sources and the potential of biochar for water quality improvement: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 549-611.	6.6	143
58	Major Biogeochemical Processes in Soils-A Microcosm Incubation from Reducing to Oxidizing Conditions. <i>Soil Science Society of America Journal</i> , 2007, 71, 1406-1417.	1.2	142
59	Removing tetracycline and Hg(II) with ball-milled magnetic nanobiochar and its potential on polluted irrigation water reclamation. <i>Journal of Hazardous Materials</i> , 2020, 384, 121095.	6.5	140
60	Biochar-induced metal immobilization and soil biogeochemical process: An integrated mechanistic approach. <i>Science of the Total Environment</i> , 2020, 698, 134112.	3.9	139
61	Prediction of Soil Heavy Metal Immobilization by Biochar Using Machine Learning. <i>Environmental Science & Technology</i> , 2022, 56, 4187-4198.	4.6	138
62	Exploring the arsenic removal potential of various biosorbents from water. <i>Environment International</i> , 2019, 123, 567-579.	4.8	130
63	Fabrication of engineered biochar from paper mill sludge and its application into removal of arsenic and cadmium in acidic water. <i>Bioresource Technology</i> , 2017, 246, 69-75.	4.8	129
64	Recent advances in control technologies for non-point source pollution with nitrogen and phosphorous from agricultural runoff: current practices and future prospects. <i>Applied Biological Chemistry</i> , 2020, 63, .	0.7	129
65	Residual effects of monoammonium phosphate, gypsum and elemental sulfur on cadmium phytoavailability and translocation from soil to wheat in an effluent irrigated field. <i>Chemosphere</i> , 2017, 174, 515-523.	4.2	128
66	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.	6.5	128
67	Antimony contamination and its risk management in complex environmental settings: A review. <i>Environment International</i> , 2022, 158, 106908.	4.8	125
68	Bamboo- and pig-derived biochars reduce leaching losses of dibutyl phthalate, cadmium, and lead from co-contaminated soils. <i>Chemosphere</i> , 2018, 198, 450-459.	4.2	121
69	A review of green remediation strategies for heavy metal contaminated soil. <i>Soil Use and Management</i> , 2021, 37, 936-963.	2.6	117
70	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.	4.8	116
71	Redox chemistry of vanadium in soils and sediments: Interactions with colloidal materials, mobilization, speciation, and relevant environmental implications- A review. <i>Advances in Colloid and Interface Science</i> , 2019, 265, 1-13.	7.0	115
72	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. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	1.1	114

#	ARTICLE	IF	CITATIONS
73	Arsenic speciation and biotransformation pathways in the aquatic ecosystem: The significance of algae. <i>Journal of Hazardous Materials</i> , 2021, 403, 124027.	6.5	111
74	Biogeochemical Factors Governing Cobalt, Nickel, Selenium, and Vanadium Dynamics in Periodically Flooded Egyptian North Nile Delta Rice Soils. <i>Soil Science Society of America Journal</i> , 2014, 78, 1065-1078.	1.2	110
75	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. <i>Soil and Sediment Contamination</i> , 2014, 23, 779-799.	1.1	110
76	A review of biochar-based sorbents for separation of heavy metals from water. <i>International Journal of Phytoremediation</i> , 2020, 22, 111-126.	1.7	110
77	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.	3.9	109
78	Conversion of biological solid waste to graphene-containing biochar for water remediation: A critical review. <i>Chemical Engineering Journal</i> , 2020, 390, 124611.	6.6	108
79	Integration of silicon and secondary metabolites in plants: a significant association in stress tolerance. <i>Journal of Experimental Botany</i> , 2020, 71, 6758-6774.	2.4	107
80	Phytomanagement of heavy metals in contaminated soils using sunflower: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2016, 46, 1498-1528.	6.6	105
81	Microbial diversity in three floodplain soils at the Elbe River (Germany). <i>Soil Biology and Biochemistry</i> , 2006, 38, 2144-2151.	4.2	104
82	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.	4.8	104
83	Lysimeter trials to assess the impact of different flood“dry-cycles on the dynamics of pore water concentrations of As, Cr, Mo and V in a contaminated floodplain soil. <i>Geoderma</i> , 2014, 228-229, 5-13.	2.3	101
84	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. <i>Environmental Pollution</i> , 2014, 191, 223-231.	3.7	99
85	Micro (nano) plastic pollution: The ecological influence on soil-plant system and human health. <i>Science of the Total Environment</i> , 2021, 788, 147815.	3.9	99
86	Elucidating the differentiation of soil heavy metals under different land uses with geographically weighted regression and self-organizing map. <i>Environmental Pollution</i> , 2020, 260, 114065.	3.7	98
87	Arsenic removal by natural and chemically modified water melon rind in aqueous solutions and groundwater. <i>Science of the Total Environment</i> , 2018, 645, 1444-1455.	3.9	96
88	Arsenic, chromium, molybdenum, and selenium: Geochemical fractions and potential mobilization in riverine soil profiles originating from Germany and Egypt. <i>Chemosphere</i> , 2017, 180, 553-563.	4.2	95
89	Various soil amendments and environmental wastes affect the (im)mobilization and phytoavailability of potentially toxic elements in a sewage effluent irrigated sandy soil. <i>Ecotoxicology and Environmental Safety</i> , 2017, 142, 375-387.	2.9	95
90	Supercritical carbon dioxide extraction of plant phytochemicals for biological and environmental applications “ A review. <i>Chemosphere</i> , 2021, 271, 129525.	4.2	93

#	ARTICLE	IF	CITATIONS
91	Engineered biochar for environmental decontamination in aquatic and soil systems: a review. , 2022, 1, .		93
92	Impact of biochar on mobilization, methylation, and ethylation of mercury under dynamic redox conditions in a contaminated floodplain soil. <i>Environment International</i> , 2019, 127, 276-290.	4.8	92
93	Trace elements-induced phytohormesis: A critical review and mechanistic interpretation. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 1984-2015.	6.6	92
94	Mechanistic insights into red mud, blast furnace slag, or metakaolin-assisted stabilization/solidification of arsenic-contaminated sediment. <i>Environment International</i> , 2019, 133, 105247.	4.8	91
95	Enhanced sorption of trivalent antimony by chitosan-loaded biochar in aqueous solutions: Characterization, performance and mechanisms. <i>Journal of Hazardous Materials</i> , 2022, 425, 127971.	6.5	89
96	Exploiting biogeochemical and spectroscopic techniques to assess the geochemical distribution and release dynamics of chromium and lead in a contaminated floodplain soil. <i>Chemosphere</i> , 2016, 150, 390-397.	4.2	88
97	Redox chemistry of nickel in soils and sediments: A review. <i>Chemosphere</i> , 2017, 179, 265-278.	4.2	88
98	Freundlich sorption parameters for cadmium, copper, nickel, lead, and zinc for different soils: Influence of kinetics. <i>Geoderma</i> , 2018, 324, 80-88.	2.3	88
99	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.	6.5	88
100	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.	6.5	88
101	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.	3.8	86
102	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.	6.6	86
103	Phytoremediation potential of twelve wild plant species for toxic elements in a contaminated soil. <i>Environment International</i> , 2021, 146, 106233.	4.8	85
104	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.	6.6	84
105	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> , 2022, 425, 127906.	6.5	83
106	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.	3.7	82
107	Chemical recycling of plastic waste via thermocatalytic routes. <i>Journal of Cleaner Production</i> , 2021, 321, 128989.	4.6	81
108	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.	1.5	80

#	ARTICLE	IF	CITATIONS
109	Arsenic contamination in abandoned and active gold mine spoils in Ghana: Geochemical fractionation, speciation, and assessment of the potential human health risk. <i>Environmental Pollution</i> , 2020, 261, 114116.	3.7	80
110	Aggregation of floodplain soils based on classification principles to predict concentrations of nutrients and pollutants. <i>Geoderma</i> , 2007, 141, 210-223.	2.3	79
111	Potentially toxic elements in solid waste streams: Fate and management approaches. <i>Environmental Pollution</i> , 2019, 253, 680-707.	3.7	79
112	Sorption mechanisms of lead on silicon-rich biochar in aqueous solution: Spectroscopic investigation. <i>Science of the Total Environment</i> , 2019, 672, 572-582.	3.9	79
113	Insights into upstream processing of microalgae: A review. <i>Bioresource Technology</i> , 2021, 329, 124870.	4.8	79
114	Sustainable applications of rice feedstock in agro-environmental and construction sectors: A global perspective. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 153, 111791.	8.2	78
115	Effect of biochars on the bioavailability of cadmium and di-(2-ethylhexyl) phthalate to <i>Brassica chinensis</i> L. in contaminated soils. <i>Science of the Total Environment</i> , 2019, 678, 43-52.	3.9	77
116	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.	3.7	77
117	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.	4.8	77
118	Phytoextraction of potentially toxic elements by Indian mustard, rapeseed, and sunflower from a contaminated riparian soil. <i>Environmental Geochemistry and Health</i> , 2015, 37, 953-967.	1.8	76
119	A chronicle of SARS-CoV-2: Seasonality, environmental fate, transport, inactivation, and antiviral drug resistance. <i>Journal of Hazardous Materials</i> , 2021, 405, 124043.	6.5	76
120	Pine sawdust biomass and biochars at different pyrolysis temperatures change soil redox processes. <i>Science of the Total Environment</i> , 2018, 625, 147-154.	3.9	75
121	Waste-derived compost and biochar amendments for stormwater treatment in bioretention column: Co-transport of metals and colloids. <i>Journal of Hazardous Materials</i> , 2020, 383, 121243.	6.5	75
122	Challenges and opportunities in sustainable management of microplastics and nanoplastics in the environment. <i>Environmental Research</i> , 2022, 207, 112179.	3.7	75
123	Dynamics of mercury fluxes and their controlling factors in large Hg-polluted floodplain areas. <i>Environmental Pollution</i> , 2010, 158, 308-318.	3.7	74
124	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.	1.8	74
125	Enhancing phytoremediation of hazardous metal(loid)s using genome engineering CRISPR-Cas9 technology. <i>Journal of Hazardous Materials</i> , 2021, 414, 125493.	6.5	74
126	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.	4.8	74

#	ARTICLE	IF	CITATIONS
127	Challenges in microbially and chelate-assisted phytoextraction of cadmium and lead – A review. <i>Environmental Pollution</i> , 2021, 287, 117667.	3.7	74
128	Phytotoxicity attenuation in <i>Vigna radiata</i> under heavy metal stress at the presence of biochar and N fixing bacteria. <i>Journal of Environmental Management</i> , 2017, 186, 293-300.	3.8	73
129	Biochar composites: Emerging trends, field successes and sustainability implications. <i>Soil Use and Management</i> , 2022, 38, 14-38.	2.6	73
130	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.	4.2	73
131	Heavy metal mobility in intertidal sediments of the Scheldt estuary: Field monitoring. <i>Science of the Total Environment</i> , 2009, 407, 2919-2930.	3.9	72
132	Potential Emergence of Antiviral-Resistant Pandemic Viruses via Environmental Drug Exposure of Animal Reservoirs. <i>Environmental Science & Technology</i> , 2020, 54, 8503-8505.	4.6	72
133	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.	3.9	72
134	Sulfur-modified biochar as a soil amendment to stabilize mercury pollution: An accelerated simulation of long-term aging effects. <i>Environmental Pollution</i> , 2020, 264, 114687.	3.7	71
135	Soil lead immobilization by biochars in short-term laboratory incubation studies. <i>Environment International</i> , 2019, 127, 190-198.	4.8	70
136	Environmental transformation and nano-toxicity of engineered nano-particles (ENPs) in aquatic and terrestrial organisms. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 2523-2581.	6.6	70
137	Elevation in wildfire frequencies with respect to the climate change. <i>Journal of Environmental Management</i> , 2022, 301, 113769.	3.8	70
138	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. <i>Journal of Environmental Management</i> , 2017, 186, 131-140.	3.8	69
139	Removal of various contaminants from water by renewable lignocellulose-derived biosorbents: a comprehensive and critical review. <i>Critical Reviews in Environmental Science and Technology</i> , 2019, 49, 2155-2219.	6.6	69
140	Release dynamics of As, Co, and Mo in a biochar treated soil under pre-definite redox conditions. <i>Science of the Total Environment</i> , 2019, 657, 686-695.	3.9	69
141	Ammonium nitrogen recovery from digestate by hydrothermal pretreatment followed by activated hydrochar sorption. <i>Chemical Engineering Journal</i> , 2020, 379, 122254.	6.6	69
142	Fate of arsenic in living systems: Implications for sustainable and safe food chains. <i>Journal of Hazardous Materials</i> , 2021, 417, 126050.	6.5	69
143	Rare earth elements in German soils - A review. <i>Chemosphere</i> , 2018, 205, 514-523.	4.2	68
144	Characteristics and mechanisms of cadmium adsorption onto biogenic aragonite shells-derived biosorbent: Batch and column studies. <i>Journal of Environmental Management</i> , 2019, 241, 535-548.	3.8	68

#	ARTICLE	IF	CITATIONS
145	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> , 2022, 158, 106924.	4.8	68
146	Accumulation of chromium in plants and its repercussion in animals and humans. <i>Environmental Pollution</i> , 2022, 301, 119044.	3.7	67
147	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.	3.7	66
148	Prospects and environmental sustainability of phyconanotechnology: A review on algae-mediated metal nanoparticles synthesis and mechanism. <i>Environmental Research</i> , 2022, 212, 113140.	3.7	66
149	Comparative analysis biochar and compost-induced degradation of di-(2-ethylhexyl) phthalate in soils. <i>Science of the Total Environment</i> , 2018, 625, 987-993.	3.9	65
150	Exposure to nickel oxide nanoparticles insinuates physiological, ultrastructural and oxidative damage: A life cycle study on <i>Eisenia fetida</i> . <i>Environmental Pollution</i> , 2019, 254, 113032.	3.7	65
151	Bioaccumulation of potentially toxic elements by submerged plants and biofilms: A critical review. <i>Environment International</i> , 2019, 131, 105015.	4.8	65
152	Bioavailability and health risk assessment of potentially toxic elements in Thriasio Plain, near Athens, Greece. <i>Environmental Geochemistry and Health</i> , 2017, 39, 319-330.	1.8	64
153	Mitigation of mercury accumulation in rice using rice hull-derived biochar as soil amendment: A field investigation. <i>Journal of Hazardous Materials</i> , 2020, 388, 121747.	6.5	64
154	Groundwater hydrochemistry, source identification and pollution assessment in intensive industrial areas, eastern Chinese loess plateau. <i>Environmental Pollution</i> , 2021, 278, 116930.	3.7	64
155	(Im)mobilization and speciation of lead under dynamic redox conditions in a contaminated soil amended with pine sawdust biochar. <i>Environment International</i> , 2020, 135, 105376.	4.8	63
156	Influence of biochar on trace element uptake, toxicity and detoxification in plants and associated health risks: A critical review. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 2803-2843.	6.6	63
157	Treatment processes to eliminate potential environmental hazards and restore agronomic value of sewage sludge: A review. <i>Environmental Pollution</i> , 2022, 293, 118564.	3.7	63
158	Combined application of EDDS and EDTA for removal of potentially toxic elements under multiple soil washing schemes. <i>Chemosphere</i> , 2018, 205, 178-187.	4.2	62
159	Hydroxyapatite tailored hierarchical porous biochar composite immobilized Cd(II) and Pb(II) and mitigated their hazardous effects in contaminated water and soil. <i>Journal of Hazardous Materials</i> , 2022, 437, 129330.	6.5	62
160	Lipid biomarkers for assessment of microbial communities in floodplain soils of the Elbe River (Germany). <i>Wetlands</i> , 2009, 29, 353-362.	0.7	61
161	Impact of controlled redox conditions on nickel in a serpentine soil. <i>Journal of Soils and Sediments</i> , 2011, 11, 406-415.	1.5	61
162	Trace element dynamics of biosolids-derived microbeads. <i>Chemosphere</i> , 2018, 199, 331-339.	4.2	61

#	ARTICLE	IF	CITATIONS
163	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.	4.8	61
164	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.	4.8	61
165	Artificial intelligence (AI) applications in adsorption of heavy metals using modified biochar. <i>Science of the Total Environment</i> , 2021, 801, 149623.	3.9	61
166	Manganese oxide-modified biochar: production, characterization and applications for the removal of pollutants from aqueous environments - a review. <i>Bioresource Technology</i> , 2022, 346, 126581.	4.8	60
167	From mine to mind and mobiles – Lithium contamination and its risk management. <i>Environmental Pollution</i> , 2021, 290, 118067.	3.7	58
168	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.	2.3	58
169	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. <i>Journal of Hazardous Materials</i> , 2020, 389, 122117.	6.5	57
170	Green remediation of toxic metals contaminated mining soil using bacterial consortium and <i>Brassica juncea</i> . <i>Environmental Pollution</i> , 2021, 277, 116789.	3.7	57
171	Effects of nanoparticles on trace element uptake and toxicity in plants: A review. <i>Ecotoxicology and Environmental Safety</i> , 2021, 221, 112437.	2.9	57
172	Production, characterisation, utilisation, and beneficial soil application of steel slag: A review. <i>Journal of Hazardous Materials</i> , 2021, 419, 126478.	6.5	57
173	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.	6.5	57
174	Evaluating the feasibility of pyrophyllite-based ceramic membranes for treating domestic wastewater in anaerobic ceramic membrane bioreactors. <i>Chemical Engineering Journal</i> , 2017, 328, 567-573.	6.6	56
175	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. <i>Journal of Environmental Management</i> , 2019, 237, 5-14.	3.8	56
176	A critical review on remediation of bisphenol S (BPS) contaminated water: Efficacy and mechanisms. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 476-522.	6.6	56
177	Nickel in a serpentine-enriched Fluvisol: Redox affected dynamics and binding forms. <i>Geoderma</i> , 2016, 263, 203-214.	2.3	55
178	Plant and soil responses to hydrothermally converted sewage sludge (sewchar). <i>Chemosphere</i> , 2018, 206, 338-348.	4.2	55
179	Vanadium in thirteen different soil profiles originating from Germany and Egypt: Geochemical fractionation and potential mobilization. <i>Applied Geochemistry</i> , 2018, 88, 288-301.	1.4	55
180	Effect of immobilizing reagents on soil Cd and Pb lability under freeze-thaw cycles: Implications for sustainable agricultural management in seasonally frozen land. <i>Environment International</i> , 2020, 144, 106040.	4.8	54

#	ARTICLE	IF	CITATIONS
181	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.	6.2	54
182	Potentially toxic elements in saltmarsh sediments and common reed (<i>Phragmites australis</i>) of Burullus coastal lagoon at North Nile Delta, Egypt: A survey and risk assessment. <i>Science of the Total Environment</i> , 2019, 649, 1237-1249.	3.9	53
183	Methylmercury production in a paddy soil and its uptake by rice plants as affected by different geochemical mercury pools. <i>Environment International</i> , 2019, 129, 461-469.	4.8	52
184	Effects of selenium on the uptake of toxic trace elements by crop plants: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2021, 51, 2531-2566.	6.6	50
185	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. <i>Science of the Total Environment</i> , 2020, 715, 136958.	3.9	50
186	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.	3.3	50
187	Miscellaneous additives can enhance plant uptake and affect geochemical fractions of copper in a heavily polluted riparian grassland soil. <i>Ecotoxicology and Environmental Safety</i> , 2015, 119, 58-65.	2.9	49
188	N doped cobalt-carbon composite for reduction of p-nitrophenol and pendimethaline. <i>Journal of Alloys and Compounds</i> , 2017, 703, 118-124.	2.8	49
189	Frontier review on the propensity and repercussion of SARS-CoV-2 migration to aquatic environment. <i>Journal of Hazardous Materials Letters</i> , 2020, 1, 100001.	2.0	49
190	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, 826, 154043.	3.9	49
191	Management of biosolids-derived hydrochar (Sewchar): Effect on plant germination, and farmers' acceptance. <i>Journal of Environmental Management</i> , 2019, 237, 200-214.	3.8	48
192	Distribution, transformation and remediation of poly- and per-fluoroalkyl substances (PFAS) in wastewater sources. <i>Chemical Engineering Research and Design</i> , 2022, 164, 91-108.	2.7	48
193	A scale-dependent approach to study pollution control processes in wetland soils using three different techniques. <i>Ecological Engineering</i> , 2010, 36, 1439-1447.	1.6	47
194	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.	6.5	47
195	Effect of Water Table Level on Metal Mobility at Different Depths in Wetland Soils of the Scheldt Estuary (Belgium). <i>Water, Air, and Soil Pollution</i> , 2009, 202, 353-367.	1.1	46
196	Trace element release patterns from three floodplain soils under simulated oxidizedâ€“reduced cycles. <i>Ecological Engineering</i> , 2015, 83, 485-495.	1.6	46
197	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.	6.5	46
198	Mitigation of petroleum-hydrocarbon-contaminated hazardous soils using organic amendments: A review. <i>Journal of Hazardous Materials</i> , 2021, 416, 125702.	6.5	46

#	ARTICLE	IF	CITATIONS
199	Biochar-induced immobilization and transformation of silver-nanoparticles affect growth, intracellular-radicles generation and nutrients assimilation by reducing oxidative stress in maize. <i>Journal of Hazardous Materials</i> , 2020, 390, 121976.	6.5	45
200	Nanoactivated Carbon Reduces Mercury Mobility and Uptake by <i>Oryza sativa</i> L: Mechanistic Investigation Using Spectroscopic and Microscopic Techniques. <i>Environmental Science & Technology</i> , 2020, 54, 2698-2706.	4.6	45
201	Mobilization, Methylation, and Demethylation of Mercury in a Paddy Soil Under Systematic Redox Changes. <i>Environmental Science & Technology</i> , 2021, 55, 10133-10141.	4.6	44
202	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, 829, 154595.	3.9	44
203	Geochemical fractions of rare earth elements in two floodplain soil profiles at the Wupper River, Germany. <i>Geoderma</i> , 2014, 228-229, 160-172.	2.3	43
204	Biogeochemistry of Ni and Pb in a periodically flooded arable soil: Fractionation and redox-induced (im)mobilization. <i>Journal of Environmental Management</i> , 2017, 186, 141-150.	3.8	43
205	Modulation of hexavalent chromium toxicity on <i>Yriganum vulgare</i> in an acidic soil amended with peat, lime, and zeolite. <i>Chemosphere</i> , 2018, 195, 291-300.	4.2	43
206	Occurrence and cycling of trace elements in ultramafic soils and their impacts on human health: A critical review. <i>Environment International</i> , 2019, 131, 104974.	4.8	43
207	Sorption of lead in soil amended with coconut fiber biochar: Geochemical and spectroscopic investigations. <i>Geoderma</i> , 2019, 350, 52-60.	2.3	43
208	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.	1.2	43
209	Mobilization of contaminants: Potential for soil remediation and unintended consequences. <i>Science of the Total Environment</i> , 2022, 839, 156373.	3.9	43
210	Redox-controlled release dynamics of thallium in periodically flooded arable soil. <i>Chemosphere</i> , 2017, 178, 268-276.	4.2	42
211	Rare earth elements in soil profiles of various ecosystems across Germany. <i>Applied Geochemistry</i> , 2019, 102, 197-217.	1.4	42
212	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.	2.9	42
213	Estimation of soil properties with geostatistical methods in floodplains. <i>Archives of Agronomy and Soil Science</i> , 2008, 54, 275-295.	1.3	41
214	Advancement in soil microcosm apparatus for biogeochemical research. <i>Ecological Engineering</i> , 2011, 37, 2071-2075.	1.6	40
215	(Im)mobilization of arsenic, chromium, and nickel in soils via biochar: A meta-analysis. <i>Environmental Pollution</i> , 2021, 286, 117199.	3.7	40
216	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.	8.2	40

#	ARTICLE	IF	CITATIONS
217	Environmental implications, potential value, and future of food-waste anaerobic digestate management: A review. <i>Journal of Environmental Management</i> , 2022, 318, 115519.	3.8	40
218	Trace elements in surface sediments of the Hooghly (Ganges) estuary: distribution and contamination risk assessment. <i>Environmental Geochemistry and Health</i> , 2017, 39, 1245-1258.	1.8	39
219	Synergistic effects of low-/medium-vacuum carbonization on physico-chemical properties and stability characteristics of biochars. <i>Chemical Engineering Journal</i> , 2019, 373, 44-57.	6.6	39
220	Biogeochemical Fractions of Mercury in Soil Profiles of Two Different Floodplain Ecosystems in Germany. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	1.1	38
221	Floating duckweed mitigated ammonia volatilization and increased grain yield and nitrogen use efficiency of rice in biochar amended paddy soils. <i>Chemosphere</i> , 2019, 237, 124532.	4.2	38
222	Mobilization of mercury species under dynamic laboratory redox conditions in a contaminated floodplain soil as affected by biochar and sugar beet factory lime. <i>Science of the Total Environment</i> , 2019, 672, 604-617.	3.9	38
223	Nitric oxide donor, sodium nitroprusside, mitigates mercury toxicity in different cultivars of soybean. <i>Journal of Hazardous Materials</i> , 2021, 408, 124852.	6.5	38
224	<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.	4.2	38
225	Nanobiochar-rhizosphere interactions: Implications for the remediation of heavy-metal contaminated soils. <i>Environmental Pollution</i> , 2022, 299, 118810.	3.7	38
226	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.	3.9	38
227	Removal of nanoplastics in water treatment processes: A review. <i>Science of the Total Environment</i> , 2022, 845, 157168.	3.9	38
228	Mercury Volatilization from Three Floodplain Soils at the Central Elbe River, Germany. <i>Soil and Sediment Contamination</i> , 2009, 18, 429-444.	1.1	37
229	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.	6.5	37
230	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.	6.5	37
231	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.	6.5	37
232	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> , 2022, 292, 133389.	4.2	37
233	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.	4.2	36
234	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.	4.8	36

#	ARTICLE	IF	CITATIONS
235	Dissolved Inorganic Contaminants in a Floodplain Soil: Comparison of In Situ Soil Solutions and Laboratory Methods. <i>Water, Air, and Soil Pollution</i> , 2010, 209, 489-500.	1.1	35
236	Multi-metal resistance and plant growth promotion potential of a wastewater bacterium <i>Pseudomonas aeruginosa</i> and its synergistic benefits. <i>Environmental Geochemistry and Health</i> , 2017, 39, 1583-1593.	1.8	35
237	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.	3.2	35
238	Optimization of a simple field method to determine mercury volatilization from soils—Examples of 13 sites in floodplain ecosystems at the Elbe River (Germany). <i>Ecological Engineering</i> , 2009, 35, 319-328.	1.6	34
239	Biosolids application affects the competitive sorption and lability of cadmium, copper, nickel, lead, and zinc in fluvial and calcareous soils. <i>Environmental Geochemistry and Health</i> , 2017, 39, 1365-1379.	1.8	34
240	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. <i>Journal of Environmental Management</i> , 2017, 186, 253-260.	3.8	34
241	Characterization of pig manure-derived hydrochars for their potential application as fertilizer. <i>Environmental Science and Pollution Research</i> , 2018, 25, 25772-25779.	2.7	34
242	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.	3.9	34
243	Physical, chemical, and microbial contaminants in food waste management for soil application: A review. <i>Environmental Pollution</i> , 2022, 300, 118860.	3.7	34
244	Almond and walnut shell-derived biochars affect sorption-desorption, fractionation, and release of phosphorus in two different soils. <i>Chemosphere</i> , 2020, 241, 124888.	4.2	33
245	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.	3.9	33
246	Metal organic framework derived Cu—carbon composite: An efficient non-noble metal catalyst for reduction of hexavalent chromium and pendimethalin. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 52, 331-337.	2.9	32
247	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.	6.5	32
248	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. <i>Journal of Plant Nutrition and Soil Science</i> , 2011, 174, 186-194.	1.1	31
249	Immobilization of soil copper using organic and inorganic amendments. <i>Journal of Plant Nutrition and Soil Science</i> , 2015, 178, 112-117.	1.1	31
250	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.	3.9	31
251	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> , 2022, 427, 128131.	6.5	31
252	Thiosulphate-induced phytoextraction of mercury in <i>Brassica juncea</i> : Spectroscopic investigations to define a mechanism for Hg uptake. <i>Environmental Pollution</i> , 2018, 242, 986-993.	3.7	30

#	ARTICLE	IF	CITATIONS
253	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.	6.5	30
254	Concentrations and geochemical fractions of rare earth elements in two different marsh soil profiles at the North Sea, Germany. <i>Journal of Soils and Sediments</i> , 2014, 14, 1417-1433.	1.5	29
255	Rare earth elements and their release dynamics under pre-definite redox conditions in a floodplain soil. <i>Chemosphere</i> , 2017, 181, 313-319.	4.2	29
256	Sulfur-modified organoclay promotes plant uptake and affects geochemical fractionation of mercury in a polluted floodplain soil. <i>Journal of Hazardous Materials</i> , 2019, 371, 687-693.	6.5	29
257	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. <i>Journal of Environmental Management</i> , 2020, 255, 109778.	3.8	29
258	Effects of aging and weathering on immobilization of trace metals/metalloids in soils amended with biochar. <i>Environmental Sciences: Processes and Impacts</i> , 2020, 22, 1790-1808.	1.7	29
259	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.	3.8	29
260	Microbial inoculants and struvite improved organic matter humification and stabilized phosphorus during swine manure composting: Multivariate and multiscale investigations. <i>Bioresource Technology</i> , 2022, 351, 126976.	4.8	29
261	Enhancing microplastics biodegradation during composting using livestock manure biochar. <i>Environmental Pollution</i> , 2022, 306, 119339.	3.7	29
262	Use of filtration techniques to study environmental fate of engineered metallic nanoparticles: Factors affecting filter performance. <i>Journal of Hazardous Materials</i> , 2017, 322, 105-117.	6.5	28
263	Assessing the mobilization of As, Cr, Mo, and Se in Egyptian lacustrine and calcareous soils using sequential extraction and biogeochemical microcosm techniques. <i>Journal of Geochemical Exploration</i> , 2018, 191, 28-42.	1.5	28
264	Assessing the potential ecological risk of Co, Cr, Cu, Fe and Zn in the sediments of Hooghlyâ€™Matla estuarine system, India. <i>Environmental Geochemistry and Health</i> , 2019, 41, 53-70.	1.8	28
265	Antidrug resistance in the Indian ambient waters of Ahmedabad during the COVID-19 pandemic. <i>Journal of Hazardous Materials</i> , 2021, 416, 126125.	6.5	28
266	Removal of lead (Pb ²⁺) from contaminated water using a novel MoO ₃ -biochar composite: Performance and mechanism. <i>Environmental Pollution</i> , 2022, 308, 119693.	3.7	28
267	Exploring potential applications of a novel extracellular polymeric substance synthesizing bacterium (<i>Bacillus licheniformis</i>) isolated from gut contents of earthworm (<i>Metaphire posthuma</i>) in environmental remediation. <i>Biodegradation</i> , 2018, 29, 323-337.	1.5	27
268	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. <i>Journal of Hazardous Materials</i> , 2019, 374, 401-411.	6.5	27
269	Enhancing phytoextraction of potentially toxic elements in a polluted floodplain soil using sulfur-impregnated organoclay. <i>Environmental Pollution</i> , 2019, 248, 1059-1066.	3.7	27
270	Comparative study on carbon dioxide-cofed catalytic pyrolysis of grass and woody biomass. <i>Bioresource Technology</i> , 2021, 323, 124633.	4.8	27

#	ARTICLE	IF	CITATIONS
271	Geo- and nano-materials affect the mono-metal and competitive sorption of Cd, Cu, Ni, and Zn in a sewage sludge-treated alkaline soil. <i>Journal of Hazardous Materials</i> , 2019, 379, 120567.	6.5	26
272	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.	3.8	26
273	Modified and pristine biochars for remediation of chromium contamination in soil and aquatic systems. <i>Chemosphere</i> , 2022, 303, 134942.	4.2	26
274	Bioassessment of heavy metals in the surface soil layer of an opencast mine aimed for its rehabilitation. <i>Journal of Environmental Management</i> , 2017, 186, 240-252.	3.8	25
275	Influence of bioenergy waste biochar on proton- and ligand-promoted release of Pb and Cu in a shooting range soil. <i>Science of the Total Environment</i> , 2018, 625, 547-554.	3.9	25
276	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.	3.7	25
277	Biogeochemistry of trace elements in the environment – Editorial to the special issue. <i>Journal of Environmental Management</i> , 2017, 186, 127-130.	3.8	24
278	Utilizing CO ₂ to suppress the generation of harmful chemicals from thermal degradation of polyvinyl chloride. <i>Journal of Cleaner Production</i> , 2017, 162, 1465-1471.	4.6	24
279	Zinc sorption by different soils as affected by selective removal of carbonates and hydrous oxides. <i>Applied Geochemistry</i> , 2018, 88, 49-58.	1.4	24
280	Potential toxicity of trace elements and nanomaterials to Chinese cabbage in arsenic- and lead-contaminated soil amended with biochars. <i>Environmental Geochemistry and Health</i> , 2019, 41, 1777-1791.	1.8	24
281	Co application of biofertilizer and zinc oxide nanoparticles upregulate protective mechanism culminating improved arsenic resistance in maize. <i>Chemosphere</i> , 2022, 294, 133796.	4.2	24
282	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, 118911.	3.7	24
283	Fractionation and mobilization of toxic elements in floodplain soils from Egypt, Germany, and Greece: A comparison study. <i>Eurasian Soil Science</i> , 2015, 48, 1317-1328.	0.5	23
284	A Simple Field Method to Determine Mercury Volatilization from Soils (3 pp). <i>Environmental Science and Pollution Research</i> , 2005, 12, 133-135.	2.7	22
285	Floodplain soils at the Elbe river, Germany, and their diverse microbial biomass. <i>Archives of Agronomy and Soil Science</i> , 2008, 54, 259-273.	1.3	22
286	Release of Ni and Zn from Contaminated Floodplain Soils Under Saturated Flow Conditions. <i>Water, Air, and Soil Pollution</i> , 2010, 205, 93-105.	1.1	22
287	Humus und KlimaÄnderung - Ergebnisse aus 15 langjÄhrigen Dauerfeldversuchen. <i>Archives of Agronomy and Soil Science</i> , 2014, 60, 1485-1517.	1.3	22
288	Compost and sulfur affect the mobilization and phyto-availability of Cd and Ni to sorghum and barnyard grass in a spiked fluvial soil. <i>Environmental Geochemistry and Health</i> , 2017, 39, 1305-1324.	1.8	22

#	ARTICLE	IF	CITATIONS
289	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.	6.5	22
290	Biogeochemical cycling, speciation and transformation pathways of arsenic in aquatic environments with the emphasis on algae. <i>Comprehensive Analytical Chemistry</i> , 2019, 85, 15-51.	0.7	21
291	Distribution and ecological risk assessment of trace elements in the paddy soil-rice ecosystem of Punjab, Pakistan. <i>Environmental Pollution</i> , 2022, 307, 119492.	3.7	21
292	Effect of High Nickel and Chromium Background Levels in Serpentine Soil on Their Accumulation in Organs of a Perennial Plant. <i>Communications in Soil Science and Plant Analysis</i> , 2010, 41, 482-496.	0.6	20
293	Responses of Soil Enzyme Activities and Microbial Community Composition to Moisture Regimes in Paddy Soils Under Long-Term Fertilization Practices. <i>Pedosphere</i> , 2018, 28, 323-331.	2.1	20
294	Speciation and sorption of phosphorus in agricultural soil profiles of redoximorphic character. <i>Environmental Geochemistry and Health</i> , 2020, 42, 3231-3246.	1.8	20
295	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.	2.9	20
296	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.	6.5	20
297	Relationship between soil microbial biomass determined by SIR and PLFA analysis in floodplain soils. <i>Journal of Soils and Sediments</i> , 2010, 10, 4-8.	1.5	19
298	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.	1.1	19
299	Modelling the concentrations of dissolved contaminants (Cd, Cu, Ni, Pb, Zn) in floodplain soils. <i>Environmental Geochemistry and Health</i> , 2017, 39, 331-344.	1.8	19
300	Flooding variations affect soil bacterial communities at the spatial and inter-annual scales. <i>Science of the Total Environment</i> , 2021, 759, 143471.	3.9	19
301	Silicon fractionation in Mollic Fluvisols along the Central Elbe River, Germany. <i>Catena</i> , 2017, 153, 100-105.	2.2	18
302	Valorization of rice husk to aromatics via thermocatalytic conversion in the presence of decomposed methane. <i>Chemical Engineering Journal</i> , 2021, 417, 129264.	6.6	18
303	Biodegradation of hazardous naphthalene and cleaner production of rhamnolipids – Green approaches of pollution mitigation. <i>Environmental Research</i> , 2022, 209, 112875.	3.7	18
304	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.	3.9	18
305	Fungi-derived agriculturally important nanoparticles and their application in crop stress management – Prospects and environmental risks. <i>Environmental Research</i> , 2022, 212, 113543.	3.7	18
306	Partitioning of Ag and CeO ₂ nanoparticles versus Ag and Ce ions in soil suspensions and effect of natural organic matter on CeO ₂ nanoparticles stability. <i>Chemosphere</i> , 2018, 200, 471-480.	4.2	17

#	ARTICLE	IF	CITATIONS
307	Compositional variety of soil organic matter in mollic floodplain-soil profiles - Also an indicator of pedogenesis. <i>Geoderma</i> , 2018, 311, 15-24.	2.3	17
308	Distribution characteristics of Cd in different types of leaves of <i>Festuca arundinacea</i> intercropped with <i>Cicer arietinum</i> L.: A new strategy to remove pollutants by harvesting senescent and dead leaves. <i>Environmental Research</i> , 2019, 179, 108801.	3.7	17
309	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.	3.7	17
310	Redox-induced mobilization of phosphorus in groundwater affected arable soil profiles. <i>Chemosphere</i> , 2021, 275, 129928.	4.2	17
311	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.	6.5	17
312	Which processes prevail?. <i>Geoderma</i> , 2010, 158, 412-420.	2.3	16
313	Effect of biosolid hydrochar on toxicity to earthworms and brine shrimp. <i>Environmental Geochemistry and Health</i> , 2017, 39, 1351-1364.	1.8	16
314	Biochar-mediated transformation of titanium dioxide nanoparticles concerning TiO ₂ NPs-biochar interactions, plant traits and tissue accumulation to cell translocation. <i>Environmental Pollution</i> , 2021, 270, 116077.	3.7	16
315	Pyrolysis of <i>Aesculus chinensis</i> Bunge Seed with Fe ₂ O ₃ /NiO as nanocatalysts for the production of bio-oil material. <i>Journal of Hazardous Materials</i> , 2021, 416, 126012.	6.5	16
316	Impact of a severe flood on large-scale contamination of arable soils by potentially toxic elements (Serbia). <i>Environmental Geochemistry and Health</i> , 2019, 41, 249-266.	1.8	16
317	Stepwise redox changes alter the speciation and mobilization of phosphorus in hydromorphic soils. <i>Chemosphere</i> , 2022, 288, 132652.	4.2	16
318	Environmental applications and risks of nanomaterials: An introduction to CREST publications during 2018-2021. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 3753-3762.	6.6	16
319	Modelling the potential mobility of Cd, Cu, Ni, Pb and Zn in Mollic Fluvisols. <i>Environmental Geochemistry and Health</i> , 2017, 39, 1291-1304.	1.8	15
320	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.	3.7	15
321	Thallium isotopic compositions as tracers in environmental studies: A review. <i>Environment International</i> , 2022, 162, 107148.	4.8	15
322	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.	3.9	15
323	Estimating the pollution characteristics and health risks of potentially toxic metal(loid)s in urban-industrial soils in the Indus basin, Pakistan. <i>Environmental Monitoring and Assessment</i> , 2019, 191, 748.	1.3	14
324	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). <i>Environmental Geochemistry and Health</i> , 2019, 41, 1-4.	1.8	14

#	ARTICLE	IF	CITATIONS
325	Evaluating vanadium bioavailability to cabbage in rural soils using geochemical and micro-spectroscopic techniques. <i>Environmental Pollution</i> , 2020, 258, 113699.	3.7	14
326	Deforestation of rainforests requires active use of UN's Sustainable Development Goals. <i>Science of the Total Environment</i> , 2020, 742, 140681.	3.9	14
327	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.	1.8	14
328	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.	3.7	14
329	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.	6.5	14
330	Melatonin enhanced oilseed rape growth and mitigated Cd stress risk: A novel trial for reducing Cd accumulation by bioenergy crops. <i>Environmental Pollution</i> , 2022, 308, 119642.	3.7	14
331	Permanganate-oxidizable soil organic matter in floodplain soils. <i>Catena</i> , 2017, 149, 381-384.	2.2	13
332	Impact of biosolid application rates on competitive sorption and distribution coefficients of Cd, Cu, Ni, Pb, and Zn in an Alfisol and an Entisol. <i>Chemical Engineering Research and Design</i> , 2018, 115, 38-48.	2.7	13
333	Sediment quality, elemental bioaccumulation and antimicrobial properties of mangroves of Indian Sundarban. <i>Environmental Geochemistry and Health</i> , 2019, 41, 275-296.	1.8	13
334	Biochar as an (Im)mobilizing Agent for the Potentially Toxic Elements in Contaminated Soils. , 2019, , 255-274.		13
335	Evidence of inter-species swing adsorption between aromatic hydrocarbons. <i>Environmental Research</i> , 2020, 181, 108814.	3.7	13
336	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.	3.9	13
337	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.	2.3	13
338	Unraveling natural aging-induced properties change of sludge-derived hydrochar and enhanced cadmium sorption site heterogeneity. <i>Biochar</i> , 2022, 4, .	6.2	13
339	Valorization of Phytoremediation Byproduct via Synthesis of Biodiesel from Cockspur Grass (<i>Echinochloa crus-galli</i>) Seed. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 11588-11595.	3.2	12
340	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.	1.5	12
341	Value of dehydrated food waste fertiliser products in increasing soil health and crop productivity. <i>Environmental Research</i> , 2022, 204, 111927.	3.7	12
342	The role of various ameliorants on geochemical arsenic distribution and CO ₂ -carbon efflux under paddy soil conditions. <i>Environmental Geochemistry and Health</i> , 2023, 45, 507-523.	1.8	12

#	ARTICLE	IF	CITATIONS
343	Addition of walnut shells biochar to alkaline arable soil caused contradictory effects on CO ₂ and N ₂ O emissions, nutrients availability, and enzymes activity. <i>Chemosphere</i> , 2022, 293, 133476.	4.2	12
344	Priming effect after glucose amendment in two different soils evaluated by SIR- and PLFA-technique. <i>Ecological Engineering</i> , 2011, 37, 465-473.	1.6	11
345	Rare Earth Elements in Two Luvisols Developed From Loess Under Arable and Forest Land Use in Bavaria, Germany. <i>Soil Science</i> , 2015, 180, 107-123.	0.9	11
346	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. <i>Journal of Environmental Management</i> , 2019, 234, 440-447.	3.8	11
347	CO ₂ -assisted catalytic pyrolysis of cellulose acetate using Ni-based catalysts. <i>Environmental Pollution</i> , 2021, 275, 116667.	3.7	11
348	First predatory journals, now conferences: The need to establish lists of fake conferences. <i>Science of the Total Environment</i> , 2020, 715, 136990.	3.9	11
349	Efficient Disposal of the Aqueous Products of Wet Organic Waste Hydrothermal Carbonization by Paddy Constructed Wetlands. <i>ACS ES&T Engineering</i> , 2022, 2, 1651-1664.	3.7	11
350	Phytoavailability and uptake of arsenic in ryegrass affected by various amendments in soil of an abandoned gold mining site. <i>Environmental Research</i> , 2022, 214, 113729.	3.7	11
351	Pilot-scale investigation of sludge reduction in aerobic digestion system with endospore-forming bacteria. <i>Chemosphere</i> , 2017, 186, 202-208.	4.2	10
352	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.	3.7	10
353	Modification of hydrothermal liquefaction products from <i>Arthrospira platensis</i> by using carbon dioxide. <i>Algal Research</i> , 2017, 24, 148-153.	2.4	9
354	Interactions between biochar and trace elements in the environment. <i>Science of the Total Environment</i> , 2019, 649, 792.	3.9	9
355	Biodiesel synthesis from swine manure. <i>Bioresource Technology</i> , 2020, 317, 124032.	4.8	9
356	Biogeochemical cycle of mercury and controlling technologies: Publications in critical reviews in environmental science & technology in the period of 2017-2021. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 4325-4330.	6.6	9
357	Integration of environmental metabolomics and physiological approach for evaluation of saline pollution to rice plant. <i>Environmental Pollution</i> , 2021, 286, 117214.	3.7	8
358	The significant role of electron donating capacity and carbon structure of biochar to electron transfer of zerovalent iron. <i>Chemosphere</i> , 2022, 287, 132381.	4.2	8
359	Differences and Interactions in Placental Manganese and Iron Transfer across an In Vitro Model of Human Villous Trophoblasts. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3296.	1.8	8
360	Retention of sulfamethoxazole by cinnamon wood biochar and its efficacy of reducing bioavailability and plant uptake in soil. <i>Chemosphere</i> , 2022, 297, 134073.	4.2	8

#	ARTICLE	IF	CITATIONS
361	Trace Metals Accumulation in <i>Bacopa monnieri</i> and Their Bioaccessibility. <i>Planta Medica</i> , 2013, 79, 1081-1083.	0.7	7
362	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
363	Harnessing fertilizer potential of human urine in a mesocosm system: a novel test case for linking the loop between sanitation and aquaculture. <i>Environmental Geochemistry and Health</i> , 2017, 39, 1545-1561.	1.8	7
364	Phosphorus cycling and spring barley crop response to varying redox potential. <i>Vadose Zone Journal</i> , 2020, 19, e20088.	1.3	7
365	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.	2.3	7
366	Special issue on biochar technologies, production, and environmental applications in <i>Critical Reviews in Environmental Science & Technology</i> during 2017â€“2021. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 3375-3383.	6.6	7
367	Efficient removal of Cd(II) from aqueous environment by potassium permanganate-modified eucalyptus biochar. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 77-89.	2.9	7
368	Simultaneous productions of biodiesel and biochar from krill. <i>Journal of Cleaner Production</i> , 2022, 335, 130296.	4.6	7
369	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, 828, 154427.	3.9	7
370	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.	6.5	7
371	Soil Redox Potential and pH Controllers. <i>Soil Science Society of America Book Series</i> , 0, , 107-116.	0.3	5
372	Impact of raking and bioturbation-mediated ecological manipulation on sedimentâ€“water phosphorus diagenesis: a mesocosm study supported with radioactive signature. <i>Environmental Geochemistry and Health</i> , 2017, 39, 1563-1581.	1.8	5
373	Does soil organic matter in mollic horizons of central/east European floodplain soils have common chemical features?. <i>Catena</i> , 2021, 200, 105192.	2.2	5
374	Understanding and Monitoring Chemical and Biological Soil Degradation. <i>Innovations in Landscape Research</i> , 2022, , 75-124.	0.2	5
375	Biochar effects on environmental qualities in multiple directions. <i>Chemosphere</i> , 2020, 250, 126306.	4.2	4
376	Cosorption of Zn(II) and chlortetracycline onto montmorillonite: pH effects and molecular investigations. <i>Journal of Hazardous Materials</i> , 2022, 424, 127368.	6.5	4
377	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> , 2023, 45, 359-379.	1.8	4
378	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.	3.7	4

#	ARTICLE	IF	CITATIONS
379	Mercury cycling and bioaccumulation in a changing environment. <i>Science of the Total Environment</i> , 2019, 670, 345.	3.9	3
380	New measures in 2021 to increase the quality and reputation of the Critical Review in Environmental Science and Technology (CREST) journal. <i>Critical Reviews in Environmental Science and Technology</i> , 2021, 51, 1303-1305.	6.6	3
381	Potential of Biochar to Immobilize Nickel in Contaminated Soils. , 2018, , 293-318.		3
382	Part I: The Biological System of the Chemical Elements (BSCE) and the role of Lithium for mental health care. <i>Bioactive Compounds in Health and Disease</i> , 2018, 1, 1.	0.2	2
383	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.	0.3	2
384	New measures in 2022 to enhance the quality and reputation of Critical Reviews in Environmental Science and Technology journal. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 3943-3946.	6.6	2
385	Influence of biochar on soil biology in the charosphere. , 2022, , 273-291.		2
386	Soil Microbial Biomass and Phospholipid Fatty Acids. <i>Soil Science Society of America Book Series</i> , 2015, , 331-348.	0.3	1
387	International Conference on Heavy Metals in the Environment (ICHMET). <i>Chemosphere</i> , 2017, 185, 94-95.	4.2	1
388	Trace elements in the cycle of soils, sediments, waters, and plants: Editorial to the special issue. <i>Chemosphere</i> , 2018, 213, 610.	4.2	1
389	Environmental management of two of the world's most endangered marine and terrestrial predators: Vaquita and cheetah. <i>Environmental Research</i> , 2020, 190, 109966.	3.7	1
390	Mechanisms and influencing factors of yttrium sorption on paddy soil: Experiments and modeling. <i>Chemosphere</i> , 2022, , 135688.	4.2	1
391	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.	1.1	0
392	Recent Progress in Mercury Research by Young Chinese Scholars. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2019, 102, 595-596.	1.3	0
393	Be cautious applying carbon-fluorine bonds in drug delivery. <i>Chemosphere</i> , 2020, 248, 125971.	4.2	0
394	Teaching Green Analytical Chemistry on the Example of Bioindication and Biomonitoring (B & B) Technologies. <i>Green Chemistry and Sustainable Technology</i> , 2019, , 19-43.	0.4	0
395	Functionalized biochars for the (im) mobilization of potentially toxic elements in paddy soils under dynamic redox conditions: a case study. , 2022, , 155-164.		0