

Jörg Rinklebe

List of Publications by Year in descending order

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Version: 2024-02-01

395
papers

29,891
citations

3731

89
h-index

8630

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.	10.0	701
2	Trace elements in the soil-plant interface: Phytoavailability, translocation, and phytoremediation—A review. <i>Earth-Science Reviews</i> , 2017, 171, 621-645.	9.1	588
3	Biochar application to low fertility soils: A review of current status, and future prospects. <i>Geoderma</i> , 2019, 337, 536-554.	5.1	571
4	Metal contamination and bioremediation of agricultural soils for food safety and sustainability. <i>Nature Reviews Earth & Environment</i> , 2020, 1, 366-381.	29.7	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.	12.8	419
6	Response of microbial communities to biochar-amended soils: a critical review. <i>Biochar</i> , 2019, 1, 3-22.	12.6	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.	6.0	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.	19.3	355
9	A critical review on effects, tolerance mechanisms and management of cadmium in vegetables. <i>Chemosphere</i> , 2017, 182, 90-105.	8.2	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.	5.1	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.	10.0	337
12	Technologies and perspectives for achieving carbon neutrality. <i>Innovation(China)</i> , 2021, 2, 100180.	9.1	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.	10.0	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.	12.8	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.	7.5	297
16	Interaction of arsenic with biochar in soil and water: A critical review. <i>Carbon</i> , 2017, 113, 219-230.	10.3	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.	10.0	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.	10.0	278

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19	Cadmium phytoremediation potential of Brassica crop species: A review. <i>Science of the Total Environment</i> , 2018, 631-632, 1175-1191.	8.0	275
20	Biochar Aging: Mechanisms, Physicochemical Changes, Assessment, And Implications for Field Applications. <i>Environmental Science & Technology</i> , 2020, 54, 14797-14814.	10.0	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.	8.2	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.	7.8	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.	8.2	245
24	Multifunctional applications of biochar beyond carbon storage. <i>International Materials Reviews</i> , 2022, 67, 150-200.	19.3	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.	12.7	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.	14.7	239
27	Transformation pathways and fate of engineered nanoparticles (ENPs) in distinct interactive environmental compartments: A review. <i>Environment International</i> , 2020, 138, 105646.	10.0	238
28	Waste-derived biochar for water pollution control and sustainable development. <i>Nature Reviews Earth & Environment</i> , 2022, 3, 444-460.	29.7	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.	8.2	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.	10.0	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.	3.6	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.	7.8	218
33	Soil organic carbon dynamics: Impact of land use changes and management practices: A review. <i>Advances in Agronomy</i> , 2019, , 1-107.	5.2	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.	12.4	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.	5.1	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.	8.0	201

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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.	4.9	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.	12.8	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.	8.2	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.	5.1	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.	9.6	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.	8.0	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.	8.0	174
44	Chernozem – Soil of the Year 2005. <i>Journal of Plant Nutrition and Soil Science</i> , 2005, 168, 725-740.	1.9	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.	12.4	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.	10.0	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.	12.7	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.	8.2	166
49	Customised fabrication of nitrogen-doped biochar for environmental and energy applications. <i>Chemical Engineering Journal</i> , 2020, 401, 126136.	12.7	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.	12.4	155
51	SARS-CoV-2 coronavirus in water and wastewater: A critical review about presence and concern. <i>Environmental Research</i> , 2021, 193, 110265.	7.5	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.	12.4	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.	12.4	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.	6.0	145

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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.	5.1	144
56	Sea Level Rise Induced Arsenic Release from Historically Contaminated Coastal Soils. <i>Environmental Science & Technology</i> , 2017, 51, 5913-5922.	10.0	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.	12.8	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.	2.2	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.	12.4	140
60	Biochar-induced metal immobilization and soil biogeochemical process: An integrated mechanistic approach. <i>Science of the Total Environment</i> , 2020, 698, 134112.	8.0	139
61	Prediction of Soil Heavy Metal Immobilization by Biochar Using Machine Learning. <i>Environmental Science & Technology</i> , 2022, 56, 4187-4198.	10.0	138
62	Exploring the arsenic removal potential of various biosorbents from water. <i>Environment International</i> , 2019, 123, 567-579.	10.0	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.	9.6	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, .	1.9	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.	8.2	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.	12.4	128
67	Antimony contamination and its risk management in complex environmental settings: A review. <i>Environment International</i> , 2022, 158, 106908.	10.0	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.	8.2	121
69	A review of green remediation strategies for heavy metal contaminated soil. <i>Soil Use and Management</i> , 2021, 37, 936-963.	4.9	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.	10.0	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.	14.7	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.	2.4	114

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73	Arsenic speciation and biotransformation pathways in the aquatic ecosystem: The significance of algae. <i>Journal of Hazardous Materials</i> , 2021, 403, 124027.	12.4	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.	2.2	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.	1.9	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.	3.1	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.	8.0	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.	12.7	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.	4.8	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.	12.8	105
81	Microbial diversity in three floodplain soils at the Elbe River (Germany). <i>Soil Biology and Biochemistry</i> , 2006, 38, 2144-2151.	8.8	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.	10.0	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.	5.1	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.	7.5	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.	8.0	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.	7.5	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.	8.0	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.	8.2	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.	6.0	95
90	Supercritical carbon dioxide extraction of plant phytochemicals for biological and environmental applications “ A review. <i>Chemosphere</i> , 2021, 271, 129525.	8.2	93

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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.	10.0	92
93	Trace elements-induced phytohomeiosis: A critical review and mechanistic interpretation. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 1984-2015.	12.8	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.	10.0	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.	12.4	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.	8.2	88
97	Redox chemistry of nickel in soils and sediments: A review. <i>Chemosphere</i> , 2017, 179, 265-278.	8.2	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.	5.1	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.	12.4	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.	12.4	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.	7.8	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.	12.7	86
103	Phytoremediation potential of twelve wild plant species for toxic elements in a contaminated soil. <i>Environment International</i> , 2021, 146, 106233.	10.0	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.	12.8	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.	12.4	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.	7.5	82
107	Chemical recycling of plastic waste via thermocatalytic routes. <i>Journal of Cleaner Production</i> , 2021, 321, 128989.	9.3	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.	3.0	80

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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.	7.5	80
110	Aggregation of floodplain soils based on classification principles to predict concentrations of nutrients and pollutants. <i>Geoderma</i> , 2007, 141, 210-223.	5.1	79
111	Potentially toxic elements in solid waste streams: Fate and management approaches. <i>Environmental Pollution</i> , 2019, 253, 680-707.	7.5	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.	8.0	79
113	Insights into upstream processing of microalgae: A review. <i>Bioresource Technology</i> , 2021, 329, 124870.	9.6	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.	16.4	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.	8.0	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.	7.5	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.	10.0	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.	3.4	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.	12.4	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.	8.0	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.	12.4	75
122	Challenges and opportunities in sustainable management of microplastics and nanoplastics in the environment. <i>Environmental Research</i> , 2022, 207, 112179.	7.5	75
123	Dynamics of mercury fluxes and their controlling factors in large Hg-polluted floodplain areas. <i>Environmental Pollution</i> , 2010, 158, 308-318.	7.5	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.	3.5	74
125	Enhancing phytoremediation of hazardous metal(loid)s using genome engineering CRISPR-Cas9 technology. <i>Journal of Hazardous Materials</i> , 2021, 414, 125493.	12.4	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.	10.0	74

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127	Challenges in microbially and chelate-assisted phytoextraction of cadmium and lead – A review. <i>Environmental Pollution</i> , 2021, 287, 117667.	7.5	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.	7.8	73
129	Biochar composites: Emerging trends, field successes and sustainability implications. <i>Soil Use and Management</i> , 2022, 38, 14-38.	4.9	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.	8.2	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.	8.0	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.	10.0	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.	8.0	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.	7.5	71
135	Soil lead immobilization by biochars in short-term laboratory incubation studies. <i>Environment International</i> , 2019, 127, 190-198.	10.0	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.	12.8	70
137	Elevation in wildfire frequencies with respect to the climate change. <i>Journal of Environmental Management</i> , 2022, 301, 113769.	7.8	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.	7.8	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.	12.8	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.	8.0	69
141	Ammonium nitrogen recovery from digestate by hydrothermal pretreatment followed by activated hydrochar sorption. <i>Chemical Engineering Journal</i> , 2020, 379, 122254.	12.7	69
142	Fate of arsenic in living systems: Implications for sustainable and safe food chains. <i>Journal of Hazardous Materials</i> , 2021, 417, 126050.	12.4	69
143	Rare earth elements in German soils - A review. <i>Chemosphere</i> , 2018, 205, 514-523.	8.2	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.	7.8	68

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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.	10.0	68
146	Accumulation of chromium in plants and its repercussion in animals and humans. <i>Environmental Pollution</i> , 2022, 301, 119044.	7.5	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.	7.5	66
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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.	7.5	17
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368	Simultaneous productions of biodiesel and biochar from krill. <i>Journal of Cleaner Production</i> , 2022, 335, 130296.	9.3	7
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