

# Jrg Rinklebe

## List of Publications by Citations

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

369  
papers

15,659  
citations

66  
h-index

107  
g-index

403  
ext. papers

22,140  
ext. citations

8.8  
avg, IF

7.56  
L-index

#	Paper	IF	Citations
369	Trace elements in the soil-plant interface: Phytoavailability, translocation, and phytoremediation: A review. <i>Earth-Science Reviews</i> , <b>2017</b> , 171, 621-645	10.2	396
368	Biochar application to low fertility soils: A review of current status, and future prospects. <i>Geoderma</i> , <b>2019</b> , 337, 536-554	6.7	357
367	Soil amendments for immobilization of potentially toxic elements in contaminated soils: A critical review. <i>Environment International</i> , <b>2020</b> , 134, 105046	12.9	352
366	Controlled variation of redox conditions in a floodplain soil: Impact on metal mobilization and biomethylation of arsenic and antimony. <i>Geoderma</i> , <b>2011</b> , 160, 414-424	6.7	276
365	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> , <b>2017</b> , 140, 37-47	7	252
364	Cycling of mercury in the environment: Sources, fate, and human health implications: A review. <i>Critical Reviews in Environmental Science and Technology</i> , <b>2017</b> , 47, 693-794	11.1	240
363	A critical review on effects, tolerance mechanisms and management of cadmium in vegetables. <i>Chemosphere</i> , <b>2017</b> , 182, 90-105	8.4	232
362	Wood-based biochar for the removal of potentially toxic elements in water and wastewater: a critical review. <i>International Materials Reviews</i> , <b>2019</b> , 64, 216-247	16.1	228
361	Arsenic removal by perilla leaf biochar in aqueous solutions and groundwater: An integrated spectroscopic and microscopic examination. <i>Environmental Pollution</i> , <b>2018</b> , 232, 31-41	9.3	222
360	Interaction of arsenic with biochar in soil and water: A critical review. <i>Carbon</i> , <b>2017</b> , 113, 219-230	10.4	200
359	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> , <b>2015</b> , 74, 319-328	2.9	188
358	Mobility and phytoavailability of As and Pb in a contaminated soil using pine sawdust biochar under systematic change of redox conditions. <i>Chemosphere</i> , <b>2017</b> , 178, 110-118	8.4	185
357	Heavy metal immobilization and microbial community abundance by vegetable waste and pine cone biochar of agricultural soils. <i>Chemosphere</i> , <b>2017</b> , 174, 593-603	8.4	184
356	Health risk assessment of potentially toxic elements in soils along the Central Elbe River, Germany. <i>Environment International</i> , <b>2019</b> , 126, 76-88	12.9	184
355	Cadmium phytoremediation potential of Brassica crop species: A review. <i>Science of the Total Environment</i> , <b>2018</b> , 631-632, 1175-1191	10.2	177
354	Response of microbial communities to biochar-amended soils: a critical review. <i>Biochar</i> , <b>2019</b> , 1, 3-22	10	175
353	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> , <b>2013</b> , 201-202, 43-56	14.3	173

352	A critical review on bioremediation technologies for Cr(VI)-contaminated soils and wastewater. <i>Critical Reviews in Environmental Science and Technology</i> , <b>2019</b> , 49, 1027-1078	11.1	171
351	Metal contamination and bioremediation of agricultural soils for food safety and sustainability. <i>Nature Reviews Earth &amp; Environment</i> , <b>2020</b> , 1, 366-381	30.2	171
350	Particulate plastics as a vector for toxic trace-element uptake by aquatic and terrestrial organisms and human health risk. <i>Environment International</i> , <b>2019</b> , 131, 104937	12.9	169
349	Impact of sugarcane bagasse-derived biochar on heavy metal availability and microbial activity: A field study. <i>Chemosphere</i> , <b>2018</b> , 200, 274-282	8.4	168
348	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> , <b>2017</b> , 186, 192-200	7.9	160
347	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> , <b>2019</b> , 127, 819-847	12.9	160
346	Mercury speciation, transformation, and transportation in soils, atmospheric flux, and implications for risk management: A critical review. <i>Environment International</i> , <b>2019</b> , 126, 747-761	12.9	149
345	Amendment of biochar reduces the release of toxic elements under dynamic redox conditions in a contaminated floodplain soil. <i>Chemosphere</i> , <b>2016</b> , 142, 41-7	8.4	149
344	Biochar composition-dependent impacts on soil nutrient release, carbon mineralization, and potential environmental risk: A review. <i>Journal of Environmental Management</i> , <b>2019</b> , 241, 458-467	7.9	145
343	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> , <b>2018</b> , 624, 1059-1071	10.2	144
342	Influence of soil properties and feedstocks on biochar potential for carbon mineralization and improvement of infertile soils. <i>Geoderma</i> , <b>2018</b> , 332, 100-108	6.7	142
341	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> , <b>2016</b> , 270, 21-32	6.7	133
340	Chernozem Soil of the Year 2005. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2005</b> , 168, 725-740	2.3	131
339	Major Biogeochemical Processes in Soils-A Microcosm Incubation from Reducing to Oxidizing Conditions. <i>Soil Science Society of America Journal</i> , <b>2007</b> , 71, 1406-1417	2.5	129
338	Redox effects on release kinetics of arsenic, cadmium, cobalt, and vanadium in Wax Lake Deltaic freshwater marsh soils. <i>Chemosphere</i> , <b>2016</b> , 150, 740-748	8.4	126
337	Remediation of mercury contaminated soil, water, and air: A review of emerging materials and innovative technologies. <i>Environment International</i> , <b>2020</b> , 134, 105281	12.9	123
336	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> , <b>2018</b> , 621, 1642-1651	10.2	122
335	A critical review on arsenic removal from water using biochar-based sorbents: The significance of modification and redox reactions. <i>Chemical Engineering Journal</i> , <b>2020</b> , 396, 125195	14.7	121

334	Geochemical fractions of chromium, copper, and zinc and their vertical distribution in floodplain soil profiles along the Central Elbe River, Germany. <i>Geoderma</i> , <b>2014</b> , 228-229, 142-159	6.7	113
333	Transformation pathways and fate of engineered nanoparticles (ENPs) in distinct interactive environmental compartments: A review. <i>Environment International</i> , <b>2020</b> , 138, 105646	12.9	112
332	Sea Level Rise Induced Arsenic Release from Historically Contaminated Coastal Soils. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 5913-5922	10.3	107
331	Sorption of norfloxacin, sulfamerazine and oxytetracycline by KOH-modified biochar under single and ternary systems. <i>Bioresource Technology</i> , <b>2018</b> , 263, 385-392	11	104
330	New trends in biochar pyrolysis and modification strategies: feedstock, pyrolysis conditions, sustainability concerns and implications for soil amendment. <i>Soil Use and Management</i> , <b>2020</b> , 36, 358-386 <sup>2,1</sup>		100
329	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> , <b>2017</b> , 174, 515-523	8.4	98
328	Soil and maize contamination by trace elements and associated health risk assessment in the industrial area of Volos, Greece. <i>Environment International</i> , <b>2019</b> , 124, 79-88	12.9	98
327	Bamboo- and pig-derived biochars reduce leaching losses of dibutyl phthalate, cadmium, and lead from co-contaminated soils. <i>Chemosphere</i> , <b>2018</b> , 198, 450-459	8.4	97
326	Biochar Aging: Mechanisms, Physicochemical Changes, Assessment, And Implications for Field Applications. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 14797-14814	10.3	92
325	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> , <b>2014</b> , 225, 1	2.6	91
324	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> , <b>2014</b> , 23, 779-799	3.2	90
323	Exploring the arsenic removal potential of various biosorbents from water. <i>Environment International</i> , <b>2019</b> , 123, 567-579	12.9	89
322	Soil organic carbon dynamics: Impact of land use changes and management practices: A review. <i>Advances in Agronomy</i> , <b>2019</b> , 1-107	7.7	88
321	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> , <b>2014</b> , 78, 1065-1078 <sup>2,5</sup>		88
320	Biochar-induced metal immobilization and soil biogeochemical process: An integrated mechanistic approach. <i>Science of the Total Environment</i> , <b>2020</b> , 698, 134112	10.2	87
319	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> , <b>2014</b> , 228-229, 5-13	6.7	86
318	Fabrication of engineered biochar from paper mill sludge and its application into removal of arsenic and cadmium in acidic water. <i>Bioresource Technology</i> , <b>2017</b> , 246, 69-75	11	84
317	Microbial diversity in three floodplain soils at the Elbe River (Germany). <i>Soil Biology and Biochemistry</i> , <b>2006</b> , 38, 2144-2151	7.5	84

316	Phytomanagement of heavy metals in contaminated soils using sunflower: A review. <i>Critical Reviews in Environmental Science and Technology</i> , <b>2016</b> , 46, 1498-1528	11.1	82
315	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> , <b>2014</b> , 191, 223-31	9.3	82
314	Arsenic, chromium, molybdenum, and selenium: Geochemical fractions and potential mobilization in riverine soil profiles originating from Germany and Egypt. <i>Chemosphere</i> , <b>2017</b> , 180, 553-563	8.4	78
313	Customised fabrication of nitrogen-doped biochar for environmental and energy applications. <i>Chemical Engineering Journal</i> , <b>2020</b> , 401, 126136	14.7	78
312	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> , <b>2016</b> , 150, 390-397	8.4	73
311	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> , <b>2019</b> , 173, 156-164	7	72
310	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> , <b>2017</b> , 142, 375-387	7	71
309	Arsenic removal by natural and chemically modified water melon rind in aqueous solutions and groundwater. <i>Science of the Total Environment</i> , <b>2018</b> , 645, 1444-1455	10.2	71
308	Aggregation of floodplain soils based on classification principles to predict concentrations of nutrients and pollutants. <i>Geoderma</i> , <b>2007</b> , 141, 210-223	6.7	71
307	SARS-CoV-2 coronavirus in water and wastewater: A critical review about presence and concern. <i>Environmental Research</i> , <b>2021</b> , 193, 110265	7.9	69
306	Dynamics of mercury fluxes and their controlling factors in large Hg-polluted floodplain areas. <i>Environmental Pollution</i> , <b>2010</b> , 158, 308-18	9.3	67
305	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> , <b>2020</b> , 50, 549-611	14.1	67
304	Removing tetracycline and Hg(II) with ball-milled magnetic nanobiochar and its potential on polluted irrigation water reclamation. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 384, 121095	12.8	66
303	Roles of biochar-derived dissolved organic matter in soil amendment and environmental remediation: A critical review. <i>Chemical Engineering Journal</i> , <b>2021</b> , 424, 130387	14.7	65
302	Phytoextraction of potentially toxic elements by Indian mustard, rapeseed, and sunflower from a contaminated riparian soil. <i>Environmental Geochemistry and Health</i> , <b>2015</b> , 37, 953-67	4.7	63
301	Heavy metal mobility in intertidal sediments of the Scheldt estuary: Field monitoring. <i>Science of the Total Environment</i> , <b>2009</b> , 407, 2919-30	10.2	62
300	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> , <b>2020</b> , 140, 105754	12.9	60
299	Mechanistic insights into red mud, blast furnace slag, or metakaolin-assisted stabilization/solidification of arsenic-contaminated sediment. <i>Environment International</i> , <b>2019</b> , 133, 105247	12.9	60

298	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> , <b>2015</b> , 15, 623-633	3.4	59
297	Conversion of biological solid waste to graphene-containing biochar for water remediation: A critical review. <i>Chemical Engineering Journal</i> , <b>2020</b> , 390, 124611	14.7	59
296	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> , <b>2020</b> , 63,	2.9	59
295	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> , <b>2021</b> , 407, 124344	12.8	59
294	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> , <b>2015</b> , 12, 2765-2776	3.3	58
293	Multifunctional applications of biochar beyond carbon storage. <i>International Materials Reviews</i> , <b>2022</b> , 1-51	16.1	58
292	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> , <b>2019</b> , 265, 1-13	14.3	58
291	Pine sawdust biomass and biochars at different pyrolysis temperatures change soil redox processes. <i>Science of the Total Environment</i> , <b>2018</b> , 625, 147-154	10.2	57
290	Impact of controlled redox conditions on nickel in a serpentine soil. <i>Journal of Soils and Sediments</i> , <b>2011</b> , 11, 406-415	3.4	57
289	A review of biochar-based sorbents for separation of heavy metals from water. <i>International Journal of Phytoremediation</i> , <b>2020</b> , 22, 111-126	3.9	57
288	Release dynamics of As, Co, and Mo in a biochar treated soil under pre-definite redox conditions. <i>Science of the Total Environment</i> , <b>2019</b> , 657, 686-695	10.2	56
287	Bioavailability and health risk assessment of potentially toxic elements in Thriasio Plain, near Athens, Greece. <i>Environmental Geochemistry and Health</i> , <b>2017</b> , 39, 319-330	4.7	55
286	Trace elements-induced phytohomeiosis: A critical review and mechanistic interpretation. <i>Critical Reviews in Environmental Science and Technology</i> , <b>2020</b> , 50, 1984-2015	11.1	55
285	A critical review on performance indicators for evaluating soil biota and soil health of biochar-amended soils. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 414, 125378	12.8	55
284	Redox chemistry of nickel in soils and sediments: A review. <i>Chemosphere</i> , <b>2017</b> , 179, 265-278	8.4	54
283	Soil lead immobilization by biochars in short-term laboratory incubation studies. <i>Environment International</i> , <b>2019</b> , 127, 190-198	12.9	54
282	Impact of biochar on mobilization, methylation, and ethylation of mercury under dynamic redox conditions in a contaminated floodplain soil. <i>Environment International</i> , <b>2019</b> , 127, 276-290	12.9	54
281	Remediation of poly- and perfluoroalkyl substances (PFAS) contaminated soils - To mobilize or to immobilize or to degrade?. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 401, 123892	12.8	54



280	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> , <b>2021</b> , 403, 123628	12.8	53
279	Freundlich sorption parameters for cadmium, copper, nickel, lead, and zinc for different soils: Influence of kinetics. <i>Geoderma</i> , <b>2018</b> , 324, 80-88	6.7	52
278	Comparative analysis biochar and compost-induced degradation of di-(2-ethylhexyl) phthalate in soils. <i>Science of the Total Environment</i> , <b>2018</b> , 625, 987-993	10.2	51
277	Lipid biomarkers for assessment of microbial communities in floodplain soils of the Elbe River (Germany). <i>Wetlands</i> , <b>2009</b> , 29, 353-362	1.7	51
276	Sorption mechanisms of lead on silicon-rich biochar in aqueous solution: Spectroscopic investigation. <i>Science of the Total Environment</i> , <b>2019</b> , 672, 572-582	10.2	50
275	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> , <b>2020</b> , 264, 114773	9.3	50
274	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> , <b>2021</b> , 417, 126039	12.8	50
273	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> , <b>2017</b> , 186, 131-140	7.9	49
272	Waste-derived compost and biochar amendments for stormwater treatment in bioretention column: Co-transport of metals and colloids. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 383, 121243	12.8	48
271	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> , <b>2019</b> , 678, 43-52	10.2	47
270	Arsenic speciation and biotransformation pathways in the aquatic ecosystem: The significance of algae. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 403, 124027	12.8	46
269	A chronicle of SARS-CoV-2: Seasonality, environmental fate, transport, inactivation, and antiviral drug resistance. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 405, 124043	12.8	46
268	Combined application of EDDS and EDTA for removal of potentially toxic elements under multiple soil washing schemes. <i>Chemosphere</i> , <b>2018</b> , 205, 178-187	8.4	45
267	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> , <b>2019</b> , 49, 2155-2219	11.1	44
266	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> , <b>2020</b> , 261, 114116	9.3	44
265	Potentially toxic elements in solid waste streams: Fate and management approaches. <i>Environmental Pollution</i> , <b>2019</b> , 253, 680-707	9.3	44
264	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> , <b>2020</b> , 261, 110246	7.9	43
263	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> , <b>2017</b> , 186, 293-300	7.9	43

262	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> , <b>2015</b> , 119, 58-65	7	43
261	Phytoremediation potential of twelve wild plant species for toxic elements in a contaminated soil. <i>Environment International</i> , <b>2021</b> , 146, 106233	12.9	43
260	Evaluating the feasibility of pyrophyllite-based ceramic membranes for treating domestic wastewater in anaerobic ceramic membrane bioreactors. <i>Chemical Engineering Journal</i> , <b>2017</b> , 328, 567-574	14.7	42
259	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> , <b>2020</b> , 50, 2724-2774	11.1	42
258	Characteristics and mechanisms of cadmium adsorption onto biogenic aragonite shells-derived biosorbent: Batch and column studies. <i>Journal of Environmental Management</i> , <b>2019</b> , 241, 535-548	7.9	42
257	Integration of silicon and secondary metabolites in plants: a significant association in stress tolerance. <i>Journal of Experimental Botany</i> , <b>2020</b> , 71, 6758-6774	7	41
256	Sulfur-modified biochar as a soil amendment to stabilize mercury pollution: An accelerated simulation of long-term aging effects. <i>Environmental Pollution</i> , <b>2020</b> , 264, 114687	9.3	41
255	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> , <b>2017</b> , 307, 122-138	6.7	41
254	Trace element dynamics of biosolids-derived microbeads. <i>Chemosphere</i> , <b>2018</b> , 199, 331-339	8.4	40
253	Enhancing phytoremediation of hazardous metal(loid)s using genome engineering CRISPR-Cas9 technology. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 414, 125493	12.8	40
252	Nickel in a serpentine-enriched Fluvisol: Redox affected dynamics and binding forms. <i>Geoderma</i> , <b>2016</b> , 263, 203-214	6.7	39
251	Bioaccumulation of potentially toxic elements by submerged plants and biofilms: A critical review. <i>Environment International</i> , <b>2019</b> , 131, 105015	12.9	39
250	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> , <b>2009</b> , 202, 353-367	2.6	39
249	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> , <b>2019</b> , 649, 1237-1249	10.2	39
248	Cadmium stress in plants: A critical review of the effects, mechanisms, and tolerance strategies. <i>Critical Reviews in Environmental Science and Technology</i> , <b>2020</b> , 1-52	11.1	38
247	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> , <b>2020</b> , 262, 114312	9.3	38
246	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> , <b>2020</b> , 389, 122117	12.8	38
245	Rare earth elements in German soils - A review. <i>Chemosphere</i> , <b>2018</b> , 205, 514-523	8.4	38



244	Vanadium in thirteen different soil profiles originating from Germany and Egypt: Geochemical fractionation and potential mobilization. <i>Applied Geochemistry</i> , <b>2018</b> , 88, 288-301	3.5	38
243	Geochemical fractions of rare earth elements in two floodplain soil profiles at the Wupper River, Germany. <i>Geoderma</i> , <b>2014</b> , 228-229, 160-172	6.7	38
242	A scale-dependent approach to study pollution control processes in wetland soils using three different techniques. <i>Ecological Engineering</i> , <b>2010</b> , 36, 1439-1447	3.9	38
241	Elucidating the differentiation of soil heavy metals under different land uses with geographically weighted regression and self-organizing map. <i>Environmental Pollution</i> , <b>2020</b> , 260, 114065	9.3	38
240	Plant and soil responses to hydrothermally converted sewage sludge (sewchar). <i>Chemosphere</i> , <b>2018</b> , 206, 338-348	8.4	37
239	Advancement in soil microcosm apparatus for biogeochemical research. <i>Ecological Engineering</i> , <b>2011</b> , 37, 2071-2075	3.9	37
238	Technologies and perspectives for achieving carbon neutrality. <i>Innovation(China)</i> , <b>2021</b> , 2, 100180	17.8	37
237	Biogeochemical Fractions of Mercury in Soil Profiles of Two Different Floodplain Ecosystems in Germany. <i>Water, Air, and Soil Pollution</i> , <b>2013</b> , 224, 1	2.6	36
236	Mitigation of mercury accumulation in rice using rice hull-derived biochar as soil amendment: A field investigation. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 388, 121747	12.8	36
235	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> , <b>2021</b> , 755, 142582	10.2	36
234	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> , <b>2021</b> , 153, 106527	12.9	36
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232	Potential Emergence of Antiviral-Resistant Pandemic Viruses via Environmental Drug Exposure of Animal Reservoirs. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 8503-8505	10.3	35
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221	Ammonium nitrogen recovery from digestate by hydrothermal pretreatment followed by activated hydrochar sorption. <i>Chemical Engineering Journal</i> , <b>2020</b> , 379, 122254	14.7	33
220	Mitigation of indoor air pollution: A review of recent advances in adsorption materials and catalytic oxidation. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 405, 124138	12.8	33
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217	Supercritical carbon dioxide extraction of plant phytochemicals for biological and environmental applications - A review. <i>Chemosphere</i> , <b>2021</b> , 271, 129525	8.4	32
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111	Speciation and sorption of phosphorus in agricultural soil profiles of redoximorphic character. <i>Environmental Geochemistry and Health</i> , <b>2020</b> , 42, 3231-3246	4.7	10
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