Sabry M. Shaheen

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.

183
papers

8,135
citations

50
h-index
g-index

190
ext. papers

8.4
ext. citations

8.4
avg, IF
L-index

#	Paper	IF	Citations
183	Trace elements in the soil-plant interface: Phytoavailability, translocation, and phytoremediation Interface: Phytoavailability, translocation, and phytoavailability, translocation, and phytoavailability interface: Phytoavailability, translocation, and phytoavailability, and phyto	10.2	396
182	Biochar application to low fertility soils: A review of current status, and future prospects. <i>Geoderma</i> , 2019 , 337, 536-554	6.7	357
181	Soil amendments for immobilization of potentially toxic elements in contaminated soils: A critical review. <i>Environment International</i> , 2020 , 134, 105046	12.9	352
180	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	16.1	228
179	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	9.3	222
178	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, 319-3	32 ĝ .9	188
177	Health risk assessment of potentially toxic elements in soils along the Central Elbe River, Germany. <i>Environment International</i> , 2019 , 126, 76-88	12.9	184
176	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	14.3	173
175	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	11.1	171
174	Opportunities and challenges in the use of coal fly ash for soil improvementsa review. <i>Journal of Environmental Management</i> , 2014 , 145, 249-67	7.9	171
173	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	7.9	160
172	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	12.9	160
171	Amendment of biochar reduces the release of toxic elements under dynamic redox conditions in a contaminated floodplain soil. <i>Chemosphere</i> , 2016 , 142, 41-7	8.4	149
170	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	7.9	145
169	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	10.2	144
168	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	6.7	133
167	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	8.4	126

(2018-2018)

166	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	10.2	122
165	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	14.7	121
164	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	6.7	113
163	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	12.9	98
162	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	8.4	97
161	Sorption and lability of cadmium and lead in different soils from Egypt and Greece. <i>Geoderma</i> , 2009 , 153, 61-68	6.7	97
160	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	2.6	91
159	Exploring the arsenic removal potential of various biosorbents from water. <i>Environment International</i> , 2019 , 123, 567-579	12.9	89
158	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, 1065-107	8 ^{2.5}	88
157	Biochar-induced metal immobilization and soil biogeochemical process: An integrated mechanistic approach. <i>Science of the Total Environment</i> , 2020 , 698, 134112	10.2	87
156	Lysimeter trials to assess the impact of different flooddry-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	6.7	86
155	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, 223-31	9.3	82
154	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	8.4	78
153	Heavy metals removal from aqueous solutions and wastewaters by using various byproducts. Journal of Environmental Management, 2013 , 128, 514-21	7.9	75
152	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	8.4	73
151	Removal of Heavy Metals from Aqueous Solution by Zeolite in Competitive Sorption System. International Journal of Environmental Science and Development,362-367	0.4	73
150	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	7	71
149	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	10.2	71

148	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	12.8	66	
147	Phytoextraction of potentially toxic elements by Indian mustard, rapeseed, and sunflower from a contaminated riparian soil. <i>Environmental Geochemistry and Health</i> , 2015 , 37, 953-67	4.7	63	
146	Redox-induced mobilization of Ag, Sb, Sn, and Tl in the dissolved, colloidal and solid phase of a biochar-treated and un-treated mining soil. <i>Environment International</i> , 2020 , 140, 105754	12.9	60	
145	Conversion of biological solid waste to graphene-containing biochar for water remediation: A critical review. <i>Chemical Engineering Journal</i> , 2020 , 390, 124611	14.7	59	
144	Iron-modified biochar and water management regime-induced changes in plant growth, enzyme activities, and phytoavailability of arsenic, cadmium and lead in a paddy soil. <i>Journal of Hazardous Materials</i> , 2021 , 407, 124344	12.8	59	
143	Impact of various amendments on immobilization and phytoavailability of nickel and zinc in a contaminated floodplain soil. <i>International Journal of Environmental Science and Technology</i> , 2015 , 12, 2765-2776	3.3	58	
142	Multifunctional applications of biochar beyond carbon storage. <i>International Materials Reviews</i> , 2022 , 1-51	16.1	58	
141	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	14.3	58	
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	10.2	56	
139	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	4.7	55	
138	Redox chemistry of nickel in soils and sediments: A review. <i>Chemosphere</i> , 2017 , 179, 265-278	8.4	54	
137	Fe/Mn- and P-modified drinking water treatment residuals reduced Cu and Pb phytoavailability and uptake in a mining soil. <i>Journal of Hazardous Materials</i> , 2021 , 403, 123628	12.8	53	
136	Freundlich sorption parameters for cadmium, copper, nickel, lead, and zinc for different soils: Influence of kinetics. <i>Geoderma</i> , 2018 , 324, 80-88	6.7	52	
135	Sorption mechanisms of lead on silicon-rich biochar in aqueous solution: Spectroscopic investigation. <i>Science of the Total Environment</i> , 2019 , 672, 572-582	10.2	50	
134	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, 114	4 <i>777</i> 3	50	
133	Global soil pollution by toxic elements: Current status and future perspectives on the risk assessment and remediation strategies - A review. <i>Journal of Hazardous Materials</i> , 2021 , 417, 126039	12.8	50	
132	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-	7.9 140	49	
131	Effect of biochars on the bioavailability of cadmium and di-(2-ethylhexyl) phthalate to Brassica chinensis L. in contaminated soils. <i>Science of the Total Environment</i> , 2019 , 678, 43-52	10.2	47	

130	Arsenic speciation and biotransformation pathways in the aquatic ecosystem: The significance of algae. <i>Journal of Hazardous Materials</i> , 2021 , 403, 124027	12.8	46
129	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	9.3	44
128	Potentially toxic elements in solid waste streams: Fate and management approaches. <i>Environmental Pollution</i> , 2019 , 253, 680-707	9.3	44
127	Animal carcass- and wood-derived biochars improved nutrient bioavailability, enzyme activity, and plant growth in metal-phthalic acid ester co-contaminated soils: A trial for reclamation and improvement of degraded soils. <i>Journal of Environmental Management</i> , 2020 , 261, 110246	7.9	43
126	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	7	43
125	Phytoremediation potential of twelve wild plant species for toxic elements in a contaminated soil. <i>Environment International</i> , 2021 , 146, 106233	12.9	43
124	Geochemical distribution of Co, Cu, Ni, and Zn in soil profiles of Fluvisols, Luvisols, Gleysols, and Calcisols originating from Germany and Egypt. <i>Geoderma</i> , 2017 , 307, 122-138	6.7	41
123	Potentially toxic elements in saltmarsh sediments and common reed (Phragmites australis) of Burullus coastal lagoon at North Nile Delta, Egypt: A survey and risk assessment. <i>Science of the Total Environment</i> , 2019 , 649, 1237-1249	10.2	39
122	Soil contamination by potentially toxic elements and the associated human health risk in geo- and anthropogenic contaminated soils: A case study from the temperate region (Germany) and the arid region (Egypt). <i>Environmental Pollution</i> , 2020 , 262, 114312	9.3	38
121	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	12.8	38
120	Vanadium in thirteen different soil profiles originating from Germany and Egypt: Geochemical fractionation and potential mobilization. <i>Applied Geochemistry</i> , 2018 , 88, 288-301	3.5	38
119	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	12.8	36
118	Influence of biochar and soil properties on soil and plant tissue concentrations of Cd and Pb: A meta-analysis. <i>Science of the Total Environment</i> , 2021 , 755, 142582	10.2	36
117	Use of biochar to reduce mercury accumulation in Oryza sativa L: A trial for sustainable management of historically polluted farmlands. <i>Environment International</i> , 2021 , 153, 106527	12.9	36
116	Distribution Coefficient of Copper in Different Soils from Egypt and Greece. <i>Communications in Soil Science and Plant Analysis</i> , 2009 , 40, 214-226	1.5	35
115	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, 14421	8 ^{10.2}	35
114	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	12.9	33
113	Rice straw- and rapeseed residue-derived biochars affect the geochemical fractions and phytoavailability of Cu and Pb to maize in a contaminated soil under different moisture content. Journal of Environmental Management, 2019, 237, 5-14	7.9	33

112	Ammonium nitrogen recovery from digestate by hydrothermal pretreatment followed by activated hydrochar sorption. <i>Chemical Engineering Journal</i> , 2020 , 379, 122254	14.7	33
111	Modulation of hexavalent chromium toxicity on figanum vulgare in an acidic soil amended with peat, lime, and zeolite. <i>Chemosphere</i> , 2018 , 195, 291-300	8.4	32
110	Influence of Fly Ash and Sewage Sludge Application on Cadmium and Lead Sorption by an Acidic Alfisol. <i>Pedosphere</i> , 2010 , 20, 436-445	5	31
109	Inorganic phosphorus forms in some entisols and aridisols of Egypt. <i>Geoderma</i> , 2007 , 142, 217-225	6.7	29
108	Hydrogeochemical and health risk evaluation of arsenic in shallow and deep aquifers along the different floodplains of Punjab, Pakistan. <i>Journal of Hazardous Materials</i> , 2021 , 402, 124074	12.8	29
107	Insights into upstream processing of microalgae: A review. <i>Bioresource Technology</i> , 2021 , 329, 124870	11	28
106	Multi-metal resistance and plant growth promotion potential of a wastewater bacterium Pseudomonas aeruginosa and its synergistic benefits. <i>Environmental Geochemistry and Health</i> , 2017 , 39, 1583-1593	4.7	27
105	Influence of Fly Ash Application on Copper and Zinc Sorption by Acidic Soil amended with Sewage Sludge. <i>Communications in Soil Science and Plant Analysis</i> , 2009 , 40, 273-284	1.5	27
104	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	11.1	27
103	Immobilization of soil copper using organic and inorganic amendments. <i>Journal of Plant Nutrition and Soil Science</i> , 2015 , 178, 112-117	2.3	26
102	Effect Of Common Ions On Phosphorus Sorption And Lability In Greek Alfisols With Different pH. <i>Soil Science</i> , 2009 , 174, 21-26	0.9	26
101	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	4.7	25
100	Stabilization of Sewage Sludge by Using Various By-products: Effects on Soil Properties, Biomass Production, and Bioavailability of Copper and Zinc. <i>Water, Air, and Soil Pollution</i> , 2014 , 225, 1	2.6	24
99	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	7.9	24
98	Nanoactivated Carbon Reduces Mercury Mobility and Uptake by: Mechanistic Investigation Using Spectroscopic and Microscopic Techniques. <i>Environmental Science & Environmental </i>	0 ⁶ 0.3	23
97	Green remediation of toxic metals contaminated mining soil using bacterial consortium and Brassica juncea. <i>Environmental Pollution</i> , 2021 , 277, 116789	9.3	23
96	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	12.8	22
95	Thiosulphate-induced phytoextraction of mercury in Brassica juncea: Spectroscopic investigations to define a mechanism for Ha uptake. <i>Environmental Pollution</i> . 2018 . 242. 986-993	9.3	22

94	Sustainable applications of rice feedstock in agro-environmental and construction sectors: A global perspective. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 153, 111791	16.2	22
93	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	3.8	22
92	Assessing the potential ecological risk of Co, Cr, Cu, Fe and Zn in the sediments of Hooghly-Matla estuarine system, India. <i>Environmental Geochemistry and Health</i> , 2019 , 41, 53-70	4.7	21
91	Phosphorus Sorption and Availability to Canola Grown in an Alfisol Amended with Various Soil Amendments. <i>Communications in Soil Science and Plant Analysis</i> , 2013 , 44, 89-103	1.5	21
90	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	1.5	21
89	Influence of fly ash and sewage sludge application on wheat biomass production, nutrients availability, and soil properties. <i>International Journal of Coal Science and Technology</i> , 2014 , 1, 221-226	4.5	21
88	Bone-derived biochar improved soil quality and reduced Cd and Zn phytoavailability in a multi-metal contaminated mining soil. <i>Environmental Pollution</i> , 2021 , 277, 116800	9.3	21
87	Almond and walnut shell-derived biochars affect sorption-desorption, fractionation, and release of phosphorus in two different soils. <i>Chemosphere</i> , 2020 , 241, 124888	8.4	21
86	Speciation, transportation, and pathways of cadmium in soil-rice systems: A review on the environmental implications and remediation approaches for food safety. <i>Environment International</i> , 2021 , 156, 106749	12.9	21
85	Effects of microorganism-mediated inoculants on humification processes and phosphorus dynamics during the aerobic composting of swine manure. <i>Journal of Hazardous Materials</i> , 2021 , 416, 125738	12.8	20
84	Immobilization of cadmium and lead using phosphorus-rich animal-derived and iron-modified plant-derived biochars under dynamic redox conditions in a paddy soil. <i>Environment International</i> , 2021 , 156, 106628	12.9	20
83	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	8.4	19
82	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	4.7	18
81	Zinc sorption by different soils as affected by selective removal of carbonates and hydrous oxides. <i>Applied Geochemistry</i> , 2018 , 88, 49-58	3.5	18
80	Distribution coefficients of cadmium and zinc in different soils in mono-metal and competitive sorption systems. <i>Journal of Plant Nutrition and Soil Science</i> , 2015 , 178, 671-681	2.3	18
79	Monitoring of organophosphorus pesticides and remediation technologies of the frequently detected compound (chlorpyrifos) in drinking water. <i>Polish Journal of Chemical Technology</i> , 2013 , 15, 25-34	1	18
78	Exploring potential applications of a novel extracellular polymeric substance synthesizing bacterium (Bacillus licheniformis) isolated from gut contents of earthworm (Metaphire posthuma) in environmental remediation. <i>Biodegradation</i> , 2018 , 29, 323-337	4.1	18
77	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	12.8	17

76	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	12.8	17
75	Enhancing phytoextraction of potentially toxic elements in a polluted floodplain soil using sulfur-impregnated organoclay. <i>Environmental Pollution</i> , 2019 , 248, 1059-1066	9.3	17
74	Improving the humification and phosphorus flow during swine manure composting: A trial for enhancing the beneficial applications of hazardous biowastes. <i>Journal of Hazardous Materials</i> , 2021 , 425, 127906	12.8	17
73	Distribution of Total and Ammonium Bicarbonate-DTPA-Extractable Soil Vanadium From Greece and Egypt and Their Correlation To Soil Properties. <i>Soil Science</i> , 2010 , 175, 535-543	0.9	16
72	Antimony contamination and its risk management in complex environmental settings: A review. <i>Environment International</i> , 2021 , 158, 106908	12.9	16
71	Streptomyces pactum addition to contaminated mining soils improved soil quality and enhanced metals phytoextraction by wheat in a green remediation trial. <i>Chemosphere</i> , 2021 , 273, 129692	8.4	16
70	Effect of biochar aging and co-existence of diethyl phthalate on the mono-sorption of cadmium and zinc to biochar-treated soils. <i>Journal of Hazardous Materials</i> , 2021 , 408, 124850	12.8	16
69	Elucidating the redox-driven dynamic interactions between arsenic and iron-impregnated biochar in a paddy soil using geochemical and spectroscopic techniques. <i>Journal of Hazardous Materials</i> , 2022 , 422, 126808	12.8	16
68	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	1.9	14
67	Biochar Surface Functionality Plays a Vital Role in (Im)Mobilization and Phytoavailability of Soil Vanadium. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 6864-6874	8.3	14
66	Monitoring and remediation of organochlorine residues in water. <i>Water Environment Research</i> , 2014 , 86, 584-93	2.8	13
65	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	7.9	13
64	Utilization of Biosolids in Production of Bioenergy Crops I: Impact of Application Rate on Canola Biomass, Soil Properties, and Nutrient Availability. <i>Communications in Soil Science and Plant Analysis</i> , 2013 , 44, 243-258	1.5	12
63	How much nitrogen does Africa need to feed itself by 2050?. <i>Journal of Environmental Management</i> , 2020 , 268, 110488	7.9	11
62	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	5.5	11
61	Metal Ion Removal from Wastewaters by Sorption on Activated Carbon, Cement Kiln Dust, and Sawdust. <i>Water Environment Research</i> , 2015 , 87, 506-15	2.8	11
60	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, 14927	7 ¹ 0.2	11
59	Monitoring and remediation technologies of organochlorine pesticides in drainage water. <i>Polish Journal of Chemical Technology</i> , 2015 , 17, 115-122	1	10

58	Speciation and sorption of phosphorus in agricultural soil profiles of redoximorphic character. <i>Environmental Geochemistry and Health</i> , 2020 , 42, 3231-3246	4.7	10
57	Sorption of diethyl phthalate and cadmium by pig carcass and green waste-derived biochars under single and binary systems. <i>Environmental Research</i> , 2021 , 193, 110594	7.9	10
56	Wheat and maize-derived water-washed and unwashed biochar improved the nutrients phytoavailability and the grain and straw yield of rice and wheat: A field trial for sustainable management of paddy soils. <i>Journal of Environmental Management</i> , 2021 , 297, 113250	7.9	10
55	Advancements of nanotechnologies in crop promotion and soil fertility: Benefits, life cycle assessment, and legislation policies. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 152, 111686	16.2	10
54	Sediment quality, elemental bioaccumulation and antimicrobial properties of mangroves of Indian Sundarban. <i>Environmental Geochemistry and Health</i> , 2019 , 41, 275-296	4.7	9
53	Biochar as an (Im)mobilizing Agent for the Potentially Toxic Elements in Contaminated Soils 2019, 255-	274	9
52	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, 120	6647	9
51	Herbal plants- and rice straw-derived biochars reduced metal mobilization in fishpond sediments and improved their potential as fertilizers <i>Science of the Total Environment</i> , 2022 , 154043	10.2	9
50	Enhanced sorption of trivalent antimony by chitosan-loaded biochar in aqueous solutions: Characterization, performance and mechanisms. <i>Journal of Hazardous Materials</i> , 2021 , 425, 127971	12.8	8
49	ON THE PRESENCE OF ORGANOPHOSPHORUS PESTICIDES IN DRAINAGE WATER AND ITS REMEDIATION TECHNOLOGIES. <i>Environmental Engineering and Management Journal</i> , 2016 , 15, 1777-17	187 ⁶	8
48	Mobilization, Methylation, and Demethylation of Mercury in a Paddy Soil Under Systematic Redox Changes. <i>Environmental Science & Environmental Science</i>	10.3	8
47	Soil acidification enhances the mobilization of phosphorus under anoxic conditions in an agricultural soil: Investigating the potential for loss of phosphorus to water and the associated environmental risk. <i>Science of the Total Environment</i> , 2021 , 793, 148531	10.2	8
46	Effects of sheep bone biochar on soil quality, maize growth, and fractionation and phytoavailability of Cd and Zn in a mining-contaminated soil. <i>Chemosphere</i> , 2021 , 282, 131016	8.4	8
45	Review on the interactions of arsenic, iron (oxy)(hydr)oxides, and dissolved organic matter in soils, sediments, and groundwater in a ternary system. <i>Chemosphere</i> , 2022 , 286, 131790	8.4	8
44	Classification, Characterization, and Management of Some Agricultural Soils in the North of Egypt 2013 , 417-448		7
43	Removal of potentially toxic elements from contaminated soil and water using bone char compared to plant- and bone-derived biochars: A review <i>Journal of Hazardous Materials</i> , 2021 , 427, 128131	12.8	7
42	Evaluating vanadium bioavailability to cabbage in rural soils using geochemical and micro-spectroscopic techniques. <i>Environmental Pollution</i> , 2020 , 258, 113699	9.3	7
41	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	7.9	7

40	Redox-induced mobilization of phosphorus in groundwater affected arable soil profiles. <i>Chemosphere</i> , 2021 , 275, 129928	8.4	7
39	Fractionation of Cd, Cu, Ni, Pb, and Zn in floodplain soils from Egypt, Germany and Greece. <i>E3S Web of Conferences</i> , 2013 , 1, 33003	0.5	6
38	Influence of Stabilized Biosolids Application on Availability of Phosphorus, Copper, and Zinc. <i>Applied and Environmental Soil Science</i> , 2012 , 2012, 1-11	3.8	6
37	Concentration of Lead in Soils and Some Vegetable Plants in North Nile Delta as affected by Soil Type and Irrigation Water. <i>Communications in Soil Science and Plant Analysis</i> , 2009 , 40, 327-344	1.5	6
36	Manganese oxide-modified biochar: production, characterization and applications for the removal of pollutants from aqueous environments - a review <i>Bioresource Technology</i> , 2021 , 346, 126581	11	6
35	Utilization of Biosolids in Production of Bioenergy Crops II: Impact of Application Rate on Bioavailability and Uptake of Trace Elements by Canola. <i>Communications in Soil Science and Plant Analysis</i> , 2013 , 44, 259-274	1.5	5
34	Brevundimonas diminuta isolated from mines polluted soil immobilized cadmium (Cd) and zinc (Zn) through calcium carbonate precipitation: Microscopic and spectroscopic investigations <i>Science of the Total Environment</i> , 2021 , 813, 152668	10.2	5
33	Pedogeochemical distribution of gallium, indium and thallium, their potential availability and associated risk in highly-weathered soil profiles of Taiwan. <i>Environmental Research</i> , 2021 , 197, 110994	7.9	5
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30	Remediation of Cd and Cu contaminated water and soil using novel nanomaterials derived from sugar beet processing- and clay brick factory-solid wastes <i>Journal of Hazardous Materials</i> , 2022 , 428, 128205	12.8	4
29	Stepwise redox changes alter the speciation and mobilization of phosphorus in hydromorphic soils. <i>Chemosphere</i> , 2021 , 288, 132652	8.4	4
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27	Assessment of water contamination by potentially toxic elements in mangrove lagoons of the Red Sea, Saudi Arabia. <i>Environmental Geochemistry and Health</i> , 2021 , 43, 4819-4830	4.7	4
26	Pyrolysis of Aesculus chinensis Bunge Seed with FeO/NiO as nanocatalysts for the production of bio-oil material. <i>Journal of Hazardous Materials</i> , 2021 , 416, 126012	12.8	4
25	Preparation of ammonium-modified cassava waste-derived biochar and its evaluation for synergistic adsorption of ternary antibiotics from aqueous solution. <i>Journal of Environmental Management</i> , 2021 , 298, 113530	7.9	4
24	Microbial inoculants and struvite improved organic matter humification and stabilized phosphorus during swine manure composting: multivariate and multiscale investigations <i>Bioresource Technology</i> , 2022 , 126976	11	4
23	The significance of eighteen rice genotypes on arsenic accumulation, physiological response and potential health risk <i>Science of the Total Environment</i> , 2022 , 832, 155004	10.2	4

22	Nickel Mobilization/Immobilization and Phytoavailability in Soils as Affected by Organic and Inorganic Amendments 2018 , 265-292		3
21	Co-composted biochar derived from rice straw and sugarcane bagasse improved soil properties, carbon balance, and zucchini growth in a sandy soil: A trial for enhancing the health of low fertile arid soils <i>Chemosphere</i> , 2021 , 292, 133389	8.4	3
20	Earthworms as candidates for remediation of potentially toxic elements contaminated soils and mitigating the environmental and human health risks: A review. <i>Environment International</i> , 2021 , 158, 106924	12.9	3
19	The role of various ameliorants on geochemical arsenic distribution and CO-carbon efflux under paddy soil conditions <i>Environmental Geochemistry and Health</i> , 2022 , 1	4.7	2
18	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, 118	997₽	2
17	Impact of catalytic hydrothermal treatment and Ca/Al-modified hydrochar on lability, sorption, and speciation of phosphorus in swine manure: Microscopic and spectroscopic investigations <i>Environmental Pollution</i> , 2022 , 299, 118877	9.3	2
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15	Appraisal of water quality and ecological sensitivity with reference to riverfront development along the River Gomti, India. <i>Applied Water Science</i> , 2022 , 12, 1	5	2
14	Appraisal of COVID-19 lockdown and unlocking effects on the air quality of North India. <i>Environmental Research</i> , 2021 , 204, 112107	7.9	2
13	Ecotoxicological assessment of toxic elements contamination in mangrove ecosystem along the Red Sea coast, Egypt <i>Marine Pollution Bulletin</i> , 2022 , 176, 113446	6.7	2
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