

Deyi Hou

List of Publications by Citations

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170
papers

8,094
citations

53
h-index

84
g-index

181
ext. papers

11,451
ext. citations

10.4
avg, IF

7.11
L-index

#	Paper	IF	Citations
170	Soil amendments for immobilization of potentially toxic elements in contaminated soils: A critical review. <i>Environment International</i> , 2020 , 134, 105046	12.9	352
169	Effect of pyrolysis temperature, heating rate, and residence time on rapeseed stem derived biochar. <i>Journal of Cleaner Production</i> , 2018 , 174, 977-987	10.3	316
168	Biochar application for the remediation of heavy metal polluted land: A review of in situ field trials. <i>Science of the Total Environment</i> , 2018 , 619-620, 815-826	10.2	310
167	Integrated GIS and multivariate statistical analysis for regional scale assessment of heavy metal soil contamination: A critical review. <i>Environmental Pollution</i> , 2017 , 231, 1188-1200	9.3	234
166	Sustainability: A new imperative in contaminated land remediation. <i>Environmental Science and Policy</i> , 2014 , 39, 25-34	6.2	176
165	Green remediation of As and Pb contaminated soil using cement-free clay-based stabilization/solidification. <i>Environment International</i> , 2019 , 126, 336-345	12.9	175
164	Metal contamination and bioremediation of agricultural soils for food safety and sustainability. <i>Nature Reviews Earth & Environment</i> , 2020 , 1, 366-381	30.2	171
163	A green biochar/iron oxide composite for methylene blue removal. <i>Journal of Hazardous Materials</i> , 2020 , 384, 121286	12.8	165
162	Assessment of sources of heavy metals in soil and dust at children's playgrounds in Beijing using GIS and multivariate statistical analysis. <i>Environment International</i> , 2019 , 124, 320-328	12.9	157
161	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	12.9	149
160	Effect of production temperature on lead removal mechanisms by rice straw biochars. <i>Science of the Total Environment</i> , 2019 , 655, 751-758	10.2	148
159	Sulfur-modified rice husk biochar: A green method for the remediation of mercury contaminated soil. <i>Science of the Total Environment</i> , 2018 , 621, 819-826	10.2	145
158	Environmental fate, toxicity and risk management strategies of nanoplastics in the environment: Current status and future perspectives. <i>Journal of Hazardous Materials</i> , 2021 , 401, 123415	12.8	129
157	Low-carbon and low-alkalinity stabilization/solidification of high-Pb contaminated soil. <i>Chemical Engineering Journal</i> , 2018 , 351, 418-427	14.7	128
156	Microplastics undergo accelerated vertical migration in sand soil due to small size and wet-dry cycles. <i>Environmental Pollution</i> , 2019 , 249, 527-534	9.3	127
155	Remediation of mercury contaminated soil, water, and air: A review of emerging materials and innovative technologies. <i>Environment International</i> , 2020 , 134, 105281	12.9	123
154	Sustainable in situ remediation of recalcitrant organic pollutants in groundwater with controlled release materials: A review. <i>Journal of Controlled Release</i> , 2018 , 283, 200-213	11.7	115

153	Fabrication and environmental applications of multifunctional mixed metal-biochar composites (MMBC) from red mud and lignin wastes. <i>Journal of Hazardous Materials</i> , 2019 , 374, 412-419	12.8	114
152	Nature based solutions for contaminated land remediation and brownfield redevelopment in cities: A review. <i>Science of the Total Environment</i> , 2019 , 663, 568-579	10.2	113
151	Synthesis of MgO-coated corncob biochar and its application in lead stabilization in a soil washing residue. <i>Environment International</i> , 2019 , 122, 357-362	12.9	111
150	Novel synergy of Si-rich minerals and reactive MgO for stabilisation/solidification of contaminated sediment. <i>Journal of Hazardous Materials</i> , 2019 , 365, 695-706	12.8	110
149	Complexities Surrounding China's Soil Action Plan. <i>Land Degradation and Development</i> , 2017 , 28, 2315-2320	11.0	102
148	The roles of biochar as green admixture for sediment-based construction products. <i>Cement and Concrete Composites</i> , 2019 , 104, 103348	8.6	101
147	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	3.1	100
146	Biochar as green additives in cement-based composites with carbon dioxide curing. <i>Journal of Cleaner Production</i> , 2020 , 258, 120678	10.3	93
145	Biochar Aging: Mechanisms, Physicochemical Changes, Assessment, And Implications for Field Applications. <i>Environmental Science & Technology</i> , 2020 , 54, 14797-14814	10.3	92
144	Lead-based paint remains a major public health concern: A critical review of global production, trade, use, exposure, health risk, and implications. <i>Environment International</i> , 2018 , 121, 85-101	12.9	92
143	Green synthesis of nanoparticles for the remediation of contaminated waters and soils: Constituents, synthesizing methods, and influencing factors. <i>Journal of Cleaner Production</i> , 2019 , 226, 540-549	10.3	86
142	Environmental and socio-economic sustainability appraisal of contaminated land remediation strategies: A case study at a mega-site in China. <i>Science of the Total Environment</i> , 2018 , 610-611, 391-401	10.2	83
141	High efficiency removal of methylene blue using SDS surface-modified ZnFeO nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2017 , 508, 39-48	9.3	80
140	Groundwater depletion and contamination: Spatial distribution of groundwater resources sustainability in China. <i>Science of the Total Environment</i> , 2019 , 672, 551-562	10.2	77
139	Clay-polymer nanocomposites: Progress and challenges for use in sustainable water treatment. <i>Journal of Hazardous Materials</i> , 2020 , 383, 121125	12.8	77
138	Degradation of antibiotics by modified vacuum-UV based processes: Mechanistic consequences of HO and KSO in the presence of halide ions. <i>Science of the Total Environment</i> , 2019 , 664, 312-321	10.2	75
137	Stability of heavy metals in soil washing residue with and without biochar addition under accelerated ageing. <i>Science of the Total Environment</i> , 2018 , 619-620, 185-193	10.2	75
136	Factor analysis and structural equation modelling of sustainable behaviour in contaminated land remediation. <i>Journal of Cleaner Production</i> , 2014 , 84, 439-449	10.3	73

- 135 Solidification/Stabilization for Soil Remediation: An Old Technology with New Vitality. *Environmental Science & Technology*, **2019**, 53, 11615-11617 10.3 72
- 134 A Sustainability Assessment Framework for Agricultural Land Remediation in China. *Land Degradation and Development*, **2018**, 29, 1005-1018 4.4 69
- 133 Recycling dredged sediment into fill materials, partition blocks, and paving blocks: Technical and economic assessment. *Journal of Cleaner Production*, **2018**, 199, 69-76 10.3 67
- 132 Occurrence of contaminants in drinking water sources and the potential of biochar for water quality improvement: A review. *Critical Reviews in Environmental Science and Technology*, **2020**, 50, 549-611^{1,1} 67
- 131 One-pot green synthesis of bimetallic hollow palladium-platinum nanotubes for enhanced catalytic reduction of p-nitrophenol. *Journal of Colloid and Interface Science*, **2019**, 539, 161-167 9.3 66
- 130 Roles of biochar-derived dissolved organic matter in soil amendment and environmental remediation: A critical review. *Chemical Engineering Journal*, **2021**, 424, 130387 14.7 65
- 129 Sustainable soil use and management: An interdisciplinary and systematic approach. *Science of the Total Environment*, **2020**, 729, 138961 10.2 64
- 128 Sustainable remediation with an electroactive biochar system: mechanisms and perspectives. *Green Chemistry*, **2020**, 22, 2688-2711 10 64
- 127 Using a hybrid LCA method to evaluate the sustainability of sediment remediation at the London Olympic Park. *Journal of Cleaner Production*, **2014**, 83, 87-95 10.3 64
- 126 Greener and size-specific synthesis of stable Fe-Cu oxides as earth-abundant adsorbents for malachite green. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 9229-9236 8.3 63
- 125 Incorporating life cycle assessment with health risk assessment to select the greenest cleanup level for Pb contaminated soil. *Journal of Cleaner Production*, **2017**, 162, 1157-1168 10.3 62
- 124 Lead contamination in Chinese surface soils: Source identification, spatial-temporal distribution and associated health risks. *Critical Reviews in Environmental Science and Technology*, **2019**, 49, 1386-1423 11.1 61
- 123 Iron-modified biochar and water management regime-induced changes in plant growth, enzyme activities, and phytoavailability of arsenic, cadmium and lead in a paddy soil. *Journal of Hazardous Materials*, **2021**, 407, 124344 12.8 59
- 122 Multifunctional applications of biochar beyond carbon storage. *International Materials Reviews*, **2022**, 1-51 16.1 58
- 121 A critical review on performance indicators for evaluating soil biota and soil health of biochar-amended soils. *Journal of Hazardous Materials*, **2021**, 414, 125378 12.8 55
- 120 Green immobilization of toxic metals using alkaline enhanced rice husk biochar: Effects of pyrolysis temperature and KOH concentration. *Science of the Total Environment*, **2020**, 720, 137584 10.2 54
- 119 Removal of lead by rice husk biochars produced at different temperatures and implications for their environmental utilizations. *Chemosphere*, **2019**, 235, 825-831 8.4 54
- 118 Life cycle assessment comparison of thermal desorption and stabilization/solidification of mercury contaminated soil on agricultural land. *Journal of Cleaner Production*, **2016**, 139, 949-956 10.3 53

117	Spatial distribution of lead contamination in soil and equipment dust at children's playgrounds in Beijing, China. <i>Environmental Pollution</i> , 2019 , 245, 363-370	9.3	50
116	The potential value of biochar in the mitigation of gaseous emission of nitrogen. <i>Science of the Total Environment</i> , 2018 , 612, 257-268	10.2	49
115	Green remediation of Cd and Hg contaminated soil using humic acid modified montmorillonite: Immobilization performance under accelerated ageing conditions. <i>Journal of Hazardous Materials</i> , 2020 , 387, 122005	12.8	49
114	Enterococci predictions from partial least squares regression models in conjunction with a single-sample standard improve the efficacy of beach management advisories. <i>Environmental Science & Technology</i> , 2006 , 40, 1737-43	10.3	48
113	Citric acid facilitated thermal treatment: An innovative method for the remediation of mercury contaminated soil. <i>Journal of Hazardous Materials</i> , 2015 , 300, 546-552	12.8	47
112	Mechanisms of biochar assisted immobilization of Pb by bioapatite in aqueous solution. <i>Chemosphere</i> , 2018 , 190, 260-266	8.4	46
111	Examining the impacts of urban form on air pollutant emissions: Evidence from China. <i>Journal of Environmental Management</i> , 2018 , 212, 405-414	7.9	45
110	Critical Review on Biochar-Supported Catalysts for Pollutant Degradation and Sustainable Biorefinery. <i>Advanced Sustainable Systems</i> , 2020 , 4, 1900149	5.9	44
109	Machine learning for the selection of carbon-based materials for tetracycline and sulfamethoxazole adsorption. <i>Chemical Engineering Journal</i> , 2021 , 406, 126782	14.7	44
108	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	11.1	42
107	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	9.3	41
106	Progress and future prospects in biochar composites: Application and reflection in the soil environment. <i>Critical Reviews in Environmental Science and Technology</i> , 2021 , 51, 219-271	11.1	41
105	Assessing long-term stability of cadmium and lead in a soil washing residue amended with MgO-based binders using quantitative accelerated ageing. <i>Science of the Total Environment</i> , 2018 , 643, 1571-1578	10.2	39
104	Exogenous phosphorus treatment facilitates chelation-mediated cadmium detoxification in perennial ryegrass (<i>Lolium perenne</i> L.). <i>Journal of Hazardous Materials</i> , 2020 , 389, 121849	12.8	39
103	Climate change mitigation potential of contaminated land redevelopment: A city-level assessment method. <i>Journal of Cleaner Production</i> , 2018 , 171, 1396-1406	10.3	37
102	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
101	Quantitative source tracking of heavy metals contained in urban road deposited sediments. <i>Journal of Hazardous Materials</i> , 2020 , 393, 122362	12.8	35
100	Mercury removal from contaminated soil by thermal treatment with FeCl ₃ at reduced temperature. <i>Chemosphere</i> , 2014 , 117, 388-93	8.4	35

99	Synergistic construction of green tea biochar supported nZVI for immobilization of lead in soil: A mechanistic investigation. <i>Environment International</i> , 2020 , 135, 105374	12.9	35
98	Risk evaluation of biochars produced from Cd-contaminated rice straw and optimization of its production for Cd removal. <i>Chemosphere</i> , 2019 , 233, 149-156	8.4	34
97	The adoption of sustainable remediation behaviour in the US and UK: a cross country comparison and determinant analysis. <i>Science of the Total Environment</i> , 2014 , 490, 905-13	10.2	34
96	Critical Impact of Nitrogen Vacancies in Nonradical Carbocatalysis on Nitrogen-Doped Graphitic Biochar. <i>Environmental Science & Technology</i> , 2021 , 55, 7004-7014	10.3	34
95	An emerging market for groundwater remediation in China: Policies, statistics, and future outlook. <i>Frontiers of Environmental Science and Engineering</i> , 2018 , 12, 1	5.8	33
94	Green synthesis of graphitic nanobiochar for the removal of emerging contaminants in aqueous media. <i>Science of the Total Environment</i> , 2020 , 706, 135725	10.2	33
93	Machine learning exploration of the critical factors for CO ₂ adsorption capacity on porous carbon materials at different pressures. <i>Journal of Cleaner Production</i> , 2020 , 273, 122915	10.3	32
92	Effective Dispersion of MgO Nanostructure on Biochar Support as a Basic Catalyst for Glucose Isomerization. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 6990-7001	8.3	31
91	Effects of excessive impregnation, magnesium content, and pyrolysis temperature on MgO-coated watermelon rind biochar and its lead removal capacity. <i>Environmental Research</i> , 2020 , 183, 109152	7.9	31
90	Temporal effect of MgO reactivity on the stabilization of lead contaminated soil. <i>Environment International</i> , 2019 , 131, 104990	12.9	31
89	Biochar induced modification of graphene oxide & nZVI and its impact on immobilization of toxic copper in soil. <i>Environmental Pollution</i> , 2020 , 259, 113851	9.3	31
88	Sustainable waste and materials management: national policy and global perspective. <i>Environmental Science & Technology</i> , 2012 , 46, 2494-5	10.3	30
87	Lead-based paint in children's toys sold on China's major online shopping platforms. <i>Environmental Pollution</i> , 2018 , 241, 311-318	9.3	30
86	Phytoremediation: Climate change resilience and sustainability assessment at a coastal brownfield redevelopment. <i>Environment International</i> , 2019 , 130, 104945	12.9	29
85	A review of green remediation strategies for heavy metal contaminated soil. <i>Soil Use and Management</i> , 2021 , 37, 936	3.1	29
84	Divergence in stakeholder perception of sustainable remediation. <i>Sustainability Science</i> , 2016 , 11, 215-230	3.1	26
83	Assessing effects of site characteristics on remediation secondary life cycle impact with a generalised framework. <i>Journal of Environmental Planning and Management</i> , 2014 , 57, 1083-1100	2.8	26
82	Blood lead levels among Chinese children: The shifting influence of industry, traffic, and e-waste over three decades. <i>Environment International</i> , 2020 , 135, 105379	12.9	26

81	Assessing the trend in sustainable remediation: A questionnaire survey of remediation professionals in various countries. <i>Journal of Environmental Management</i> , 2016 , 184, 18-26	7.9	25
80	Design and fabrication of exfoliated Mg/Al layered double hydroxides on biochar support. <i>Journal of Cleaner Production</i> , 2021 , 289, 125142	10.3	25
79	Possible application of stable isotope compositions for the identification of metal sources in soil. <i>Journal of Hazardous Materials</i> , 2021 , 407, 124812	12.8	24
78	Application of surface complexation modeling to trace metals uptake by biochar-amended agricultural soils. <i>Applied Geochemistry</i> , 2018 , 88, 103-112	3.5	24
77	Influence of groundwater table fluctuation on the non-equilibrium transport of volatile organic contaminants in the vadose zone. <i>Journal of Hydrology</i> , 2020 , 580, 124353	6	23
76	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	12.9	22
75	Mapping soil pollution by using drone image recognition and machine learning at an arsenic-contaminated agricultural field. <i>Environmental Pollution</i> , 2021 , 270, 116281	9.3	22
74	Modeling aerobic biodegradation in the capillary fringe. <i>Environmental Science & Technology</i> , 2015 , 49, 1501-10	10.3	21
73	Soil pollution - speed up global mapping. <i>Nature</i> , 2019 , 566, 455	50.4	20
72	Organo-layered double hydroxides for the removal of polycyclic aromatic hydrocarbons from soil washing effluents containing high concentrations of surfactants. <i>Journal of Hazardous Materials</i> , 2019 , 373, 678-686	12.8	18
71	Structural equation modeling of PAHs in ambient air, dust fall, soil, and cabbage in vegetable bases of Northern China. <i>Environmental Pollution</i> , 2018 , 239, 13-20	9.3	18
70	Targeting cleanups towards a more sustainable future. <i>Environmental Sciences: Processes and Impacts</i> , 2018 , 20, 266-269	4.3	18
69	Performance indicators for a holistic evaluation of catalyst-based degradation-A case study of selected pharmaceuticals and personal care products (PPCPs). <i>Journal of Hazardous Materials</i> , 2021 , 402, 123460	12.8	17
68	The roles of suspended solids in persulfate/Fe ²⁺ treatment of hydraulic fracturing wastewater: Synergistic interplay of inherent wastewater components. <i>Chemical Engineering Journal</i> , 2020 , 388, 124243	14.7	16
67	The development of groundwater research in the past 40 years: A burgeoning trend in groundwater depletion and sustainable management. <i>Journal of Hydrology</i> , 2020 , 587, 125006	6	16
66	Comparison of the Hydraulic Fracturing Water Cycle in China and North America: A Critical Review. <i>Environmental Science & Technology</i> , 2021 , 55, 7167-7185	10.3	16
65	Efficacy and limitations of low-cost adsorbents for in-situ stabilisation of contaminated marine sediment. <i>Journal of Cleaner Production</i> , 2019 , 212, 420-427	10.3	16
64	Resilient remediation: Addressing extreme weather and climate change, creating community value		16

63	Farmers' perceptions and adaptation behaviours concerning land degradation: A theoretical framework and a case-study in the Qinghai-Tibetan Plateau of China. <i>Land Degradation and Development</i> , 2018 , 29, 2460-2471	4.4	16
62	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
61	Supplying social infrastructure land for satisfying public needs or leasing residential land? A study of local government choices in China. <i>Land Use Policy</i> , 2019 , 87, 104088	5.6	15
60	Optimization of groundwater sampling approach under various hydrogeological conditions using a numerical simulation model. <i>Journal of Hydrology</i> , 2017 , 552, 505-515	6	14
59	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	4.3	14
58	Modeling the Conditional Fragmentation-Induced Microplastic Distribution. <i>Environmental Science & Technology</i> , 2021 , 55, 6012-6021	10.3	14
57	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
56	Biochar composites: Emerging trends, field successes and sustainability implications. <i>Soil Use and Management</i> , 2022 ,	3.1	14
55	Unraveling iron speciation on Fe-biochar with distinct arsenic removal mechanisms and depth distributions of As and Fe. <i>Chemical Engineering Journal</i> , 2021 , 425, 131489	14.7	14
54	Resilience: A New Consideration for Environmental Remediation in an Era of Climate Change 2015 , 26, 57-67		13
53	Insights into the adsorption of pharmaceuticals and personal care products (PPCPs) on biochar and activated carbon with the aid of machine learning. <i>Journal of Hazardous Materials</i> , 2022 , 423, 127060	12.8	13
52	Integrated Life Cycle Assessment for Sustainable Remediation of Contaminated Agricultural Soil in China. <i>Environmental Science & Technology</i> , 2021 , 55, 12032-12042	10.3	12
51	Simultaneous reduction and immobilization of Cr(VI) in seasonally frozen areas: Remediation mechanisms and the role of ageing. <i>Journal of Hazardous Materials</i> , 2021 , 415, 125650	12.8	12
50	(Im)mobilization of arsenic, chromium, and nickel in soils via biochar: A meta-analysis. <i>Environmental Pollution</i> , 2021 , 286, 117199	9.3	12
49	Effects of Rate-Limited Mass Transfer on Modeling Vapor Intrusion with Aerobic Biodegradation. <i>Environmental Science & Technology</i> , 2016 , 50, 9400-6	10.3	11
48	Vertical migration of microplastics in porous media: Multiple controlling factors under wet-dry cycling. <i>Journal of Hazardous Materials</i> , 2021 , 419, 126413	12.8	11
47	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	12.8	11
46	Vision 2020: more needed in materials reuse and recycling to avoid land contamination. <i>Environmental Science & Technology</i> , 2011 , 45, 6227-8	10.3	10

45	VIRS based detection in combination with machine learning for mapping soil pollution. <i>Environmental Pollution</i> , 2021 , 268, 115845	9.3	10
44	Nowcasting Recreational Water Quality 179-210		10
43	Measurement of size-fractionated particulate-bound mercury in Beijing and implications on sources and dry deposition of mercury. <i>Science of the Total Environment</i> , 2019 , 675, 176-183	10.2	9
42	Strengthening social-environmental management at contaminated sites to bolster Green and Sustainable Remediation via a survey. <i>Chemosphere</i> , 2019 , 225, 295-303	8.4	9
41	Comparing the Adoption of Contaminated Land Remediation Technologies in the United States, United Kingdom, and China 2014 , 25, 33-51		9
40	Optimizing the Remedial Process at a Petroleum Hydrocarbon Contaminated Site Using a Three-Tier Approach. <i>Journal of Environmental Engineering, ASCE</i> , 2009 , 135, 1171-1180	2	9
39	Engineering practice of mechanical soil aeration for the remediation of volatile organic compound-contaminated sites in China: Advantages and challenges. <i>Frontiers of Environmental Science and Engineering</i> , 2016 , 10, 1	5.8	9
38	On the long-term migration of uranyl in bentonite barrier for high-level radioactive waste repositories: The effect of different host rocks. <i>Chemical Geology</i> , 2019 , 525, 46-57	4.2	8
37	Sustainable site clean-up from megaprojects: lessons from London 2012. <i>Proceedings of the Institution of Civil Engineers: Engineering Sustainability</i> , 2015 , 168, 61-70	0.9	8
36	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
35	Heavy metal dissolution mechanisms from electrical industrial sludge. <i>Science of the Total Environment</i> , 2019 , 696, 133922	10.2	7
34	A numerical model to optimize LNAPL remediation by multi-phase extraction. <i>Science of the Total Environment</i> , 2020 , 718, 137309	10.2	7
33	More haste, less speed in replenishing China's groundwater. <i>Nature</i> , 2019 , 569, 487	50.4	7
32	Engineered/designer hierarchical porous carbon materials for organic pollutant removal from water and wastewater: A critical review. <i>Critical Reviews in Environmental Science and Technology</i> , 2021 , 51, 2295-2328	11.1	6
31	Green remediation of benzene contaminated groundwater using persulfate activated by biochar composite loaded with iron sulfide minerals. <i>Chemical Engineering Journal</i> , 2022 , 429, 132292	14.7	6
30	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	3.4	5
29	Modeling the Diffusion of Contaminated Site Remediation Technologies. <i>Water, Air, and Soil Pollution</i> , 2014 , 225, 1	2.6	5
28	Biochar alters chemical and microbial properties of microplastic-contaminated soil. <i>Environmental Research</i> , 2022 , 112807	7.9	5

27	Modeling the risk of U(VI) migration through an engineered barrier system at a proposed Chinese high-level radioactive waste repository. <i>Science of the Total Environment</i> , 2020 , 707, 135472	10.2	5
26	High stress low-flow (HSLF) sampling: A newly proposed groundwater purge and sampling approach. <i>Science of the Total Environment</i> , 2019 , 664, 127-132	10.2	5
25	Proof-of-Concept Modeling of a New Groundwater Sampling Approach. <i>Water Resources Research</i> , 2019 , 55, 5135	5.4	4
24	Trade war threatens sustainability. <i>Science</i> , 2019 , 364, 1242-1243	33.3	4
23	Nanobiochar-rhizosphere interactions: Implications for the remediation of heavy-metal contaminated soils.. <i>Environmental Pollution</i> , 2022 , 299, 118810	9.3	4
22	Nature-Inspired and Sustainable Synthesis of Sulfur-Bearing Fe-Rich Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 15791-15808	8.3	4
21	Green and sustainable remediation: concepts, principles, and pertaining research 2020 , 1-17		3
20	Sustainable Remediation in China: Elimination, Immobilization, or Dilution. <i>Environmental Science & Technology</i> , 2021 , 55, 15572-15574	10.3	3
19	Aging features of metal(loid)s in biochar-amended soil: Effects of biochar type and aging method.. <i>Science of the Total Environment</i> , 2022 , 152922	10.2	3
18	The use of biochar for sustainable treatment of contaminated soils 2020 , 119-167		3
17	Green and sustainable remediation: past, present, and future developments 2020 , 19-42		2
16	Sustainability assessment for remediation decision-making 2020 , 43-73		2
15	Stoichiometric carbocatalysis via epoxide-like C-S-O configuration on sulfur-doped biochar for environmental remediation.. <i>Journal of Hazardous Materials</i> , 2022 , 428, 128223	12.8	2
14	Expediting climate-smart soils management. <i>Soil Use and Management</i> ,	3.1	2
13	Manage the environmental risks of perovskites. <i>One Earth</i> , 2021 , 4, 1534-1537	8.1	2
12	Green and Sustainable Remediation Movement in the New Millennium and Its Relevance to China 2018 , 39-53		1
11	Treatability of volatile chlorinated hydrocarbon-contaminated soils of different textures along a vertical profile by mechanical soil aeration: A laboratory test. <i>Journal of Environmental Sciences</i> , 2017 , 54, 328-335	6.4	1
10	Evaluation of Apparent Permeability and Field Assessment of Aged Asphalt Capping Systems. <i>Journal of Environmental Engineering, ASCE</i> , 2013 , 139, 167-175	2	1

9	Sustainability assessment and carbon budget of chemical stabilization based multi-objective remediation of Cd contaminated paddy field. <i>Science of the Total Environment</i> , 2021 , 819, 152022	10.2	1
8	Impact of Atmospheric Pressure Fluctuations on Nonequilibrium Transport of Volatile Organic Contaminants in the Vadose Zone: Experimental and Numerical Modeling. <i>Water Resources Research</i> , 2021 , 57, e2020WR029344	5.4	1
7	Bioremediation of hexavalent-chromium contaminated groundwater: Microcosm, column, and microbial diversity studies.. <i>Chemosphere</i> , 2022 , 295, 133877	8.4	0
6	Long-term immobilization of soil metalloids under simulated aging: Experimental and modeling approach. <i>Science of the Total Environment</i> , 2022 , 806, 150501	10.2	0
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