

Xinde Cao

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Version: 2024-04-26

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152
papers

13,808
citations

57
h-index

116
g-index

158
ext. papers

16,655
ext. citations

9.9
avg, IF

7.03
L-index

#	Paper	IF	Citations
152	Accumulation of Pb, Cu, and Zn in native plants growing on a contaminated Florida site. <i>Science of the Total Environment</i> , 2006 , 368, 456-64	10.2	1045
151	Dairy-manure derived biochar effectively sorbs lead and atrazine. <i>Environmental Science & Technology</i> , 2009 , 43, 3285-91	10.3	888
150	Properties of dairy-manure-derived biochar pertinent to its potential use in remediation. <i>Bioresource Technology</i> , 2010 , 101, 5222-8	11	780
149	A review of biochar as a low-cost adsorbent for aqueous heavy metal removal. <i>Critical Reviews in Environmental Science and Technology</i> , 2016 , 46, 406-433	11.1	703
148	Removal of heavy metals from aqueous solution by biochars derived from anaerobically digested biomass. <i>Bioresource Technology</i> , 2012 , 110, 50-6	11	519
147	Simultaneous immobilization of lead and atrazine in contaminated soils using dairy-manure biochar. <i>Environmental Science & Technology</i> , 2011 , 45, 4884-9	10.3	429
146	Biochar derived from anaerobically digested sugar beet tailings: characterization and phosphate removal potential. <i>Bioresource Technology</i> , 2011 , 102, 6273-8	11	424
145	Removal of phosphate from aqueous solution by biochar derived from anaerobically digested sugar beet tailings. <i>Journal of Hazardous Materials</i> , 2011 , 190, 501-7	12.8	395
144	Removal of Cu, Zn, and Cd from aqueous solutions by the dairy manure-derived biochar. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 358-68	5.1	388
143	Comparison of rice husk- and dairy manure-derived biochars for simultaneously removing heavy metals from aqueous solutions: role of mineral components in biochars. <i>Chemosphere</i> , 2013 , 92, 955-61	8.4	313
142	Multifunctional iron-biochar composites for the removal of potentially toxic elements, inherent cations, and hetero-chloride from hydraulic fracturing wastewater. <i>Environment International</i> , 2019 , 124, 521-532	12.9	287
141	Mechanisms of lead, copper, and zinc retention by phosphate rock. <i>Environmental Pollution</i> , 2004 , 131, 435-44	9.3	283
140	Biochar-supported zerovalent iron for removal of various contaminants from aqueous solutions. <i>Bioresource Technology</i> , 2014 , 152, 538-42	11	275
139	Immobilization of Zn, Cu, and Pb in contaminated soils using phosphate rock and phosphoric acid. <i>Journal of Hazardous Materials</i> , 2009 , 164, 555-64	12.8	275
138	Sorption of heavy metals on chitosan-modified biochars and its biological effects. <i>Chemical Engineering Journal</i> , 2013 , 231, 512-518	14.7	241
137	Impacts of phosphate amendments on lead biogeochemistry at a contaminated site. <i>Environmental Science & Technology</i> , 2002 , 36, 5296-304	10.3	220
136	Heterogeneity of biochar properties as a function of feedstock sources and production temperatures. <i>Journal of Hazardous Materials</i> , 2013 , 256-257, 1-9	12.8	206

135	Adsorption of sulfamethoxazole on biochar and its impact on reclaimed water irrigation. <i>Journal of Hazardous Materials</i> , 2012 , 209-210, 408-13	12.8	198
134	The Interfacial Behavior between Biochar and Soil Minerals and Its Effect on Biochar Stability. <i>Environmental Science & Technology</i> , 2016 , 50, 2264-71	10.3	192
133	Effects of mineral additives on biochar formation: carbon retention, stability, and properties. <i>Environmental Science & Technology</i> , 2014 , 48, 11211-7	10.3	180
132	Enhanced Lead Sorption by Biochar Derived from Anaerobically Digested Sugarcane Bagasse. <i>Separation Science and Technology</i> , 2011 , 46, 1950-1956	2.5	179
131	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
130	Indispensable role of biochar-inherent mineral constituents in its environmental applications: A review. <i>Bioresource Technology</i> , 2017 , 241, 887-899	11	170
129	Field assessment of lead immobilization in a contaminated soil after phosphate application. <i>Science of the Total Environment</i> , 2003 , 305, 117-27	10.2	154
128	Biochar as both electron donor and electron shuttle for the reduction transformation of Cr(VI) during its sorption. <i>Environmental Pollution</i> , 2019 , 244, 423-430	9.3	146
127	Effects of compost and phosphate on plant arsenic accumulation from soils near pressure-treated wood. <i>Environmental Pollution</i> , 2004 , 132, 435-42	9.3	138
126	A sustainable biochar catalyst synergized with copper heteroatoms and CO ₂ for singlet oxygenation and electron transfer routes. <i>Green Chemistry</i> , 2019 , 21, 4800-4814	10	133
125	Copyrolysis of Biomass with Phosphate Fertilizers To Improve Biochar Carbon Retention, Slow Nutrient Release, and Stabilize Heavy Metals in Soil. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 1630-1636	8.3	129
124	Ball milling as a mechanochemical technology for fabrication of novel biochar nanomaterials. <i>Bioresource Technology</i> , 2020 , 312, 123613	11	124
123	Phosphate-induced lead immobilization from different lead minerals in soils under varying pH conditions. <i>Environmental Pollution</i> , 2008 , 152, 184-92	9.3	124
122	Magnetic Nanoscale Zerovalent Iron Assisted Biochar: Interfacial Chemical Behaviors and Heavy Metals Remediation Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 9673-9682	8.3	121
121	Carbonate and magnesium interactive effect on calcium phosphate precipitation. <i>Environmental Science & Technology</i> , 2008 , 42, 436-42	10.3	120
120	Lead transformation and distribution in the soils of shooting ranges in Florida, USA. <i>Science of the Total Environment</i> , 2003 , 307, 179-89	10.2	115
119	Comparison of the characteristics and mechanisms of Hg(II) sorption by biochars and activated carbon. <i>Journal of Colloid and Interface Science</i> , 2016 , 463, 55-60	9.3	107
118	Sorption and cosorption of lead and sulfapyridine on carbon nanotube-modified biochars. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 1868-76	5.1	106

117	N-doped biochar synthesized by a facile ball-milling method for enhanced sorption of CO ₂ and reactive red. <i>Chemical Engineering Journal</i> , 2019 , 368, 564-572	14.7	96
116	Transport and retention of biochar nanoparticles in a paddy soil under environmentally-relevant solution chemistry conditions. <i>Environmental Pollution</i> , 2017 , 230, 540-549	9.3	90
115	Comparison of sewage sludge- and pig manure-derived biochars for hydrogen sulfide removal. <i>Chemosphere</i> , 2014 , 111, 296-303	8.4	89
114	Highly Efficient Utilization of Nano-Fe(0) Embedded in Mesoporous Carbon for Activation of Peroxydisulfate. <i>Environmental Science & Technology</i> , 2019 , 53, 9081-9090	10.3	83
113	Chemical transformation of CO ₂ during its capture by waste biomass derived biochars. <i>Environmental Pollution</i> , 2016 , 213, 533-540	9.3	83
112	Interaction of organic and inorganic fractions of biochar with Pb(II) ion: further elucidation of mechanisms for Pb(II) removal by biochar. <i>RSC Advances</i> , 2014 , 4, 44930-44937	3.7	79
111	Contrasting impacts of pre- and post-application aging of biochar on the immobilization of Cd in contaminated soils. <i>Environmental Pollution</i> , 2018 , 242, 1362-1370	9.3	78
110	Phosphorus release from dairy manure, the manure-derived biochar, and their amended soil: effects of phosphorus nature and soil property. <i>Journal of Environmental Quality</i> , 2014 , 43, 1504-9	3.4	78
109	Biochar- and phosphate-induced immobilization of heavy metals in contaminated soil and water: implication on simultaneous remediation of contaminated soil and groundwater. <i>Environmental Science and Pollution Research</i> , 2014 , 21, 4665-74	5.1	75
108	Mineral constituents profile of biochar derived from diversified waste biomasses: implications for agricultural applications. <i>Journal of Environmental Quality</i> , 2013 , 42, 545-52	3.4	74
107	Colloid Deposition and Release in Soils and Their Association With Heavy Metals. <i>Critical Reviews in Environmental Science and Technology</i> , 2011 , 41, 336-372	11.1	74
106	Characterization and quantification of electron donating capacity and its structure dependence in biochar derived from three waste biomasses. <i>Chemosphere</i> , 2018 , 211, 1073-1081	8.4	73
105	Immobilization of lead in shooting range soils by means of cement, quicklime, and phosphate amendments. <i>Environmental Science and Pollution Research</i> , 2008 , 15, 120-7	5.1	72
104	Roles of Phosphoric Acid in Biochar Formation: Synchronously Improving Carbon Retention and Sorption Capacity. <i>Journal of Environmental Quality</i> , 2017 , 46, 393-401	3.4	70
103	Different mechanisms between biochar and activated carbon for the persulfate catalytic degradation of sulfamethoxazole: Roles of radicals in solution or solid phase. <i>Chemical Engineering Journal</i> , 2019 , 375, 121908	14.7	69
102	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 ^{1,1}	11.1	67
101	Physicochemical property and colloidal stability of micron- and nano-particle biochar derived from a variety of feedstock sources. <i>Science of the Total Environment</i> , 2019 , 661, 685-695	10.2	66
100	Effects of phosphorus amendments and plant growth on the mobility of Pb, Cu, and Zn in a multi-metal-contaminated soil. <i>Environmental Science and Pollution Research</i> , 2012 , 19, 1659-67	5.1	65

99	Sustainable remediation with an electroactive biochar system: mechanisms and perspectives. <i>Green Chemistry</i> , 2020 , 22, 2688-2711	10	64
98	Sorption of arsenic onto Ni/Fe layered double hydroxide (LDH)-biochar composites. <i>RSC Advances</i> , 2016 , 6, 17792-17799	3.7	62
97	Biochar-supported carbon nanotube and graphene oxide nanocomposites for Pb(II) and Cd(II) removal. <i>RSC Advances</i> , 2016 , 6, 24314-24319	3.7	61
96	Synthesis of a multifunctional graphene-carbon nanotube aerogel and its strong adsorption of lead from aqueous solution. <i>RSC Advances</i> , 2013 , 3, 21099	3.7	60
95	In vitro bioaccessibility and health risk assessment of heavy metals in atmospheric particulate matters from three different functional areas of Shanghai, China. <i>Science of the Total Environment</i> , 2018 , 610-611, 546-554	10.2	57
94	Biochar-supported zerovalent iron reclaims silver from aqueous solution to form antimicrobial nanocomposite. <i>Chemosphere</i> , 2014 , 117, 801-5	8.4	57
93	Biochar as simultaneous shelter, adsorbent, pH buffer, and substrate of <i>Pseudomonas citronellolis</i> to promote biodegradation of high concentrations of phenol in wastewater. <i>Water Research</i> , 2020 , 172, 115494	12.5	56
92	Interaction with low molecular weight organic acids affects the electron shuttling of biochar for Cr(VI) reduction. <i>Journal of Hazardous Materials</i> , 2019 , 378, 120705	12.8	55
91	Distribution and evolution of organic matter phases during biochar formation and their importance in carbon loss and pore structure. <i>Chemical Engineering Journal</i> , 2014 , 250, 240-247	14.7	55
90	Contrasting effects of biochar nanoparticles on the retention and transport of phosphorus in acidic and alkaline soils. <i>Environmental Pollution</i> , 2018 , 239, 562-570	9.3	54
89	Phosphorus-assisted biomass thermal conversion: reducing carbon loss and improving biochar stability. <i>PLoS ONE</i> , 2014 , 9, e115373	3.7	52
88	Kaolinite Enhances the Stability of the Dissolvable and Undissolvable Fractions of Biochar via Different Mechanisms. <i>Environmental Science & Technology</i> , 2018 , 52, 8321-8329	10.3	50
87	Pyrolysis-temperature depended electron donating and mediating mechanisms of biochar for Cr(VI) reduction. <i>Journal of Hazardous Materials</i> , 2020 , 388, 121794	12.8	49
86	One-pot synthesis of nZVI-embedded biochar for remediation of two mining arsenic-contaminated soils: Arsenic immobilization associated with iron transformation. <i>Journal of Hazardous Materials</i> , 2020 , 398, 122901	12.8	47
85	Short-term effects of raw rice straw and its derived biochar on greenhouse gas emission in five typical soils in China. <i>Soil Science and Plant Nutrition</i> , 2013 , 59, 800-811	1.6	47
84	Endogenous minerals have influences on surface electrochemistry and ion exchange properties of biochar. <i>Chemosphere</i> , 2015 , 136, 133-9	8.4	46
83	Potassium doping increases biochar carbon sequestration potential by 45%, facilitating decoupling of carbon sequestration from soil improvement. <i>Scientific Reports</i> , 2019 , 9, 5514	4.9	43
82	Interaction of Inherent Minerals with Carbon during Biomass Pyrolysis Weakens Biochar Carbon Sequestration Potential. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 1591-1599	8.3	43

81	Pyrolysis-temperature depended quinone and carbonyl groups as the electron accepting sites in barley grass derived biochar. <i>Chemosphere</i> , 2019 , 232, 273-280	8.4	42
80	Microplastics in the soil-groundwater environment: Aging, migration, and co-transport of contaminants - A critical review. <i>Journal of Hazardous Materials</i> , 2021 , 419, 126455	12.8	41
79	Facilitated transport of cadmium by biochar-FeO nanocomposites in water-saturated natural soils. <i>Science of the Total Environment</i> , 2019 , 684, 265-275	10.2	39
78	Contribution of different iron species in the iron-biochar composites to sorption and degradation of two dyes with varying properties. <i>Chemical Engineering Journal</i> , 2020 , 389, 124471	14.7	38
77	Converting Ni-loaded biochars into supercapacitors: Implication on the reuse of exhausted carbonaceous sorbents. <i>Scientific Reports</i> , 2017 , 7, 41523	4.9	37
76	Facilitated transport of anatase titanium dioxides nanoparticles in the presence of phosphate in saturated sands. <i>Journal of Colloid and Interface Science</i> , 2015 , 451, 134-43	9.3	35
75	Different alkaline minerals interacted with biomass carbon during pyrolysis: Which one improved biochar carbon sequestration?. <i>Journal of Cleaner Production</i> , 2020 , 255, 120162	10.3	35
74	Short-term effects of rice straw biochar on sorption, emission, and transformation of soil $\text{NH}_4\text{-N}$. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 9184-92	5.1	35
73	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
72	Bench-scale recovery of phosphorus from flushed dairy manure wastewater. <i>Bioresource Technology</i> , 2008 , 99, 3036-43	11	33
71	Roles of the mineral constituents in sludge-derived biochar in persulfate activation for phenol degradation. <i>Journal of Hazardous Materials</i> , 2020 , 398, 122861	12.8	33
70	Persulfate Oxidation of Sulfamethoxazole by Magnetic Iron-Char Composites via Nonradical Pathways: Fe(IV) Versus Surface-Mediated Electron Transfer. <i>Environmental Science & Technology</i> , 2021 , 55, 10077-10086	10.3	31
69	Sustainable impact of tartaric acid as electron shuttle on hierarchical iron-incorporated biochar. <i>Chemical Engineering Journal</i> , 2020 , 395, 125138	14.7	30
68	Mobility of Pb, Cu, and Zn in the phosphorus-amended contaminated soils under simulated landfill and rainfall conditions. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 5913-21	5.1	30
67	Toxicity characteristic leaching procedure over- or under-estimates leachability of lead in phosphate-amended contaminated soils. <i>Chemosphere</i> , 2015 , 138, 744-50	8.4	27
66	Biomass reduction and arsenic transformation during composting of arsenic-rich hyperaccumulator <i>Pteris vittata</i> L. <i>Environmental Science and Pollution Research</i> , 2010 , 17, 586-94	5.1	27
65	Evolution of redox activity of biochar during interaction with soil minerals: Effect on the electron donating and mediating capacities for Cr(VI) reduction. <i>Journal of Hazardous Materials</i> , 2021 , 414, 125483	12.8	27
64	Participation of soil active components in the reduction of Cr(VI) by biochar: Differing effects of iron mineral alone and its combination with organic acid. <i>Journal of Hazardous Materials</i> , 2020 , 384, 121455	12.8	25

63	Suppressed formation of polycyclic aromatic hydrocarbons (PAHs) during pyrolytic production of Fe-enriched composite biochar. <i>Journal of Hazardous Materials</i> , 2020 , 382, 121033	12.8	25
62	Role of Inherent Inorganic Constituents in SO Sorption Ability of Biochars Derived from Three Biomass Wastes. <i>Environmental Science & Technology</i> , 2016 , 50, 12957-12965	10.3	24
61	Release of nutrients and heavy metals from biochar-amended soil under environmentally relevant conditions. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 2517-2527	5.1	23
60	Evaluating the applicability of regulatory leaching tests for assessing lead leachability in contaminated shooting range soils. <i>Environmental Monitoring and Assessment</i> , 2008 , 139, 1-13	3.1	22
59	Impact of CeO nanoparticles on the aggregation kinetics and stability of polystyrene nanoplastics: Importance of surface functionalization and solution chemistry. <i>Water Research</i> , 2020 , 186, 116324	12.5	22
58	An integrated approach for simultaneous immobilization of lead in both contaminated soil and groundwater: Laboratory test and numerical modeling. <i>Journal of Hazardous Materials</i> , 2018 , 342, 107-113	12.8	21
57	Development of phosphate rock integrated with iron amendment for simultaneous immobilization of Zn and Cr(VI) in an electroplating contaminated soil. <i>Chemosphere</i> , 2017 , 182, 15-21	8.4	20
56	Sustainable conversion of contaminated dredged river sediment into eco-friendly foamed concrete. <i>Journal of Cleaner Production</i> , 2020 , 252, 119799	10.3	20
55	Country-level potential of carbon sequestration and environmental benefits by utilizing crop residues for biochar implementation. <i>Applied Energy</i> , 2021 , 282, 116275	10.7	20
54	Impacts of different activation processes on the carbon stability of biochar for oxidation resistance. <i>Bioresource Technology</i> , 2021 , 338, 125555	11	20
53	Computational study and optimization experiment of nZVI modified by anionic and cationic polymer for Cr(VI) stabilization in soil: Kinetics and response surface methodology (RSM). <i>Environmental Pollution</i> , 2021 , 276, 116745	9.3	19
52	Phytotoxicity of individual and binary mixtures of rare earth elements (Y, La, and Ce) in relation to bioavailability. <i>Environmental Pollution</i> , 2019 , 246, 114-121	9.3	18
51	Infiltration behavior of heavy metals in runoff through soil amended with biochar as bulking agent. <i>Environmental Pollution</i> , 2019 , 254, 113114	9.3	16
50	Elucidating Toxicodynamic Differences at the Molecular Scale between ZnO Nanoparticles and ZnCl ₂ in via Nontargeted Metabolomics. <i>Environmental Science & Technology</i> , 2020 , 54, 3487-3498	10.3	16
49	Interactions of CeO nanoparticles with natural colloids and electrolytes impact their aggregation kinetics and colloidal stability. <i>Journal of Hazardous Materials</i> , 2020 , 386, 121973	12.8	16
48	Contribution of pristine and reduced microbial extracellular polymeric substances of different sources to Cu(II) reduction. <i>Journal of Hazardous Materials</i> , 2021 , 415, 125616	12.8	16
47	Application of iron-biochar composite in topsoil for simultaneous remediation of chromium-contaminated soil and groundwater: Immobilization mechanism and long-term stability. <i>Journal of Hazardous Materials</i> , 2021 , 405, 124226	12.8	15
46	New insights into CO ₂ sorption on biochar/Fe oxyhydroxide composites: Kinetics, mechanisms, and in situ characterization. <i>Chemical Engineering Journal</i> , 2020 , 384, 123289	14.7	14

45	Stabilization of dissolvable biochar by soil minerals: Release reduction and organo-mineral complexes formation. <i>Journal of Hazardous Materials</i> , 2021 , 412, 125213	12.8	14
44	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
43	Interactions of arsenic, copper, and zinc in soil-plant system: Partition, uptake and phytotoxicity. <i>Science of the Total Environment</i> , 2020 , 745, 140926	10.2	13
42	The cation competition and electrostatic theory are equally valid in quantifying the toxicity of trivalent rare earth ions (Y and Ce) to <i>Triticum aestivum</i> . <i>Environmental Pollution</i> , 2019 , 250, 456-463	9.3	12
41	Metal chloride-loaded biochar for phosphorus recovery: Noteworthy roles of inherent minerals in precursor. <i>Chemosphere</i> , 2021 , 266, 128991	8.4	12
40	Pyrolysis temperature-dependent carbon retention and stability of biochar with participation of calcium: Implications to carbon sequestration. <i>Environmental Pollution</i> , 2021 , 287, 117566	9.3	11
39	Transformation and bioaccessibility of lead induced by steamed bread feed in the gastrointestinal tract. <i>Ecotoxicology and Environmental Safety</i> , 2017 , 137, 158-164	7	10
38	Soil colloids affect the aggregation and stability of biochar colloids. <i>Science of the Total Environment</i> , 2021 , 771, 145414	10.2	10
37	Biomass-derived pyrolytic carbons accelerated Fe(III)/Fe(II) redox cycle for persulfate activation: Pyrolysis temperature-dependent performance and mechanisms. <i>Applied Catalysis B: Environmental</i> , 2021 , 297, 120446	21.8	10
36	Biochar-impacted sulfur cycling affects methylmercury phytoavailability in soils under different redox conditions. <i>Journal of Hazardous Materials</i> , 2021 , 407, 124397	12.8	9
35	Sorption of reactive red by biochars ball milled in different atmospheres: Co-effect of surface morphology and functional groups. <i>Chemical Engineering Journal</i> , 2021 , 413, 127468	14.7	8
34	Synergistic role of bulk carbon and iron minerals inherent in the sludge-derived biochar for As(V) immobilization. <i>Chemical Engineering Journal</i> , 2021 , 417, 129183	14.7	8
33	Chemical and photo-initiated aging enhances transport risk of microplastics in saturated soils: Key factors, mechanisms, and modeling. <i>Water Research</i> , 2021 , 202, 117407	12.5	8
32	Effective Modeling Framework for Quantifying the Potential Impacts of Coexisting Anions on the Toxicity of Arsenate, Selenite, and Vanadate. <i>Environmental Science & Technology</i> , 2020 , 54, 2379-2388	10.3	7
31	The shuttling effects and associated mechanisms of different types of iron oxide nanoparticles for Cu(II) reduction by <i>Geobacter sulfurreducens</i> . <i>Journal of Hazardous Materials</i> , 2020 , 393, 122390	12.8	6
30	Uptake of vegetable and soft drink affected transformation and bioaccessibility of lead in gastrointestinal track exposed to lead-contaminated soil particles. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 194, 110411	7	6
29	Sorption and desorption behavior of lead on a Chinese kaolin. <i>Environmental Earth Sciences</i> , 2011 , 63, 145-149	2.9	6
28	Coherent toxicity prediction framework for deciphering the joint effects of rare earth metals (La and Ce) under varied levels of calcium and NTA. <i>Chemosphere</i> , 2020 , 254, 126905	8.4	6

27	Protein corona-induced aggregation of differently sized nanoplastics: impacts of protein type and concentration. <i>Environmental Science: Nano</i> , 2021 , 8, 1560-1570	7.1	6
26	Enhanced trichloroethylene biodegradation: Roles of biochar-microbial collaboration beyond adsorption. <i>Science of the Total Environment</i> , 2021 , 792, 148451	10.2	6
25	Nano ferric oxide adsorbents with self-acidification effect for efficient adsorption of Sb(V).. <i>Chemosphere</i> , 2021 , 272, 129933	8.4	5
24	The microorganism and biochar-augmented bioreactive top-layer soil for degradation removal of 2,4-dichlorophenol from surface runoff. <i>Science of the Total Environment</i> , 2020 , 733, 139244	10.2	4
23	Modeling and visualizing the transport and retention of cationic and oxyanionic metals (Cd and Cr) in saturated soil under various hydrochemical and hydrodynamic conditions. <i>Science of the Total Environment</i> , 2021 , 151467	10.2	4
22	Transformation and bioaccessibility of lead during physiologically based extraction test: effects of phosphate amendment and extract fluid components. <i>RSC Advances</i> , 2016 , 6, 43786-43793	3.7	4
21	Migration and transformation of chromium in unsaturated soil during groundwater table fluctuations induced by rainfall. <i>Journal of Hazardous Materials</i> , 2021 , 416, 126229	12.8	4
20	Further reuse of phosphorus-laden biochar for lead sorption from aqueous solution: Isotherm, kinetics, and mechanism. <i>Science of the Total Environment</i> , 2021 , 792, 148550	10.2	4
19	Mesoporous ball-milling iron-loaded biochar for enhanced sorption of reactive red: Performance and mechanisms. <i>Environmental Pollution</i> , 2021 , 290, 117992	9.3	4
18	Coupling mixture reference models with DGT-perceived metal flux for deciphering the nonadditive effects of rare earth mixtures to wheat in soils. <i>Environmental Research</i> , 2020 , 188, 109736	7.9	3
17	Immobilization of Heavy Metals in Contaminated Soils Amended by Phosphate-, Carbonate-, and Silicate-Based Materials: From Lab to Field 2018 , 535-543		3
16	Evaluation of long-term carbon sequestration of biochar in soil with biogeochemical field model.. <i>Science of the Total Environment</i> , 2022 , 822, 153576	10.2	3
15	Direct and Indirect Electron Transfer Routes of Chromium(VI) Reduction with Different Crystalline Ferric Oxyhydroxides in the Presence of Pyrogenic Carbon.. <i>Environmental Science & Technology</i> , 2022 ,	10.3	3
14	Electroactive Fe-biochar for redox-related remediation of arsenic and chromium: Distinct redox nature with varying iron/carbon speciation. <i>Journal of Hazardous Materials</i> , 2022 , 430, 128479	12.8	3
13	New insights into the underlying influence of bentonite on Pb immobilization by undissolvable and dissolvable fractions of biochar. <i>Science of the Total Environment</i> , 2021 , 775, 145824	10.2	2
12	Dynamic release and transformation of metallic copper colloids in flooded paddy soil: Role of soil reducible sulfate and temperature. <i>Journal of Hazardous Materials</i> , 2021 , 402, 123462	12.8	2
11	Straw return promoted the simultaneous elimination of sulfamethoxazole and related antibiotic resistance genes in the paddy soil. <i>Science of the Total Environment</i> , 2022 , 806, 150525	10.2	1
10	Development of phosphorus composite biochar for simultaneous enhanced carbon sink and heavy metal immobilization in soil.. <i>Science of the Total Environment</i> , 2022 , 154845	10.2	1

9	Ionic liquid-assisted production of high-porosity biochar with more surface functional groups: Taking cellulose as attacking target. <i>Chemical Engineering Journal</i> , 2021 , 433, 133811	14.7	○
8	Contrasting effects of dry-wet and freeze-thaw aging on the immobilization of As in As-contaminated soils amended by zero-valent iron-embedded biochar.. <i>Journal of Hazardous Materials</i> , 2021 , 426, 128123	12.8	○
7	Dispersion and transport of microplastics in three water-saturated coastal soils. <i>Journal of Hazardous Materials</i> , 2021 , 424, 127614	12.8	○
6	Effects of different modifiers on the sorption and structural properties of biochar derived from wheat stalk.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	○
5	Simultaneous reduction and sequestration of hexavalent chromium by magnetic β -cyclodextrin stabilized FeS.. <i>Journal of Hazardous Materials</i> , 2022 , 431, 128592	12.8	○
4	UV/ozone induced physicochemical transformations of polystyrene nanoparticles and their aggregation tendency and kinetics with natural organic matter in aqueous systems.. <i>Journal of Hazardous Materials</i> , 2022 , 433, 128790	12.8	○
3	Colloid formation and facilitated chromium transport in the coastal area soil induced by freshwater and seawater alternating fluctuations.. <i>Water Research</i> , 2022 , 218, 118456	12.5	○
2	A novel lignin hydrogel supported nZVI for efficient removal of Cr(VI).. <i>Chemosphere</i> , 2022 , 301, 134781	8.4	○
1	Biochar for carbon sequestration and environmental remediation in soil 2022 , 35-49		