

Zhenli He

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1322276/publications.pdf>

Version: 2024-02-01

457
papers

21,298
citations

10956

71
h-index

19690

117
g-index

458
all docs

458
docs citations

458
times ranked

20235
citing authors

#	ARTICLE	IF	CITATIONS
1	Activated carbon derived from carbon residue from biomass gasification and its application for dye adsorption: Kinetics, isotherms and thermodynamic studies. <i>Bioresource Technology</i> , 2016, 200, 350-359.	4.8	435
2	Molecular mechanisms of heavy metal hyperaccumulation and phytoremediation. <i>Journal of Trace Elements in Medicine and Biology</i> , 2005, 18, 339-353.	1.5	430
3	3D bioprinting of tissues and organs for regenerative medicine. <i>Advanced Drug Delivery Reviews</i> , 2018, 132, 296-332.	6.6	417
4	Phytoremediation of heavy metal polluted soils and water: Progresses and perspectives. <i>Journal of Zhejiang University: Science B</i> , 2008, 9, 210-220.	1.3	396
5	Microbial Biomass and Community Structure in a Sequence of Soils with Increasing Fertility and Changing Land Use. <i>Microbial Ecology</i> , 2000, 40, 223-237.	1.4	382
6	Current status of agricultural soil pollution by heavy metals in China: A meta-analysis. <i>Science of the Total Environment</i> , 2019, 651, 3034-3042.	3.9	368
7	Heavy metal pollution and health risk assessment of agricultural soils in a typical peri-urban area in southeast China. <i>Journal of Environmental Management</i> , 2018, 207, 159-168.	3.8	363
8	Potential mechanisms of cadmium removal from aqueous solution by <i>Canna indica</i> derived biochar. <i>Science of the Total Environment</i> , 2016, 562, 517-525.	3.9	361
9	A critical review on sustainable biochar system through gasification: Energy and environmental applications. <i>Bioresource Technology</i> , 2017, 246, 242-253.	4.8	263
10	An explanation of soil amendments to reduce cadmium phytoavailability and transfer to food chain. <i>Science of the Total Environment</i> , 2019, 660, 80-96.	3.9	254
11	Morphological and Physiological Responses of Plants to Cadmium Toxicity: A Review. <i>Pedosphere</i> , 2017, 27, 421-438.	2.1	243
12	Electrohydrodynamic atomization: A two-decade effort to produce and process micro-/nanoparticulate materials. <i>Chemical Engineering Science</i> , 2015, 125, 32-57.	1.9	240
13	Drug delivery systems for programmed and on-demand release. <i>Advanced Drug Delivery Reviews</i> , 2018, 132, 104-138.	6.6	229
14	An integrated approach to assess heavy metal source apportionment in peri-urban agricultural soils. <i>Journal of Hazardous Materials</i> , 2015, 299, 540-549.	6.5	223
15	Capacity and mechanisms of ammonium and cadmium sorption on different wetland-plant derived biochars. <i>Science of the Total Environment</i> , 2016, 539, 566-575.	3.9	208
16	Valorization of biomass to hydroxymethylfurfural, levulinic acid, and fatty acid methyl ester by heterogeneous catalysts. <i>Chemical Engineering Journal</i> , 2017, 328, 246-273.	6.6	196
17	Foliage application of selenium and silicon nanoparticles alleviates Cd and Pb toxicity in rice (<i>Oryza</i>) Tj ETQq1 1 0.784314 rgBT /Overl	3.9	182
18	Zeolite-Encaged Pd-Mn Nanocatalysts for CO ₂ Hydrogenation and Formic Acid Dehydrogenation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20183-20191.	7.2	175

#	ARTICLE	IF	CITATIONS
19	Cellular Sequestration of Cadmium in the Hyperaccumulator Plant Species <i>Sedum alfredii</i> . <i>Plant Physiology</i> , 2011, 157, 1914-1925.	2.3	172
20	Comparative efficacy of organic and inorganic amendments for cadmium and lead immobilization in contaminated soil under rice-wheat cropping system. <i>Chemosphere</i> , 2019, 214, 259-268.	4.2	171
21	Removal of phosphate from aqueous solution using magnesium-alginate/chitosan modified biochar microspheres derived from <i>Thalia dealbata</i> . <i>Bioresource Technology</i> , 2016, 218, 1123-1132.	4.8	168
22	Phosphate removal from solution using steel slag through magnetic separation. <i>Journal of Hazardous Materials</i> , 2008, 152, 211-215.	6.5	165
23	Chemical looping gasification of biomass with Fe ₂ O ₃ /CaO as the oxygen carrier for hydrogen-enriched syngas production. <i>Chemical Engineering Journal</i> , 2020, 379, 122346.	6.6	165
24	A modified receptor model for source apportionment of heavy metal pollution in soil. <i>Journal of Hazardous Materials</i> , 2018, 354, 161-169.	6.5	161
25	The phytoremediation potential of bioenergy crop <i>Ricinus communis</i> for DDTs and cadmium co-contaminated soil. <i>Bioresource Technology</i> , 2011, 102, 11034-11038.	4.8	160
26	Purifying eutrophic river waters with integrated floating island systems. <i>Ecological Engineering</i> , 2012, 40, 53-60.	1.6	160
27	Effect of gasification biochar application on soil quality: Trace metal behavior, microbial community, and soil dissolved organic matter. <i>Journal of Hazardous Materials</i> , 2019, 365, 684-694.	6.5	156
28	Phytoremediation to remove nutrients and improve eutrophic stormwaters using water lettuce (<i>Pistia stratiotes</i> L.). <i>Environmental Science and Pollution Research</i> , 2010, 17, 84-96.	2.7	147
29	Cadmium phytoavailability to rice (<i>Oryza sativa</i> L.) grown in representative Chinese soils. A model to improve soil environmental quality guidelines for food safety. <i>Ecotoxicology and Environmental Safety</i> , 2014, 103, 101-107.	2.9	147
30	Soil Biogeochemistry, Plant Physiology, and Phytoremediation of Cadmium-Contaminated Soils. <i>Advances in Agronomy</i> , 2015, , 135-225.	2.4	137
31	Concentration of cadmium in cacao beans and its relationship with soil cadmium in southern Ecuador. <i>Science of the Total Environment</i> , 2015, 533, 205-214.	3.9	135
32	Long-term changes in organic carbon and nutrients of an Ultisol under rice cropping in southeast China. <i>Geoderma</i> , 2004, 118, 167-179.	2.3	134
33	Gasification biochar from biowaste (food waste and wood waste) for effective CO ₂ adsorption. <i>Journal of Hazardous Materials</i> , 2020, 391, 121147.	6.5	132
34	Zinc compartmentation in root, transport into xylem, and absorption into leaf cells in the hyperaccumulating species of <i>Sedum alfredii</i> Hance. <i>Planta</i> , 2006, 224, 185-195.	1.6	125
35	Numerical simulation of deformation/motion of a drop suspended in viscous liquids under influence of steady electric fields. <i>Physics of Fluids</i> , 2008, 20, .	1.6	123
36	Co-gasification of woody biomass and sewage sludge in a fixed-bed downdraft gasifier. <i>AIChE Journal</i> , 2015, 61, 2508-2521.	1.8	122

#	ARTICLE	IF	CITATIONS
37	3D bioprinting of skin tissue: From pre-processing to final product evaluation. <i>Advanced Drug Delivery Reviews</i> , 2018, 132, 270-295.	6.6	122
38	Selenate and Nitrate Bioreductions Using Methane as the Electron Donor in a Membrane Biofilm Reactor. <i>Environmental Science & Technology</i> , 2016, 50, 10179-10186.	4.6	119
39	Efficiency of lime, biochar, Fe containing biochar and composite amendments for Cd and Pb immobilization in a co-contaminated alluvial soil. <i>Environmental Pollution</i> , 2020, 257, 113609.	3.7	118
40	Uptake of Cadmium by Rice Grown on Contaminated Soils and Its Bioavailability/Toxicity in Human Cell Lines (Caco-2/HL-7702). <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 3599-3608.	2.4	113
41	Electrostatics of the Granular Flow in a Pneumatic Conveying System. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 7181-7199.	1.8	112
42	Effects of zinc and cadmium interactions on root morphology and metal translocation in a hyperaccumulating species under hydroponic conditions. <i>Journal of Hazardous Materials</i> , 2009, 169, 734-741.	6.5	111
43	Root cell wall polysaccharides are involved in cadmium hyperaccumulation in <i>Sedum alfredii</i> . <i>Plant and Soil</i> , 2015, 389, 387-399.	1.8	111
44	Uptake and distribution of metals by water lettuce (<i>Pistia stratiotes</i> L.). <i>Environmental Science and Pollution Research</i> , 2011, 18, 978-986.	2.7	110
45	Characterization of bioenergy biochar and its utilization for metal/metalloid immobilization in contaminated soil. <i>Science of the Total Environment</i> , 2018, 640-641, 704-713.	3.9	110
46	Organic soil additives for the remediation of cadmium contaminated soils and their impact on the soil-plant system: A review. <i>Science of the Total Environment</i> , 2020, 707, 136121.	3.9	108
47	Improvement of cadmium uptake and accumulation in <i>Sedum alfredii</i> by endophytic bacteria <i>Sphingomonas</i> SaMR12: Effects on plant growth and root exudates. <i>Chemosphere</i> , 2014, 117, 367-373.	4.2	106
48	Comparison of the co-gasification of sewage sludge and food wastes and cost-benefit analysis of gasification- and incineration-based waste treatment schemes. <i>Bioresource Technology</i> , 2016, 218, 595-605.	4.8	105
49	Calcium protects roots of <i>Sedum alfredii</i> H. against cadmium-induced oxidative stress. <i>Chemosphere</i> , 2011, 84, 63-69.	4.2	101
50	Characterization and ecotoxicological investigation of biochar produced via slow pyrolysis: Effect of feedstock composition and pyrolysis conditions. <i>Journal of Hazardous Materials</i> , 2019, 365, 178-185.	6.5	100
51	Biochar industry to circular economy. <i>Science of the Total Environment</i> , 2021, 757, 143820.	3.9	100
52	Simultaneous syngas and biochar production during heavy metal separation from Cd/Zn hyperaccumulator (<i>Sedum alfredii</i>) by gasification. <i>Chemical Engineering Journal</i> , 2018, 347, 543-551.	6.6	97
53	The Effects of the Endophytic Bacterium <i>Pseudomonas fluorescens</i> Sasm05 and IAA on the Plant Growth and Cadmium Uptake of <i>Sedum alfredii</i> Hance. <i>Frontiers in Microbiology</i> , 2017, 8, 2538.	1.5	95
54	Fate of antibiotic resistant cultivable heterotrophic bacteria and antibiotic resistance genes in wastewater treatment processes. <i>Chemosphere</i> , 2015, 135, 138-145.	4.2	93

#	ARTICLE	IF	CITATIONS
55	Differential changes in photosynthetic capacity, 77â€¦K chlorophyll fluorescence and chloroplast ultrastructure between Znâ€¦efficient and Znâ€¦inefficient rice genotypes (<i>Oryza sativa</i>) under low zinc stress. <i>Physiologia Plantarum</i> , 2008, 132, 89-101.	2.6	92
56	Application of electrical capacitance tomography in particulate process measurement â€œ A review. <i>Advanced Powder Technology</i> , 2014, 25, 174-188.	2.0	91
57	Characterization of bacterial community in biofilm and sediments of wetlands dominated by aquatic macrophytes. <i>Ecological Engineering</i> , 2016, 97, 242-250.	1.6	91
58	Chemical Compounds Effective Against the Citrus Huanglongbing Bacterium â€œ<i>Candidatus</i> Liberibacter asiaticusâ€™ In Planta. <i>Phytopathology</i> , 2011, 101, 1097-1103.	1.1	89
59	Anthropogenic mercury emissions from 1980 to 2012 in China. <i>Environmental Pollution</i> , 2017, 226, 230-239.	3.7	87
60	Application of nitric oxide and calcium nitrate enhances tolerance of wheat seedlings to salt stress. <i>Plant Growth Regulation</i> , 2015, 77, 343-356.	1.8	84
61	Impact of different feedstocks derived biochar amendment with cadmium low uptake affinity cultivar of pak choi (<i>Brassica rapa</i> ssp. <i>chinensis</i> L.) on phytoavoidation of Cd to reduce potential dietary toxicity. <i>Ecotoxicology and Environmental Safety</i> , 2017, 141, 129-138.	2.9	84
62	Biofortification and Bioavailability of Rice Grain Zinc as Affected by Different Forms of Foliar Zinc Fertilization. <i>PLoS ONE</i> , 2012, 7, e45428.	1.1	83
63	Methane yield enhancement of mesophilic and thermophilic anaerobic co-digestion of algal biomass and food waste using algal biochar: Semi-continuous operation and microbial community analysis. <i>Bioresource Technology</i> , 2020, 302, 122892.	4.8	83
64	Immobilization of cadmium and lead in contaminated paddy field using inorganic and organic additives. <i>Scientific Reports</i> , 2018, 8, 17839.	1.6	82
65	Coaxial electrohydrodynamic atomization: Microparticles for drug delivery applications. <i>Journal of Controlled Release</i> , 2015, 205, 70-82.	4.8	81
66	Enhanced expression of SaHMA3 plays critical roles in Cd hyperaccumulation and hypertolerance in Cd hyperaccumulator <i>Sedum alfredii</i> Hance. <i>Planta</i> , 2016, 243, 577-589.	1.6	81
67	The integrated effect of salinity, organic amendments, phosphorus fertilizers, and deficit irrigation on soil properties, phosphorus fractionation and wheat productivity. <i>Scientific Reports</i> , 2020, 10, 2736.	1.6	81
68	Effects of pH and low molecular weight organic acids on competitive adsorption and desorption of cadmium and lead in paddy soils. <i>Environmental Monitoring and Assessment</i> , 2012, 184, 6325-6335.	1.3	79
69	Changes of Folate and Other Potential Health-Promoting Phytochemicals in Legume Seeds As Affected by Germination. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 9137-9143.	2.4	78
70	CO ₂ gasification of woody biomass: Experimental study from a lab-scale reactor to a small-scale autothermal gasifier. <i>Energy</i> , 2019, 170, 497-506.	4.5	78
71	Natural Nanoparticles: Implications for Environment and Human Health. <i>Critical Reviews in Environmental Science and Technology</i> , 2015, 45, 861-904.	6.6	76
72	Pyrolysis of wetland biomass waste: Potential for carbon sequestration and water remediation. <i>Journal of Environmental Management</i> , 2016, 173, 95-104.	3.8	76

#	ARTICLE	IF	CITATIONS
73	Co-gasification of woody biomass and chicken manure: Syngas production, biochar reutilization, and cost-benefit analysis. <i>Energy</i> , 2017, 139, 732-742.	4.5	76
74	Distribution, availability and translocation of heavy metals in soil-oilseed rape (<i>Brassica napus</i> L.) system related to soil properties. <i>Environmental Pollution</i> , 2019, 252, 733-741.	3.7	76
75	On the association between outdoor PM _{2.5} concentration and the seasonality of tuberculosis for Beijing and Hong Kong. <i>Environmental Pollution</i> , 2016, 218, 1170-1179.	3.7	75
76	A review on the thermal treatment of heavy metal hyperaccumulator: Fates of heavy metals and generation of products. <i>Journal of Hazardous Materials</i> , 2021, 405, 123832.	6.5	74
77	Nutrient removal efficiency and biomass production of different bioenergy plants in hypereutrophic water. <i>Biomass and Bioenergy</i> , 2012, 42, 212-218.	2.9	73
78	Accumulation and availability of copper in citrus grove soils as affected by fungicide application. <i>Journal of Soils and Sediments</i> , 2011, 11, 639-648.	1.5	72
79	Nitrogen loading affects microbes, nitrifiers and denitrifiers attached to submerged macrophyte in constructed wetlands. <i>Science of the Total Environment</i> , 2018, 622-623, 121-126.	3.9	70
80	Accumulation Properties of Cadmium in a Selected Vegetable-Rotation System of Southeastern China. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 6382-6388.	2.4	69
81	Microemulsion synthesis and magnetic properties of BaAl ₄ Fe ₈ O ₁₉ powders. <i>Jom</i> , 2011, 63, 34-36.	0.9	69
82	Three-stage anaerobic co-digestion of food waste and horse manure. <i>Scientific Reports</i> , 2017, 7, 1269.	1.6	69
83	An investigation on utilization of biogas and syngas produced from biomass waste in premixed spark ignition engine. <i>Applied Energy</i> , 2018, 212, 210-222.	5.1	67
84	Cultivar-specific response of bacterial community to cadmium contamination in the rhizosphere of rice (<i>Oryza sativa</i> L.). <i>Environmental Pollution</i> , 2018, 241, 63-73.	3.7	67
85	The plant-growth promoting bacteria promote cadmium uptake by inducing a hormonal crosstalk and lateral root formation in a hyperaccumulator plant <i>Sedum alfredii</i> . <i>Journal of Hazardous Materials</i> , 2020, 395, 122661.	6.5	67
86	Bioremediation of Cd and carbendazim co-contaminated soil by Cd-hyperaccumulator <i>Sedum alfredii</i> associated with carbendazim-degrading bacterial strains. <i>Environmental Science and Pollution Research</i> , 2013, 20, 380-389.	2.7	65
87	Iron concentration, bioavailability, and nutritional quality of polished rice affected by different forms of foliar iron fertilizer. <i>Food Chemistry</i> , 2013, 141, 4122-4126.	4.2	64
88	Towards practical application of gasification: a critical review from syngas and biochar perspectives. <i>Critical Reviews in Environmental Science and Technology</i> , 2018, 48, 1165-1213.	6.6	64
89	Comparative assessment of Indian mustard (<i>Brassica juncea</i> L.) genotypes for phytoremediation of Cd and Pb contaminated soils. <i>Environmental Pollution</i> , 2019, 254, 113085.	3.7	64
90	Inoculation of plant growth promoting bacteria from hyperaccumulator facilitated non-host root development and provided promising agents for elevated phytoremediation efficiency. <i>Chemosphere</i> , 2019, 234, 769-776.	4.2	64

#	ARTICLE	IF	CITATIONS
91	Phytoextraction of Metals and Rhizoremediation of PAHs in Co-Contaminated Soil by Co-Planting of <i>Sedum Alfredii</i> with Ryegrass (<i>Lolium Perenne</i>) or Castor (<i>Ricinus Communis</i>). International Journal of Phytoremediation, 2013, 15, 283-298.	1.7	62
92	Discrete element simulation for pneumatic conveying of granular material. AIChE Journal, 2006, 52, 496-509.	1.8	61
93	Short-term usage of sewage sludge as organic fertilizer to sugarcane in a tropical soil bears little threat of heavy metal contamination. Journal of Environmental Management, 2013, 114, 168-177.	3.8	61
94	Techno-economic and greenhouse gas savings assessment of decentralized biomass gasification for electrifying the rural areas of Indonesia. Applied Energy, 2017, 208, 495-510.	5.1	61
95	Responses of soil bacterial community and Cd phytoextraction to a <i>Sedum alfredii</i> -oilseed rape (<i>Brassica napus</i> L. and <i>Brassica juncea</i> L.) intercropping system. Science of the Total Environment, 2020, 723, 138152.	3.9	61
96	Enhanced intracellular delivery and controlled drug release of magnetic PLGA nanoparticles modified with transferrin. Acta Pharmacologica Sinica, 2017, 38, 943-953.	2.8	60
97	Cadmium Exposure- <i>Sedum alfredii</i> Planting Interactions Shape the Bacterial Community in the Hyperaccumulator Plant Rhizosphere. Applied and Environmental Microbiology, 2018, 84, .	1.4	60
98	3D Printing Personalized, Photocrosslinkable Hydrogel Wound Dressings for the Treatment of Thermal Burns. Advanced Functional Materials, 2021, 31, 2105932.	7.8	60
99	Model-based downdraft biomass gasifier operation and design for synthetic gas production. Journal of Cleaner Production, 2018, 178, 476-493.	4.6	59
100	Electrical Capacitance Tomography Measurements on the Pneumatic Conveying of Solids. Industrial & Engineering Chemistry Research, 2001, 40, 4216-4226.	1.8	58
101	Impact of mixed land-use practices on the microbial water quality in a subtropical coastal watershed. Science of the Total Environment, 2013, 449, 426-433.	3.9	58
102	Removal of nitrate and phosphate by chitosan composited beads derived from crude oil refinery waste: Sorption and cost-benefit analysis. Journal of Cleaner Production, 2019, 207, 846-856.	4.6	58
103	Nano-enabled agriculture: from nanoparticles to smart nanodelivery systems. Environmental Chemistry, 2020, 17, 413.	0.7	58
104	On the electrostatic equilibrium of granular flow in pneumatic conveying systems. AIChE Journal, 2006, 52, 3775-3793.	1.8	57
105	Interactive effects of Cd and PAHs on contaminants removal from co-contaminated soil planted with hyperaccumulator plant <i>Sedum alfredii</i> . Journal of Soils and Sediments, 2012, 12, 556-564.	1.5	57
106	Potential application of gasification to recycle food waste and rehabilitate acidic soil from secondary forests on degraded land in Southeast Asia. Journal of Environmental Management, 2016, 172, 40-48.	3.8	57
107	Hydrothermal carbonization of different wetland biomass wastes: Phosphorus reclamation and hydrochar production. Waste Management, 2020, 102, 106-113.	3.7	57
108	Microbial utilization and transformation of phosphate adsorbed by variable charge minerals. Soil Biology and Biochemistry, 1998, 30, 917-923.	4.2	56

#	ARTICLE	IF	CITATIONS
109	Coaxial electrohydrodynamic atomization process for production of polymeric composite microspheres. <i>Chemical Engineering Science</i> , 2013, 104, 330-346.	1.9	56
110	Chemical speciation of cadmium: An approach to evaluate plant-available cadmium in Ecuadorian soils under cacao production. <i>Chemosphere</i> , 2016, 150, 57-62.	4.2	56
111	Convection enhanced delivery of chemotherapeutic drugs into brain tumour. <i>Journal of Controlled Release</i> , 2018, 271, 74-87.	4.8	56
112	Mesophilic and thermophilic anaerobic digestion of soybean curd residue for methane production: Characterizing bacterial and methanogen communities and their correlations with organic loading rate and operating temperature. <i>Bioresource Technology</i> , 2019, 288, 121597.	4.8	56
113	Use of Carbon Nanoparticles to Improve Soil Fertility, Crop Growth and Nutrient Uptake by Corn (<i>Zea mays</i>) in Contaminated Soil. <i>Journal of Environmental Science and Technology</i> , 2019, 11, 1078-1084.	1.9	56
114	Numerical simulation of cone-jet formation in electrohydrodynamic atomization. <i>AIChE Journal</i> , 2011, 57, 57-78.	1.8	54
115	Double-Walled Microparticles-Embedded Self-Cross-Linked, Injectable, and Antibacterial Hydrogel for Controlled and Sustained Release of Chemotherapeutic Agents. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 22785-22800.	4.0	54
116	Synthesis of intracellular reduction-sensitive amphiphilic polyethyleneimine and poly(ϵ -caprolactone) graft copolymer for on-demand release of doxorubicin and p53 plasmid DNA. <i>Acta Biomaterialia</i> , 2016, 39, 79-93.	4.1	53
117	Chemically treated carbon black waste and its potential applications. <i>Journal of Hazardous Materials</i> , 2017, 321, 62-72.	6.5	53
118	Convection enhanced delivery of liposome encapsulated doxorubicin for brain tumour therapy. <i>Journal of Controlled Release</i> , 2018, 285, 212-229.	4.8	53
119	Phytoremediation of Cd-contaminated farmland soil via various <i>Sedum alfredii</i> -oilseed rape cropping systems: Efficiency comparison and cost-benefit analysis. <i>Journal of Hazardous Materials</i> , 2021, 419, 126489.	6.5	53
120	Effects of alternating wetting and drying versus continuous flooding on chromium fate in paddy soils. <i>Ecotoxicology and Environmental Safety</i> , 2015, 113, 439-445.	2.9	52
121	Oxalate secretion from the root apex of <i>Sedum alfredii</i> contributes to hyperaccumulation of Cd. <i>Plant and Soil</i> , 2016, 398, 139-152.	1.8	52
122	Structural and functional variability in root-associated bacterial microbiomes of Cd/Zn hyperaccumulator <i>Sedum alfredii</i> . <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 7961-7976.	1.7	52
123	<i>Eisenia fetida</i> and biochar synergistically alleviate the heavy metals content during valorization of biosolids via enhancing vermicompost quality. <i>Science of the Total Environment</i> , 2019, 684, 597-609.	3.9	52
124	Reduction Kinetics of Hexavalent Chromium in Soils and Its Correlation with Soil Properties. <i>Journal of Environmental Quality</i> , 2012, 41, 1452-1458.	1.0	51
125	Effect of DA-6 and EDTA alone or in combination on uptake, subcellular distribution and chemical form of Pb in <i>Lolium perenne</i> . <i>Chemosphere</i> , 2013, 93, 2782-2788.	4.2	51
126	Decision Support Systems to Manage Irrigation in Agriculture. <i>Advances in Agronomy</i> , 2014, , 229-279.	2.4	51

#	ARTICLE	IF	CITATIONS
127	Energy performance of an integrated bio-and-thermal hybrid system for lignocellulosic biomass waste treatment. <i>Bioresource Technology</i> , 2017, 228, 77-88.	4.8	51
128	Water hyacinth for energy and environmental applications: A review. <i>Bioresource Technology</i> , 2021, 327, 124809.	4.8	51
129	Effects of straw return with N fertilizer reduction on crop yield, plant diseases and pests and potential heavy metal risk in a Chinese rice paddy: A field study of 2 consecutive wheat-rice cycles. <i>Environmental Pollution</i> , 2021, 288, 117741.	3.7	51
130	Elevated CO ₂ improves root growth and cadmium accumulation in the hyperaccumulator <i>Sedum alfredii</i> . <i>Plant and Soil</i> , 2012, 354, 325-334.	1.8	50
131	Heavy metal phytoextraction by <i>Sedum alfredii</i> is affected by continual clipping and phosphorus fertilization amendment. <i>Journal of Environmental Sciences</i> , 2012, 24, 376-386.	3.2	50
132	Phytoavailability of Cadmium (Cd) to Pak Choi (<i>Brassica chinensis</i> L.) Grown in Chinese Soils: A Model to Evaluate the Impact of Soil Cd Pollution on Potential Dietary Toxicity. <i>PLoS ONE</i> , 2014, 9, e111461.	1.1	49
133	Background concentrations and quality reference values for some potentially toxic elements in soils of São Paulo State, Brazil. <i>Journal of Environmental Management</i> , 2018, 221, 10-19.	3.8	49
134	Fava bean intercropping with <i>Sedum alfredii</i> inoculated with endophytes enhances phytoremediation of cadmium and lead co-contaminated field. <i>Environmental Pollution</i> , 2020, 265, 114861.	3.7	49
135	Physiological and metabolomics responses of two wheat (<i>Triticum aestivum</i> L.) genotypes differing in grain cadmium accumulation. <i>Science of the Total Environment</i> , 2021, 769, 145345.	3.9	48
136	A constructed wetland system with aquatic macrophytes for cleaning contaminated runoff/storm water from urban area in Florida. <i>Journal of Environmental Management</i> , 2021, 280, 111794.	3.8	47
137	Barium uptake by maize plants as affected by sewage sludge in a long-term field study. <i>Journal of Hazardous Materials</i> , 2010, 181, 1148-1157.	6.5	46
138	Simultaneous sorption and catalytic oxidation of trivalent antimony by <i>Canna indica</i> derived biochars. <i>Environmental Pollution</i> , 2017, 229, 394-402.	3.7	46
139	Permittivity and chemical characterization of woody biomass during pyrolysis and gasification. <i>Chemical Engineering Journal</i> , 2019, 355, 255-268.	6.6	46
140	Techno-economic analysis of geopolymers production from the coal fly ash with high iron oxide and calcium oxide contents. <i>Journal of Hazardous Materials</i> , 2019, 361, 237-244.	6.5	46
141	Steam co-gasification of horticultural waste and sewage sludge: Product distribution, synergistic analysis and optimization. <i>Bioresource Technology</i> , 2020, 301, 122780.	4.8	46
142	Release Behavior of Copper and Zinc from Sandy Soils. <i>Soil Science Society of America Journal</i> , 2006, 70, 1699-1707.	1.2	46
143	PURIFICATION OF REFINERY WASTEWATER BY DIFFERENT PERENNIAL GRASSES GROWING IN A FLOATING BED. <i>Journal of Plant Nutrition</i> , 2012, 35, 93-110.	0.9	45
144	Mechanisms of Nickel Uptake and Hyperaccumulation by Plants and Implications for Soil Remediation. <i>Advances in Agronomy</i> , 2012, 117, 117-189.	2.4	44

#	ARTICLE	IF	CITATIONS
145	Genotypic differences in cadmium and nitrate co-accumulation among the Chinese cabbage genotypes under field conditions. <i>Scientia Horticulturae</i> , 2016, 201, 92-100.	1.7	44
146	Spatial imaging and speciation of Cu in rice (<i>Oryza sativa</i> L.) roots using synchrotron-based X-ray microfluorescence and X-ray absorption spectroscopy. <i>Chemosphere</i> , 2017, 175, 356-364.	4.2	44
147	Field crops (<i>Ipomoea aquatica</i> Forsk. and <i>Brassica chinensis</i> L.) for phytoremediation of cadmium and nitrate co-contaminated soils via rotation with <i>Sedum alfredii</i> Hance. <i>Environmental Science and Pollution Research</i> , 2017, 24, 19293-19305.	2.7	44
148	Evaluation of sewage sludge incineration ash as a potential land reclamation material. <i>Journal of Hazardous Materials</i> , 2018, 357, 63-72.	6.5	44
149	SaZIP4, an uptake transporter of Zn/Cd hyperaccumulator <i>Sedum alfredii</i> Hance. <i>Environmental and Experimental Botany</i> , 2018, 155, 107-117.	2.0	44
150	Use of polymeric nanoparticles to improve seed germination and plant growth under copper stress. <i>Science of the Total Environment</i> , 2020, 745, 141055.	3.9	44
151	Effect of Zinc Sulfate Fortification in Germinated Brown Rice on Seed Zinc Concentration, Bioavailability, and Seed Germination. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 1871-1879.	2.4	43
152	Biochar Amendment Affects Leaching Potential of Copper and Nutrient Release Behavior in Contaminated Sandy Soils. <i>Journal of Environmental Quality</i> , 2014, 43, 1894-1902.	1.0	43
153	Nitric oxide can induce tolerance to oxidative stress of peanut seedlings under cadmium toxicity. <i>Plant Growth Regulation</i> , 2016, 79, 19-28.	1.8	43
154	Conversion of Coal Fly Ash into Zeolite Materials: Synthesis and Characterizations, Process Design, and Its Cost-Benefit Analysis. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 11565-11574.	1.8	43
155	<i>Pseudomonas fluorescens</i> promote photosynthesis, carbon fixation and cadmium phytoremediation of hyperaccumulator <i>Sedum alfredii</i> . <i>Science of the Total Environment</i> , 2020, 726, 138554.	3.9	43
156	Adsorptive removal of tetracycline and amoxicillin from aqueous solution by leached carbon black waste and chitosan-carbon composite beads. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104988.	3.3	43
157	Spatial imaging of Zn and other elements in Huanglongbing-affected grapefruit by synchrotron-based micro X-ray fluorescence investigation. <i>Journal of Experimental Botany</i> , 2014, 65, 953-964.	2.4	42
158	Biochar from constructed wetland biomass waste: A review of its potential and challenges. <i>Chemosphere</i> , 2022, 287, 132259.	4.2	42
159	Dominating aquatic macrophytes for the removal of nutrients from waterways of the Indian River Lagoon basin, South Florida, USA. <i>Ecological Engineering</i> , 2017, 101, 107-119.	1.6	41
160	Food-waste anaerobic digestate as a fertilizer: The agronomic properties of untreated digestate and biochar-filtered digestate residue. <i>Waste Management</i> , 2021, 136, 143-152.	3.7	41
161	Surface Runoff Losses of Copper and Zinc in Sandy Soils. <i>Journal of Environmental Quality</i> , 2003, 32, 909-915.	1.0	40
162	An endophytic bacterium <i>Acinetobacter calcoaceticus</i> Sasm3-enhanced phytoremediation of nitrate-cadmium compound polluted soil by intercropping <i>Sedum alfredii</i> with oilseed rape. <i>Environmental Science and Pollution Research</i> , 2015, 22, 17625-17635.	2.7	40

#	ARTICLE	IF	CITATIONS
163	Prevalence of antibiotic resistance genes in antibiotic-resistant <i>Escherichia coli</i> isolates in surface water of Taihu Lake Basin, China. <i>Environmental Science and Pollution Research</i> , 2015, 22, 11412-11421.	2.7	40
164	Transformation of Phosphorus in Wetland Biomass during Pyrolysis and Hydrothermal Treatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 16520-16528.	3.2	40
165	Identification of high cadmium-accumulating oilseed sunflower (<i>Helianthus annuus</i>) cultivars for phytoremediation of an Oxisol and an Inceptisol. <i>Ecotoxicology and Environmental Safety</i> , 2020, 187, 109857.	2.9	40
166	Using CO ₂ as an Oxidant in the Catalytic Pyrolysis of Peat Moss from the North Polar Region. <i>Environmental Science & Technology</i> , 2020, 54, 6329-6343.	4.6	40
167	Fabricating scalable, personalized wound dressings with customizable drug loadings via 3D printing. <i>Journal of Controlled Release</i> , 2022, 341, 80-94.	4.8	40
168	Pig manure vermicompost (PMVC) can improve phytoremediation of Cd and PAHs co-contaminated soil by <i>Sedum alfredii</i> . <i>Journal of Soils and Sediments</i> , 2012, 12, 1089-1099.	1.5	39
169	Characterization of fava bean (<i>Vicia faba</i> L.) genotypes for phytoremediation of cadmium and lead co-contaminated soils coupled with agro-production. <i>Ecotoxicology and Environmental Safety</i> , 2019, 171, 190-198.	2.9	39
170	Assessment of sunflower germplasm for phytoremediation of lead-polluted soil and production of seed oil and seed meal for human and animal consumption. <i>Journal of Environmental Sciences</i> , 2020, 87, 24-38.	3.2	39
171	A Nylon Membrane Bag Assay for Determination of the Effect of Chemicals on Soilborne Plant Pathogens in Soil. <i>Plant Disease</i> , 2010, 94, 201-206.	0.7	38
172	Dissolved organic matter in relation to nutrients (N and P) and heavy metals in surface runoff water as affected by temporal variation and land uses – A case study from Indian River Area, south Florida, USA. <i>Agricultural Water Management</i> , 2013, 118, 38-49.	2.4	38
173	Isolation and characterization of chromium(VI)-reducing <i>Bacillus</i> sp. FY1 and <i>Arthrobacter</i> sp. WZ2 and their bioremediation potential. <i>Bioremediation Journal</i> , 2017, 21, 100-108.	1.0	38
174	A comparison of PM exposure related to emission hotspots in a hot and humid urban environment: Concentrations, compositions, respiratory deposition, and potential health risks. <i>Science of the Total Environment</i> , 2017, 599-600, 464-473.	3.9	38
175	New insight into the impact of biochar during vermi-stabilization of divergent biowastes: Literature synthesis and research pursuits. <i>Chemosphere</i> , 2020, 238, 124679.	4.2	38
176	Phosphorus Concentrations and Loads in Runoff Water under Crop Production. <i>Soil Science Society of America Journal</i> , 2006, 70, 1807-1816.	1.2	37
177	Long-Term Use of Copper-Containing Fungicide Affects Microbial Properties of Citrus Grove Soils. <i>Soil Science Society of America Journal</i> , 2011, 75, 898-906.	1.2	37
178	Synergetic effects of DA-6/GA 3 with EDTA on plant growth, extraction and detoxification of Cd by <i>Lolium perenne</i> . <i>Chemosphere</i> , 2014, 117, 132-138.	4.2	37
179	Heavy metals in composts of China: historical changes, regional variation, and potential impact on soil quality. <i>Environmental Science and Pollution Research</i> , 2017, 24, 3194-3209.	2.7	37
180	Effective Recovery of Vanadium from Oil Refinery Waste into Vanadium-Based Metal-Organic Frameworks. <i>Environmental Science & Technology</i> , 2018, 52, 3008-3015.	4.6	37

#	ARTICLE	IF	CITATIONS
181	Use of amendments to reduce leaching loss of phosphorus and other nutrients from a sandy soil in Florida. <i>Environmental Science and Pollution Research</i> , 2007, 14, 266-269.	2.7	36
182	The role of bacteria in the heavy metals removal and growth of <i>Sedum alfredii</i> Hance in an aqueous medium. <i>Chemosphere</i> , 2008, 70, 489-494.	4.2	36
183	Impact Assessment of Cadmium Toxicity and Its Bioavailability in Human Cell Lines (Caco-2 and HL-7702). <i>BioMed Research International</i> , 2014, 2014, 1-8.	0.9	36
184	Role of foliar application of 24-epibrassinolide in response of peanut seedlings to iron deficiency. <i>Biologia Plantarum</i> , 2016, 60, 329-342.	1.9	36
185	Mathematical Modelling of Convection Enhanced Delivery of Carmustine and Paclitaxel for Brain Tumour Therapy. <i>Pharmaceutical Research</i> , 2017, 34, 860-873.	1.7	36
186	Sepiolite clay: A review of its applications to immobilize toxic metals in contaminated soils and its implications in soil-plant system. <i>Environmental Technology and Innovation</i> , 2021, 23, 101598.	3.0	36
187	Roles of exogenous plant growth regulators on phytoextraction of Cd/Pb/Zn by <i>Sedum alfredii</i> Hance in contaminated soils. <i>Environmental Pollution</i> , 2022, 293, 118510.	3.7	36
188	Mesoporous Silica-Encaged Ultrafine Bimetallic Nanocatalysts for CO ₂ Hydrogenation to Formates. <i>ChemCatChem</i> , 2019, 11, 5093-5097.	1.8	35
189	Effects of the three dual-fuel strategies on performance and emissions of a biodiesel engine. <i>Applied Energy</i> , 2020, 262, 114542.	5.1	35
190	Effects of Potassium Deficiency on Chloroplast Ultrastructure and Chlorophyll Fluorescence in Inefficient and Efficient Genotypes of Rice. <i>Journal of Plant Nutrition</i> , 2008, 31, 2105-2118.	0.9	34
191	High diversity and differential persistence of fecal Bacteroidales population spiked into freshwater microcosm. <i>Water Research</i> , 2012, 46, 247-257.	5.3	34
192	Fertilization using sewage sludge in unfertile tropical soils increased wood production in Eucalyptus plantations. <i>Journal of Environmental Management</i> , 2017, 203, 51-58.	3.8	34
193	Numerical studies of solid-solid mixing behaviors in a downer reactor for coal pyrolysis. <i>Powder Technology</i> , 2014, 253, 722-732.	2.1	33
194	Biochar for urban agriculture: Impacts on soil chemical characteristics and on <i>Brassica rapa</i> growth, nutrient content and metabolism over multiple growth cycles. <i>Science of the Total Environment</i> , 2020, 727, 138742.	3.9	33
195	Immobilization of copper in contaminated sandy soils using calcium water treatment residue. <i>Journal of Hazardous Materials</i> , 2011, 189, 710-718.	6.5	32
196	Zeolite amendment coupled with alternate wetting and drying to reduce nitrogen loss and enhance rice production. <i>Field Crops Research</i> , 2019, 235, 95-103.	2.3	32
197	Evaluation of Soil Tests for Plant-available Mercury in a Soil-Crop Rotation System. <i>Communications in Soil Science and Plant Analysis</i> , 2008, 39, 3032-3046.	0.6	31
198	An environmental friendly animal waste disposal process with ammonia recovery and energy production: Experimental study and economic analysis. <i>Waste Management</i> , 2017, 68, 636-645.	3.7	31

#	ARTICLE	IF	CITATIONS
199	Endophytic bacterium <i>Buttiauxella</i> sp. SaSR13 improves plant growth and cadmium accumulation of hyperaccumulator <i>Sedum alfredii</i> . <i>Environmental Science and Pollution Research</i> , 2018, 25, 21844-21854.	2.7	31
200	Role of sulfur assimilation pathway in cadmium hyperaccumulation by <i>Sedum alfredii</i> Hance. <i>Ecotoxicology and Environmental Safety</i> , 2014, 100, 159-165.	2.9	30
201	Immobilization and sorption of Cd and Pb in contaminated stagnic anthrosols as amended with biochar and manure combined with inorganic additives. <i>Journal of Environmental Management</i> , 2020, 257, 109999.	3.8	30
202	Study amino acid contents, plant growth variables and cell ultrastructural changes induced by cadmium stress between two contrasting cadmium accumulating cultivars of <i>Brassica rapa</i> ssp. <i>chinensis</i> L. (pak choi). <i>Ecotoxicology and Environmental Safety</i> , 2020, 200, 110748.	2.9	30
203	Comparative assessment of polymeric and other nanoparticles impacts on soil microbial and biochemical properties. <i>Geoderma</i> , 2020, 367, 114278.	2.3	30
204	Synthesis of amphiphilic polysuccinimide star copolymers for responsive delivery in plants. <i>Chemical Communications</i> , 2015, 51, 9694-9697.	2.2	29
205	Co-gasification of sewage sludge and woody biomass in a fixed-bed downdraft gasifier: Toxicity assessment of solid residues. <i>Waste Management</i> , 2015, 36, 241-255.	3.7	29
206	Computational study of core-shell droplet formation in coaxial electrohydrodynamic atomization process. <i>AIChE Journal</i> , 2016, 62, 4259-4276.	1.8	29
207	Bone morphogenetic protein-2 loaded poly(D,L-lactide-co-glycolide) microspheres enhance osteogenic potential of gelatin/hydroxyapatite/β ² -tricalcium phosphate cryogel composite for alveolar ridge augmentation. <i>Journal of the Formosan Medical Association</i> , 2017, 116, 973-981.	0.8	29
208	Bioaugmentation of Exogenous Strain <i>Rhodococcus</i> sp. 2G Can Efficiently Mitigate Di(2-ethylhexyl) Phthalate Contamination to Vegetable Cultivation. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 6940-6949.	2.4	29
209	Identification of wheat (<i>Triticum aestivum</i> L.) genotypes for food safety on two different cadmium contaminated soils. <i>Environmental Science and Pollution Research</i> , 2020, 27, 7943-7956.	2.7	29
210	Foliar application of zinc and selenium alleviates cadmium and lead toxicity of water spinach Bioavailability/cytotoxicity study with human cell lines. <i>Environment International</i> , 2020, 145, 106122.	4.8	29
211	Food waste treating by biochar-assisted high-solid anaerobic digestion coupled with steam gasification: Enhanced bioenergy generation and porous biochar production. <i>Bioresource Technology</i> , 2021, 331, 125051.	4.8	29
212	Variations of cadmium tolerance and accumulation among 39 <i>Salix</i> clones: implications for phytoextraction. <i>Environmental Earth Sciences</i> , 2015, 73, 3263-3274.	1.3	28
213	Fabrication of ultrasound-responsive microbubbles via coaxial electrohydrodynamic atomization for triggered release of tPA. <i>Journal of Colloid and Interface Science</i> , 2017, 501, 282-293.	5.0	28
214	Toxicity assessment of carbon black waste: A by-product from oil refineries. <i>Journal of Hazardous Materials</i> , 2017, 321, 600-610.	6.5	28
215	Ectopic expression of SaNRAMP3 from <i>Sedum alfredii</i> enhanced cadmium root-to-shoot transport in <i>Brassica juncea</i> . <i>Ecotoxicology and Environmental Safety</i> , 2018, 156, 279-286.	2.9	28
216	Production of drug-releasing biodegradable microporous scaffold using a two-step micro-encapsulation/supercritical foaming process. <i>Journal of Supercritical Fluids</i> , 2018, 133, 263-269.	1.6	28

#	ARTICLE	IF	CITATIONS
217	Efficiency of Biodegradable and pH-Responsive Polysuccinimide Nanoparticles (PSI-NPs) as Smart Nanodelivery Systems in Grapefruit: In Vitro Cellular Investigation. <i>Macromolecular Bioscience</i> , 2018, 18, e1800159.	2.1	28
218	Development of Nanoparticles for Drug Delivery to Brain Tumor: The Effect of Surface Materials on Penetration Into Brain Tissue. <i>Journal of Pharmaceutical Sciences</i> , 2019, 108, 1736-1745.	1.6	28
219	Endophytic inoculation coupled with soil amendment and foliar inhibitor ensure phytoremediation and argo-production in cadmium contaminated soil under oilseed rape-rice rotation system. <i>Science of the Total Environment</i> , 2020, 748, 142481.	3.9	28
220	Insights into the binding interaction of substrate with catechol 2,3-dioxygenase from biophysics point of view. <i>Journal of Hazardous Materials</i> , 2020, 391, 122211.	6.5	28
221	Functionalized biochars: Synthesis, characterization, and applications for removing trace elements from water. <i>Journal of Hazardous Materials</i> , 2022, 437, 129337.	6.5	28
222	Microbial activity and community diversity in a variable charge soil as affected by cadmium exposure levels and time. <i>Journal of Zhejiang University: Science B</i> , 2008, 9, 250-260.	1.3	26
223	Hollow chitosan-silica nanospheres for doxorubicin delivery to cancer cells with enhanced antitumor effect in vivo. <i>Journal of Materials Chemistry</i> , 2011, 21, 3147.	6.7	26
224	Nutrients and Nonessential Elements in Soil after 11 Years of Wastewater Irrigation. <i>Journal of Environmental Quality</i> , 2012, 41, 920-927.	1.0	26
225	Moderate phosphorus application enhances Zn mobility and uptake in hyperaccumulator <i>Sedum alfredii</i> . <i>Environmental Science and Pollution Research</i> , 2013, 20, 2844-2853.	2.7	26
226	Non-labile phosphorus acquisition by <i>Brachiaria</i> . <i>Journal of Plant Nutrition</i> , 2016, 39, 1319-1327.	0.9	26
227	Spatial-temporal variations of dissolved organic nitrogen molecular composition in agricultural runoff water. <i>Water Research</i> , 2018, 137, 375-383.	5.3	26
228	Assessing the immobilization efficiency of organic and inorganic amendments for cadmium phytoavailability to wheat. <i>Journal of Soils and Sediments</i> , 2019, 19, 3708-3717.	1.5	26
229	Impacts of biochar concentration on the growth performance of a leafy vegetable in a tropical city and its global warming potential. <i>Journal of Cleaner Production</i> , 2020, 264, 121678.	4.6	26
230	Interactive assessment of lignite and bamboo-biochar for geochemical speciation, modulation and uptake of Cu and other heavy metals in the copper mine tailing. <i>Science of the Total Environment</i> , 2021, 779, 146536.	3.9	26
231	Spatial and temporal variations of water quality in drainage ditches within vegetable farms and citrus groves. <i>Agricultural Water Management</i> , 2004, 65, 39-57.	2.4	25
232	Pneumatic Transport of Granular Materials in an Inclined Conveying Pipe: A Comparison of Computational Fluid Dynamics-Discrete Element Method (CFD-DEM), Electrical Capacitance Tomography (ECT), and Particle Image Velocimetry (PIV) Results. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 6066-6083.	1.8	25
233	Survival of <i>Escherichia coli</i> in soil with modified microbial community composition. <i>Soil Biology and Biochemistry</i> , 2011, 43, 1591-1599.	4.2	25
234	Heart developmental toxicity by carbon black waste generated from oil refinery on zebrafish embryos (<i>Danio rerio</i>): Combined toxicity on heart function by nickel and vanadium. <i>Journal of Hazardous Materials</i> , 2019, 363, 127-137.	6.5	25

#	ARTICLE	IF	CITATIONS
235	Seawater intrusion impacts on groundwater and soil quality in the northern part of the Nile Delta, Egypt. <i>Environmental Earth Sciences</i> , 2020, 79, 1.	1.3	25
236	Hydrothermal conversion of Cd/Zn hyperaccumulator (<i>Sedum alfredii</i>) for heavy metal separation and hydrochar production. <i>Journal of Hazardous Materials</i> , 2022, 423, 127122.	6.5	25
237	Inhibition of the bioavailability of heavy metals in sewage sludge biochar by adding two stabilizers. <i>PLoS ONE</i> , 2017, 12, e0183617.	1.1	25
238	Evaluation of soil amendments as a remediation alternative for cadmium-contaminated soils under cacao plantations. <i>Environmental Science and Pollution Research</i> , 2016, 23, 17571-17580.	2.7	24
239	Experimental and modeling investigation of an integrated biomass gasifier“engine”generator system for power generation and waste heat recovery. <i>Energy Conversion and Management</i> , 2019, 199, 112023.	4.4	24
240	Effects of sewage sludge application on unfertile tropical soils evaluated by multiple approaches: A field experiment in a commercial Eucalyptus plantation. <i>Science of the Total Environment</i> , 2019, 655, 1457-1467.	3.9	24
241	Mechanisms of water regime effects on uptake of cadmium and nitrate by two ecotypes of water spinach (<i>Ipomoea aquatica</i> Forsk.) in contaminated soil. <i>Chemosphere</i> , 2020, 246, 125798.	4.2	24
242	Gasification biochar from horticultural waste: An exemplar of the circular economy in Singapore. <i>Science of the Total Environment</i> , 2021, 781, 146573.	3.9	24
243	The Cd phytoextraction potential of hyperaccumulator <i>Sedum alfredii</i> -oilseed rape intercropping system under different soil types and comprehensive benefits evaluation under field conditions. <i>Environmental Pollution</i> , 2021, 285, 117504.	3.7	24
244	Rhizobium rhizogenes-mediated root proliferation in Cd/Zn hyperaccumulator <i>Sedum alfredii</i> and its effects on plant growth promotion, root exudates and metal uptake efficiency. <i>Journal of Hazardous Materials</i> , 2022, 424, 127442.	6.5	24
245	Concentrations and solubility of heavy metals in muck sediments from the St. Lucie Estuary, U.S.A.. <i>Environmental Geology</i> , 2003, 44, 1-7.	1.2	23
246	Electric field controlled electrospray deposition for precise particle pattern and cell pattern formation. <i>AIChE Journal</i> , 2010, 56, 2607-2621.	1.8	23
247	Model for Evaluation of the Phytoavailability of Chromium (Cr) to Rice (<i>Oryza sativa</i> L.) in Representative Chinese Soils. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 2925-2932.	2.4	23
248	Diversity, abundance and community structure of ammonia-oxidizing archaea and bacteria in riparian sediment of Zhenjiang ancient canal. <i>Ecological Engineering</i> , 2016, 90, 447-458.	1.6	23
249	Characterization of Antibiotics and Antibiotic Resistance Genes on an Ecological Farm System. <i>Journal of Chemistry</i> , 2015, 2015, 1-8.	0.9	22
250	Coaxial electrohydrodynamic atomization toward large scale production of core-shell structured microparticles. <i>AIChE Journal</i> , 2017, 63, 5303-5319.	1.8	22
251	Electrical Field Guided Electrospray Deposition for Production of Gradient Particle Patterns. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 18499-18506.	4.0	22
252	Coconut shell derived biochar to enhance water spinach (<i>Ipomoea aquatica</i> Forsk) growth and decrease nitrogen loss under tropical conditions. <i>Scientific Reports</i> , 2019, 9, 20291.	1.6	22

#	ARTICLE	IF	CITATIONS
253	Activated dolomite phosphate rock fertilizers to reduce leaching of phosphorus and trace metals as compared to superphosphate. <i>Journal of Environmental Management</i> , 2020, 255, 109872.	3.8	22
254	Adsorption-Degradation of Polycyclic Aromatic Hydrocarbons in Soil by Immobilized Mixed Bacteria and Its Effect on Microbial Communities. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 14907-14916.	2.4	22
255	Zeolite-Encaged Pd-Mn Nanocatalysts for CO ₂ Hydrogenation and Formic Acid Dehydrogenation. <i>Angewandte Chemie</i> , 2020, 132, 20358-20366.	1.6	22
256	Insight into the Fe ₂ O ₃ /CaO-based chemical looping process for biomass conversion. <i>Bioresource Technology</i> , 2020, 310, 123384.	4.8	22
257	Zeolite amendment enhances rice production, nitrogen accumulation and translocation in wetting and drying irrigation paddy field. <i>Agricultural Water Management</i> , 2020, 235, 106126.	2.4	22
258	A field study reveals links between hyperaccumulating <i>Sedum</i> plants-associated bacterial communities and Cd/Zn uptake and translocation. <i>Science of the Total Environment</i> , 2022, 805, 150400.	3.9	22
259	Enhanced penetration of pro-apoptotic and anti-angiogenic micellar nanoprobe in 3D multicellular spheroids for chemophototherapy. <i>Journal of Controlled Release</i> , 2020, 323, 502-518.	4.8	22
260	LEACHING BEHAVIOR OF PHOSPHORUS IN SANDY SOILS AMENDED WITH ORGANIC MATERIAL. <i>Soil Science</i> , 2008, 173, 257-266.	0.9	21
261	Effect of humic acid amendment on cadmium bioavailability and accumulation by pak choi (<i>Brassica</i>) Tj ETQq1 1 0.784314 rgBT /Over 1431-1442.	1.3	21
262	Soil microbial communities under cacao agroforestry and cover crop systems in Peru. <i>Applied Soil Ecology</i> , 2017, 120, 273-280.	2.1	21
263	Metagenomic comparison of structure and function of microbial community between water, effluent and shrimp intestine of higher place <i>Litopenaeus vannamei</i> ponds. <i>Journal of Applied Microbiology</i> , 2020, 129, 243-255.	1.4	21
264	Double-edged effects of polyvinyl chloride addition on heavy metal separation and biochar production during pyrolysis of Cd/Zn hyperaccumulator. <i>Journal of Hazardous Materials</i> , 2021, 416, 125793.	6.5	21
265	Nitrogen versus phosphorus limitation of phytoplankton growth in Ten Mile Creek, Florida, USA. <i>Hydrobiologia</i> , 2008, 605, 247-258.	1.0	20
266	Organic Amendment Effects on the Transformation and Fractionation of Aluminum in Acidic Sandy Soil. <i>Communications in Soil Science and Plant Analysis</i> , 2008, 39, 2678-2694.	0.6	20
267	Effect of probiotics on alkaline phosphatase activity and nutrient level in sediment of shrimp, <i>Penaeus vannamei</i> , ponds. <i>Aquaculture</i> , 2009, 287, 94-97.	1.7	20
268	Codelivery of anti-cancer agents via double-walled polymeric microparticles/injectable hydrogel: A promising approach for treatment of triple negative breast cancer. <i>Biotechnology and Bioengineering</i> , 2017, 114, 2931-2946.	1.7	20
269	Nitrogen Removal and Energy Recovery from Sewage Sludge by Combined Hydrothermal Pretreatment and CO ₂ Gasification. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 16629-16636.	3.2	20
270	Three-stage anaerobic co-digestion of food waste and waste activated sludge: Identifying bacterial and methanogenic archaeal communities and their correlations with performance parameters. <i>Bioresource Technology</i> , 2019, 285, 121333.	4.8	20

#	ARTICLE	IF	CITATIONS
271	Interactions between cadmium and zinc in uptake, accumulation and bioavailability for <i>Salix integra</i> with respect to phytoremediation. <i>International Journal of Phytoremediation</i> , 2020, 22, 628-637.	1.7	20
272	Possibility of removing cadmium pollution from the environment using a newly synthesized material coal fly ash. <i>Environmental Science and Pollution Research</i> , 2020, 27, 4997-5008.	2.7	20
273	A factorial experimental analysis of using wood fly ash as an alkaline activator along with coal fly ash for production of geopolymer-cementitious hybrids. <i>Science of the Total Environment</i> , 2020, 718, 135289.	3.9	20
274	A comparative study of root cadmium radial transport in seedlings of two wheat (<i>Triticum aestivum</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.7	20
275	Temporal and spatial variations of nutrients in the Ten Mile Creek of South Florida, USA and effects on phytoplankton biomass. <i>Journal of Environmental Monitoring</i> , 2008, 10, 508.	2.1	19
276	Effect of elevated CO ₂ concentration on photosynthetic characteristics of hyperaccumulator <i>Sedum alfredii</i> under cadmium stress. <i>Journal of Integrative Plant Biology</i> , 2015, 57, 653-660.	4.1	19
277	Transcriptome Comparison Reveals the Adaptive Evolution of Two Contrasting Ecotypes of Zn/Cd Hyperaccumulator <i>Sedum alfredii</i> Hance. <i>Frontiers in Plant Science</i> , 2017, 8, 425.	1.7	19
278	A hybrid peripheral fragmentation and shrinking-core model for fixed-bed biomass gasification. <i>Chemical Engineering Journal</i> , 2020, 400, 124940.	6.6	19
279	Incinerated Sewage Sludge Bottom Ash- Chemical processing, Leaching patterns and Toxicity testing. <i>Journal of Hazardous Materials</i> , 2021, 402, 123350.	6.5	19
280	Comparative effectiveness of activated dolomite phosphate rock and biochar for immobilizing cadmium and lead in soils. <i>Chemosphere</i> , 2021, 266, 129202.	4.2	19
281	Folate Content and Composition of Vegetables Commonly Consumed in China. <i>Journal of Food Science</i> , 2012, 77, H239-45.	1.5	18
282	Zinc uptake kinetics in the low and high-affinity systems of two contrasting rice genotypes. <i>Journal of Plant Nutrition and Soil Science</i> , 2014, 177, 412-420.	1.1	18
283	Growth-Promoting Hormone DA-6 Assists Phytoextraction and Detoxification of Cd by Ryegrass. <i>International Journal of Phytoremediation</i> , 2015, 17, 597-603.	1.7	18
284	Phosphorus Availability and Release Pattern from Activated Dolomite Phosphate Rock in Central Florida. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 4589-4596.	2.4	18
285	A rapid method for sensitive profiling of folates from plant leaf by ultra-performance liquid chromatography coupled to tandem quadrupole mass spectrometer. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017, 1040, 169-179.	1.2	18
286	Preparation of tPA-loaded microbubbles as potential theranostic agents: A novel one-step method via coaxial electrohydrodynamic atomization technique. <i>Chemical Engineering Journal</i> , 2017, 307, 168-180.	6.6	18
287	Biomass decaying and elemental release of aquatic macrophyte detritus in waterways of the Indian River Lagoon basin, South Florida, USA. <i>Science of the Total Environment</i> , 2018, 635, 878-891.	3.9	18
288	Particulate emission from the gasification and pyrolysis of biomass: Concentration, size distributions, respiratory deposition-based control measure evaluation. <i>Environmental Pollution</i> , 2018, 242, 1108-1118.	3.7	18

#	ARTICLE	IF	CITATIONS
289	Toxic Metal Pollution and Ecological Risk Assessment in Sediments of Water Reservoirs in Southeast China. <i>Soil and Sediment Contamination</i> , 2019, 28, 695-715.	1.1	18
290	Evaluation of variation in essential nutrients and hazardous materials in spinach (<i>Spinacia oleracea</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Analysis, 2019, 79, 95-106.	1.9	18
291	Cadmium mobility in three contaminated soils amended with different additives as evaluated by dynamic flow-through experiments. <i>Chemosphere</i> , 2020, 261, 127763.	4.2	18
292	Carbon nanoparticles improve corn (<i>Zea mays</i> L.) growth and soil quality: Comparison of foliar spray and soil drench application. <i>Journal of Cleaner Production</i> , 2022, 363, 132630.	4.6	18
293	Temporal and Spatial Variations of Copper, Cadmium, Lead, and Zinc in Ten Mile Creek in South Florida, USA. <i>Water Environment Research</i> , 2009, 81, 40-50.	1.3	17
294	Competitive sorption and desorption of cadmium and lead in paddy soils of eastern China. <i>Environmental Earth Sciences</i> , 2013, 68, 1599-1607.	1.3	17
295	Elevated CO ₂ concentration increase the mobility of Cd and Zn in the rhizosphere of hyperaccumulator <i>Sedum alfredii</i> . <i>Environmental Science and Pollution Research</i> , 2014, 21, 5899-5908.	2.7	17
296	Tetracycline uptake by pak choi grown on contaminated soils and its toxicity in human liver cell line HL-7702. <i>Environmental Pollution</i> , 2019, 253, 312-321.	3.7	17
297	Magnetic and microwave-absorbing properties of SrAl ₄ Fe ₈ O ₁₉ powders synthesized by coprecipitation and citric- combustion methods. <i>Bulletin of Materials Science</i> , 2011, 34, 463-468.	0.8	16
298	Impacts of calcium water treatment residue on the soil-water-plant system in citrus production. <i>Plant and Soil</i> , 2014, 374, 993-1004.	1.8	16
299	Effects of GA ₃ on Plant Physiological Properties, Extraction, Subcellular Distribution and Chemical Forms of Pb in <i>Lolium perenne</i> . <i>International Journal of Phytoremediation</i> , 2015, 17, 1153-1159.	1.7	16
300	Rapid toxicity screening of gasification ashes. <i>Waste Management</i> , 2016, 50, 93-104.	3.7	16
301	Role of Exogenous Nitric Oxide in Alleviating Iron Deficiency Stress of Peanut Seedlings (<i>Arachis</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 16	2.8	16
302	Investigation of granular surface roughness effect on electrostatic charge generation. <i>Advanced Powder Technology</i> , 2017, 28, 2003-2014.	2.0	16
303	Remediation effectiveness of vermicompost for a potentially toxic metal-contaminated tropical acidic soil in China. <i>Ecotoxicology and Environmental Safety</i> , 2019, 182, 109394.	2.9	16
304	Genotypic variations in zinc accumulation and bioaccessibility among wheat (<i>Triticum aestivum</i> L.) genotypes under two different field conditions. <i>Journal of Cereal Science</i> , 2020, 93, 102953.	1.8	16
305	Arsenic and mercury uptake and accumulation in oilseed sunflower accessions selected to mitigate co-contaminated soil coupled with oil and bioenergy production. <i>Journal of Cleaner Production</i> , 2021, 291, 125226.	4.6	16
306	Emerging pharmaceutical and organic contaminants removal using carbonaceous waste from oil refineries. <i>Chemosphere</i> , 2021, 271, 129542.	4.2	16

#	ARTICLE	IF	CITATIONS
307	Surface Runoff Losses of Copper and Zinc in Sandy Soils. <i>Journal of Environmental Quality</i> , 2003, 32, 909.	1.0	16
308	Accumulation of Chromium in Pak Choi (<i>Brassica chinensis</i> L.) Grown on Representative Chinese Soils. <i>Journal of Environmental Quality</i> , 2013, 42, 758-765.	1.0	15
309	Characteristics and mechanisms of acrylate polymer damage to maize seedlings. <i>Ecotoxicology and Environmental Safety</i> , 2016, 129, 228-234.	2.9	15
310	Adsorption of Cd and Pb in contaminated gleysol by composite treatment of sepiolite, organic manure and lime in field and batch experiments. <i>Ecotoxicology and Environmental Safety</i> , 2020, 196, 110539.	2.9	15
311	A phytoremediation coupled with agro-production mode suppresses Fusarium wilt disease and alleviates cadmium phytotoxicity of cucumber (<i>Cucumis sativus</i> L.) in continuous cropping greenhouse soil. <i>Chemosphere</i> , 2021, 270, 128634.	4.2	15
312	Spatial variation and fractionation of fluoride in tobacco-planted soils and leaf fluoride concentration in tobacco in Bijie City, Southwest China. <i>Environmental Science and Pollution Research</i> , 2021, 28, 26112-26123.	2.7	15
313	Association of Soil Aggregation with the Distribution and Quality of Organic Carbon in Soil along an Elevation Gradient on Wuyi Mountain in China. <i>PLoS ONE</i> , 2016, 11, e0150898.	1.1	15
314	Sustainable and Highly Efficient Recycling of Plastic Waste into Syngas via a Chemical Looping Scheme. <i>Environmental Science & Technology</i> , 2022, 56, 8953-8963.	4.6	15
315	Particle image velocimetry study on the pattern formation in a vertically vibrated granular bed. <i>Physics of Fluids</i> , 2003, 15, 3718-3729.	1.6	14
316	Dolomite Phosphate Rock-Based Slow-Release Fertilizer for Agriculture and Landscapes. <i>Communications in Soil Science and Plant Analysis</i> , 2012, 43, 1344-1362.	0.6	14
317	Chromium-Resistant Bacteria Promote the Reduction of Hexavalent Chromium in Soils. <i>Journal of Environmental Quality</i> , 2014, 43, 507-516.	1.0	14
318	Spatial and temporal variation of nitrogen concentration and speciation in runoff and storm water in the Indian River watershed, South Florida. <i>Environmental Science and Pollution Research</i> , 2016, 23, 19561-19569.	2.7	14
319	Effects of CO ₂ application coupled with endophyte inoculation on rhizosphere characteristics and cadmium uptake by <i>Sedum alfredii</i> Hance in response to cadmium stress. <i>Journal of Environmental Management</i> , 2019, 239, 287-298.	3.8	14
320	Differences in uptake and accumulation of copper and zinc by <i>Salix</i> clones under flooded versus non-flooded conditions. <i>Chemosphere</i> , 2020, 241, 125059.	4.2	14
321	The Removal of Antibiotics in Relation to a Microbial Community in an Integrated Constructed Wetland for Tail Water Decontamination. <i>Wetlands</i> , 2020, 40, 993-1004.	0.7	14
322	Plastic-containing food waste conversion to biomethane, syngas, and biochar via anaerobic digestion and gasification: Focusing on reactor performance, microbial community analysis, and energy balance assessment. <i>Journal of Environmental Management</i> , 2022, 306, 114471.	3.8	14
323	Characterization of Taylor vortex flow in a short liquid column. <i>AIChE Journal</i> , 2009, 55, 3056-3065.	1.8	13
324	Calcium water treatment residue reduces copper phytotoxicity in contaminated sandy soils. <i>Journal of Hazardous Materials</i> , 2012, 199-200, 375-382.	6.5	13

#	ARTICLE	IF	CITATIONS
325	Phosphorus budget and land use relationships for the Lake Okeechobee Watershed, Florida. <i>Ecological Engineering</i> , 2014, 64, 325-336.	1.6	13
326	Distribution characteristics of ammonia oxidizing microorganisms in rhizosphere sediments of cattail. <i>Ecological Engineering</i> , 2016, 88, 99-111.	1.6	13
327	Differences in Root Physiological and Proteomic Responses to Dibutyl Phthalate Exposure between Low- and High-DBP-Accumulation Cultivars of <i>Brassica parachinensis</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 13541-13551.	2.4	13
328	Chromosome doubling of <i>Sedum alfredii</i> Hance: A novel approach for improving phytoremediation efficiency. <i>Journal of Environmental Sciences</i> , 2019, 86, 87-96.	3.2	13
329	Preincubation and vermicomposting of divergent biosolids exhibit vice versa multielements stoichiometry and earthworm physiology. <i>Journal of Environmental Management</i> , 2019, 243, 144-156.	3.8	13
330	Accumulation and distribution of cadmium and lead in 28 oilseed rape cultivars grown in a contaminated field. <i>Environmental Science and Pollution Research</i> , 2020, 27, 2400-2411.	2.7	13
331	Effect of supplementing hydroxy selenomethionine on meat quality of yellow feather broiler. <i>Poultry Science</i> , 2021, 100, 101389.	1.5	13
332	Superhydrophobic leached carbon Black/Poly(vinyl) alcohol aerogel for selective removal of oils and organic compounds from water. <i>Chemosphere</i> , 2022, 286, 131520.	4.2	13
333	Interactive Online Tools for Teaching Plant Identification. <i>HortTechnology</i> , 2011, 21, 504-508.	0.5	13
334	Copper stress alleviation in corn (<i>Zea mays</i> L.): Comparative efficiency of carbon nanotubes and carbon nanoparticles. <i>NanoImpact</i> , 2022, 25, 100381.	2.4	13
335	Adsorption-Desorption Characteristics of Mercury in Paddy Soils of China. <i>Journal of Environmental Quality</i> , 2008, 37, 680-688.	1.0	12
336	Nicotianamine Synthase Gene 1 from the hyperaccumulator <i>Sedum alfredii</i> Hance is associated with Cd/Zn tolerance and accumulation in plants. <i>Plant and Soil</i> , 2019, 443, 413-427.	1.8	12
337	Localized Delivery of Pilocarpine to Hypofunctional Salivary Glands through Electrospun Nanofiber Mats: An Ex Vivo and In Vivo Study. <i>International Journal of Molecular Sciences</i> , 2019, 20, 541.	1.8	12
338	A hyperaccumulator plant <i>Sedum alfredii</i> recruits Cd/Zn-tolerant but not Pb-tolerant endospheric bacterial communities from its rhizospheric soil. <i>Plant and Soil</i> , 2020, 455, 257-270.	1.8	12
339	Growth and nutritional responses of wild and domesticated cacao genotypes to soil Cd stress. <i>Science of the Total Environment</i> , 2021, 763, 144021.	3.9	12
340	The Impact of Carbon Dioxide Concentrations and Low to Adequate Photosynthetic Photon Flux Density on Growth, Physiology and Nutrient Use Efficiency of Juvenile Cacao Genotypes. <i>Agronomy</i> , 2021, 11, 397.	1.3	12
341	COVID-19 Crisis: How Can Plant Biotechnology Help?. <i>Plants</i> , 2021, 10, 352.	1.6	12
342	Recycling of sugar crop disposal to boost the adaptation of canola (<i>Brassica napus</i> L.) to abiotic stress through different climate zones. <i>Journal of Environmental Management</i> , 2021, 281, 111881.	3.8	12

#	ARTICLE	IF	CITATIONS
343	Convection enhanced delivery of light responsive antigen capturing oxygen generators for chemo-phototherapy triggered adaptive immunity. <i>Biomaterials</i> , 2021, 275, 120974.	5.7	12
344	Large eddy simulation of electrostatic effect on particle transport in particle-laden turbulent pipe flows. <i>Journal of Electrostatics</i> , 2021, 109, 103542.	1.0	12
345	3D Printing Methyl Cellulose Hydrogel Wound Dressings with Parameter Exploration Via Computational Fluid Dynamics Simulation. <i>Pharmaceutical Research</i> , 2022, 39, 281-294.	1.7	12
346	Soil fungal communities affect the chemical quality of flue-cured tobacco leaves in Bijie, Southwest China. <i>Scientific Reports</i> , 2022, 12, 2815.	1.6	12
347	Wave Breaking Induced by Opposing Currents in Submerged Vegetation Canopies. <i>Water Resources Research</i> , 2022, 58, .	1.7	12
348	INCREASING NUTRIENT UTILIZATION AND CROP PRODUCTION IN THE RED SOIL REGIONS OF CHINA. <i>Communications in Soil Science and Plant Analysis</i> , 2001, 32, 1251-1263.	0.6	11
349	Diffusion Modeling of Bulk Granular Attrition. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 2077-2083.	1.8	11
350	Numerical Study on Coal Gasification in the Downer Reactor of a Triple-Bed Combined Circulating Fluidized Bed. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 6624-6635.	1.8	11
351	Investigation on Electrostatic Charging and Its Effect on Mixing of Binary Particles in a Vibrating Bed. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 14166-14174.	1.8	11
352	In Vitro Assessment of Cadmium Bioavailability in Chinese Cabbage Grown on Different Soils and Its Toxic Effects on Human Health. <i>BioMed Research International</i> , 2015, 2015, 1-12.	0.9	11
353	Composted Sewage Sludge Enhances Soybean Production and Agronomic Performance in Naturally Infertile Soils (Cerrado Region, Brazil). <i>Agronomy</i> , 2020, 10, 1677.	1.3	11
354	Dolomite phosphate rock (DPR) application in acidic sandy soil in reducing leaching of phosphorus and heavy metals—a column leaching study. <i>Environmental Science and Pollution Research</i> , 2013, 20, 3843-3851.	2.7	10
355	Spatiotemporal change of phosphorous speciation and concentration in stormwater in the St. Lucie Estuary watershed, South Florida. <i>Chemosphere</i> , 2017, 172, 488-495.	4.2	10
356	Chromium removal capability and photosynthetic characteristics of <i>Cyperus alternifolius</i> and <i>Coix lacryma-jobi</i> L. in vertical flow constructed wetland treated with hexavalent chromium bearing domestic sewage. <i>Water Science and Technology</i> , 2017, 76, 2203-2212.	1.2	10
357	Cadmium Accumulation and Tolerance in Seven Ornamental Willow Genotypes. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2018, 101, 644-650.	1.3	10
358	Effects of CO ₂ application and endophytic bacterial inoculation on morphological properties, photosynthetic characteristics and cadmium uptake of two ecotypes of <i>Sedum alfredii</i> Hance. <i>Environmental Science and Pollution Research</i> , 2019, 26, 1809-1820.	2.7	10
359	Influences of edaphoclimatic conditions on deep rooting and soil water availability in Brazilian Eucalyptus plantations. <i>Forest Ecology and Management</i> , 2020, 455, 117673.	1.4	10
360	Sewage Sludge Application in Eucalyptus urograndis Plantation: Availability of Phosphorus in Soil and Wood Production. <i>Frontiers in Environmental Science</i> , 2020, 8, .	1.5	10

#	ARTICLE	IF	CITATIONS
361	Experimental investigation of pressure fluctuation propagation in two orthogonal directions using a clapboard-type internally circulating fluidized bed. <i>Advanced Powder Technology</i> , 2020, 31, 3395-3407.	2.0	10
362	Controlled Block Polypeptide Composed of α -Type Amino Acids: A Therapeutics Delivery Platform to Inhibit Biofilm Formation of Drug-Resistant Bacteria. <i>ACS Applied Bio Materials</i> , 2020, 3, 6343-6350.	2.3	10
363	Light Intensity Effects on the Growth, Physiological and Nutritional Parameters of Tropical Perennial Legume Cover Crops. <i>Agronomy</i> , 2020, 10, 1515.	1.3	10
364	Optimization of operation strategies of a syngas-fueled engine in a distributed gasifier-generator system driven by horticulture waste. <i>Energy Conversion and Management</i> , 2020, 208, 112580.	4.4	10
365	Adsorption behavior of phenanthrene in soil amended with modified loofah sponge. <i>Journal of Cleaner Production</i> , 2021, 298, 126845.	4.6	10
366	The impact of heavy metal contamination on soil health. <i>Burleigh Dodds Series in Agricultural Science</i> , 2018, , 63-96.	0.1	10
367	Organic/inorganic amendments for the remediation of a red paddy soil artificially contaminated with different cadmium levels: Leaching, speciation, and phytoavailability tests. <i>Journal of Environmental Management</i> , 2022, 303, 114148.	3.8	10
368	Leaching Behavior of Heavy Metals In Biosolids Amended Sandy Soils. <i>Compost Science and Utilization</i> , 2008, 16, 144-151.	1.2	9
369	Droplet behavior in a Taylor vortex. <i>International Journal of Multiphase Flow</i> , 2014, 67, 132-139.	1.6	9
370	Mechanisms of Exogenous Nitric Oxide and 24-Epibrassinolide Alleviating Chlorosis of Peanut Plants Under Iron Deficiency. <i>Pedosphere</i> , 2018, 28, 926-942.	2.1	9
371	Formyl tetrahydrofolate deformylase affects hydrogen peroxide accumulation and leaf senescence by regulating the folate status and redox homeostasis in rice. <i>Science China Life Sciences</i> , 2021, 64, 720-738.	2.3	9
372	Ameliorative Effect of Silicic Acid and Silicates on Oxidative, Osmotic Stress, and Specific Ion Toxicity in Spring Wheat (<i>Triticum aestivum</i> L.) Genotypes. <i>Journal of Soil Science and Plant Nutrition</i> , 2022, 22, 2334-2345.	1.7	9
373	Microbial succession analysis reveals the significance of restoring functional microorganisms during rescue of failed anaerobic digesters by bioaugmentation of nano-biochar-amended digestate. <i>Bioresource Technology</i> , 2022, 352, 127102.	4.8	9
374	Experimental Studies of Hydrodynamics and Regime Transition in Bubble Columns. <i>Canadian Journal of Chemical Engineering</i> , 2006, 84, 63-72.	0.9	8
375	Speciation of Aluminum in Solution of an Acidic Sandy Soil Amended with Organic Composts. <i>Communications in Soil Science and Plant Analysis</i> , 2009, 40, 2094-2110.	0.6	8
376	Computational and experimental studies of electrohydrodynamic atomization for pharmaceutical particle fabrication. <i>AIChE Journal</i> , 2012, 58, 3329-3340.	1.8	8
377	Particulate copper in soils and surface runoff from contaminated sandy soils under citrus production. <i>Environmental Science and Pollution Research</i> , 2013, 20, 8801-8812.	2.7	8
378	A Dual Tracer 18F-FCH/18F-FDG PET Imaging of an Orthotopic Brain Tumor Xenograft Model. <i>PLoS ONE</i> , 2016, 11, e0148123.	1.1	8

#	ARTICLE	IF	CITATIONS
379	An Exogenous Source of Nitric Oxide Modulates Iron Nutritional Status in Peanut Seedlings (<i>Arachis</i>) Tj ETQq1 1 0.784314 rgBT /Over	2.8	8
380	Genetic and physiological regulation of folate in pak choi (<i>Brassica rapa</i> subsp. <i>Chinensis</i>) germplasm. <i>Journal of Experimental Botany</i> , 2020, 71, 4914-4929.	2.4	8
381	Characterization of granular electrostatics generation. <i>Powder Technology</i> , 2020, 363, 74-85.	2.1	8
382	Syntrophic interactions in anaerobic digestion: how biochar properties affect them?. <i>Sustainable Environment</i> , 2021, 7, .	1.2	8
383	Phytoavailability, translocation and soil thresholds derivation of cadmium for food safety through soil-wheat (<i>Triticum aestivum</i> L.) system. <i>Environmental Science and Pollution Research</i> , 2021, 28, 37716-37726.	2.7	8
384	Succession Pattern in Soil Micro-Ecology Under Tobacco (<i>Nicotiana tabacum</i> L.) Continuous Cropping Circumstances in Yunnan Province of Southwest China. <i>Frontiers in Microbiology</i> , 2021, 12, 785110.	1.5	8
385	Sewage sludge ash-based mortar as construction material: Mechanical studies, macrofouling, and marine toxicity. <i>Science of the Total Environment</i> , 2022, 824, 153768.	3.9	8
386	Hydrothermal Treatment of the Pristine and Contaminated Cd/Zn Hyperaccumulators for Bio-Oil Production and Heavy Metal Separation. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 603-612.	3.2	8
387	Effect of phosphate on the sorption, desorption and plant-availability of selenium in soil. <i>Fertilizer Research</i> , 1994, 39, 189-197.	0.5	7
388	Production of PEX protein from QM7 cells cultured in polymer scaffolds in a Taylorâ€“Couette bioreactor. <i>Biochemical Engineering Journal</i> , 2014, 88, 179-187.	1.8	7
389	Particle motion in a Taylor vortex. <i>International Journal of Multiphase Flow</i> , 2015, 77, 120-130.	1.6	7
390	Variation of tolerance and accumulation to excess iron in 24 willow clones: Implications for phytoextraction. <i>International Journal of Phytoremediation</i> , 2018, 20, 1284-1291.	1.7	7
391	Short Rotation Eucalypts: Opportunities for Biochar. <i>Forests</i> , 2019, 10, 314.	0.9	7
392	Release of Heavy Metals from Dolomite Phosphate Rock after Activation with Organic Agent. <i>Journal of Environmental Quality</i> , 2019, 48, 694-700.	1.0	7
393	Interaction of <i>Lolium perenne</i> and <i>Hyphomicrobium</i> sp. GHH enhances the removal of 17 β -ethinyestradiol (EE2) from soil. <i>Journal of Soils and Sediments</i> , 2019, 19, 1297-1305.	1.5	7
394	Forest Trees for Biochar and Carbon Sequestration: Production and Benefits. , 0, , .		7
395	Variations in phytoremediation potential and phytoavailability of heavy metals in different <i>Salix</i> genotypes subjected to seasonal flooding. <i>Journal of Environmental Management</i> , 2021, 299, 113632.	3.8	7
396	Effects of nitric oxide on zinc tolerance of the submerged macrophyte <i>Hydrilla verticillata</i> . <i>Aquatic Biology</i> , 2014, 23, 61-69.	0.5	7

#	ARTICLE	IF	CITATIONS
397	Ambient and Elevated Carbon Dioxide on Growth, Physiological and Nutrient Uptake Parameters of Perennial Leguminous Cover Crops under Low Light Intensities. <i>International Journal of Plant & Soil Science</i> , 2017, 15, 1-16.	0.2	7
398	Effect of elevated CO ₂ on tropical soda apple and its biological control agent <i>Gratiana boliviana</i> (Coleoptera: Chrysomelidae). <i>Biocontrol Science and Technology</i> , 2012, 22, 763-776.	0.5	6
399	A new method for separation, characterization, and quantification of natural nanoparticles from soils. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	6
400	Variations of growth, nitrogen accumulation and nitrogen use efficiency among 18 willow clones under two nitrogen regimes. <i>Agroforestry Systems</i> , 2015, 89, 67-79.	0.9	6
401	Effect of Biochar Amendment on Bioavailability and Accumulation of Cadmium and Trace Elements in <i>Brassica chinensis</i> L. (Chinese Cabbage). <i>Journal of Agricultural Science</i> , 2016, 8, 23.	0.1	6
402	Effect of lead on plant availability of phosphorus and potassium in a vegetable-soil system. <i>Environmental Science and Pollution Research</i> , 2018, 25, 34793-34797.	2.7	6
403	Economic production of monoclinic bismuth vanadate from waste vanadium ions: Process design and cost-benefit analysis. <i>Journal of Cleaner Production</i> , 2019, 240, 118188.	4.6	6
404	Phosphate Removal from Secondary Effluents Using Coal Gangue Loaded with Zirconium Oxide. <i>Sustainability</i> , 2019, 11, 2453.	1.6	6
405	Biomass decay rate and influencing factors of four submerged aquatic vegetation in Everglades wetland. <i>International Journal of Phytoremediation</i> , 2020, 22, 963-971.	1.7	6
406	Effects of Zeolitic Urea on Nitrogen Leaching (NH ₄ -N and NO ₃ -N) and Volatilization (NH ₃) in Spodosols and Alfisols. <i>Water (Switzerland)</i> , 2021, 13, 1921.	1.2	6
407	Toxicity effects of size fractions of incinerated sewage sludge bottom ash on human cell lines. <i>Environment International</i> , 2022, 158, 106881.	4.8	6
408	Transport and retention of polymeric and other engineered nanoparticles in porous media. <i>NanoImpact</i> , 2021, 24, 100361.	2.4	6
409	Composted Sewage Sludge Application Reduces Mineral Fertilization Requirements and Improves Soil Fertility in Sugarcane Seedling Nurseries. <i>Sustainability</i> , 2022, 14, 4684.	1.6	6
410	Electrostatic effects on inertial particle transport in bifurcated tubes. <i>AIChE Journal</i> , 2009, 55, 1390-1401.	1.8	5
411	Control and enhancement of permselectivity of membrane-based microcapsules for favorable biomolecular transport and immunoisolation. <i>AIChE Journal</i> , 2011, 57, 3052-3062.	1.8	5
412	Dissolved Organic Carbon in Association with Water Soluble Nutrients and Metals in Soils from Lake Okeechobee Watershed, South Florida. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 4075-4088.	1.1	5
413	Toward Understanding Drug Release From Biodegradable Polymer Microspheres of Different Erosion Kinetics Modes. <i>Journal of Pharmaceutical Sciences</i> , 2016, 105, 1934-1946.	1.6	5
414	Effects of a New-Type Cleaning Agent and a Plant Growth Regulator on Phytoextraction of Cadmium from a Contaminated Soil. <i>Pedosphere</i> , 2019, 29, 161-169.	2.1	5

#	ARTICLE	IF	CITATIONS
415	High-Purity V ₂ O ₅ Nanosheets Synthesized from Gasification Waste: Flexible Energy Storage Devices and Environmental Assessment. ACS Sustainable Chemistry and Engineering, 0, ,	3.2	5
416	Flow battery electrolyte from carbon black incineration fly ash: A feasibility study of an environment friendly disposal process. Waste Management, 2021, 133, 28-36.	3.7	5
417	Multi-objective optimization of an integrated biomass waste fixed-bed gasification system for power and biochar co-production. Computers and Chemical Engineering, 2021, 154, 107457.	2.0	5
418	Growth, Physiological and Nutrient Uptake Traits of Crotalaria Cover Crops Influenced by Levels of Carbon Dioxide under Low Light Intensities. International Journal of Plant & Soil Science, 2018, 23, 1-14.	0.2	5
419	Gas-solid reaction induced particle collision and aggregation. Combustion and Flame, 2022, 237, 111885.	2.8	5
420	A biphasic extraction procedure for the simultaneous removal of elemental sulphur and sulphate from soils. Journal of the Science of Food and Agriculture, 1992, 59, 395-400.	1.7	4
421	Cataloging of Cd Allocation in Late Rice Cultivars Grown in Polluted Gleysol: Implications for Selection of Cultivars with Minimal Risk to Human Health. International Journal of Environmental Research and Public Health, 2020, 17, 3632.	1.2	4
422	Impact of Ambient and Elevated [CO ₂] in Low Light Levels on Growth, Physiology and Nutrient Uptake of Tropical Perennial Legume Cover Crops. Plants, 2021, 10, 193.	1.6	4
423	An innovative accelerated carbonation process for treatment of incineration bottom ash and biogas upgrading. Waste Management, 2022, 144, 203-209.	3.7	4
424	Instabilities of granular material undergoing vertical vibrations: a uniformly driven layer. Journal of Fluid Mechanics, 2003, 492, 381-410.	1.4	3
425	Effects of methamidophos and glyphosate on copper sorption-desorption behavior in soils. Science in China Series C: Life Sciences, 2005, 48, 67-75.	1.3	3
426	Partial least squares analysis to describe the interactions between sediment properties and water quality in an agricultural watershed. Journal of Hydrology, 2018, 566, 386-395.	2.3	3
427	Bioavailability and Bioaccessibility of Cd in Low and High Cd Uptake Affinity Cultivars of <i>Brassica rapa</i> ssp. <i>Chinensis</i> L. (Pakchoi) using an In vitro Gastrointestinal and Physiologically-based Extraction Test. Communications in Soil Science and Plant Analysis, 2020, 51, 28-37.	0.6	3
428	Comparative assessment of <i>Brassica pekinensis</i> L. genotypes for phytoavoidance of nitrate, cadmium and lead in multi-pollutant field. International Journal of Phytoremediation, 2020, 22, 972-985.	1.7	3
429	Particle velocity measurement of binary mixtures in the riser of a circulating fluidized bed by the combined use of electrostatic sensing and high-speed imaging. Petroleum Science, 2020, 17, 1159-1170.	2.4	3
430	Carbon Dioxide Concentrations and Light Levels on Growth and Mineral Nutrition of Juvenile Cacao Genotypes. American Journal of Plant Sciences, 2021, 12, 818-839.	0.3	3
431	(180) Postharvest Calcium Chloride Dips of Whole Tomato Fruit Reduce Postharvest Decay under Commercial Conditions. Hortscience: A Publication of the American Society for Horticultural Science, 2006, 41, 1016E-1017.	0.5	3
432	Composted Sewage Sludge Application in a Sugarcane Seedling Nursery: Crop Nutritional Status, Productivity, and Technological Quality Implications. Sustainability, 2022, 14, 4682.	1.6	3

#	ARTICLE	IF	CITATIONS
433	Fluorine in 20 vegetable species and 25 lettuce cultivars grown on a contaminated field adjacent to a brick kiln. <i>Environmental Geochemistry and Health</i> , 2023, 45, 1655-1667.	1.8	3
434	The Synergistic Effect of Biochar-Combined Activated Phosphate Rock Treatments in Typical Vegetables in Tropical Sandy Soil: Results from Nutrition Supply and the Immobilization of Toxic Metals. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 6431.	1.2	3
435	Evaluation of Dolomite Phosphate Rock-Vero Soil Mixtures for Growth of a Horticultural Crop in an Acidic Sandy Soil. <i>Communications in Soil Science and Plant Analysis</i> , 2007, 38, 1605-1617.	0.6	2
436	Particle Attrition Due to Rotary Valve Feeder in a Pneumatic Conveying System: Electrostatics and Mechanical Characteristics. <i>Canadian Journal of Chemical Engineering</i> , 2006, 84, 663-679.	0.9	2
437	Optical transmittance enhancement and bandgap widening of ZnO:Al powders by W codoping. <i>Journal of Materials Science</i> , 2013, 48, 316-321.	1.7	2
438	Iron Sources Effects on Growth, Physiological Parameters and Nutrition of Cacao. <i>Journal of Plant Nutrition</i> , 2015, 38, 1787-1802.	0.9	2
439	Kinetic Modeling of Nitric Oxide Sensitization of <i>n</i> -heptane Auto-ignition and Combustion. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2015, 37, 997-1004.	1.2	2
440	Principles and Technologies of Phytoremediation for Metal-Contaminated Soils: A Review. , 2018, , 279-331.		2
441	Screening of 19 <i>Salix</i> clones in effective phytofiltration potentials of manganese, zinc and copper in pilot-scale wetlands. <i>International Journal of Phytoremediation</i> , 2018, 20, 1275-1283.	1.7	2
442	Application of cold-adaptive <i>Pseudomonas</i> sp. SDR4 and <i>Mortierella alpina</i> JDR7 co-immobilized on maize cob in remediating PAH-contaminated freeze-thawed soil. <i>Environmental Advances</i> , 2021, 4, 100063.	2.2	2
443	Cadmium accumulation in rice straws and derived biochars as affected by metal exposure, soil types and rice genotypes. <i>International Journal of Phytoremediation</i> , 2021, , 1-10.	1.7	2
444	Variability in soil physical-chemical properties along the root-explored profile in deep Oxisols of commercial eucalypt plantations. <i>Forest Ecology and Management</i> , 2021, 494, 119334.	1.4	2
445	Comparing soil-to-plant cadmium (Cd) transfer and potential human intake among rice cultivars with different Cd tolerance levels grown in a tropical contaminated soil. <i>Environmental Monitoring and Assessment</i> , 2022, 194, 20.	1.3	2
446	Nutrients, Osmotic and Oxidative Stress Management in Bread Wheat (<i>Triticum aestivum</i> L.) by Exogenously Applied Silicon Fertilization Under Water Deficit Natural Saline Conditions. <i>Silicon</i> , 2022, 14, 11869-11880.	1.8	2
447	Topological and hydrodynamic analyses of solar thermochemical reactors for aerodynamic-aided window protection. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2022, 16, 1195-1210.	1.5	2
448	3D-Bioprinting and Micro-/Nano-Technology: Emerging Technologies in Biomedical Sciences. <i>Advanced Drug Delivery Reviews</i> , 2018, 132, 1-2.	6.6	1
449	Dynamic modeling with experimental calibration for the syngas production from biomass fixed-bed gasification. <i>AIChE Journal</i> , 2021, 67, e17366.	1.8	1
450	Development of a portable electrical capacitance tomography system. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
451	Iron Translocation in Two Grain Concentration Contrasting Rice (<i>Oryza Sativa</i> L. Indica) Genotypes. <i>Communications in Soil Science and Plant Analysis</i> , 2015, 46, 2258-2273.	0.6	0
452	16th International Phytotechnology Conference. Phytotechnologies for Food Safety and Environmental Health Changsha, China, September 23-27, 2019. <i>International Journal of Phytoremediation</i> , 2020, 22, 896-899.	1.7	0
453	Input parameter tuning of 3D biodiesel engine simulation using parallel surrogate optimization algorithm. <i>Computers and Chemical Engineering</i> , 2021, 145, 107180.	2.0	0
454	Effect of novel Ni2P-loaded catalysts on algal pyrolysis bio-oil. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 151, 111575.	8.2	0
455	Effects of Canopy and Micro-irrigation under the Trees on Spatial Variations of Soil Labile Phosphorus and Metals in a Citrus Grove. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2004, 39, 606-610.	0.5	0
456	Assessment of Indicators in a Human Liver Cell Line HL-7702 for Tetracycline Toxicity in Farm Soil. <i>Agronomy</i> , 2022, 12, 730.	1.3	0
457	Application of biochar for attenuating heavy metals in contaminated soil: potential implications and research gaps. , 2022, , 77-110.		0