Zhenli He

List of Publications by Citations

450 papers	14,082 citations	59 h-index	96 g-index
458 ext. papers	17,587 ext. citations	6.6 avg, IF	7.11 L-index

#	Paper	IF	Citations
450	Molecular mechanisms of heavy metal hyperaccumulation and phytoremediation. *Journal of Trace Elements in Medicine and Biology*, **2005**, 18, 339-53	4.1	351
449	Activated carbon derived from carbon residue from biomass gasification and its application for dye adsorption: Kinetics, isotherms and thermodynamic studies. *Bioresource Technology*, **2016**, 200, 350-9	11	342
448	Microbial Biomass and Community Structure in a Sequence of Soils with Increasing Fertility and Changing Land Use. *Microbial Ecology*, **2000**, 40, 223-237	4.4	331
447	Phytoremediation of heavy metal polluted soils and water: progresses and perspectives. *Journal of Zhejiang University: Science B*, **2008**, 9, 210-20	4.5	322
446	Potential mechanisms of cadmium removal from aqueous solution by Canna indica derived biochar. *Science of the Total Environment*, **2016**, 562, 517-525	10.2	236
445	3D bioprinting of tissues and organs for regenerative medicine. *Advanced Drug Delivery Reviews*, **2018**, 132, 296-332	18.5	232
444	Heavy metal pollution and health risk assessment of agricultural soils in a typical peri-urban area in southeast China. *Journal of Environmental Management*, **2018**, 207, 159-168	7.9	229
443	A critical review on sustainable biochar system through gasification: Energy and environmental applications. *Bioresource Technology*, **2017**, 246, 242-253	11	188
442	Current status of agricultural soil pollution by heavy metals in China: A meta-analysis. *Science of the Total Environment*, **2019**, 651, 3034-3042	10.2	187
441	Electrohydrodynamic atomization: A two-decade effort to produce and process micro-/nanoparticulate materials. *Chemical Engineering Science*, **2015**, 125, 32-57	4.4	181
440	Capacity and mechanisms of ammonium and cadmium sorption on different wetland-plant derived biochars. *Science of the Total Environment*, **2016**, 539, 566-575	10.2	163
439	Valorization of biomass to hydroxymethylfurfural, levulinic acid, and fatty acid methyl ester by heterogeneous catalysts. *Chemical Engineering Journal*, **2017**, 328, 246-273	14.7	156
438	An integrated approach to assess heavy metal source apportionment in peri-urban agricultural soils. *Journal of Hazardous Materials*, **2015**, 299, 540-9	12.8	152
437	Morphological and Physiological Responses of Plants to Cadmium Toxicity: A Review. *Pedosphere*, **2017**, 27, 421-438	5	149
436	An explanation of soil amendments to reduce cadmium phytoavailability and transfer to food chain. *Science of the Total Environment*, **2019**, 660, 80-96	10.2	149
435	Phosphate removal from solution using steel slag through magnetic separation. *Journal of Hazardous Materials*, **2008**, 152, 211-5	12.8	143
434	Drug delivery systems for programmed and on-demand release. *Advanced Drug Delivery Reviews*, **2018**, 132, 104-138	18.5	141

433	The phytoremediation potential of bioenergy crop Ricinus communis for DDTs and cadmium co-contaminated soil. *Bioresource Technology*, **2011**, 102, 11034-8	11	141
432	Cellular sequestration of cadmium in the hyperaccumulator plant species Sedum alfredii. *Plant Physiology*, **2011**, 157, 1914-25	6.6	141
431	Purifying eutrophic river waters with integrated floating island systems. *Ecological Engineering*, **2012**, 40, 53-60	3.9	133
430	Removal of phosphate from aqueous solution using magnesium-alginate/chitosan modified biochar microspheres derived from Thalia dealbata. *Bioresource Technology*, **2016**, 218, 1123-32	11	120
429	Phytoremediation to remove nutrients and improve eutrophic stormwaters using water lettuce (Pistia stratiotes L.). *Environmental Science and Pollution Research*, **2010**, 17, 84-96	5.1	118
428	Zinc compartmentation in root, transport into xylem, and absorption into leaf cells in the hyperaccumulating species of Sedum alfredii Hance. *Planta*, **2006**, 224, 185-95	4.7	116
427	Comparative efficacy of organic and inorganic amendments for cadmium and lead immobilization in contaminated soil under rice-wheat cropping system. *Chemosphere*, **2019**, 214, 259-268	8.4	114
426	Cadmium phytoavailability to rice (Oryza sativa L.) grown in representative Chinese soils. A model to improve soil environmental quality guidelines for food safety. *Ecotoxicology and Environmental Safety*, **2014**, 103, 101-7	7	105
425	Long-term changes in organic carbon and nutrients of an Ultisol under rice cropping in southeast China. *Geoderma*, **2004**, 118, 167-179	6.7	105
424	A modified receptor model for source apportionment of heavy metal pollution in soil. *Journal of Hazardous Materials*, **2018**, 354, 161-169	12.8	102
423	Soil Biogeochemistry, Plant Physiology, and Phytoremediation of Cadmium-Contaminated Soils. *Advances in Agronomy*, **2015**, 135-225	7.7	100
422	Effect of gasification biochar application on soil quality: Trace metal behavior, microbial community, and soil dissolved organic matter. *Journal of Hazardous Materials*, **2019**, 365, 684-694	12.8	100
421	Numerical simulation of deformation/motion of a drop suspended in viscous liquids under influence of steady electric fields. *Physics of Fluids*, **2008**, 20, 113302	4.4	97
420	Co-gasification of woody biomass and sewage sludge in a fixed-bed downdraft gasifier. *AICHE Journal*, **2015**, 61, 2508-2521	3.6	95
419	Electrostatics of the Granular Flow in a Pneumatic Conveying System. *Industrial & Engineering Chemistry Research*, **2004**, 43, 7181-7199	3.9	95
418	Selenate and Nitrate Bioreductions Using Methane as the Electron Donor in a Membrane Biofilm Reactor. *Environmental Science & Technology*, **2016**, 50, 10179-86	10.3	91
417	Concentration of cadmium in cacao beans and its relationship with soil cadmium in southern Ecuador. *Science of the Total Environment*, **2015**, 533, 205-14	10.2	90
416	Effects of zinc and cadmium interactions on root morphology and metal translocation in a hyperaccumulating species under hydroponic conditions. *Journal of Hazardous Materials*, **2009**, 169, 734-41	12.8	90

415	Uptake of cadmium by rice grown on contaminated soils and its bioavailability/toxicity in human cell lines (Caco-2/HL-7702). *Journal of Agricultural and Food Chemistry*, **2015**, 63, 3599-608	5.7	88
414	Calcium protects roots of Sedum alfredii H. against cadmium-induced oxidative stress. *Chemosphere*, **2011**, 84, 63-9	8.4	87
413	Improvement of cadmium uptake and accumulation in Sedum alfredii by endophytic bacteria Sphingomonas SaMR12: effects on plant growth and root exudates. *Chemosphere*, **2014**, 117, 367-73	8.4	83
412	Chemical looping gasification of biomass with Fe2O3/CaO as the oxygen carrier for hydrogen-enriched syngas production. *Chemical Engineering Journal*, **2020**, 379, 122346	14.7	81
411	Comparison of the co-gasification of sewage sludge and food wastes and cost-benefit analysis of gasification- and incineration-based waste treatment schemes. *Bioresource Technology*, **2016**, 218, 595-605	11	80
410	Characterization of bioenergy biochar and its utilization for metal/metalloid immobilization in contaminated soil. *Science of the Total Environment*, **2018**, 640-641, 704-713	10.2	80
409	Root cell wall polysaccharides are involved in cadmium hyperaccumulation in Sedum alfredii. *Plant and Soil*, **2015**, 389, 387-399	4.2	79
408	3D bioprinting of skin tissue: From pre-processing to final product evaluation. *Advanced Drug Delivery Reviews*, **2018**, 132, 270-295	18.5	78
407	Foliage application of selenium and silicon nanoparticles alleviates Cd and Pb toxicity in rice (Oryza sativa L.). *Science of the Total Environment*, **2020**, 712, 136497	10.2	76
406	Uptake and distribution of metals by water lettuce (Pistia stratiotes L.). *Environmental Science and Pollution Research*, **2011**, 18, 978-86	5.1	75
405	Fate of antibiotic resistant cultivable heterotrophic bacteria and antibiotic resistance genes in wastewater treatment processes. *Chemosphere*, **2015**, 135, 138-45	8.4	74
404	Application of electrical capacitance tomography in particulate process measurement □A review. *Advanced Powder Technology*, **2014**, 25, 174-188	4.6	70
403	Efficiency of lime, biochar, Fe containing biochar and composite amendments for Cd and Pb immobilization in a co-contaminated alluvial soil. *Environmental Pollution*, **2020**, 257, 113609	9.3	69
402	Microemulsion synthesis and magnetic properies of BaAl4Fe8O19 powders. *Jom*, **2011**, 63, 34-36	2.1	67
401	Characterization and ecotoxicological investigation of biochar produced via slow pyrolysis: Effect of feedstock composition and pyrolysis conditions. *Journal of Hazardous Materials*, **2019**, 365, 178-185	12.8	66
400	Coaxial electrohydrodynamic atomization: microparticles for drug delivery applications. *Journal of Controlled Release*, **2015**, 205, 70-82	11.7	65
399	Chemical compounds effective against the citrus Huanglongbing bacterium ₱Candidatus Liberibacter asiaticus₱in planta. *Phytopathology*, **2011**, 101, 1097-103	3.8	65
398	Impact of different feedstocks derived biochar amendment with cadmium low uptake affinity cultivar of pak choi (Brassica rapa ssb. chinensis L.) on phytoavoidation of Cd to reduce potential dietary toxicity. *Ecotoxicology and Environmental Safety*, **2017**, 141, 129-138	7	62

397	Anthropogenic mercury emissions from 1980 to 2012 in China. *Environmental Pollution*, **2017**, 226, 230-239	5.5	62
396	Gasification biochar from biowaste (food waste and wood waste) for effective CO adsorption. *Journal of Hazardous Materials*, **2020**, 391, 121147	12.8	62
395	Application of nitric oxide and calcium nitrate enhances tolerance of wheat seedlings to salt stress. *Plant Growth Regulation*, **2015**, 77, 343-356	3.2	60
394	Accumulation properties of cadmium in a selected vegetable-rotation system of southeastern China. *Journal of Agricultural and Food Chemistry*, **2008**, 56, 6382-8	5.7	60
393	Characterization of bacterial community in biofilm and sediments of wetlands dominated by aquatic macrophytes. *Ecological Engineering*, **2016**, 97, 242-250	3.9	60
392	Simultaneous syngas and biochar production during heavy metal separation from Cd/Zn hyperaccumulator (Sedum alfredii) by gasification. *Chemical Engineering Journal*, **2018**, 347, 543-551	14.7	59
391	Biofortification and bioavailability of rice grain zinc as affected by different forms of foliar zinc fertilization. *PLoS ONE*, **2012**, 7, e45428	3.7	59
390	Differential changes in photosynthetic capacity, 77 K chlorophyll fluorescence and chloroplast ultrastructure between Zn-efficient and Zn-inefficient rice genotypes (Oryza sativa) under low zinc stress. *Physiologia Plantarum*, **2008**, 132, 89-101	4.6	58
389	The Effects of the Endophytic Bacterium Sasm05 and IAA on the Plant Growth and Cadmium Uptake of Hance. *Frontiers in Microbiology*, **2017**, 8, 2538	5.7	57
388	Natural Nanoparticles: Implications for Environment and Human Health. *Critical Reviews in Environmental Science and Technology*, **2015**, 45, 861-904	11.1	56
387	Enhanced expression of SaHMA3 plays critical roles in Cd hyperaccumulation and hypertolerance in Cd hyperaccumulator Sedum alfredii Hance. *Planta*, **2016**, 243, 577-89	4.7	56
386	Nutrient removal efficiency and biomass production of different bioenergy plants in hypereutrophic water. *Biomass and Bioenergy*, **2012**, 42, 212-218	5.3	56
385	Co-gasification of woody biomass and chicken manure: Syngas production, biochar reutilization, and cost-benefit analysis. *Energy*, **2017**, 139, 732-742	7.9	56
384	Phytoextraction of metals and rhizoremediation of PAHs in co-contaminated soil by co-planting of Sedum alfredii with ryegrass (Lolium perenne) or castor (Ricinus communis). *International Journal of Phytoremediation*, **2013**, 15, 283-98	3.9	56
383	Immobilization of cadmium and lead in contaminated paddy field using inorganic and organic additives. *Scientific Reports*, **2018**, 8, 17839	4.9	56
382	Three-stage anaerobic co-digestion of food waste and horse manure. *Scientific Reports*, **2017**, 7, 1269	4.9	55
381	On the association between outdoor PM concentration and the seasonality of tuberculosis for Beijing and Hong Kong. *Environmental Pollution*, **2016**, 218, 1170-1179	9.3	55
380	Accumulation and availability of copper in citrus grove soils as affected by fungicide application. *Journal of Soils and Sediments*, **2011**, 11, 639-648	3.4	53

379	Discrete element simulation for pneumatic conveying of granular material. *AICHE Journal*, **2006**, 52, 496-509	3.6	52
378	Zeolite-Encaged Pd-Mn Nanocatalysts for CO Hydrogenation and Formic Acid Dehydrogenation. *Angewandte Chemie - International Edition*, **2020**, 59, 20183-20191	16.4	52
377	An investigation on utilization of biogas and syngas produced from biomass waste in premixed spark ignition engine. *Applied Energy*, **2018**, 212, 210-222	10.7	51
376	Bioremediation of Cd and carbendazim co-contaminated soil by Cd-hyperaccumulator Sedum alfredii associated with carbendazim-degrading bacterial strains. *Environmental Science and Pollution Research*, **2013**, 20, 380-9	5.1	51
375	Changes of folate and other potential health-promoting phytochemicals in legume seeds as affected by germination. *Journal of Agricultural and Food Chemistry*, **2012**, 60, 9137-43	5.7	51
374	Effects of pH and low molecular weight organic acids on competitive adsorption and desorption of cadmium and lead in paddy soils. *Environmental Monitoring and Assessment*, **2012**, 184, 6325-35	3.1	51
373	Electrical Capacitance Tomography Measurements on the Pneumatic Conveying of Solids. *Industrial & Engineering Chemistry Research*, **2001**, 40, 4216-4226	3.9	51
372	Interactive effects of Cd and PAHs on contaminants removal from co-contaminated soil planted with hyperaccumulator plant Sedum alfredii. *Journal of Soils and Sediments*, **2012**, 12, 556-564	3.4	50
371	CO2 gasification of woody biomass: Experimental study from a lab-scale reactor to a small-scale autothermal gasifier. *Energy*, **2019**, 170, 497-506	7.9	50
370	Distribution, availability and translocation of heavy metals in soil-oilseed rape (Brassica napus L.) system related to soil properties. *Environmental Pollution*, **2019**, 252, 733-741	9.3	49
369	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, 40-8	7.9	49
368	Pyrolysis of wetland biomass waste: Potential for carbon sequestration and water remediation. *Journal of Environmental Management*, **2016**, 173, 95-104	7.9	49
367	On the electrostatic equilibrium of granular flow in pneumatic conveying systems. *AICHE Journal*, **2006**, 52, 3775-3793	3.6	49
366	Impact of mixed land-use practices on the microbial water quality in a subtropical coastal watershed. *Science of the Total Environment*, **2013**, 449, 426-33	10.2	47
365	Iron concentration, bioavailability, and nutritional quality of polished rice affected by different forms of foliar iron fertilizer. *Food Chemistry*, **2013**, 141, 4122-6	8.5	47
364	Organic soil additives for the remediation of cadmium contaminated soils and their impact on the soil-plant system: A review. *Science of the Total Environment*, **2020**, 707, 136121	10.2	47
363	Techno-economic and greenhouse gas savings assessment of decentralized biomass gasification for electrifying the rural areas of Indonesia. *Applied Energy*, **2017**, 208, 495-510	10.7	46
362	Heavy metal phytoextraction by Sedum alfredii is affected by continual clipping and phosphorus fertilization amendment. *Journal of Environmental Sciences*, **2012**, 24, 376-86	6.4	46

361	Elevated CO2 improves root growth and cadmium accumulation in the hyperaccumulator Sedum alfredii. *Plant and Soil*, **2012**, 354, 325-334	4.2	46
360	Coaxial electrohydrodynamic atomization process for production of polymeric composite microspheres. *Chemical Engineering Science*, **2013**, 104, 330-330	4.4	45
359	Model-based downdraft biomass gasifier operation and design for synthetic gas production. *Journal of Cleaner Production*, **2018**, 178, 476-493	10.3	44
358	Release Behavior of Copper and Zinc from Sandy Soils. *Soil Science Society of America Journal*, **2006**, 70, 1699-1707	2.5	44
357	Nitrogen loading affects microbes, nitrifiers and denitrifiers attached to submerged macrophyte in constructed wetlands. *Science of the Total Environment*, **2018**, 622-623, 121-126	10.2	43
356	Synthesis of intracellular reduction-sensitive amphiphilic polyethyleneimine and poly(ε-caprolactone) graft copolymer for on-demand release of doxorubicin and p53 plasmid DNA. *Acta Biomaterialia*, **2016**, 39, 79-93	10.8	43
355	Biochar industry to circular economy. *Science of the Total Environment*, **2021**, 757, 143820	10.2	43
354	Cultivar-specific response of bacterial community to cadmium contamination in the rhizosphere of rice (Oryza sativa L.). *Environmental Pollution*, **2018**, 241, 63-73	9.3	43
353	Energy performance of an integrated bio-and-thermal hybrid system for lignocellulosic biomass waste treatment. *Bioresource Technology*, **2017**, 228, 77-88	11	41
352	Genotypic differences in cadmium and nitrate co-accumulation among the Chinese cabbage genotypes under field conditions. *Scientia Horticulturae*, **2016**, 201, 92-100	4.1	41
351	Inoculation of plant growth promoting bacteria from hyperaccumulator facilitated non-host root development and provided promising agents for elevated phytoremediation efficiency. *Chemosphere*, **2019**, 234, 769-776	8.4	40
350	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. *Bioresource Technology*, **2019**, 288, 121597	11	40
349	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. *Bioresource Technology*, **2020**, 302, 122892	11	40
348	Oxalate secretion from the root apex of Sedum alfredii contributes to hyperaccumulation of Cd. *Plant and Soil*, **2016**, 398, 139-152	4.2	40
347	Chemically treated carbon black waste and its potential applications. *Journal of Hazardous Materials*, **2017**, 321, 62-72	12.8	40
346	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, 168-77	7.9	40
345	Microbial utilization and transformation of phosphate adsorbed by variable charge minerals. *Soil Biology and Biochemistry*, **1998**, 30, 917-923	7.5	40
344	Spatial imaging and speciation of Cu in rice (Oryza sativa L.) roots using synchrotron-based X-ray microfluorescence and X-ray absorption spectroscopy. *Chemosphere*, **2017**, 175, 356-364	8.4	39

343	Double-Walled Microparticles-Embedded Self-Cross-Linked, Injectable, and Antibacterial Hydrogel for Controlled and Sustained Release of Chemotherapeutic Agents. *ACS Applied Materials & Interfaces*, **2016**, 8, 22785-800	9.5	39
342	Towards practical application of gasification: a critical review from syngas and biochar perspectives. *Critical Reviews in Environmental Science and Technology*, **2018**, 48, 1165-1213	11.1	39
341	Structural and functional variability in root-associated bacterial microbiomes of Cd/Zn hyperaccumulator Sedum alfredii. *Applied Microbiology and Biotechnology*, **2017**, 101, 7961-7976	5.7	38
340	Reduction kinetics of hexavalent chromium in soils and its correlation with soil properties. *Journal of Environmental Quality*, **2012**, 41, 1452-8	3.4	38
339	Numerical simulation of cone-jet formation in electrohydrodynamic atomization. *AICHE Journal*, **2011**, 57, 57-78	3.6	38
338	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	10.3	38
337	Effect of DA-6 and EDTA alone or in combination on uptake, subcellular distribution and chemical form of Pb in Lolium perenne. *Chemosphere*, **2013**, 93, 2782-8	8.4	37
336	Pig manure vermicompost (PMVC) can improve phytoremediation of Cd and PAHs co-contaminated soil by Sedum alfredii. *Journal of Soils and Sediments*, **2012**, 12, 1089-1099	3.4	37
335	Barium uptake by maize plants as affected by sewage sludge in a long-term field study. *Journal of Hazardous Materials*, **2010**, 181, 1148-57	12.8	37
334	Enhanced intracellular delivery and controlled drug release of magnetic PLGA nanoparticles modified with transferrin. *Acta Pharmacologica Sinica*, **2017**, 38, 943-953	8	36
333	The integrated effect of salinity, organic amendments, phosphorus fertilizers, and deficit irrigation on soil properties, phosphorus fractionation and wheat productivity. *Scientific Reports*, **2020**, 10, 2736	4.9	36
332	Spatial imaging of Zn and other elements in Huanglongbing-affected grapefruit by synchrotron-based micro X-ray fluorescence investigation. *Journal of Experimental Botany*, **2014**, 65, 953-64	7	36
331	Mechanisms of Nickel Uptake and Hyperaccumulation by Plants and Implications for Soil Remediation. *Advances in Agronomy*, **2012**, 117, 117-189	7.7	36
330	PURIFICATION OF REFINERY WASTEWATER BY DIFFERENT PERENNIAL GRASSES GROWING IN A FLOATING BED. *Journal of Plant Nutrition*, **2012**, 35, 93-110	2.3	36
329	Permittivity and chemical characterization of woody biomass during pyrolysis and gasification. *Chemical Engineering Journal*, **2019**, 355, 255-268	14.7	35
328	Comparative assessment of Indian mustard (Brassica juncea L.) genotypes for phytoremediation of Cd and Pb contaminated soils. *Environmental Pollution*, **2019**, 254, 113085	9.3	34
327	Convection enhanced delivery of chemotherapeutic drugs into brain tumour. *Journal of Controlled Release*, **2018**, 271, 74-87	11.7	33
326	Chemical speciation of cadmium: An approach to evaluate plant-available cadmium in Ecuadorian soils under cacao production. *Chemosphere*, **2016**, 150, 57-62	8.4	33

325	Effect of zinc sulfate fortification in germinated brown rice on seed zinc concentration, bioavailability, and seed germination. *Journal of Agricultural and Food Chemistry*, **2012**, 60, 1871-9	5.7	33
324	Nitric oxide can induce tolerance to oxidative stress of peanut seedlings under cadmium toxicity. *Plant Growth Regulation*, **2016**, 79, 19-28	3.2	32
323	Convection enhanced delivery of liposome encapsulated doxorubicin for brain tumour therapy. *Journal of Controlled Release*, **2018**, 285, 212-229	11.7	32
322	Biochar amendment affects leaching potential of copper and nutrient release behavior in contaminated sandy soils. *Journal of Environmental Quality*, **2014**, 43, 1894-902	3.4	32
321	Numerical studies of solid–solid mixing behaviors in a downer reactor for coal pyrolysis. *Powder Technology*, **2014**, 253, 722-732	5.2	32
320	Background concentrations and quality reference values for some potentially toxic elements in soils of São Paulo State, Brazil. *Journal of Environmental Management*, **2018**, 221, 10-19	7.9	32
319	Dominating aquatic macrophytes for the removal of nutrients from waterways of the Indian River Lagoon basin, South Florida, USA. *Ecological Engineering*, **2017**, 101, 107-119	3.9	31
318	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. *Agricultural Water Management*, **2013**, 118, 38-49	5.9	31
317	Effects of alternating wetting and drying versus continuous flooding on chromium fate in paddy soils. *Ecotoxicology and Environmental Safety*, **2015**, 113, 439-45	7	31
316	High diversity and differential persistence of fecal Bacteroidales population spiked into freshwater microcosm. *Water Research*, **2012**, 46, 247-57	12.5	31
315	The role of bacteria in the heavy metals removal and growth of Sedum alfredii Hance in an aqueous medium. *Chemosphere*, **2008**, 70, 489-94	8.4	31
314	The plant-growth promoting bacteria promote cadmium uptake by inducing a hormonal crosstalk and lateral root formation in a hyperaccumulator plant Sedum alfredii. *Journal of Hazardous Materials*, **2020**, 395, 122661	12.8	30
313	Cadmium Exposure-Sedum alfredii Planting Interactions Shape the Bacterial Community in the Hyperaccumulator Plant Rhizosphere. *Applied and Environmental Microbiology*, **2018**, 84,	4.8	30
312	Role of foliar application of 24-epibrassinolide in response of peanut seedlings to iron deficiency. *Biologia Plantarum*, **2016**, 60, 329-342	2.1	30
311	Field crops (Ipomoea aquatica Forsk. and Brassica chinensis L.) for phytoremediation of cadmium and nitrate co-contaminated soils via rotation with Sedum alfredii Hance. *Environmental Science and Pollution Research*, **2017**, 24, 19293-19305	5.1	30
310	Synergetic effects of DA-6/GA with EDTA on plant growth, extraction and detoxification of Cd by Lolium perenne. *Chemosphere*, **2014**, 117, 132-8	8.4	30
309	A Nylon Membrane Bag Assay for Determination of the Effect of Chemicals on Soilborne Plant Pathogens in Soil. *Plant Disease*, **2010**, 94, 201-206	1.5	30
308	Phosphorus Concentrations and Loads in Runoff Water under Crop Production. *Soil Science Society of America Journal*, **2006**, 70, 1807-1816	2.5	30

307	Evaluation of sewage sludge incineration ash as a potential land reclamation material. *Journal of Hazardous Materials*, **2018**, 357, 63-72	12.8	30
306	Impact assessment of cadmium toxicity and its bioavailability in human cell lines (Caco-2 and HL-7702). *BioMed Research International*, **2014**, 2014, 839538	3	29
305	Immobilization of copper in contaminated sandy soils using calcium water treatment residue. *Journal of Hazardous Materials*, **2011**, 189, 710-8	12.8	29
304	Techno-economic analysis of geopolymer production from the coal fly ash with high iron oxide and calcium oxide contents. *Journal of Hazardous Materials*, **2019**, 361, 237-244	12.8	29
303	SaZIP4, an uptake transporter of Zn/Cd hyperaccumulator Sedum alfredii Hance. *Environmental and Experimental Botany*, **2018**, 155, 107-117	5.9	29
302	Responses of soil bacterial community and Cd phytoextraction to a Sedum alfredii-oilseed rape (Brassica napus L. and Brassica juncea L.) intercropping system. *Science of the Total Environment*, **2020**, 723, 138152	10.2	28
301	Heavy metals in composts of China: historical changes, regional variation, and potential impact on soil quality. *Environmental Science and Pollution Research*, **2017**, 24, 3194-3209	5.1	28
300	Phytoavailability of cadmium (Cd) to Pak choi (Brassica chinensis L.) grown in Chinese soils: a model to evaluate the impact of soil Cd pollution on potential dietary toxicity. *PLoS ONE*, **2014**, 9, e111461	3.7	28
299	Effects of Potassium Deficiency on Chloroplast Ultrastructure and Chlorophyll Fluorescence in Inefficient and Efficient Genotypes of Rice. *Journal of Plant Nutrition*, **2008**, 31, 2105-2118	2.3	28
298	Surface runoff losses of copper and zinc in sandy soils. *Journal of Environmental Quality*, **2003**, 32, 909-15	3.4	28
297	Identification of high cadmium-accumulating oilseed sunflower (Helianthus annuus) cultivars for phytoremediation of an Oxisol and an Inceptisol. *Ecotoxicology and Environmental Safety*, **2020**, 187, 109857	7	28
296	Hydrothermal carbonization of different wetland biomass wastes: Phosphorus reclamation and hydrochar production. *Waste Management*, **2020**, 102, 106-113	8.6	28
295	Mathematical Modelling of Convection Enhanced Delivery of Carmustine and Paclitaxel for Brain Tumour Therapy. *Pharmaceutical Research*, **2017**, 34, 860-873	4.5	27
294	A comparison of PM exposure related to emission hotspots in a hot and humid urban environment: Concentrations, compositions, respiratory deposition, and potential health risks. *Science of the Total Environment*, **2017**, 599-600, 464-473	10.2	27
293	Role of sulfur assimilation pathway in cadmium hyperaccumulation by Sedum alfredii Hance. *Ecotoxicology and Environmental Safety*, **2014**, 100, 159-65	7	27
292	Evaluation of Soil Tests for Plant-available Mercury in a Soil–Crop Rotation System. *Communications in Soil Science and Plant Analysis*, **2008**, 39, 3032-3046	1.5	27
291	Prevalence of antibiotic resistance genes in antibiotic-resistant Escherichia coli isolates in surface water of Taihu Lake Basin, China. *Environmental Science and Pollution Research*, **2015**, 22, 11412-21	5.1	26
290	An environmental friendly animal waste disposal process with ammonia recovery and energy production: Experimental study and economic analysis. *Waste Management*, **2017**, 68, 636-645	8.6	26

289	Synthesis of amphiphilic polysuccinimide star copolymers for responsive delivery in plants. *Chemical Communications*, **2015**, 51, 9694-7	5.8	26
288	A review on the thermal treatment of heavy metal hyperaccumulator: Fates of heavy metals and generation of products. *Journal of Hazardous Materials*, **2021**, 405, 123832	12.8	26
287	Isolation and characterization of chromium(VI)-reducing Bacillus sp. FY1 and Arthrobacter sp. WZ2 and their bioremediation potential. *Bioremediation Journal*, **2017**, 21, 100-108	2.3	25
286	Using CO as an Oxidant in the Catalytic Pyrolysis of Peat Moss from the North Polar Region. *Environmental Science & Technology*, **2020**, 54, 6329-6343	10.3	25
285	Use of amendments to reduce leaching loss of phosphorus and other nutrients from a sandy soil in Florida. *Environmental Science and Pollution Research*, **2007**, 14, 266-9	5.1	25
284	Assessment of sunflower germplasm for phytoremediation of lead-polluted soil and production of seed oil and seed meal for human and animal consumption. *Journal of Environmental Sciences*, **2020**, 87, 24-38	6.4	25
283	Simultaneous sorption and catalytic oxidation of trivalent antimony by Canna indica derived biochars. *Environmental Pollution*, **2017**, 229, 394-402	9.3	24
282	Eisenia fetida and biochar synergistically alleviate the heavy metals content during valorization of biosolids via enhancing vermicompost quality. *Science of the Total Environment*, **2019**, 684, 597-609	10.2	24
281	Conversion of Coal Fly Ash into Zeolite Materials: Synthesis and Characterizations, Process Design, and Its Cost-Benefit Analysis. *Industrial & Engineering Chemistry Research*, **2017**, 56, 11565-11574	3.9	24
280	Co-gasification of sewage sludge and woody biomass in a fixed-bed downdraft gasifier: toxicity assessment of solid residues. *Waste Management*, **2015**, 36, 241-55	8.6	24
279	Hollow chitosan–silica nanospheres for doxorubicin delivery to cancer cells with enhanced antitumor effect in vivo. *Journal of Materials Chemistry*, **2011**, 21, 3147		24
278	Pneumatic Transport of Granular Materials in an Inclined Conveying Pipe: Comparison of Computational Fluid Dynamics–Discrete Element Method (CFD–DEM), Electrical Capacitance Tomography (ECT), and Particle Image Velocimetry (PIV) Results. *Industrial & Engineering Chemistry Research*, **2007**, 46, 4066-4083	3.9	24
277	Bone morphogenetic protein-2 loaded poly(D,L-lactide-co-glycolide) microspheres enhance osteogenic potential of gelatin/hydroxyapatite/β-tricalcium phosphate cryogel composite for alveolar ridge augmentation. *Journal of the Formosan Medical Association*, **2017**, 116, 973-981	3.2	23
276	An endophytic bacterium Acinetobacter calcoaceticus Sasm3-enhanced phytoremediation of nitrate-cadmium compound polluted soil by intercropping Sedum alfredii with oilseed rape. *Environmental Science and Pollution Research*, **2015**, 22, 17625-35	5.1	23
275	Variations of cadmium tolerance and accumulation among 39 Salix clones: implications for phytoextraction. *Environmental Earth Sciences*, **2015**, 73, 3263-3274	2.9	23
274	Decision Support Systems to Manage Irrigation in Agriculture. *Advances in Agronomy*, **2014**, 229-279	7.7	23
273	Fertilization using sewage sludge in unfertile tropical soils increased wood production in Eucalyptus plantations. *Journal of Environmental Management*, **2017**, 203, 51-58	7.9	23
272	Nano-enabled agriculture: from nanoparticles to smart nanodelivery systems. *Environmental Chemistry*, **2020**, 17, 413	3.2	23

271	Characterization of fava bean (Vicia faba L.) genotypes for phytoremediation of cadmium and lead co-contaminated soils coupled with agro-production. *Ecotoxicology and Environmental Safety*, **2019**, 171, 190-198	7	23
270	Assessing the immobilization efficiency of organic and inorganic amendments for cadmium phytoavailability to wheat. *Journal of Soils and Sediments*, **2019**, 19, 3708-3717	3.4	22
269	Steam co-gasification of horticultural waste and sewage sludge: Product distribution, synergistic analysis and optimization. *Bioresource Technology*, **2020**, 301, 122780	11	22
268	Long-Term Use of Copper-Containing Fungicide Affects Microbial Properties of Citrus Grove Soils. *Soil Science Society of America Journal*, **2011**, 75, 898-906	2.5	22
267	Microbial activity and community diversity in a variable charge soil as affected by cadmium exposure levels and time. *Journal of Zhejiang University: Science B*, **2008**, 9, 250-60	4.5	22
266	Fabrication of ultrasound-responsive microbubbles via coaxial electrohydrodynamic atomization for triggered release of tPA. *Journal of Colloid and Interface Science*, **2017**, 501, 282-293	9.3	21
265	Fava bean intercropping with Sedum alfredii inoculated with endophytes enhances phytoremediation of cadmium and lead co-contaminated field. *Environmental Pollution*, **2020**, 265, 114861	8.3	21
264	Effective Recovery of Vanadium from Oil Refinery Waste into Vanadium-Based Metal-Organic Frameworks. *Environmental Science & Technology*, **2018**, 52, 3008-3015	10.3	21
263	Production of drug-releasing biodegradable microporous scaffold using a two-step micro-encapsulation/supercritical foaming process. *Journal of Supercritical Fluids*, **2018**, 133, 263-269	4.2	21
262	Mesoporous Silica-Encaged Ultrafine Bimetallic Nanocatalysts for CO2 Hydrogenation to Formates. *ChemCatChem*, **2019**, 11, 5093-5097	5.2	21
261	Moderate phosphorus application enhances Zn mobility and uptake in hyperaccumulator Sedum alfredii. *Environmental Science and Pollution Research*, **2013**, 20, 2844-53	5.1	21
260	Toxicity assessment of carbon black waste: A by-product from oil refineries. *Journal of Hazardous Materials*, **2017**, 321, 600-610	12.8	21
259	Spatial and temporal variations of water quality in drainage ditches within vegetable farms and citrus groves. *Agricultural Water Management*, **2004**, 65, 39-57	5.9	21
258	Computational study of core-shell droplet formation in coaxial electrohydrodynamic atomization process. *AICHE Journal*, **2016**, 62, 4259-4276	3.6	21
257	Non-labile phosphorus acquisition by Brachiaria. *Journal of Plant Nutrition*, **2016**, 39, 1319-1327	2.3	20
256	Model for evaluation of the phytoavailability of chromium (Cr) to rice (Oryza sativa L.) in representative Chinese soils. *Journal of Agricultural and Food Chemistry*, **2013**, 61, 2925-32	5.7	20
255	Electric field controlled electrospray deposition for precise particle pattern and cell pattern formation. *AICHE Journal*, **2010**, 56, 2607-2621	3.6	20
254	Use of polymeric nanoparticles to improve seed germination and plant growth under copper stress. *Science of the Total Environment*, **2020**, 745, 141055	10.2	20

253	Development of Nanoparticles for Drug Delivery to Brain Tumor: The Effect of Surface Materials on Penetration Into Brain Tissue. *Journal of Pharmaceutical Sciences*, **2019**, 108, 1736-1745	3.9	20
252	New insight into the impact of biochar during vermi-stabilization of divergent biowastes: Literature synthesis and research pursuits. *Chemosphere*, **2020**, 238, 124679	8.4	20
251	Effects of the three dual-fuel strategies on performance and emissions of a biodiesel engine. *Applied Energy*, **2020**, 262, 114542	10.7	19
250	Efficiency of Biodegradable and pH-Responsive Polysuccinimide Nanoparticles (PSI-NPs) as Smart Nanodelivery Systems in Grapefruit: In Vitro Cellular Investigation. *Macromolecular Bioscience*, **2018**, 18, e1800159	5.5	19
249	Survival of Escherichia coli in soil with modified microbial community composition. *Soil Biology and Biochemistry*, **2011**, 43, 1591-1599	7.5	19
248	Temporal and spatial variations of nutrients in the Ten Mile Creek of South Florida, USA and effects on phytoplankton biomass. *Journal of Environmental Monitoring*, **2008**, 10, 508-16		19
247	LEACHING BEHAVIOR OF PHOSPHORUS IN SANDY SOILS AMENDED WITH ORGANIC MATERIAL. *Soil Science*, **2008**, 173, 257-266	0.9	19
246	Pseudomonas fluorescens promote photosynthesis, carbon fixation and cadmium phytoremediation of hyperaccumulator Sedum alfredii. *Science of the Total Environment*, **2020**, 726, 138554	10.2	18
245	Endophytic bacterium Buttiauxella sp. SaSR13 improves plant growth and cadmium accumulation of hyperaccumulator Sedum alfredii. *Environmental Science and Pollution Research*, **2018**, 25, 21844-21854	5.1	18
244	Nutrients and nonessential elements in soil after 11 years of wastewater irrigation. *Journal of Environmental Quality*, **2012**, 41, 920-7	3.4	18
243	A constructed wetland system with aquatic macrophytes for cleaning contaminated runoff/storm water from urban area in Florida. *Journal of Environmental Management*, **2021**, 280, 111794	7.9	18
242	Effect of humic acid amendment on cadmium bioavailability and accumulation by pak choi (Brassica rapa ssp. chinensis L.) to alleviate dietary toxicity risk. *Archives of Agronomy and Soil Science*, **2017**, 63, 1431-1442	2	17
241	Study amino acid contents, plant growth variables and cell ultrastructural changes induced by cadmium stress between two contrasting cadmium accumulating cultivars of Brassica rapa ssp. chinensis L. (pak choi). *Ecotoxicology and Environmental Safety*, **2020**, 200, 110748	7	17
240	Comparative assessment of polymeric and other nanoparticles impacts on soil microbial and biochemical properties. *Geoderma*, **2020**, 367, 114278	6.7	17
239	Biochar for urban agriculture: Impacts on soil chemical characteristics and on Brassica rapa growth, nutrient content and metabolism over multiple growth cycles. *Science of the Total Environment*, **2020**, 727, 138742	10.2	17
238	Ectopic expression of SaNRAMP3 from Sedum alfredii enhanced cadmium root-to-shoot transport in Brassica juncea. *Ecotoxicology and Environmental Safety*, **2018**, 156, 279-286	7	17
237	Organic Amendment Effects on the Transformation and Fractionation of Aluminum in Acidic Sandy SoilView all notes. *Communications in Soil Science and Plant Analysis*, **2008**, 39, 2678-2694	1.5	17
236	Immobilization and sorption of Cd and Pb in contaminated stagnic anthrosols as amended with biochar and manure combined with inorganic additives. *Journal of Environmental Management*, **2020**, 257, 109999	7.9	17

235	Effects of sewage sludge application on unfertile tropical soils evaluated by multiple approaches: A field experiment in a commercial Eucalyptus plantation. *Science of the Total Environment*, **2019**, 655, 1457-1467	10.2	17
234	Heart developmental toxicity by carbon black waste generated from oil refinery on zebrafish embryos (Danio rerio): Combined toxicity on heart function by nickel and vanadium. *Journal of Hazardous Materials*, **2019**, 363, 127-137	12.8	17
233	Electrical Field Guided Electrospray Deposition for Production of Gradient Particle Patterns. *ACS Applied Materials & Interfaces*, **2018**, 10, 18499-18506	9.5	17
232	A rapid method for sensitive profiling of folates from plant leaf by ultra-performance liquid chromatography coupled to tandem quadrupole mass spectrometer. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2017**, 1040, 169-179	3.2	16
231	Zeolite amendment coupled with alternate wetting and drying to reduce nitrogen loss and enhance rice production. *Field Crops Research*, **2019**, 235, 95-103	5.5	16
230	Transcriptome Comparison Reveals the Adaptive Evolution of Two Contrasting Ecotypes of Zn/Cd Hyperaccumulator Hance. *Frontiers in Plant Science*, **2017**, 8, 425	6.2	16
229	Concentrations and solubility of heavy metals in muck sediments from the St. Lucie Estuary, U.S.A.. *Environmental Geology*, **2003**, 44, 1-7		16
228	Zeolite-Encaged Pd□Mn Nanocatalysts for CO2 Hydrogenation and Formic Acid Dehydrogenation. *Angewandte Chemie*, **2020**, 132, 20358-20366	3.6	16
227	Diversity, abundance and community structure of ammonia-oxidizing archaea and bacteria in riparian sediment of Zhenjiang ancient canal. *Ecological Engineering*, **2016**, 90, 447-458	3.9	16
226	Bioaugmentation of Exogenous Strain Rhodococcus sp. 2G Can Efficiently Mitigate Di(2-ethylhexyl) Phthalate Contamination to Vegetable Cultivation. *Journal of Agricultural and Food Chemistry*, **2019** , 67, 6940-6949	5.7	15
225	Effects of GA3 on Plant Physiological Properties, Extraction, Subcellular Distribution and Chemical Forms of Pb in Lolium perenne. *International Journal of Phytoremediation*, **2015**, 17, 1153-9	3.9	15
224	Effect of elevated CO2 concentration on photosynthetic characteristics of hyperaccumulator Sedum alfredii under cadmium stress. *Journal of Integrative Plant Biology*, **2015**, 57, 653-60	8.3	15
223	Elevated CO2 concentration increase the mobility of Cd and Zn in the rhizosphere of hyperaccumulator Sedum alfredii. *Environmental Science and Pollution Research*, **2014**, 21, 5899-908	5.1	15
222	Zinc uptake kinetics in the low and high-affinity systems of two contrasting rice genotypes. *Journal of Plant Nutrition and Soil Science*, **2014**, 177, 412-420	2.3	15
221	Folate content and composition of vegetables commonly consumed in China. *Journal of Food Science*, **2012**, 77, H239-45	3.4	15
220	Effect of probiotics on alkaline phosphatase activity and nutrient level in sediment of shrimp, Penaeus vannamei, ponds. *Aquaculture*, **2009**, 287, 94-97	4.4	15
219	Identification of wheat (Triticum aestivum L.) genotypes for food safety on two different cadmium contaminated soils. *Environmental Science and Pollution Research*, **2020**, 27, 7943-7956	5.1	15
218	Rapid toxicity screening of gasification ashes. *Waste Management*, **2016**, 50, 93-104	8.6	15

217	Phosphorus Availability and Release Pattern from Activated Dolomite Phosphate Rock in Central Florida. *Journal of Agricultural and Food Chemistry*, **2017**, 65, 4589-4596	5.7	14
216	Soil microbial communities under cacao agroforestry and cover crop systems in Peru. *Applied Soil Ecology*, **2017**, 120, 273-280	5	14
215	Transformation of Phosphorus in Wetland Biomass during Pyrolysis and Hydrothermal Treatment. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 16520-16528	8.3	14
214	Three-stage anaerobic co-digestion of food waste and waste activated sludge: Identifying bacterial and methanogenic archaeal communities and their correlations with performance parameters. *Bioresource Technology*, **2019**, 285, 121333	11	14
213	Growth-Promoting Hormone DA-6 Assists Phytoextraction and Detoxification of Cd by Ryegrass. *International Journal of Phytoremediation*, **2015**, 17, 597-603	3.9	14
212	Codelivery of anti-cancer agents via double-walled polymeric microparticles/injectable hydrogel: A promising approach for treatment of triple negative breast cancer. *Biotechnology and Bioengineering*, **2017**, 114, 2931-2946	4.9	14
211	Characterization of Antibiotics and Antibiotic Resistance Genes on an Ecological Farm System. *Journal of Chemistry*, **2015**, 2015, 1-8	2.3	14
210	Impacts of calcium water treatment residue on the soil-water-plant system in citrus production. *Plant and Soil*, **2014**, 374, 993-1004	4.2	14
209	Nitrogen versus phosphorus limitation of phytoplankton growth in Ten Mile Creek, Florida, USA. *Hydrobiologia*, **2008**, 605, 247-258	2.4	14
208	Water hyacinth for energy and environmental applications: A review. *Bioresource Technology*, **2021**, 327, 124809	11	14
207	A hybrid peripheral fragmentation and shrinking-core model for fixed-bed biomass gasification. *Chemical Engineering Journal*, **2020**, 400, 124940	14.7	14
206	Role of Exogenous Nitric Oxide in Alleviating Iron Deficiency Stress of Peanut Seedlings (Arachis hypogaea L.). *Journal of Plant Growth Regulation*, **2016**, 35, 31-43	4.7	13
205	Evaluation of variation in essential nutrients and hazardous materials in spinach (Spinacia oleracea L.) genotypes grown on contaminated soil for human consumption. *Journal of Food Composition and Analysis*, **2019**, 79, 95-106	4.1	13
204	Insight into the FeO/CaO-based chemical looping process for biomass conversion. *Bioresource Technology*, **2020**, 310, 123384	11	13
203	Seawater intrusion impacts on groundwater and soil quality in the northern part of the Nile Delta, Egypt. *Environmental Earth Sciences*, **2020**, 79, 1	2.9	13
202	Spatial-temporal variations of dissolved organic nitrogen molecular composition in agricultural runoff water. *Water Research*, **2018**, 137, 375-383	12.5	13
201	Tetracycline uptake by pak choi grown on contaminated soils and its toxicity in human liver cell line HL-7702. *Environmental Pollution*, **2019**, 253, 312-321	9.3	13
200	Experimental and modeling investigation of an integrated biomass gasifier–engine–generator system for power generation and waste heat recovery. *Energy Conversion and Management*, **2019**, 199, 112023	10.6	13

199	Preparation of tPA-loaded microbubbles as potential theranostic agents: A novel one-step method via coaxial electrohydrodynamic atomization technique. *Chemical Engineering Journal*, **2017**, 307, 168-180	14.7	13
198	Magnetic and microwave-absorbing properties of SrAl4Fe8O19 powders synthesized by coprecipitation and citric- combustion methods. *Bulletin of Materials Science*, **2011**, 34, 463-468	1.7	13
197	Inhibition of the bioavailability of heavy metals in sewage sludge biochar by adding two stabilizers. *PLoS ONE*, **2017**, 12, e0183617	3.7	13
196	Activated dolomite phosphate rock fertilizers to reduce leaching of phosphorus and trace metals as compared to superphosphate. *Journal of Environmental Management*, **2020**, 255, 109872	7.9	13
195	Nitrogen Removal and Energy Recovery from Sewage Sludge by Combined Hydrothermal Pretreatment and CO2 Gasification. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 16629-16636	8.3	13
194	Insights into the binding interaction of substrate with catechol 2,3-dioxygenase from biophysics point of view. *Journal of Hazardous Materials*, **2020**, 391, 122211	12.8	12
193	Impacts of biochar concentration on the growth performance of a leafy vegetable in a tropical city and its global warming potential. *Journal of Cleaner Production*, **2020**, 264, 121678	10.3	12
192	Competitive sorption and desorption of cadmium and lead in paddy soils of eastern China. *Environmental Earth Sciences*, **2013**, 68, 1599-1607	2.9	12
191	Temporal and spatial variations of copper, cadmium, lead, and zinc in Ten Mile Creek in South Florida, USA. *Water Environment Research*, **2009**, 81, 40-50	2.8	12
190	Adsorption-desorption characteristics of mercury in paddy soils of China. *Journal of Environmental Quality*, **2008**, 37, 680-8	3.4	12
189	Particle image velocimetry study on the pattern formation in a vertically vibrated granular bed. *Physics of Fluids*, **2003**, 15, 3718-3729	4.4	12
188	Evaluation of soil amendments as a remediation alternative for cadmium-contaminated soils under cacao plantations. *Environmental Science and Pollution Research*, **2016**, 23, 17571-80	5.1	12
187	Adsorptive removal of tetracycline and amoxicillin from aqueous solution by leached carbon black waste and chitosan-carbon composite beads. *Journal of Environmental Chemical Engineering*, **2021**, 9, 104988	6.8	12
186	3D Printing Personalized, Photocrosslinkable Hydrogel Wound Dressings for the Treatment of Thermal Burns. *Advanced Functional Materials*,2105932	15.6	12
185	Sepiolite clay: A review of its applications to immobilize toxic metals in contaminated soils and its implications in soil–plant system. *Environmental Technology and Innovation*, **2021**, 23, 101598	7	12
184	Particulate emission from the gasification and pyrolysis of biomass: Concentration, size distributions, respiratory deposition-based control measure evaluation. *Environmental Pollution*, **2018**, 242, 1108-1118	9.3	11
183	Remediation effectiveness of vermicompost for a potentially toxic metal-contaminated tropical acidic soil in China. *Ecotoxicology and Environmental Safety*, **2019**, 182, 109394	7	11
182	Numerical Study on Coal Gasification in the Downer Reactor of a Triple-Bed Combined Circulating Fluidized Bed. *Industrial & Engineering Chemistry Research*, **2014**, 53, 6624-6635	3.9	11

181	Coaxial electrohydrodynamic atomization toward large scale production of core-shell structured microparticles. *AICHE Journal*, **2017**, 63, 5303-5319	3.6	11
180	Phosphorus budget and land use relationships for the Lake Okeechobee Watershed, Florida. *Ecological Engineering*, **2014**, 64, 325-336	3.9	11
179	INCREASING NUTRIENT UTILIZATION AND CROP PRODUCTION IN THE RED SOIL REGIONS OF CHINA. *Communications in Soil Science and Plant Analysis*, **2001**, 32, 1251-1263	1.5	11
178	Surface Runoff Losses of Copper and Zinc in Sandy Soils **2003**, 32, 909		11
177	Adsorption-Degradation of Polycyclic Aromatic Hydrocarbons in Soil by Immobilized Mixed Bacteria and Its Effect on Microbial Communities. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 14907-14916	5.7	11
176	Cadmium mobility in three contaminated soils amended with different additives as evaluated by dynamic flow-through experiments. *Chemosphere*, **2020**, 261, 127763	8.4	11
175	Physiological and metabolomics responses of two wheat (Triticum aestivum L.) genotypes differing in grain cadmium accumulation. *Science of the Total Environment*, **2021**, 769, 145345	10.2	11
174	Spatial and temporal variation of nitrogen concentration and speciation in runoff and storm water in the Indian River watershed, South Florida. *Environmental Science and Pollution Research*, **2016**, 23, 19561-9	5.1	11
173	Incinerated Sewage Sludge Bottom Ash- Chemical processing, Leaching patterns and Toxicity testing. *Journal of Hazardous Materials*, **2021**, 402, 123350	12.8	11
172	Comparative effectiveness of activated dolomite phosphate rock and biochar for immobilizing cadmium and lead in soils. *Chemosphere*, **2021**, 266, 129202	8.4	11
171	Investigation of granular surface roughness effect on electrostatic charge generation. *Advanced Powder Technology*, **2017**, 28, 2003-2014	4.6	10
170	Toxic Metal Pollution and Ecological Risk Assessment in Sediments of Water Reservoirs in Southeast China. *Soil and Sediment Contamination*, **2019**, 28, 695-715	3.2	10
169	Chromosome doubling of Sedum alfredii Hance: A novel approach for improving phytoremediation efficiency. *Journal of Environmental Sciences*, **2019**, 86, 87-96	6.4	10
168	Distribution characteristics of ammonia oxidizing microorganisms in rhizosphere sediments of cattail. *Ecological Engineering*, **2016**, 88, 99-111	3.9	10
167	Investigation on Electrostatic Charging and Its Effect on Mixing of Binary Particles in a Vibrating Bed. *Industrial & Engineering Chemistry Research*, **2014**, 53, 14166-14174	3.9	10
166	Calcium water treatment residue reduces copper phytotoxicity in contaminated sandy soils. *Journal of Hazardous Materials*, **2012**, 199-200, 375-82	12.8	10
165	Accumulation of chromium in pak choi (L.) grown on representative chinese soils. *Journal of Environmental Quality*, **2013**, 42, 758-65	3.4	10
164	Association of Soil Aggregation with the Distribution and Quality of Organic Carbon in Soil along an Elevation Gradient on Wuyi Mountain in China. *PLoS ONE*, **2016**, 11, e0150898	3.7	10

163	Interactive Online Tools for Teaching Plant Identification. *HortTechnology*, **2011**, 21, 504-508	1.3	10
162	Enhanced penetration of pro-apoptotic and anti-angiogenic micellar nanoprobe in 3D multicellular spheroids for chemophototherapy. *Journal of Controlled Release*, **2020**, 323, 502-518	11.7	10
161	Possibility of removing cadmium pollution from the environment using a newly synthesized material coal fly ash. *Environmental Science and Pollution Research*, **2020**, 27, 4997-5008	5.1	10
160	A factorial experimental analysis of using wood fly ash as an alkaline activator along with coal fly ash for production of geopolymer-cementitious hybrids. *Science of the Total Environment*, **2020**, 718, 135289	10.2	10
159	Interactive assessment of lignite and bamboo-biochar for geochemical speciation, modulation and uptake of Cu and other heavy metals in the copper mine tailing. *Science of the Total Environment*, **2021**, 779, 146536	10.2	10
158	Differences in Root Physiological and Proteomic Responses to Dibutyl Phthalate Exposure between Low- and High-DBP-Accumulation Cultivars of Brassica parachinensis. *Journal of Agricultural and Food Chemistry*, **2018**, 66, 13541-13551	5.7	10
157	Preincubation and vermicomposting of divergent biosolids exhibit vice versa multielements stoichiometry and earthworm physiology. *Journal of Environmental Management*, **2019**, 243, 144-156	7.9	9
156	Nicotianamine Synthase Gene 1 from the hyperaccumulator Sedum alfredii Hance is associated with Cd/Zn tolerance and accumulation in plants. *Plant and Soil*, **2019**, 443, 413-427	4.2	9
155	Dolomite Phosphate Rock–Based Slow-Release Fertilizer for Agriculture and Landscapes. *Communications in Soil Science and Plant Analysis*, **2012**, 43, 1344-1362	1.5	9
154	Mechanisms of water regime effects on uptake of cadmium and nitrate by two ecotypes of water spinach (Ipomoea aquatica Forsk.) in contaminated soil. *Chemosphere*, **2020**, 246, 125798	8.4	9
153	Foliar application of zinc and selenium alleviates cadmium and lead toxicity of water spinach - Bioavailability/cytotoxicity study with human cell lines. *Environment International*, **2020**, 145, 106122	12.9	9
152	Food waste treating by biochar-assisted high-solid anaerobic digestion coupled with steam gasification: Enhanced bioenergy generation and porous biochar production. *Bioresource Technology*, **2021**, 331, 125051	11	9
151	Coconut shell derived biochar to enhance water spinach (Ipomoea aquatica Forsk) growth and decrease nitrogen loss under tropical conditions. *Scientific Reports*, **2019**, 9, 20291	4.9	9
150	Differences in uptake and accumulation of copper and zinc by Salix clones under flooded versus non-flooded conditions. *Chemosphere*, **2020**, 241, 125059	8.4	9
149	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. *Environmental Pollution*, **2021**, 288, 117741	9.3	9
148	The Removal of Antibiotics in Relation to a Microbial Community in an Integrated Constructed Wetland for Tail Water Decontamination. *Wetlands*, **2020**, 40, 993-1004	1.7	8
147	Zeolite amendment enhances rice production, nitrogen accumulation and translocation in wetting and drying irrigation paddy field. *Agricultural Water Management*, **2020**, 235, 106126	5.9	8
146	Adsorption of Cd and Pb in contaminated gleysol by composite treatment of sepiolite, organic manure and lime in field and batch experiments. *Ecotoxicology and Environmental Safety*, **2020**, 196, 110539	7	8

145	Chromium-resistant bacteria promote the reduction of hexavalent chromium in soils. *Journal of Environmental Quality*, **2014**, 43, 507-16	3.4	8
144	Chromium removal capability and photosynthetic characteristics of Cyperus alternifolius and Coix lacryma-jobi L. in vertical flow constructed wetland treated with hexavalent chromium bearing domestic sewage. *Water Science and Technology*, **2017**, 76, 2203-2212	2.2	8
143	Dolomite phosphate rock (DPR) application in acidic sandy soil in reducing leaching of phosphorus and heavy metals-a column leaching study. *Environmental Science and Pollution Research*, **2013**, 20, 3843-51	5.1	8
142	Diffusion Modeling of Bulk Granular Attrition. *Industrial & Engineering Chemistry Research*, **2006**, 45, 2077-2083	3.9	8
141	The impact of heavy metal contamination on soil health. *Burleigh Dodds Series in Agricultural Science*, **2018**, 63-95	2	8
140	Endophytic inoculation coupled with soil amendment and foliar inhibitor ensure phytoremediation and argo-production in cadmium contaminated soil under oilseed rape-rice rotation system. *Science of the Total Environment*, **2020**, 748, 142481	10.2	8
139	Metagenomic comparison of structure and function of microbial community between water, effluent and shrimp intestine of higher place Litopenaeus vannamei ponds. *Journal of Applied Microbiology*, **2020**, 129, 243-255	4.7	8
138	Recycling of sugar crop disposal to boost the adaptation of canola (Brassica napus L.) to abiotic stress through different climate zones. *Journal of Environmental Management*, **2021**, 281, 111881	7.9	8
137	Effects of CO application and endophytic bacterial inoculation on morphological properties, photosynthetic characteristics and cadmium uptake of two ecotypes of Sedum alfredii Hance. *Environmental Science and Pollution Research*, **2019**, 26, 1809-1820	5.1	8
136	Arsenic and mercury uptake and accumulation in oilseed sunflower accessions selected to mitigate co-contaminated soil coupled with oil and bioenergy production. *Journal of Cleaner Production*, **2021**, 291, 125226	10.3	8
135	Phytoremediation of Cd-contaminated farmland soil via various Sedum alfredii-oilseed rape cropping systems: Efficiency comparison and cost-benefit analysis. *Journal of Hazardous Materials*, **2021**, 419, 126489	12.8	8
134	Effects of CO application coupled with endophyte inoculation on rhizosphere characteristics and cadmium uptake by Sedum alfredii Hance in response to cadmium stress. *Journal of Environmental Management*, **2019**, 239, 287-298	7.9	7
133	Optimization of operation strategies of a syngas-fueled engine in a distributed gasifier-generator system driven by horticulture waste. *Energy Conversion and Management*, **2020**, 208, 112580	10.6	7
132	An Exogenous Source of Nitric Oxide Modulates Iron Nutritional Status in Peanut Seedlings (Arachis hypogaea L.). *Journal of Plant Growth Regulation*, **2016**, 35, 730-743	4.7	7
131	In Vitro Assessment of Cadmium Bioavailability in Chinese Cabbage Grown on Different Soils and Its Toxic Effects on Human Health. *BioMed Research International*, **2015**, 2015, 285351	3	7
130	Production of PEX protein from QM7 cells cultured in polymer scaffolds in a Taylor□Couette bioreactor. *Biochemical Engineering Journal*, **2014**, 88, 179-187	4.2	7
129	Speciation of Aluminum in Solution of an Acidic Sandy Soil Amended with Organic Composts. *Communications in Soil Science and Plant Analysis*, **2009**, 40, 2094-2110	1.5	7
128	Characterization of Taylor vortex flow in a short liquid column. *AICHE Journal*, **2009**, 55, 3056-3065	3.6	7

127	Experimental Studies of Hydrodynamics and Regime Transition in Bubble Columns. *Canadian Journal of Chemical Engineering*, **2008**, 84, 63-72	2.3	7
126	Effect of phosphate on the sorption, desorption and plant-availability of selenium in soil. *Fertilizer Research*, **1994**, 39, 189-197		7
125	Use of Carbon Nanoparticles to Improve Soil Fertility, Crop Growth and Nutrient Uptake by Corn (L.). *Nanomaterials*, **2021**, 11,	5.4	7
124	COVID-19 Crisis: How Can Plant Biotechnology Help?. *Plants*, **2021**, 10,	4.5	7
123	Double-edged effects of polyvinyl chloride addition on heavy metal separation and biochar production during pyrolysis of Cd/Zn hyperaccumulator. *Journal of Hazardous Materials*, **2021**, 416, 125793	12.8	7
122	Spatiotemporal change of phosphorous speciation and concentration in stormwater in the St. Lucie Estuary watershed, South Florida. *Chemosphere*, **2017**, 172, 488-495	8.4	6
121	Localized Delivery of Pilocarpine to Hypofunctional Salivary Glands through Electrospun Nanofiber Mats: An Ex Vivo and In Vivo Study. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	6
120	Short Rotation Eucalypts: Opportunities for Biochar. *Forests*, **2019**, 10, 314	2.8	6
119	Composted Sewage Sludge Enhances Soybean Production and Agronomic Performance in Naturally Infertile Soils (Cerrado Region, Brazil). *Agronomy*, **2020**, 10, 1677	3.6	6
118	Genotypic variations in zinc accumulation and bioaccessibility among wheat (Triticum aestivum L.) genotypes under two different field conditions. *Journal of Cereal Science*, **2020**, 93, 102953	3.8	6
117	Biomass decaying and elemental release of aquatic macrophyte detritus in waterways of the Indian River Lagoon basin, South Florida, USA. *Science of the Total Environment*, **2018**, 635, 878-891	10.2	6
116	Economic production of monoclinic bismuth vanadate from waste vanadium ions: Process design and cost-benefit analysis. *Journal of Cleaner Production*, **2019**, 240, 118188	10.3	6
115	Droplet behavior in a Taylor vortex. *International Journal of Multiphase Flow*, **2014**, 67, 132-139	3.6	6
114	Particulate copper in soils and surface runoff from contaminated sandy soils under citrus production. *Environmental Science and Pollution Research*, **2013**, 20, 8801-12	5.1	6
113	Leaching Behavior of Heavy Metals In Biosolids Amended Sandy Soils. *Compost Science and Utilization*, **2008**, 16, 144-151	1.2	6
112	A comparative study of root cadmium radial transport in seedlings of two wheat (Triticum aestivum L.) genotypes differing in grain cadmium accumulation. *Environmental Pollution*, **2020**, 266, 115235	9.3	6
111	Sewage Sludge Application in Eucalyptus urograndis Plantation: Availability of Phosphorus in Soil and Wood Production. *Frontiers in Environmental Science*, **2020**, 8,	4.8	6
110	A Dual Tracer 18F-FCH/18F-FDG PET Imaging of an Orthotopic Brain Tumor Xenograft Model. *PLoS ONE*, **2016**, 11, e0148123	3.7	6

109	Cadmium Accumulation and Tolerance in Seven Ornamental Willow Genotypes. *Bulletin of Environmental Contamination and Toxicology*, **2018**, 101, 644-650	2.7	6
108	Gasification biochar from horticultural waste: An exemplar of the circular economy in Singapore. *Science of the Total Environment*, **2021**, 781, 146573	10.2	6
107	Release of Heavy Metals from Dolomite Phosphate Rock after Activation with Organic Agent. *Journal of Environmental Quality*, **2019**, 48, 694-700	3.4	5
106	Variations of growth, nitrogen accumulation and nitrogen use efficiency among 18 willow clones under two nitrogen regimes. *Agroforestry Systems*, **2015**, 89, 67-79	2	5
105	Characteristics and mechanisms of acrylate polymer damage to maize seedlings. *Ecotoxicology and Environmental Safety*, **2016**, 129, 228-34	7	5
104	Computational and experimental studies of electrohydrodynamic atomization for pharmaceutical particle fabrication. *AICHE Journal*, **2012**, 58, 3329-3340	3.6	5
103	Electrostatic effects on inertial particle transport in bifurcated tubes. *AICHE Journal*, **2009**, 55, 1390-1401	3.6	5
102	Ambient and Elevated Carbon Dioxide on Growth, Physiological and Nutrient Uptake Parameters of Perennial Leguminous Cover Crops under Low Light Intensities. *International Journal of Plant & Soil Science*, **2017**, 15, 1-16	0.5	5
101	Interaction of Lolium perenne and Hyphomicrobium sp. GHH enhances the removal of 17□ethinyestradiol (EE2) from soil. *Journal of Soils and Sediments*, **2019**, 19, 1297-1305	3.4	5
100	A phytoremediation coupled with agro-production mode suppresses Fusarium wilt disease and alleviates cadmium phytotoxicity of cucumber (Cucumis sativus L.) in continuous cropping greenhouse soil. *Chemosphere*, **2021**, 270, 128634	8.4	5
99	Variation of tolerance and accumulation to excess iron in 24 willow clones: Implications for phytoextraction. *International Journal of Phytoremediation*, **2018**, 20, 1284-1291	3.9	5
98	Effect of lead on plant availability of phosphorus and potassium in a vegetable-soil system. *Environmental Science and Pollution Research*, **2018**, 25, 34793-34797	5.1	5
97	Biochar from constructed wetland biomass waste: A review of its potential and challenges. *Chemosphere*, **2022**, 287, 132259	8.4	5
96	Superhydrophobic leached carbon Black/Poly(vinyl) alcohol aerogel for selective removal of oils and organic compounds from water. *Chemosphere*, **2022**, 286, 131520	8.4	5
95	Effects of a New-Type Cleaning Agent and a Plant Growth Regulator on Phytoextraction of Cadmium from a Contaminated Soil. *Pedosphere*, **2019**, 29, 161-169	5	4
94	Phosphate Removal from Secondary Effluents Using Coal Gangue Loaded with Zirconium Oxide. *Sustainability*, **2019**, 11, 2453	3.6	4
93	Particle motion in a Taylor vortex. *International Journal of Multiphase Flow*, **2015**, 77, 120-130	3.6	4
92	Characterization of granular electrostatics generation. *Powder Technology*, **2020**, 363, 74-85	5.2	4

91	A new method for separation, characterization, and quantification of natural nanoparticles from soils. *Journal of Nanoparticle Research*, **2014**, 16, 1	2.3	4
90	Control and enhancement of permselectivity of membrane-based microcapsules for favorable biomolecular transport and immunoisolation. *AICHE Journal*, **2011**, 57, 3052-3062	3.6	4
89	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	4.3	4
88	Effects of nitric oxide on zinc tolerance of the submerged macrophyte Hydrilla verticillata. *Aquatic Biology*, **2014**, 23, 61-69	2	4
87	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	0.5	4
86	Interactions between cadmium and zinc in uptake, accumulation and bioavailability for with respect to phytoremediation. *International Journal of Phytoremediation*, **2020**, 22, 628-637	3.9	4
85	Accumulation and distribution of cadmium and lead in 28 oilseed rape cultivars grown in a contaminated field. *Environmental Science and Pollution Research*, **2020**, 27, 2400-2411	5.1	4
84	A hyperaccumulator plant Sedum alfredii recruits Cd/Zn-tolerant but not Pb-tolerant endospheric bacterial communities from its rhizospheric soil. *Plant and Soil*, **2020**, 455, 257-270	4.2	4
83	Controlled Block Polypeptide Composed of d-Type Amino Acids: A Therapeutics Delivery Platform to Inhibit Biofilm Formation of Drug-Resistant Bacteria.. *ACS Applied Bio Materials*, **2020**, 3, 6343-6350	4.1	4
82	Toward Understanding Drug Release From Biodegradable Polymer Microspheres of Different Erosion Kinetics Modes. *Journal of Pharmaceutical Sciences*, **2016**, 105, 1934-1946	3.9	4
81	Formyl tetrahydrofolate deformylase affects hydrogen peroxide accumulation and leaf senescence by regulating the folate status and redox homeostasis in rice. *Science China Life Sciences*, **2021**, 64, 720-738	8.5	4
80	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. *Agronomy*, **2021**, 11, 397	3.6	4
79	Mechanisms of Exogenous Nitric Oxide and 24-Epibrassinolide Alleviating Chlorosis of Peanut Plants Under Iron Deficiency. *Pedosphere*, **2018**, 28, 926-942	5	4
78	High-Purity V2O5 Nanosheets Synthesized from Gasification Waste: Flexible Energy Storage Devices and Environmental Assessment. *ACS Sustainable Chemistry and Engineering*, **2019**,	8.3	3
77	Dissolved Organic Carbon in Association with Water Soluble Nutrients and Metals in Soils from Lake Okeechobee Watershed, South Florida. *Water, Air, and Soil Pollution*, **2012**, 223, 4075-4088	2.6	3
76	Instabilities of granular material undergoing vertical vibrations: a uniformly driven layer. *Journal of Fluid Mechanics*, **2003**, 492, 381-410	3.7	3
75	Effects of methamidophos and glyphosate on copper sorption-desorption behavior in soils. *Science in China Series C: Life Sciences*, **2005**, 48 Suppl 1, 67-75		3
74	Fabricating scalable, personalized wound dressings with customizable drug loadings via 3D printing. *Journal of Controlled Release*, **2021**, 341, 80-94	11.7	3

73	Roles of exogenous plant growth regulators on phytoextraction of Cd/Pb/Zn by Sedum alfredii Hance in contaminated soils. *Environmental Pollution*, **2021**, 293, 118510	9.3	3
72	(180) Postharvest Calcium Chloride Dips of Whole Tomato Fruit Reduce Postharvest Decay under Commercial Conditions. *Hortscience: A Publication of the American Society for Hortcultural Science*, **2006**, 41, 1016E-1017	2.4	3
71	Rhizobium rhizogenes-mediated root proliferation in Cd/Zn hyperaccumulator Sedum alfredii and its effects on plant growth promotion, root exudates and metal uptake efficiency. *Journal of Hazardous Materials*, **2022**, 424, 127442	12.8	3
70	Experimental investigation of pressure fluctuation propagation in two orthogonal directions using a clapboard-type internally circulating fluidized bed. *Advanced Powder Technology*, **2020**, 31, 3395-3407	4.6	3
69	Forest Trees for Biochar and Carbon Sequestration: Production and Benefits **2020**,		3
68	Adsorption behavior of phenanthrene in soil amended with modified loofah sponge. *Journal of Cleaner Production*, **2021**, 298, 126845	10.3	3
67	Effect of Biochar Amendment on Bioavailability and Accumulation of Cadmium and Trace Elements in Brassica chinensis L. (Chinese Cabbage). *Journal of Agricultural Science*, **2016**, 8, 23	1	3
66	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	6	3
65	A field study reveals links between hyperaccumulating Sedum plants-associated bacterial communities and Cd/Zn uptake and translocation. *Science of the Total Environment*, **2022**, 805, 150400	10.2	3
64	Light Intensity Effects on the Growth, Physiological and Nutritional Parameters of Tropical Perennial Legume Cover Crops. *Agronomy*, **2020**, 10, 1515	3.6	2
63	Principles and Technologies of Phytoremediation for Metal-Contaminated Soils: A Review **2018**, 279-331		2
62	Optical transmittance enhancement and bandgap widening of ZnO:Al powders by W codoping. *Journal of Materials Science*, **2013**, 48, 316-321	4.3	2
61	Effect of elevated CO2 on tropical soda apple and its biological control agent Gratiana boliviana (Coleoptera: Chrysomelidae). *Biocontrol Science and Technology*, **2012**, 22, 763-776	1.7	2
60	Particle Attrition Due to Rotary Valve Feeder in a Pneumatic Conveying System: Electrostatics and Mechanical Characteristics. *Canadian Journal of Chemical Engineering*, **2008**, 84, 663-679	2.3	2
59	Evaluation of Dolomite Phosphate Rock in-Viro Soil Mixtures for Growth of a Horticultural Crop in an Acidic Sandy Soil. *Communications in Soil Science and Plant Analysis*, **2007**, 38, 1605-1617	1.5	2
58	Succession Pattern in Soil Micro-Ecology Under Tobacco (L.) Continuous Cropping Circumstances in Yunnan Province of Southwest China.. *Frontiers in Microbiology*, **2021**, 12, 785110	5.7	2
57	Organic/inorganic amendments for the remediation of a red paddy soil artificially contaminated with different cadmium levels: Leaching, speciation, and phytoavailability tests. *Journal of Environmental Management*, **2021**, 114148	7.9	2
56	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.. *Journal of Environmental Management*, **2022**, 306, 114471	7.9	2

55	Influences of edaphoclimatic conditions on deep rooting and soil water availability in Brazilian Eucalyptus plantations. *Forest Ecology and Management*, **2020**, 455, 117673	3.9	2
54	Bioavailability and Bioaccessibility of Cd in Low and High Cd Uptake Affinity Cultivars of Brassica rapa ssp. Chinensis L. (Pakchoi) using an In vitro Gastrointestinal and Physiologically-based Extraction Test. *Communications in Soil Science and Plant Analysis*, **2020**, 51, 28-37	1.5	2
53	Genetic and physiological regulation of folate in pak choi (Brassica rapa subsp. Chinensis) germplasm. *Journal of Experimental Botany*, **2020**, 71, 4914-4929	7	2
52	Emerging pharmaceutical and organic contaminants removal using carbonaceous waste from oil refineries. *Chemosphere*, **2021**, 271, 129542	8.4	2
51	Growth and nutritional responses of wild and domesticated cacao genotypes to soil Cd stress. *Science of the Total Environment*, **2021**, 763, 144021	10.2	2
50	Spatial variation and fractionation of fluoride in tobacco-planted soils and leaf fluoride concentration in tobacco in Bijie City, Southwest China. *Environmental Science and Pollution Research*, **2021**, 28, 26112-26123	5.1	2
49	Screening of 19 Salix clones in effective phytofiltration potentials of manganese, zinc and copper in pilot-scale wetlands. *International Journal of Phytoremediation*, **2018**, 20, 1275-1283	3.9	2
48	Application of cold-adaptive Pseudomonas sp. SDR4 and Mortierella alpina JDR7 co-immobilized on maize cob in remediating PAH-contaminated freeze-thawed soil. *Environmental Advances*, **2021**, 4, 100083	3.5	2
47	Convection enhanced delivery of light responsive antigen capturing oxygen generators for chemo-phototherapy triggered adaptive immunity. *Biomaterials*, **2021**, 275, 120974	15.6	2
46	The Cd phytoextraction potential of hyperaccumulator Sedum alfredii-oilseed rape intercropping system under different soil types and comprehensive benefits evaluation under field conditions. *Environmental Pollution*, **2021**, 285, 117504	9.3	2
45	Variations in phytoremediation potential and phytoavailability of heavy metals in different Salix genotypes subjected to seasonal flooding. *Journal of Environmental Management*, **2021**, 299, 113632	7.9	2
44	Large eddy simulation of electrostatic effect on particle transport in particle-laden turbulent pipe flows. *Journal of Electrostatics*, **2021**, 109, 103542	1.7	2
43	Kinetic Modeling of Nitric Oxide Sensitization of n-heptane Auto-ignition and Combustion. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*, **2015**, 37, 997-1004	1.6	1
42	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,	4.6	1
41	Comparative assessment of L. genotypes for phytoavoidation of nitrate, cadmium and lead in multi-pollutant field. *International Journal of Phytoremediation*, **2020**, 22, 972-985	3.9	1
40	Biomass decay rate and influencing factors of four submerged aquatic vegetation in Everglades wetland. *International Journal of Phytoremediation*, **2020**, 22, 963-971	3.9	1
39	Risk Assessment of Microplastic Pollution. *Emerging Contaminants and Associated Treatment Technologies*, **2022**, 369-387	0.5	1
38	Copper stress alleviation in corn (Zea mays L.): Comparative efficiency of carbon nanotubes and carbon nanoparticles.. *NanoImpact*, **2022**, 25, 100381	5.6	1

37	Food-waste anaerobic digestate as a fertilizer: The agronomic properties of untreated digestate and biochar-filtered digestate residue. *Waste Management*, **2021**, 136, 143-152	8.6	1
36	Effects of Zeolitic Urea on Nitrogen Leaching (NH4-N and NO3-N) and Volatilization (NH3) in Spodosols and Alfisols. *Water (Switzerland)*, **2021**, 13, 1921	3	1
35	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	4.4	1
34	Impact of Ambient and Elevated [CO] in Low Light Levels on Growth, Physiology and Nutrient Uptake of Tropical Perennial Legume Cover Crops. *Plants*, **2021**, 10,	4.5	1
33	Carbon Dioxide Concentrations and Light Levels on Growth and Mineral Nutrition of Juvenile Cacao Genotypes. *American Journal of Plant Sciences*, **2021**, 12, 818-839	0.5	1
32	Syntrophic interactions in anaerobic digestion: how biochar properties affect them?. *Sustainable Environment*, **2021**, 7, 1945282		1
31	Dynamic modeling with experimental calibration for the syngas production from biomass fixed-bed gasification. *AICHE Journal*, **2021**, 67, e17366	3.6	1
30	Variability in soil physical–chemical properties along the root-explored profile in deep Oxisols of commercial eucalypt plantations. *Forest Ecology and Management*, **2021**, 494, 119334	3.9	1
29	Flow battery electrolyte from carbon black incineration fly ash: A feasibility study of an environment friendly disposal process. *Waste Management*, **2021**, 133, 28-36	8.6	1
28	Effect of supplementing hydroxy selenomethionine on meat quality of yellow feather broiler. *Poultry Science*, **2021**, 100, 101389	3.9	1
27	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	4	1
26	Hydrothermal conversion of Cd/Zn hyperaccumulator (Sedum alfredii) for heavy metal separation and hydrochar production. *Journal of Hazardous Materials*, **2022**, 423, 127122	12.8	1
25	Soil fungal communities affect the chemical quality of flue-cured tobacco leaves in Bijie, Southwest China.. *Scientific Reports*, **2022**, 12, 2815	4.9	1
24	Ameliorative Effect of Silicic Acid and Silicates on Oxidative, Osmotic Stress, and Specific Ion Toxicity in Spring Wheat (Triticum aestivum L.) Genotypes. *Journal of Soil Science and Plant Nutrition*,1	3.2	1
23	Hydrothermal Treatment of the Pristine and Contaminated Cd/Zn Hyperaccumulators for Bio-Oil Production and Heavy Metal Separation. *ACS Sustainable Chemistry and Engineering*, **2022**, 10, 603-612	8.3	1
22	Topological and hydrodynamic analyses of solar thermochemical reactors for aerodynamic-aided window protection. *Engineering Applications of Computational Fluid Mechanics*, **2022**, 16, 1195-1210	4.5	1
21	3D Printing Methyl Cellulose Hydrogel Wound Dressings with Parameter Exploration Via Computational Fluid Dynamics Simulation.. *Pharmaceutical Research*, **2022**, 39, 281	4.5	0
20	Sewage sludge ash-based mortar as construction material: Mechanical studies, macrofouling, and marine toxicity.. *Science of the Total Environment*, **2022**, 153768	10.2	0

19	Gas-solid reaction induced particle collision and aggregation. *Combustion and Flame*, **2022**, 237, 111885	5.3	0
18	Transport and retention of polymeric and other engineered nanoparticles in porous media.. *NanoImpact*, **2021**, 24, 100361	5.6	0
17	Phytoavailability, translocation and soil thresholds derivation of cadmium for food safety through soil-wheat (Triticum aestivum L.) system. *Environmental Science and Pollution Research*, **2021**, 28, 37716-37726	5.1	0
16	Cadmium accumulation in rice straws and derived biochars as affected by metal exposure, soil types and rice genotypes. *International Journal of Phytoremediation*, **2021**, 1-10	3.9	0
15	Toxicity effects of size fractions of incinerated sewage sludge bottom ash on human cell lines. *Environment International*, **2021**, 158, 106881	12.9	0
14	Microbial succession analysis reveals the significance of restoring functional microorganisms during rescue of failed anaerobic digesters by bioaugmentation of nano-biochar-amended digestate.. *Bioresource Technology*, **2022**, 127102	11	0
13	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. *Environmental Monitoring and Assessment*, **2021**, 194, 20	3.1	0
12	Composted Sewage Sludge Application Reduces Mineral Fertilization Requirements and Improves Soil Fertility in Sugarcane Seedling Nurseries. *Sustainability*, **2022**, 14, 4684	3.6	0
11	Nutrients, Osmotic and Oxidative Stress Management in Bread Wheat (Triticum aestivum L.) by Exogenously Applied Silicon Fertilization Under Water Deficit Natural Saline Conditions. *Silicon*,1	2.4	0
10	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. *International Journal of Environmental Research and Public Health*, **2022**, 19, 6431	4.6	0
9	Iron Translocation in Two Grain Concentration Contrasting Rice (Oryza Sativa L. Indica) Genotypes. *Communications in Soil Science and Plant Analysis*, **2015**, 46, 2258-2273	1.5	
8	Iron Sources Effects on Growth, Physiological Parameters and Nutrition of Cacao. *Journal of Plant Nutrition*, **2015**, 38, 1787-1802	2.3	
7	"16th International Phytotechnology Conference. Phytotechnologies for Food Safety and Environmental Health" Changsha, China, September 23-27, 2019. *International Journal of Phytoremediation*, **2020**, 22, 896-899	3.9	
6	Input parameter tuning of 3D biodiesel engine simulation using parallel surrogate optimization algorithm. *Computers and Chemical Engineering*, **2021**, 145, 107180	4	
5	Effect of novel Ni2P-loaded catalysts on algal pyrolysis bio-oil. *Renewable and Sustainable Energy Reviews*, **2021**, 151, 111575	16.2	
4	Assessment of Indicators in a Human Liver Cell Line HL-7702 for Tetracycline Toxicity in Farm Soil. *Agronomy*, **2022**, 12, 730	3.6	
3	An innovative accelerated carbonation process for treatment of incineration bottom ash and biogas upgrading.. *Waste Management*, **2022**, 144, 203-209	8.6	
2	Composted Sewage Sludge Application in a Sugarcane Seedling Nursery: Crop Nutritional Status, Productivity, and Technological Quality Implications. *Sustainability*, **2022**, 14, 4682	3.6	

List of Publications

1 Application of biochar for attenuating heavy metals in contaminated soil: potential implications and research gaps **2022**, 77-110