Dongqing Zhang

List of Publications by Year
in descending order

46 papers	2,293 citations	257101 24 h-index	233125 45 g-index
46 all docs	46 docs citations	46 times ranked	2183 citing authors

#	Article	IF	Citations
1	Adsorption of perfluoroalkyl and polyfluoroalkyl substances (PFASs) from aqueous solution - A review. Science of the Total Environment, 2019, 694, 133606.	3.9	239
2	Characterization of Gold Nanoparticle Uptake by Tomato Plants Using Enzymatic Extraction Followed by Single-Particle Inductively Coupled Plasmaâ€"Mass Spectrometry Analysis. Environmental Science & Technology, 2015, 49, 3007-3014.	4.6	194
3	The impact of cerium oxide nanoparticles on the salt stress responses of Brassica napus L.. Environmental Pollution, 2016, 219, 28-36.	3.7	171
4	Cerium oxide nanoparticles alter the salt stress tolerance of Brassica napus L. by modifying the formation of root apoplastic barriers. Environmental Pollution, 2017, 229, 132-138.	3.7	134
5	Physiological effects of cerium oxide nanoparticles on the photosynthesis and water use efficiency of soybean (Glycine max (L.) Merr.). Environmental Science: Nano, 2017, 4, 1086-1094.	2.2	101
6	Nanotechnology in remediation of water contaminated by poly- and perfluoroalkyl substances: A review. Environmental Pollution, 2019, 247, 266-276.	3.7	92
7	Mutual effects and<i>in planta</i>accumulation of co-existing cerium oxide nanoparticles and cadmium in hydroponically grown soybean (<i>Glycine max</i>(L.) Merr.). Environmental Science: Nano, 2018, 5, 150-157.	2.2	91
8	Uptake and Accumulation of Bulk and Nanosized Cerium Oxide Particles and Ionic Cerium by Radish (<i>Raphanus sativus</i> L.). Journal of Agricultural and Food Chemistry, 2015, 63, 382-390.	2.4	90
9	Uptake, Accumulation, and in Planta Distribution of Coexisting Cerium Oxide Nanoparticles and Cadmium in <i>Glycine max</i> (L.) Merr.. Environmental Science & Technology, 2017, 51, 12815-12824.	4.6	88
10	Single particle ICP-MS method development for the determination of plant uptake and accumulation of CeO2 nanoparticles. Analytical and Bioanalytical Chemistry, 2016, 408, 5157-5167.	1.9	83
11	Sonochemical degradation of poly- and perfluoroalkyl substances â€" A review. Ultrasonics Sonochemistry, 2020, 69, 105245.	3.8	82
12	The impact of cerium oxide nanoparticles on the physiology of soybean (Glycine max (L.) Merr.) under different soil moisture conditions. Environmental Science and Pollution Research, 2018, 25, 930-939.	2.7	80
13	Cerium Oxide Nanoparticles and Bulk Cerium Oxide Leading to Different Physiological and Biochemical Responses in <i>Brassica rapa</i>. Environmental Science & Technology, 2016, 50, 6793-6802.	4.6	75
14	Exposure of Juncus effusus to seven perfluoroalkyl acids: Uptake, accumulation and phytotoxicity. Chemosphere, 2019, 233, 300-308.	4.2	73
15	Elucidating the mechanisms for plant uptake and in-planta speciation of cerium in radish (Raphanus) Tj ETQq1 1 0.784314 rgBT /Overlo 2017, 5, 572-577.	3.3	60
16	Sorption of perfluoroalkylated substances (PFASs) onto granular activated carbon and biochar. Environmental Technology (United Kingdom), 2021, 42, 1798-1809.	1.2	57
17	Distribution of eight perfluoroalkyl acids in plant-soil-water systems and their effect on the soil microbial community. Science of the Total Environment, 2019, 697, 134146.	3.9	53
18	Using artificial neural network to investigate physiological changes and cerium oxide nanoparticles and cadmium uptake by Brassica napus plants. Environmental Pollution, 2019, 246, 381-389.	3.7	52

#	Article	IF	Citations
19	Bioavailability of cerium oxide nanoparticles to Raphanus sativus L. in two soils. Plant Physiology and Biochemistry, 2017, 110, 185-193.	2.8	44
20	Plant uptake and soil fractionation of five ether-PFAS in plant-soil systems. Science of the Total Environment, 2021, 771, 144805.	3.9	38
21	Removal of eight perfluoroalkyl acids from aqueous solutions by aeration and duckweed. Science of the Total Environment, 2020, 724, 138357.	3.9	32
22	Destruction of Perfluoroalkyl Acids Accumulated in <i>Typha latifolia</i> through Hydrothermal Liquefaction. ACS Sustainable Chemistry and Engineering, 2020, 8, 9257-9262.	3.2	31
23	Prediction of Plant Uptake and Translocation of Engineered Metallic Nanoparticles by Machine Learning. Environmental Science & Technology, 2021, 55, 7491-7500.	4.6	29
24	Effects of hydrothermal treatments on destruction of per- and polyfluoroalkyl substances in sewage sludge. Environmental Pollution, 2021, 285, 117276.	3.7	26
25	Environmental factors affecting degradation of perfluorooctanoic acid (PFOA) by In2O3 nanoparticles. Journal of Environmental Sciences, 2020, 93, 48-56.	3.2	25
26	Environmental Risks of Nano Zerovalent Iron for Arsenate Remediation: Impacts on Cytosolic Levels of Inorganic Phosphate and MgATP^{2â€“} in <i>Arabidopsis thaliana</i>. Environmental Science & Technology, 2018, 52, 4385-4392.	4.6	24
27	Effects of Aging on the Fate and Bioavailability of Cerium Oxide Nanoparticles to Radish (Raphanus) Tj ETQq1 1 0.784314 rgBT /Overlo	3.2	21
28	Effects of cerium oxide nanoparticles and cadmium on corn (Zea mays L.) seedlings physiology and root anatomy. NanoImpact, 2020, 20, 100264.	2.4	20
29	Impact of Nanoparticle Surface Properties on the Attachment of Cerium Oxide Nanoparticles to Sand and Kaolin. Journal of Environmental Quality, 2018, 47, 129-138.	1.0	17
30	Alleviating nutrient imbalance of low carbon-to-nitrogen ratio food waste in anaerobic digestion by controlling the inoculum-to-substrate ratio. Bioresource Technology, 2022, 346, 126342.	4.8	17
31	Effects of geochemical conditions, surface modification, and arsenic (As) loadings on As release from As-loaded nano zero-valent iron in simulated groundwater. Environmental Science: Water Research and Technology, 2019, 5, 28-38.	1.2	16
32	Ineffectiveness of ultrasound at low frequency for treating per- and polyfluoroalkyl substances in sewage sludge. Chemosphere, 2022, 286, 131748.	4.2	16
33	Performance of different sorbents toward stabilizing per- and polyfluoroalkyl substances (PFAS) in soil. Environmental Advances, 2022, 8, 100217.	2.2	16
34	Bacterial community in a freshwater pond responding to the presence of perfluorooctanoic acid (PFOA). Environmental Technology (United Kingdom), 2020, 41, 3646-3656.	1.2	13
35	Fluoroalkylether compounds affect microbial community structures and abundance of nitrogen cycle-related genes in soil-microbe-plant systems. Ecotoxicology and Environmental Safety, 2021, 228, 113033.	2.9	13
36	Initial Sterilization of Soil Affected Interactions of Cerium Oxide Nanoparticles and Soybean Seedlings (<i>Glycine max</i> (L.) Merr.) in a Greenhouse Study. ACS Sustainable Chemistry and Engineering, 2018, 6, 10307-10314.	3.2	12

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37	Uptake of individual and mixed per- and polyfluoroalkyl substances (PFAS) by soybean and their effects on functional genes related to nitrification, denitrification, and nitrogen fixation. Science of the Total Environment, 2022, 838, 156640.	3.9	12
38	Changing bioavailability of per- and polyfluoroalkyl substances (PFAS) to plant in biosolids amended soil through stabilization or mobilization. Environmental Pollution, 2022, 308, 119724.	3.7	11
39	Degradation by hydrothermal liquefaction of fluoroalkylether compounds accumulated in cattails (Typha latifolia). Journal of Environmental Chemical Engineering, 2021, 9, 105363.	3.3	9
40	Photodegradation of Fâ€"53B in aqueous solutions through an UV/Iodide system. Chemosphere, 2022, 292, 133436.	4.2	9
41	Hydrothermal liquefaction of sewage sludge â€" effect of four reagents on relevant parameters related to biocrude and PFAS. Journal of Environmental Chemical Engineering, 2022, 10, 107092.	3.3	8
42	Uptake and toxicity studies of magnetic TiO2-Based nanophotocatalyst in Arabidopsis thaliana. Chemosphere, 2019, 224, 658-667.	4.2	5
43	Interactions between Lemna minor (common duckweed) and PFAS intermediates: Perfluorooctanesulfonamide (PFOSA) and 6:2 fluorotelomer sulfonate (6:2 FTSA). Chemosphere, 2021, 276, 130165.	4.2	5
44	Stabilization of per- and polyfluoroalkyl substances (PFAS) in sewage sludge using different sorbents. Journal of Hazardous Materials Advances, 2022, 6, 100089.	1.2	5
45	Optimization of Thermal Pretreatment of Food Waste for Maximal Solubilization. Journal of Environmental Engineering, ASCE, 2021, 147, .	0.7	4
46	Editorial: Occurrence, Fate, and Treatment of Perfluoroalkyl and Polyfluoroalkyl Substances in the Environment and Engineered Systems. Frontiers in Environmental Science, 2022, 10, .	1.5	0