Hong-Yan Guo

List of Publications by Year
in descending order

51 papers	2,313 citations	279798 23 h-index	214800 47 g-index
51 all docs	51 docs citations	51 times ranked	3065 citing authors

#	Article	IF	Citations
1	TiO2 and ZnO nanoparticles negatively affect wheat growth and soil enzyme activities in agricultural soil. Journal of Environmental Monitoring, 2011, 13, 822.	2.1	482
2	Interaction of metal oxide nanoparticles with higher terrestrial plants: Physiological and biochemical aspects. Plant Physiology and Biochemistry, 2017, 110, 210-225.	5.8	230
3	Effects of soil cadmium on growth, oxidative stress and antioxidant system in wheat seedlings (Triticum aestivum L.). Chemosphere, 2007, 69, 89-98.	8.2	204
4	Physiological and Biochemical Changes Imposed by CeO₂ Nanoparticles on Wheat: A Life Cycle Field Study. Environmental Science & Technology, 2015, 49, 11884-11893.	10.0	164
5	Plant diversity drives soil microbial biomass carbon in grasslands irrespective of global environmental change factors. Global Change Biology, 2015, 21, 4076-4085.	9.5	134
6	Degradation, Metabolism, and Bound-Residue Formation and Release of Tetrabromobisphenol A in Soil during Sequential Anoxicâ€“Oxic Incubation. Environmental Science & Technology, 2013, 47, 8348-8354.	10.0	126
7	Elevated CO₂ Levels Affects the Concentrations of Copper and Cadmium in Crops Grown in Soil Contaminated with Heavy Metals under Fully Open-Air Field Conditions. Environmental Science & Technology, 2011, 45, 6997-7003.	10.0	94
8	Divergence in response of lettuce (<i>var. ramosa Hort</i>.) to copper oxide nanoparticles/microparticles as potential agricultural fertilizer. Environmental Pollutants and Bioavailability, 2019, 31, 80-84.	3.0	73
9	Differential effects of copper nanoparticles/microparticles in agronomic and physiological parameters of oregano (Origanum vulgare). Science of the Total Environment, 2018, 618, 306-312.	8.0	59
10	Elevated CO2 levels modify TiO2 nanoparticle effects on rice and soil microbial communities. Science of the Total Environment, 2017, 578, 408-416.	8.0	58
11	Enhanced Transformation of Tetrabromobisphenol A by Nitrifiers in Nitrifying Activated Sludge. Environmental Science & Technology, 2015, 49, 4283-4292.	10.0	53
12	Speciation Transformation of Phosphorus in Poultry Litter during Pyrolysis: Insights from X-ray Diffraction, Fourier Transform Infrared, and Solid-State NMR Spectroscopy. Environmental Science & Technology, 2019, 53, 13841-13849.	10.0	43
13	Evaluating a novel permeable reactive bio-barrier to remediate PAH-contaminated groundwater. Journal of Hazardous Materials, 2019, 368, 444-451.	12.4	41
14	In-situ immobilization of cadmium-polluted upland soil: A ten-year field study. Ecotoxicology and Environmental Safety, 2021, 207, 111275.	6.0	40
15	Elevated CO2 levels increase the toxicity of ZnO nanoparticles to goldfish (Carassius auratus) in a water-sediment ecosystem. Journal of Hazardous Materials, 2017, 327, 64-70.	12.4	38
16	Transcriptome Reveals the Rice Response to Elevated Free Air CO₂ Concentration and TiO₂ Nanoparticles. Environmental Science & Technology, 2019, 53, 11714-11724.	10.0	38
17	Microbial communities in the rhizosphere of different willow genotypes affect phytoremediation potential in Cd contaminated soil. Science of the Total Environment, 2021, 769, 145224.	8.0	37
18	Response of soil bacterial communities, antibiotic residuals, and crop yields to organic fertilizer substitution in North China under wheatâ€“maize rotation. Science of the Total Environment, 2021, 785, 147248.	8.0	31

#	Article	IF	Citations
19	Polystyrene microplastics alleviate the effects of sulfamethazine on soil microbial communities at different CO2 concentrations. Journal of Hazardous Materials, 2021, 413, 125286.	12.4	30
20	Ethyl lactate-EDTA composite system enhances the remediation of the cadmium-contaminated soil by Autochthonous Willow (SalixÃ—aureo-pendula CL â€˜J1011â€™) in the lower reaches of the Yangtze River. Journal of Hazardous Materials, 2010, 181, 673-678.	12.4	29
21	Urea-enhanced phytoremediation of cadmium with willow in pyrene and cadmium contaminated soil. Journal of Hazardous Materials, 2021, 405, 124257.	12.4	27
22	Simultaneous Removal of Polycyclic Aromatic Hydrocarbons and Copper from Soils using Ethyl Lactateâ€Amended EDDS Solution. Journal of Environmental Quality, 2009, 38, 1591-1597.	2.0	26
23	Response of soil bacterial communities to sulfadiazine present in manure: Protection and adaptation mechanisms of extracellular polymeric substances. Journal of Hazardous Materials, 2021, 408, 124887.	12.4	23
24	Impact of biochar-induced vertical mobilization of dissolved organic matter, sulfamethazine and antibiotic resistance genes variation in a soil-plant system. Journal of Hazardous Materials, 2021, 417, 126022.	12.4	21
25	Risk assessment of engineered nanoparticles and other contaminants in terrestrial plants. Current Opinion in Environmental Science and Health, 2018, 6, 21-28.	4.1	20
26	Environmental fate of phenanthrene in lysimeter planted with wheat and rice in rotation. Journal of Hazardous Materials, 2011, 188, 408-413.	12.4	19
27	Combined cadmium and elevated ozone affect concentrations of cadmium and antioxidant systems in wheat under fully open-air conditions. Journal of Hazardous Materials, 2012, 209-210, 27-33.	12.4	19
28	Fate and Ecological Effects of Decabromodiphenyl Ether in a Field Lysimeter. Environmental Science & Technology, 2013, 47, 9167-9174.	10.0	19
29	Insights into the mechanism of the interference of sulfadiazine on soil microbial community and function. Journal of Hazardous Materials, 2021, 419, 126388.	12.4	18
30	Responses of rice growth to copper stress under free-air CO2 enrichment (FACE). Science Bulletin, 2007, 52, 2636-2641.	1.7	13
31	Sex-related responses of European aspen (Populus tremula L.) to combined stress: TiO2 nanoparticles, elevated temperature and CO2 concentration. Journal of Hazardous Materials, 2018, 352, 130-138.	12.4	12
32	Elevated CO2 concentration modifies the effects of organic fertilizer substitution on rice yield and soil ARGs. Science of the Total Environment, 2021, 754, 141898.	8.0	12
33	Effects of soil pyrene contamination on growth and phenolics in Norway spruce (Picea abies) are modified by elevated temperature and CO2. Environmental Science and Pollution Research, 2018, 25, 12788-12799.	5.3	10
34	Integrated Assessment of Cd-contaminated Paddy Soil with Application of Combined Ameliorants: A Three-Year Field Study. Bulletin of Environmental Contamination and Toxicology, 2021, 107, 1236-1242.	2.7	9
35	Elevated tropospheric CO2 and O3 concentrations impair organic pollutant removal from grassland soil. Scientific Reports, 2018, 8, 5519.	3.3	7
36	Elevated temperature and CO2 affect responses of European aspen (Populus tremula) to soil pyrene contamination. Science of the Total Environment, 2018, 634, 150-157.	8.0	6

#	Article	IF	Citations
37	Elevated CO2 levels alleviated toxicity of ZnO nanoparticles to rice and soil bacteria. Science of the Total Environment, 2022, 804, 149822.	8.0	6
38	Long-Term Field Study on Fate, Transformation, and Vertical Transport of Tetrabromobisphenol A in Soilâ€“Plant Systems. Environmental Science & Technology, 2021, 55, 4607-4615.	10.0	5
39	Size-dependent biological effect of copper oxide nanoparticles exposure on cucumber (Cucumis) Tj ETQq1 1 0.784314 rgBT /Overlock 1	5.3	5
40	Elevated CO2 accelerates polycyclic aromatic hydrocarbon accumulation in a paddy soil grown with rice. PLoS ONE, 2018, 13, e0196439.	2.5	4
41	Effects of CeO2 Nanoparticles on Microcystis aeruginosa Growth and Microcystin Production. Bulletin of Environmental Contamination and Toxicology, 2020, 104, 834-839.	2.7	4
42	Divergence in response of japonica and hybrid rice to titanium dioxide nanoparticles. Journal of Soils and Sediments, 2021, 21, 1688-1697.	3.0	4
43	Toxicity mechanism of cerium oxide nanoparticles on cyanobacteria Microcystis aeruginosa and their ecological risks. Environmental Science and Pollution Research, 2022, 29, 34010-34018.	5.3	4
44	Economic Valuation of Earthâ€™s Critical Zone: A Pilot Study of the Zhangxi Catchment, China. Sustainability, 2020, 12, 1699.	3.2	3
45	Economic valuation of Earth's critical zone: Framework, theory and methods. Environmental Development, 2021, 40, 100654.	4.1	3
46	A novel permeable reactive biobarrier for ortho-nitrochlorobenzene pollution control in groundwater: Experimental evaluation and kinetic modelling. Journal of Hazardous Materials, 2021, 420, 126563.	12.4	3
47	Willow can be recommended as a strong candidate for the phytoremediation of cadmium and pyrene co-polluted soil under flooding condition. Environmental Science and Pollution Research, 2022, 29, 41081-41092.	5.3	3
48	Simultaneous and Repetitious Removal of 2,4-Dichlorophenol and Copper from Soils Using an Aqueous Solution of Ethyl-Lactate-Amended EDDS. Soil and Sediment Contamination, 2011, 20, 605-616.	1.9	2
49	Effects of Decabromodiphenyl Ether and Elevated Carbon Dioxide on Rice (Oryza sativa L.). Bulletin of Environmental Contamination and Toxicology, 2020, 105, 237-243.	2.7	1
50	Kinetic Modeling for a Novel Permeable Reactive Biobarrier for In Situ Remediation of PAH-Contaminated Groundwater. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2022, 148, .	3.0	1
51	Fate of Several Typical Organic Pollutants in Soil and Impacts of Earthworms and Plants. , 2018, , 575-589.		0