

Guo-Di Zheng

List of Publications by Year in descending order

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59
papers

1,773
citations

218677
26
h-index

289244
40
g-index

61
all docs

61
docs citations

61
times ranked

1610
citing authors

#	ARTICLE	IF	CITATIONS
1	Heavy metal contents and enrichment characteristics of dominant plants in wasteland of the downstream of a lead-zinc mining area in Guangxi, Southwest China. <i>Ecotoxicology and Environmental Safety</i> , 2018, 151, 266-271.	6.0	83
2	Stabilization of nickel and chromium in sewage sludge during aerobic composting. <i>Journal of Hazardous Materials</i> , 2007, 142, 216-221.	12.4	78
3	Effect of phosphate amendments on improving the fertilizer efficiency and reducing the mobility of heavy metals during sewage sludge composting. <i>Journal of Environmental Management</i> , 2019, 235, 124-132.	7.8	78
4	Moisture variation associated with water input and evaporation during sewage sludge bio-drying. <i>Bioresource Technology</i> , 2012, 117, 13-19.	9.6	69
5	Application of a recyclable plastic bulking agent for sewage sludge composting. <i>Bioresource Technology</i> , 2014, 152, 329-336.	9.6	67
6	Contamination of heavy metals and isotopic tracing of Pb in surface and profile soils in a polluted farmland from a typical karst area in southern China. <i>Science of the Total Environment</i> , 2018, 637-638, 1035-1045.	8.0	67
7	Decomposition of lignocellulose and readily degradable carbohydrates during sewage sludge biodrying, insights of the potential role of microorganisms from a metagenomic analysis. <i>Chemosphere</i> , 2018, 201, 127-136.	8.2	63
8	Influence of forced air volume on water evaporation during sewage sludge bio-drying. <i>Water Research</i> , 2013, 47, 4767-4773.	11.3	61
9	Odor composition analysis and odor indicator selection during sewage sludge composting. <i>Journal of the Air and Waste Management Association</i> , 2016, 66, 930-940.	1.9	60
10	Emission characteristics and health risk assessment of volatile organic compounds produced during municipal solid waste composting. <i>Waste Management</i> , 2018, 79, 188-195.	7.4	56
11	Interaction between sulfur and lead in toxicity, iron plaque formation and lead accumulation in rice plant. <i>Ecotoxicology and Environmental Safety</i> , 2016, 128, 206-212.	6.0	51
12	Current status and developing trends of the contents of heavy metals in sewage sludges in China. <i>Frontiers of Environmental Science and Engineering</i> , 2014, 8, 719-728.	6.0	48
13	Simulation of water removal process and optimization of aeration strategy in sewage sludge composting. <i>Bioresource Technology</i> , 2014, 171, 452-460.	9.6	48
14	Phytoaccumulation of heavy metals (Pb, Zn, and Cd) by 10 wetland plant species under different hydrological regimes. <i>Ecological Engineering</i> , 2017, 107, 56-64.	3.6	48
15	The effect of salinity and porosity of sewage sludge compost on the growth of vegetable seedlings. <i>Scientia Horticulturae</i> , 2010, 124, 381-386.	3.6	46
16	Online monitoring of volatile organic compound production and emission during sewage sludge composting. <i>Bioresource Technology</i> , 2012, 123, 463-470.	9.6	44
17	Reducing H ₂ S production by O ₂ feedback control during large-scale sewage sludge composting. <i>Waste Management</i> , 2011, 31, 65-70.	7.4	43
18	Biodegradation of nonylphenol during aerobic composting of sewage sludge under two intermittent aeration treatments in a full-scale plant. <i>Environmental Pollution</i> , 2018, 238, 783-791.	7.5	43

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19	Emission characteristics of VOCs and potential ozone formation from a full-scale sewage sludge composting plant. <i>Science of the Total Environment</i> , 2019, 659, 664-672.	8.0	42
20	Lignocellulose biodegradation in the biodrying process of sewage sludge and sawdust. <i>Drying Technology</i> , 2018, 36, 316-324.	3.1	39
21	Emission characteristics and health risk assessment of VOCs from a food waste anaerobic digestion plant: A case study of Suzhou, China. <i>Environmental Pollution</i> , 2020, 257, 113546.	7.5	38
22	Emission of volatile organic compounds from a small-scale municipal solid waste transfer station: Ozone-formation potential and health risk assessment. <i>Waste Management</i> , 2020, 106, 193-202.	7.4	38
23	Complete genome sequence provides insights into the biodrying-related microbial function of <i>Bacillus thermoamylovorans</i> isolated from sewage sludge biodrying material. <i>Bioresource Technology</i> , 2018, 260, 141-149.	9.6	33
24	Application of ceramsite and activated alumina balls as recyclable bulking agents for sludge composting. <i>Chemosphere</i> , 2019, 218, 42-51.	8.2	32
25	Pile settlement and volume reduction measurement during forced-aeration static composting. <i>Bioresource Technology</i> , 2008, 99, 7450-7457.	9.6	30
26	Simulation of substrate degradation in composting of sewage sludge. <i>Waste Management</i> , 2010, 30, 1931-1938.	7.4	29
27	Passivation of lead and cadmium and increase of the nutrient content during sewage sludge composting by phosphate amendments. <i>Environmental Research</i> , 2020, 185, 109431.	7.5	29
28	Removal of triclosan during wastewater treatment process and sewage sludge composting—A case study in the middle reaches of the Yellow River. <i>Environment International</i> , 2020, 134, 105300.	10.0	28
29	Preservation of nitrogen and sulfur and passivation of heavy metals during sewage sludge composting with KH ₂ PO ₄ and FeSO ₄ . <i>Bioresource Technology</i> , 2020, 297, 122383.	9.6	28
30	Characterization of odorous pollution and health risk assessment of volatile organic compound emissions in swine facilities. <i>Atmospheric Environment</i> , 2020, 223, 117233.	4.1	26
31	Effects of lactic acid on modulating the ammonia emissions in co-composts of poultry litter with slaughter sludge. <i>Bioresource Technology</i> , 2020, 315, 123812.	9.6	23
32	Improvement of salinity in sewage sludge compost prior to its utilization as nursery substrate. <i>Journal of the Air and Waste Management Association</i> , 2014, 64, 546-551.	1.9	19
33	Use of life cycle assessment and water quality analysis to evaluate the environmental impacts of the bioremediation of polluted water. <i>Science of the Total Environment</i> , 2021, 761, 143260.	8.0	19
34	Biodegradation of triclosan and triclocarban in sewage sludge during composting under three ventilation strategies. <i>Frontiers of Environmental Science and Engineering</i> , 2019, 13, 1.	6.0	18
35	Effect of source-classified and mixed collection from residential household waste bins on the emission characteristics of volatile organic compounds. <i>Science of the Total Environment</i> , 2020, 707, 135478.	8.0	18
36	Microbial succession and degradation during kitchen waste biodrying, highlighting the thermophilic phase. <i>Bioresource Technology</i> , 2021, 326, 124762.	9.6	18

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37	Fate and biodegradation characteristics of triclocarban in wastewater treatment plants and sewage sludge composting processes and risk assessment after entering the ecological environment. Journal of Hazardous Materials, 2021, 412, 125270.	12.4	18
38	Predicting the probability distribution of Pb-increased lands in sewage-irrigated region: A case study in Beijing, China. Geoderma, 2008, 147, 192-196.	5.1	17
39	Impact of composting strategies on the degradation of nonylphenol in sewage sludge. Ecotoxicology, 2015, 24, 2081-2087.	2.4	16
40	Environmental impact and adaptation study of pig farming relocation in China. Environmental Impact Assessment Review, 2021, 89, 106593.	9.2	16
41	Safe utilization of cadmium- and lead-contaminated farmland by cultivating a winter rapeseed/maize rotation compared with two phytoextraction approaches. Journal of Environmental Management, 2022, 304, 114306.	7.8	16
42	Comparison of Cassava Distillery Residues and Straw as Bulking Agents for Full-scale Sewage Sludge Composting. Compost Science and Utilization, 2017, 25, 1-12.	1.2	13
43	Reduction in greenhouse gas emissions from sludge biodrying instead of heat drying combined with mono-incineration in China. Journal of the Air and Waste Management Association, 2017, 67, 212-218.	1.9	13
44	Time domain reflectometry measured moisture content of sewage sludge compost across temperatures. Waste Management, 2013, 33, 12-17.	7.4	12
45	Perlite as the partial substitute for organic bulking agent during sewage sludge composting. Environmental Geochemistry and Health, 2020, 42, 1517-1529.	3.4	12
46	Microbial degradation in the co-composting of pig manure and biogas residue using a recyclable cement-based synthetic amendment. Waste Management, 2021, 126, 30-40.	7.4	12
47	Correlation of microbial dynamics to odor production and emission in full-scale sewage sludge composting. Bioresource Technology, 2022, 360, 127597.	9.6	12
48	Adding a recyclable amendment to facilitate sewage sludge biodrying and reduce costs. Chemosphere, 2020, 256, 127009.	8.2	10
49	Water-heat balance characteristics of the sewage sludge bio-drying process in a full-scale bio-drying plant with circulated air. Waste Management, 2022, 141, 220-230.	7.4	9
50	Influence of shale gas development on core forests in the subtropical karst region in southwestern China. Science of the Total Environment, 2021, 771, 145287.	8.0	6
51	How newly developed shale gas facilities influence soil erosion in a karst region in SW China. Science of the Total Environment, 2022, 818, 151825.	8.0	6
52	Comparison of heavy metal removal efficiencies in four activated sludge processes. Journal of Central South University, 2015, 22, 3788-3794.	3.0	5
53	Oxygen Monitoring Equipment for Sewage-Sludge Composting and Its Application to Aeration Optimization. Sensors, 2018, 18, 4017.	3.8	4
54	The Concern of Weed Emerged from the Amendment of Sludge Compost to Turfgrass Substrate. Waste and Biomass Valorization, 2017, 8, 433-438.	3.4	3

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55	Assessing the quality of the soil around a shale gas development site in a subtropical karst region in southwest China. <i>Science of the Total Environment</i> , 2022, 830, 154730.	8.0	3
56	Combination of low-accumulation kumquat cultivars and amendments to reduce Cd and Pb accumulation in kumquat grown in contaminated soil. <i>Journal of Cleaner Production</i> , 2022, 365, 132660.	9.3	3
57	Generation and Emission of Ammonia During the Full-Scale Composting of Sewage Sludge. <i>Waste and Biomass Valorization</i> , 2020, 11, 4757-4766.	3.4	2
58	Inhibitory Effects of the Addition of KNO ₃ on Volatile Sulfur Compound Emissions during Sewage Sludge Composting. <i>Bioengineering</i> , 2022, 9, 258.	3.5	2
59	Effects of water-soluble chitosan on <i>Hylotelephium spectabile</i> and soybean growth, as well as Cd uptake and phytoextraction efficiency in a co-planting cultivation system. <i>International Journal of Phytoremediation</i> , 2023, 25, 339-349.	3.1	1