

Hanumanth Kumar Gurijala

List of Publications by Year in descending order

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92
papers

5,964
citations

71102

41
h-index

76900

74
g-index

92
all docs

92
docs citations

92
times ranked

4889
citing authors

#	ARTICLE	IF	CITATIONS
1	Current status of agricultural soil pollution by heavy metals in China: A meta-analysis. <i>Science of the Total Environment</i> , 2019, 651, 3034-3042.	8.0	368
2	Heavy metal pollution and health risk assessment of agricultural soils in a typical peri-urban area in southeast China. <i>Journal of Environmental Management</i> , 2018, 207, 159-168.	7.8	363
3	Potential mechanisms of cadmium removal from aqueous solution by <i>Canna indica</i> derived biochar. <i>Science of the Total Environment</i> , 2016, 562, 517-525.	8.0	361
4	An explanation of soil amendments to reduce cadmium phytoavailability and transfer to food chain. <i>Science of the Total Environment</i> , 2019, 660, 80-96.	8.0	254
5	An integrated approach to assess heavy metal source apportionment in peri-urban agricultural soils. <i>Journal of Hazardous Materials</i> , 2015, 299, 540-549.	12.4	223
6	Capacity and mechanisms of ammonium and cadmium sorption on different wetland-plant derived biochars. <i>Science of the Total Environment</i> , 2016, 539, 566-575.	8.0	208
7	Foliage application of selenium and silicon nanoparticles alleviates Cd and Pb toxicity in rice (<i>Oryza</i>) Tj ETQq1 1 0.784314 rgBT /Overloc	8.0	182
8	Cellular Sequestration of Cadmium in the Hyperaccumulator Plant Species <i>Sedum alfredii</i> . <i>Plant Physiology</i> , 2011, 157, 1914-1925.	4.8	172
9	Comparative efficacy of organic and inorganic amendments for cadmium and lead immobilization in contaminated soil under rice-wheat cropping system. <i>Chemosphere</i> , 2019, 214, 259-268.	8.2	171
10	Removal of phosphate from aqueous solution using magnesium-alginate/chitosan modified biochar microspheres derived from <i>Thalia dealbata</i> . <i>Bioresource Technology</i> , 2016, 218, 1123-1132.	9.6	168
11	A modified receptor model for source apportionment of heavy metal pollution in soil. <i>Journal of Hazardous Materials</i> , 2018, 354, 161-169.	12.4	161
12	Zinc compartmentation in root, transport into xylem, and absorption into leaf cells in the hyperaccumulating species of <i>Sedum alfredii</i> Hance. <i>Planta</i> , 2006, 224, 185-195.	3.2	125
13	Efficiency of lime, biochar, Fe containing biochar and composite amendments for Cd and Pb immobilization in a co-contaminated alluvial soil. <i>Environmental Pollution</i> , 2020, 257, 113609.	7.5	118
14	Complexation with dissolved organic matter and mobility control of heavy metals in the rhizosphere of hyperaccumulator <i>Sedum alfredii</i> . <i>Environmental Pollution</i> , 2013, 182, 248-255.	7.5	110
15	Organic soil additives for the remediation of cadmium contaminated soils and their impact on the soil-plant system: A review. <i>Science of the Total Environment</i> , 2020, 707, 136121.	8.0	108
16	Improvement of cadmium uptake and accumulation in <i>Sedum alfredii</i> by endophytic bacteria <i>Sphingomonas</i> SaMR12: Effects on plant growth and root exudates. <i>Chemosphere</i> , 2014, 117, 367-373.	8.2	106
17	The Effects of the Endophytic Bacterium <i>Pseudomonas fluorescens</i> Sasm05 and IAA on the Plant Growth and Cadmium Uptake of <i>Sedum alfredii</i> Hance. <i>Frontiers in Microbiology</i> , 2017, 8, 2538.	3.5	95
18	Endophytic bacterium <i>Sphingomonas</i> SaMR12 promotes cadmium accumulation by increasing glutathione biosynthesis in <i>Sedum alfredii</i> Hance. <i>Chemosphere</i> , 2016, 154, 358-366.	8.2	91

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19	Anthropogenic mercury emissions from 1980 to 2012 in China. <i>Environmental Pollution</i> , 2017, 226, 230-239.	7.5	87
20	Immobilization of cadmium and lead in contaminated paddy field using inorganic and organic additives. <i>Scientific Reports</i> , 2018, 8, 17839.	3.3	82
21	Effects of pH and low molecular weight organic acids on competitive adsorption and desorption of cadmium and lead in paddy soils. <i>Environmental Monitoring and Assessment</i> , 2012, 184, 6325-6335.	2.7	79
22	Pyrolysis of wetland biomass waste: Potential for carbon sequestration and water remediation. <i>Journal of Environmental Management</i> , 2016, 173, 95-104.	7.8	76
23	Distribution, availability and translocation of heavy metals in soil-oilseed rape (<i>Brassica napus</i> L.) system related to soil properties. <i>Environmental Pollution</i> , 2019, 252, 733-741.	7.5	76
24	COLONIZATION AND MODULATION OF HOST GROWTH AND METAL UPTAKE BY ENDOPHYTIC BACTERIA OF <i>SEDUM ALFREDII</i> . <i>International Journal of Phytoremediation</i> , 2013, 15, 51-64.	3.1	74
25	A review on the thermal treatment of heavy metal hyperaccumulator: Fates of heavy metals and generation of products. <i>Journal of Hazardous Materials</i> , 2021, 405, 123832.	12.4	74
26	Cultivar-specific response of bacterial community to cadmium contamination in the rhizosphere of rice (<i>Oryza sativa</i> L.). <i>Environmental Pollution</i> , 2018, 241, 63-73.	7.5	67
27	The plant-growth promoting bacteria promote cadmium uptake by inducing a hormonal crosstalk and lateral root formation in a hyperaccumulator plant <i>Sedum alfredii</i> . <i>Journal of Hazardous Materials</i> , 2020, 395, 122661.	12.4	67
28	Inoculation of plant growth promoting bacteria from hyperaccumulator facilitated non-host root development and provided promising agents for elevated phytoremediation efficiency. <i>Chemosphere</i> , 2019, 234, 769-776.	8.2	64
29	Responses of soil bacterial community and Cd phytoextraction to a <i>Sedum alfredii</i> -oilseed rape (<i>Brassica napus</i> L. and <i>Brassica juncea</i> L.) intercropping system. <i>Science of the Total Environment</i> , 2020, 723, 138152.	8.0	61
30	Cadmium Exposure- <i>Sedum alfredii</i> Planting Interactions Shape the Bacterial Community in the Hyperaccumulator Plant Rhizosphere. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	60
31	Hydrothermal carbonization of different wetland biomass wastes: Phosphorus reclamation and hydrochar production. <i>Waste Management</i> , 2020, 102, 106-113.	7.4	57
32	Phytoremediation of Cd-contaminated farmland soil via various <i>Sedum alfredii</i> -oilseed rape cropping systems: Efficiency comparison and cost-benefit analysis. <i>Journal of Hazardous Materials</i> , 2021, 419, 126489.	12.4	53
33	Oxalate secretion from the root apex of <i>Sedum alfredii</i> contributes to hyperaccumulation of Cd. <i>Plant and Soil</i> , 2016, 398, 139-152.	3.7	52
34	Structural and functional variability in root-associated bacterial microbiomes of Cd/Zn hyperaccumulator <i>Sedum alfredii</i> . <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 7961-7976.	3.6	52
35	<i>Eisenia fetida</i> and biochar synergistically alleviate the heavy metals content during valorization of biosolids via enhancing vermicompost quality. <i>Science of the Total Environment</i> , 2019, 684, 597-609.	8.0	52
36	Effects of straw return with N fertilizer reduction on crop yield, plant diseases and pests and potential heavy metal risk in a Chinese rice paddy: A field study of 2 consecutive wheat-rice cycles. <i>Environmental Pollution</i> , 2021, 288, 117741.	7.5	51

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37	Elevated CO ₂ improves root growth and cadmium accumulation in the hyperaccumulator <i>Sedum alfredii</i> . <i>Plant and Soil</i> , 2012, 354, 325-334.	3.7	50
38	Fava bean intercropping with <i>Sedum alfredii</i> inoculated with endophytes enhances phytoremediation of cadmium and lead co-contaminated field. <i>Environmental Pollution</i> , 2020, 265, 114861.	7.5	49
39	Physiological and metabolomics responses of two wheat (<i>Triticum aestivum</i> L.) genotypes differing in grain cadmium accumulation. <i>Science of the Total Environment</i> , 2021, 769, 145345.	8.0	48
40	Simultaneous sorption and catalytic oxidation of trivalent antimony by <i>Canna indica</i> derived biochars. <i>Environmental Pollution</i> , 2017, 229, 394-402.	7.5	46
41	Genotypic differences in cadmium and nitrate co-accumulation among the Chinese cabbage genotypes under field conditions. <i>Scientia Horticulturae</i> , 2016, 201, 92-100.	3.6	44
42	Spatial imaging and speciation of Cu in rice (<i>Oryza sativa</i> L.) roots using synchrotron-based X-ray microfluorescence and X-ray absorption spectroscopy. <i>Chemosphere</i> , 2017, 175, 356-364.	8.2	44
43	Field crops (<i>Ipomoea aquatica</i> Forsk. and <i>Brassica chinensis</i> L.) for phytoremediation of cadmium and nitrate co-contaminated soils via rotation with <i>Sedum alfredii</i> Hance. <i>Environmental Science and Pollution Research</i> , 2017, 24, 19293-19305.	5.3	44
44	<i>Pseudomonas fluorescens</i> promote photosynthesis, carbon fixation and cadmium phytoremediation of hyperaccumulator <i>Sedum alfredii</i> . <i>Science of the Total Environment</i> , 2020, 726, 138554.	8.0	43
45	Biochar from constructed wetland biomass waste: A review of its potential and challenges. <i>Chemosphere</i> , 2022, 287, 132259.	8.2	42
46	An endophytic bacterium <i>Acinetobacter calcoaceticus</i> Sasm3-enhanced phytoremediation of nitrate-cadmium compound polluted soil by intercropping <i>Sedum alfredii</i> with oilseed rape. <i>Environmental Science and Pollution Research</i> , 2015, 22, 17625-17635.	5.3	40
47	Transformation of Phosphorus in Wetland Biomass during Pyrolysis and Hydrothermal Treatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 16520-16528.	6.7	40
48	Identification of high cadmium-accumulating oilseed sunflower (<i>Helianthus annuus</i>) cultivars for phytoremediation of an Oxisol and an Inceptisol. <i>Ecotoxicology and Environmental Safety</i> , 2020, 187, 109857.	6.0	40
49	Characterization of fava bean (<i>Vicia faba</i> L.) genotypes for phytoremediation of cadmium and lead co-contaminated soils coupled with agro-production. <i>Ecotoxicology and Environmental Safety</i> , 2019, 171, 190-198.	6.0	39
50	New insight into the impact of biochar during vermi-stabilization of divergent biowastes: Literature synthesis and research pursuits. <i>Chemosphere</i> , 2020, 238, 124679.	8.2	38
51	The effects of endophytic bacterium SaMR12 on <i>Sedum alfredii</i> Hance metal ion uptake and the expression of three transporter family genes after cadmium exposure. <i>Environmental Science and Pollution Research</i> , 2017, 24, 9350-9360.	5.3	37
52	Impact Assessment of Cadmium Toxicity and Its Bioavailability in Human Cell Lines (Caco-2 and HL-7702). <i>BioMed Research International</i> , 2014, 2014, 1-8.	1.9	36
53	Sepiolite clay: A review of its applications to immobilize toxic metals in contaminated soils and its implications in soil-plant system. <i>Environmental Technology and Innovation</i> , 2021, 23, 101598.	6.1	36
54	Endophytic bacterium <i>Buttiauxella</i> sp. SaSR13 improves plant growth and cadmium accumulation of hyperaccumulator <i>Sedum alfredii</i> . <i>Environmental Science and Pollution Research</i> , 2018, 25, 21844-21854.	5.3	31

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55	Role of sulfur assimilation pathway in cadmium hyperaccumulation by <i>Sedum alfredii</i> Hance. <i>Ecotoxicology and Environmental Safety</i> , 2014, 100, 159-165.	6.0	30
56	Immobilization and sorption of Cd and Pb in contaminated stagnic anthrosols as amended with biochar and manure combined with inorganic additives. <i>Journal of Environmental Management</i> , 2020, 257, 109999.	7.8	30
57	Identification of wheat (<i>Triticum aestivum</i> L.) genotypes for food safety on two different cadmium contaminated soils. <i>Environmental Science and Pollution Research</i> , 2020, 27, 7943-7956.	5.3	29
58	Foliar application of zinc and selenium alleviates cadmium and lead toxicity of water spinach "Bioavailability/cytotoxicity study with human cell lines. <i>Environment International</i> , 2020, 145, 106122.	10.0	29
59	Endophytic inoculation coupled with soil amendment and foliar inhibitor ensure phytoremediation and argo-production in cadmium contaminated soil under oilseed rape-rice rotation system. <i>Science of the Total Environment</i> , 2020, 748, 142481.	8.0	28
60	Functionalized biochars: Synthesis, characterization, and applications for removing trace elements from water. <i>Journal of Hazardous Materials</i> , 2022, 437, 129337.	12.4	28
61	Assessing the immobilization efficiency of organic and inorganic amendments for cadmium phytoavailability to wheat. <i>Journal of Soils and Sediments</i> , 2019, 19, 3708-3717.	3.0	26
62	Hydrothermal conversion of Cd/Zn hyperaccumulator (<i>Sedum alfredii</i>) for heavy metal separation and hydrochar production. <i>Journal of Hazardous Materials</i> , 2022, 423, 127122.	12.4	25
63	Mechanisms of water regime effects on uptake of cadmium and nitrate by two ecotypes of water spinach (<i>Ipomoea aquatica</i> Forsk.) in contaminated soil. <i>Chemosphere</i> , 2020, 246, 125798.	8.2	24
64	The Cd phytoextraction potential of hyperaccumulator <i>Sedum alfredii</i> -oilseed rape intercropping system under different soil types and comprehensive benefits evaluation under field conditions. <i>Environmental Pollution</i> , 2021, 285, 117504.	7.5	24
65	Rhizobium rhizogenes-mediated root proliferation in Cd/Zn hyperaccumulator <i>Sedum alfredii</i> and its effects on plant growth promotion, root exudates and metal uptake efficiency. <i>Journal of Hazardous Materials</i> , 2022, 424, 127442.	12.4	24
66	A field study reveals links between hyperaccumulating <i>Sedum</i> plants-associated bacterial communities and Cd/Zn uptake and translocation. <i>Science of the Total Environment</i> , 2022, 805, 150400.	8.0	22
67	Double-edged effects of polyvinyl chloride addition on heavy metal separation and biochar production during pyrolysis of Cd/Zn hyperaccumulator. <i>Journal of Hazardous Materials</i> , 2021, 416, 125793.	12.4	21
68	<i>Pseudomonas fluorescens</i> accelerates a reverse and long-distance transport of cadmium and sucrose in the hyperaccumulator plant <i>Sedum alfredii</i> . <i>Chemosphere</i> , 2020, 256, 127156.	8.2	21
69	Effect of elevated CO ₂ concentration on photosynthetic characteristics of hyperaccumulator <i>Sedum alfredii</i> under cadmium stress. <i>Journal of Integrative Plant Biology</i> , 2015, 57, 653-660.	8.5	19
70	A rapid method for sensitive profiling of folates from plant leaf by ultra-performance liquid chromatography coupled to tandem quadrupole mass spectrometer. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017, 1040, 169-179.	2.3	18
71	Toxic Metal Pollution and Ecological Risk Assessment in Sediments of Water Reservoirs in Southeast China. <i>Soil and Sediment Contamination</i> , 2019, 28, 695-715.	1.9	18
72	Cadmium mobility in three contaminated soils amended with different additives as evaluated by dynamic flow-through experiments. <i>Chemosphere</i> , 2020, 261, 127763.	8.2	18

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73	Competitive sorption and desorption of cadmium and lead in paddy soils of eastern China. <i>Environmental Earth Sciences</i> , 2013, 68, 1599-1607.	2.7	17
74	Elevated CO ₂ concentration increase the mobility of Cd and Zn in the rhizosphere of hyperaccumulator <i>Sedum alfredii</i> . <i>Environmental Science and Pollution Research</i> , 2014, 21, 5899-5908.	5.3	17
75	A phytoremediation coupled with agro-production mode suppresses <i>Fusarium</i> wilt disease and alleviates cadmium phytotoxicity of cucumber (<i>Cucumis sativus</i> L.) in continuous cropping greenhouse soil. <i>Chemosphere</i> , 2021, 270, 128634.	8.2	15
76	Spatial variation and fractionation of fluoride in tobacco-planted soils and leaf fluoride concentration in tobacco in Bijie City, Southwest China. <i>Environmental Science and Pollution Research</i> , 2021, 28, 26112-26123.	5.3	15
77	Cadmium phytoextraction through <i>Brassica juncea</i> L. under different consortia of plant growth-promoting bacteria from different ecological niches. <i>Ecotoxicology and Environmental Safety</i> , 2022, 237, 113541.	6.0	15
78	Dolomite Phosphate Rock-Based Slow-Release Fertilizer for Agriculture and Landscapes. <i>Communications in Soil Science and Plant Analysis</i> , 2012, 43, 1344-1362.	1.4	14
79	Effects of CO ₂ application coupled with endophyte inoculation on rhizosphere characteristics and cadmium uptake by <i>Sedum alfredii</i> Hance in response to cadmium stress. <i>Journal of Environmental Management</i> , 2019, 239, 287-298.	7.8	14
80	The Removal of Antibiotics in Relation to a Microbial Community in an Integrated Constructed Wetland for Tail Water Decontamination. <i>Wetlands</i> , 2020, 40, 993-1004.	1.5	14
81	Preincubation and vermicomposting of divergent biosolids exhibit vice versa multielements stoichiometry and earthworm physiology. <i>Journal of Environmental Management</i> , 2019, 243, 144-156.	7.8	13
82	Accumulation and distribution of cadmium and lead in 28 oilseed rape cultivars grown in a contaminated field. <i>Environmental Science and Pollution Research</i> , 2020, 27, 2400-2411.	5.3	13
83	A hyperaccumulator plant <i>Sedum alfredii</i> recruits Cd/Zn-tolerant but not Pb-tolerant endospheric bacterial communities from its rhizospheric soil. <i>Plant and Soil</i> , 2020, 455, 257-270.	3.7	12
84	COVID-19 Crisis: How Can Plant Biotechnology Help?. <i>Plants</i> , 2021, 10, 352.	3.5	12
85	Effects of CO ₂ application and endophytic bacterial inoculation on morphological properties, photosynthetic characteristics and cadmium uptake of two ecotypes of <i>Sedum alfredii</i> Hance. <i>Environmental Science and Pollution Research</i> , 2019, 26, 1809-1820.	5.3	10
86	Leaching Behavior of Heavy Metals In Biosolids Amended Sandy Soils. <i>Compost Science and Utilization</i> , 2008, 16, 144-151.	1.2	9
87	Genetic and physiological regulation of folate in pak choi (<i>Brassica rapa</i> subsp. <i>Chinensis</i>) germplasm. <i>Journal of Experimental Botany</i> , 2020, 71, 4914-4929.	4.8	8
88	Phytoavailability, translocation and soil thresholds derivation of cadmium for food safety through soil-wheat (<i>Triticum aestivum</i> L.) system. <i>Environmental Science and Pollution Research</i> , 2021, 28, 37716-37726.	5.3	8
89	Cataloging of Cd Allocation in Late Rice Cultivars Grown in Polluted Gleysol: Implications for Selection of Cultivars with Minimal Risk to Human Health. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 3632.	2.6	4
90	Comparative assessment of <i>Brassica pekinensis</i> L. genotypes for phytoavoidance of nitrate, cadmium and lead in multi-pollutant field. <i>International Journal of Phytoremediation</i> , 2020, 22, 972-985.	3.1	3

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91	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.	3.1	2
92	Application of biochar for attenuating heavy metals in contaminated soil: potential implications and research gaps. , 2022, , 77-110.		0