

Avanthi Deshani Igalavithana

List of Publications by Citations

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41
papers

2,009
citations

23
h-index

43
g-index

43
ext. papers

2,765
ext. citations

9.5
avg, IF

5.31
L-index

#	Paper	IF	Citations
41	Heavy metal immobilization and microbial community abundance by vegetable waste and pine cone biochar of agricultural soils. <i>Chemosphere</i> , 2017 , 174, 593-603	8.4	184
40	Metal contamination and bioremediation of agricultural soils for food safety and sustainability. <i>Nature Reviews Earth & Environment</i> , 2020 , 1, 366-381	30.2	171
39	Biochar-supported nZVI (nZVI/BC) for contaminant removal from soil and water: A critical review. <i>Journal of Hazardous Materials</i> , 2019 , 373, 820-834	12.8	164
38	Removal of hexavalent chromium in aqueous solutions using biochar: Chemical and spectroscopic investigations. <i>Science of the Total Environment</i> , 2018 , 625, 1567-1573	10.2	139
37	Value-added chemicals from food supply chain wastes: State-of-the-art review and future prospects. <i>Chemical Engineering Journal</i> , 2019 , 375, 121983	14.7	138
36	Advances and future directions of biochar characterization methods and applications. <i>Critical Reviews in Environmental Science and Technology</i> , 2017 , 47, 2275-2330	11.1	128
35	Biochar-induced metal immobilization and soil biogeochemical process: An integrated mechanistic approach. <i>Science of the Total Environment</i> , 2020 , 698, 134112	10.2	87
34	Biochar-based adsorbents for carbon dioxide capture: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 119, 109582	16.2	81
33	Characterization of bioenergy biochar and its utilization for metal/metalloid immobilization in contaminated soil. <i>Science of the Total Environment</i> , 2018 , 640-641, 704-713	10.2	80
32	Arsenic(V) biosorption by charred orange peel in aqueous environments. <i>International Journal of Phytoremediation</i> , 2016 , 18, 442-9	3.9	65
31	Gasification biochar from biowaste (food waste and wood waste) for effective CO adsorption. <i>Journal of Hazardous Materials</i> , 2020 , 391, 121147	12.8	62
30	Recent advances in control technologies for non-point source pollution with nitrogen and phosphorous from agricultural runoff: current practices and future prospects. <i>Applied Biological Chemistry</i> , 2020 , 63,	2.9	59
29	Soil lead immobilization by biochars in short-term laboratory incubation studies. <i>Environment International</i> , 2019 , 127, 190-198	12.9	54
28	Sustainable gasification biochar as a high efficiency adsorbent for CO ₂ capture: A facile method to designer biochar fabrication. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 124, 109785	16.2	51
27	Effect of Corn Residue Biochar on the Hydraulic Properties of Sandy Loam Soil. <i>Sustainability</i> , 2017 , 9, 266	3.6	43
26	Recent advances in mitigating membrane biofouling using carbon-based materials. <i>Journal of Hazardous Materials</i> , 2020 , 382, 120976	12.8	43
25	Sustainable removal of Hg(II) by sulfur-modified pine-needle biochar. <i>Journal of Hazardous Materials</i> , 2020 , 388, 122048	12.8	40

24	Slow pyrolyzed biochars from crop residues for soil metal(loid) immobilization and microbial community abundance in contaminated agricultural soils. <i>Chemosphere</i> , 2017 , 177, 157-166	8.4	37
23	Effect of biochars pyrolyzed in N and CO, and feedstock on microbial community in metal(loid)s contaminated soils. <i>Environment International</i> , 2019 , 126, 791-801	12.9	36
22	Metal(loid) immobilization in soils with biochars pyrolyzed in N and CO environments. <i>Science of the Total Environment</i> , 2018 , 630, 1103-1114	10.2	35
21	Mechanistic insights of 2,4-D sorption onto biochar: Influence of feedstock materials and biochar properties. <i>Bioresource Technology</i> , 2017 , 246, 160-167	11	35
20	Carbon dioxide capture in biochar produced from pine sawdust and paper mill sludge: Effect of porous structure and surface chemistry. <i>Science of the Total Environment</i> , 2020 , 739, 139845	10.2	34
19	Fe(III) loaded chitosan-biochar composite fibers for the removal of phosphate from water. <i>Journal of Hazardous Materials</i> , 2021 , 415, 125464	12.8	31
18	Efficient succinic acid production using a biochar-treated textile waste hydrolysate in an in situ fibrous bed bioreactor. <i>Biochemical Engineering Journal</i> , 2019 , 149, 107249	4.2	21
17	Assessment of Soil Health in Urban Agriculture: Soil Enzymes and Microbial Properties. <i>Sustainability</i> , 2017 , 9, 310	3.6	21
16	Biochar Effects on Rice Paddy: Meta-analysis. <i>Advances in Agronomy</i> , 2018 , 1-32	7.7	21
15	The Effects of Biochar Amendment on Soil Fertility. <i>SSSA Special Publication Series</i> , 2015 , 123-144	0	20
14	Effects of selenium on the uptake of toxic trace elements by crop plants: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2020 , 1-36	11.1	19
13	Sulphamethazine in poultry manure changes carbon and nitrogen mineralisation in soils. <i>Chemistry and Ecology</i> , 2016 , 32, 899-918	2.3	18
12	Effects of aging and weathering on immobilization of trace metals/metalloids in soils amended with biochar. <i>Environmental Sciences: Processes and Impacts</i> , 2020 , 22, 1790-1808	4.3	14
11	Distribution characteristics of Cd in different types of leaves of <i>Festuca arundinacea</i> intercropped with <i>Cicer arietinum</i> L.: A new strategy to remove pollutants by harvesting senescent and dead leaves. <i>Environmental Research</i> , 2019 , 179, 108801	7.9	11
10	Effects of elevated CO on the phytoremediation efficiency of <i>Noccaea caerulea</i> . <i>Environmental Pollution</i> , 2019 , 255, 113169	9.3	11
9	Effects of field scale in situ biochar incorporation on soil environment in a tropical highly weathered soil. <i>Environmental Pollution</i> , 2021 , 272, 116009	9.3	10
8	Energy, economic, and environmental impacts of sustainable biochar systems in rural China. <i>Critical Reviews in Environmental Science and Technology</i> , 2020 , 1-29	11.1	9
7	Heavy metal dissolution mechanisms from electrical industrial sludge. <i>Science of the Total Environment</i> , 2019 , 696, 133922	10.2	7

6	Microplastics and Potentially Toxic Elements: Potential Human Exposure Pathways through Agricultural Lands and Policy Based Countermeasures. <i>Microplastics</i> , 2022 , 1, 102-120		7
5	Determining soil quality in urban agricultural regions by soil enzyme-based index. <i>Environmental Geochemistry and Health</i> , 2017 , 39, 1531-1544	4-7	6
4	Engineered/designer hierarchical porous carbon materials for organic pollutant removal from water and wastewater: A critical review. <i>Critical Reviews in Environmental Science and Technology</i> , 2021 , 51, 2295-2328	11.1	6
3	Biochar alters chemical and microbial properties of microplastic-contaminated soil.. <i>Environmental Research</i> , 2022 , 112807	7-9	5
2	Developed Fungal-Bacterial Biofilms Having Nitrogen Fixers: Universal Biofertilizers for Legumes and Non-Legumes 2015 , 1041-1046		3
1	Potentially Toxic Element Contamination and Its Impact on Soil Biological Quality in Urban Agriculture: A Critical Review. <i>Soil Biology</i> , 2015 , 81-101	1	3