

Girish Choppala

List of Publications by Year in descending order

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46
papers

3,976
citations

218381

26
h-index

233125

45
g-index

46
all docs

46
docs citations

46
times ranked

4707
citing authors

#	ARTICLE	IF	CITATIONS
1	Selenium Accumulation and Speciation in Chickpea (<i>Cicer arietinum</i>) Impacted by S in Soils: Potential for Biofortification. ACS Agricultural Science and Technology, 2022, 2, 135-143.	1.0	2
2	An X-ray absorption spectroscopic study of the Fe(II)-induced transformation of Cr(VI)-substituted schwertmannite. Journal of Hazardous Materials, 2022, 431, 128580.	6.5	8
3	Impact of Sulfur on Biofortification and Speciation of Selenium in Wheat Grain Grown in Selenium-Deficient Soils. Journal of Soil Science and Plant Nutrition, 2022, 22, 3243-3253.	1.7	2
4	Tooeelite Transformation and Coupled As(III) Mobilization Are Induced by Fe(II) under Anoxic, Circumneutral Conditions. Environmental Science & Technology, 2022, 56, 9446-9452.	4.6	2
5	Rhizoremediation as a green technology for the remediation of petroleum hydrocarbon-contaminated soils. Journal of Hazardous Materials, 2021, 401, 123282.	6.5	94
6	Arsenic-Imposed Effects on Schwertmannite and Jarosite Formation in Acid Mine Drainage and Coupled Impacts on Arsenic Mobility. ACS Earth and Space Chemistry, 2021, 5, 1418-1435.	1.2	35
7	Arsenic bioaccessibility and fractionation in abandoned mine soils from selected sites in New South Wales, Australia and human health risk assessment. Ecotoxicology and Environmental Safety, 2021, 223, 112611.	2.9	16
8	Are root elongation assays suitable for establishing metallic anion ecotoxicity thresholds?. Journal of Hazardous Materials Letters, 2021, 2, 100024.	2.0	2
9	Geochemical fractionation and mineralogy of metal(loid)s in abandoned mine soils: Insights into arsenic behaviour and implications to remediation. Journal of Hazardous Materials, 2020, 399, 123029.	6.5	29
10	A new pathway for hexavalent chromium formation in soil: Fire-induced alteration of iron oxides. Environmental Pollution, 2019, 247, 618-625.	3.7	24
11	Chromium(VI) formation via heating of Cr(III)-Fe(III)-(oxy)hydroxides: A pathway for fire-induced soil pollution. Chemosphere, 2019, 222, 440-444.	4.2	21
12	Humic acid impacts antimony partitioning and speciation during iron(II)-induced ferrihydrite transformation. Science of the Total Environment, 2019, 683, 399-410.	3.9	50
13	Waste to watt: Anaerobic digestion of wastewater irrigated biomass for energy and fertiliser production. Journal of Environmental Management, 2019, 239, 73-83.	3.8	34
14	Dissolution and redistribution of trace elements and nutrients during dredging of iron monosulfide enriched sediments. Chemosphere, 2018, 201, 380-387.	4.2	19
15	Comparative sorption of chromium species as influenced by pH, surface charge and organic matter content in contaminated soils. Journal of Geochemical Exploration, 2018, 184, 255-260.	1.5	103
16	Cadmium solubility and bioavailability in soils amended with acidic and neutral biochar. Science of the Total Environment, 2018, 610-611, 1457-1466.	3.9	74
17	Impact of modified chitosan on pore water bioavailability of zinc in contaminated soils. Journal of Geochemical Exploration, 2018, 186, 94-99.	1.5	1
18	Chromium(III) substitution inhibits the Fe(II)-accelerated transformation of schwertmannite. PLoS ONE, 2018, 13, e0208355.	1.1	21

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19	Chromium(VI) removal by siderite (FeCO ₃) in anoxic aqueous solutions: An X-ray absorption spectroscopy investigation. <i>Science of the Total Environment</i> , 2018, 640-641, 1424-1431.	3.9	52
20	Pyrogenic carbon in Australian soils. <i>Science of the Total Environment</i> , 2017, 586, 849-857.	3.9	13
21	Sources, distribution, bioavailability, toxicity, and risk assessment of heavy metal(loid)s in complementary medicines. <i>Environment International</i> , 2017, 108, 103-118.	4.8	78
22	Potential value of phosphate compounds in enhancing immobilization and reducing bioavailability of mixed heavy metal contaminants in shooting range soil. <i>Chemosphere</i> , 2017, 184, 197-206.	4.2	127
23	Oxidative transformation of iron monosulfides and pyrite in estuarine sediments: Implications for trace metals mobilisation. <i>Journal of Environmental Management</i> , 2017, 186, 158-166.	3.8	15
24	Impact of wastewater derived dissolved organic carbon on reduction, mobility, and bioavailability of As(V) and Cr(VI) in contaminated soils. <i>Journal of Environmental Management</i> , 2017, 186, 183-191.	3.8	30
25	Evaluation of modified chitosan for remediation of zinc contaminated soils. <i>Journal of Geochemical Exploration</i> , 2017, 182, 180-184.	1.5	18
26	Removal and Recovery of Metals by Biosorbents and Biochars Derived From Biowastes. , 2016, , 149-177.		18
27	Designing advanced biochar products for maximizing greenhouse gas mitigation potential. <i>Critical Reviews in Environmental Science and Technology</i> , 2016, 46, 1367-1401.	6.6	86
28	Sorption kinetics of zinc and nickel on modified chitosan. <i>Environmental Monitoring and Assessment</i> , 2016, 188, 507.	1.3	13
29	Pore-Water Carbonate and Phosphate As Predictors of Arsenate Toxicity in Soil. <i>Environmental Science & Technology</i> , 2016, 50, 13062-13069.	4.6	15
30	Differential effect of biochar upon reduction-induced mobility and bioavailability of arsenate and chromate. <i>Chemosphere</i> , 2016, 144, 374-381.	4.2	116
31	Concomitant reduction and immobilization of chromium in relation to its bioavailability in soils. <i>Environmental Science and Pollution Research</i> , 2015, 22, 8969-8978.	2.7	73
32	Effect of Coal Combustion Products in Reducing Soluble Phosphorus in Soil II: Leaching Study. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	1.1	5
33	Phytocapping: An Alternative Technology for the Sustainable Management of Landfill Sites. <i>Critical Reviews in Environmental Science and Technology</i> , 2014, 44, 561-637.	6.6	50
34	Cellular Mechanisms in Higher Plants Governing Tolerance to Cadmium Toxicity. <i>Critical Reviews in Plant Sciences</i> , 2014, 33, 374-391.	2.7	279
35	Phosphorus-arsenic interactions in variable-charge soils in relation to arsenic mobility and bioavailability. <i>Science of the Total Environment</i> , 2013, 463-464, 1154-1162.	3.9	131
36	Comparative Sorption and Mobility of Cr(III) and Cr(VI) Species in a Range of Soils: Implications to Bioavailability. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	1.1	50

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37	Potential of Novel Bacterial Consortium for the Remediation of Chromium Contamination. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	1.1	18
38	Comparative Sorption of Pb and Cd by Biochars and Its Implication for Metal Immobilization in Soils. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	1.1	104
39	Chromium Contamination and Its Risk Management in Complex Environmental Settings. <i>Advances in Agronomy</i> , 2013, 120, 129-172.	2.4	110
40	Chemodynamics of chromium reduction in soils: Implications to bioavailability. <i>Journal of Hazardous Materials</i> , 2013, 261, 718-724.	6.5	39
41	Microbial Transformation of Trace Elements in Soils in Relation to Bioavailability and Remediation. <i>Reviews of Environmental Contamination and Toxicology</i> , 2013, 225, 1-56.	0.7	41
42	Differential effect of coal combustion products on the bioavailability of phosphorus between inorganic and organic nutrient sources. <i>Journal of Hazardous Materials</i> , 2013, 261, 817-825.	6.5	9
43	The Influence of Biochar and Black Carbon on Reduction and Bioavailability of Chromate in Soils. <i>Journal of Environmental Quality</i> , 2012, 41, 1175-1184.	1.0	171
44	Stabilization of carbon in composts and biochars in relation to carbon sequestration and soil fertility. <i>Science of the Total Environment</i> , 2012, 424, 264-270.	3.9	126
45	Biochar reduces the bioavailability and phytotoxicity of heavy metals. <i>Plant and Soil</i> , 2011, 348, 439-451.	1.8	902
46	Role of organic amendments on enhanced bioremediation of heavy metal(loid) contaminated soils. <i>Journal of Hazardous Materials</i> , 2011, 185, 549-574.	6.5	750