Girish Choppala

List of Publications by Year
in descending order

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	Biochar reduces the bioavailability and phytotoxicity of heavy metals. Plant and Soil, 2011, 348, 439-451.	1.8	902
2	Role of organic amendments on enhanced bioremediation of heavy metal(loid) contaminated soils. Journal of Hazardous Materials, 2011, 185, 549-574.	6.5	750
3	Cellular Mechanisms in Higher Plants Governing Tolerance to Cadmium Toxicity. Critical Reviews in Plant Sciences, 2014, 33, 374-391.	2.7	279
4	The Influence of Biochar and Black Carbon on Reduction and Bioavailability of Chromate in Soils. Journal of Environmental Quality, 2012, 41, 1175-1184.	1.0	171
5	Phosphorusâ€"arsenic interactions in variable-charge soils in relation to arsenic mobility and bioavailability. Science of the Total Environment, 2013, 463-464, 1154-1162.	3.9	131
6	Potential value of phosphate compounds in enhancing immobilization and reducing bioavailability of mixed heavy metal contaminants in shooting range soil. Chemosphere, 2017, 184, 197-206.	4.2	127
7	Stabilization of carbon in composts and biochars in relation to carbon sequestration and soil fertility. Science of the Total Environment, 2012, 424, 264-270.	3.9	126
8	Differential effect of biochar upon reduction-induced mobility and bioavailability of arsenate and chromate. Chemosphere, 2016, 144, 374-381.	4.2	116
9	Chromium Contamination and Its Risk Management in Complex Environmental Settings. Advances in Agronomy, 2013, 120, 129-172.	2.4	110
10	Comparative Sorption of Pb and Cd by Biochars and Its Implication for Metal Immobilization in Soils. Water, Air, and Soil Pollution, 2013, 224, 1.	1.1	104
11	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
12	Rhizoremediation as a green technology for the remediation of petroleum hydrocarbon-contaminated soils. Journal of Hazardous Materials, 2021, 401, 123282.	6.5	94
13	Designing advanced biochar products for maximizing greenhouse gas mitigation potential. Critical Reviews in Environmental Science and Technology, 2016, 46, 1367-1401.	6.6	86
14	Sources, distribution, bioavailability, toxicity, and risk assessment of heavy metal(loid)s in complementary medicines. Environment International, 2017, 108, 103-118.	4.8	78
15	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
16	Concomitant reduction and immobilization of chromium in relation to its bioavailability in soils. Environmental Science and Pollution Research, 2015, 22, 8969-8978.	2.7	73
17	Chromium(VI) removal by siderite (FeCO3) in anoxic aqueous solutions: An X-ray absorption spectroscopy investigation. Science of the Total Environment, 2018, 640-641, 1424-1431.	3.9	52
18	Comparative Sorption and Mobility of Cr(III) and Cr(VI) Species in a Range of Soils: Implications to Bioavailability. Water, Air, and Soil Pollution, 2013, 224, 1.	1.1	50

#	Article	IF	Citations
19	Phytocapping: An Alternative Technology for the Sustainable Management of Landfill Sites. Critical Reviews in Environmental Science and Technology, 2014, 44, 561-637.	6.6	50
20	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
21	Microbial Transformation of Trace Elements in Soils in Relation to Bioavailability and Remediation. Reviews of Environmental Contamination and Toxicology, 2013, 225, 1-56.	0.7	41
22	Chemodynamics of chromium reduction in soils: Implications to bioavailability. Journal of Hazardous Materials, 2013, 261, 718-724.	6.5	39
23	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
24	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
25	Impact of wastewater derived dissolved organic carbon on reduction, mobility, and bioavailability of As(V) and Cr(VI) in contaminated soils. Journal of Environmental Management, 2017, 186, 183-191.	3.8	30
26	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
27	A new pathway for hexavalent chromium formation in soil: Fire-induced alteration of iron oxides. Environmental Pollution, 2019, 247, 618-625.	3.7	24
28	Chromium(III) substitution inhibits the Fe(II)-accelerated transformation of schwertmannite. PLoS ONE, 2018, 13, e0208355.	1.1	21
29	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
30	Dissolution and redistribution of trace elements and nutrients during dredging of iron monosulfide enriched sediments. Chemosphere, 2018, 201, 380-387.	4.2	19
31	Potential of Novel Bacterial Consortium for the Remediation of Chromium Contamination. Water, Air, and Soil Pollution, 2013, 224, 1.	1.1	18
32	Removal and Recovery of Metals by Biosorbents and Biochars Derived From Biowastes. , 2016, , 149-177.		18
33	Evaluation of modified chitosan for remediation of zinc contaminated soils. Journal of Geochemical Exploration, 2017, 182, 180-184.	1.5	18
34	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
35	Pore-Water Carbonate and Phosphate As Predictors of Arsenate Toxicity in Soil. Environmental Science & Technology, 2016, 50, 13062-13069.	4.6	15
36	Oxidative transformation of iron monosulfides and pyrite in estuarine sediments: Implications for trace metals mobilisation. Journal of Environmental Management, 2017, 186, 158-166.	3.8	15

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37	Sorption kinetics of zinc and nickel on modified chitosan. Environmental Monitoring and Assessment, 2016, 188, 507.	1.3	13
38	Pyrogenic carbon in Australian soils. Science of the Total Environment, 2017, 586, 849-857.	3.9	13
39	Differential effect of coal combustion products on the bioavailability of phosphorus between inorganic and organic nutrient sources. Journal of Hazardous Materials, 2013, 261, 817-825.	6.5	9
40	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
41	Effect of Coal Combustion Products in Reducing Soluble Phosphorus in Soil II: Leaching Study. Water, Air, and Soil Pollution, 2014, 225, 1.	1.1	5
42	Are root elongation assays suitable for establishing metallic anion ecotoxicity thresholds?. Journal of Hazardous Materials Letters, 2021, 2, 100024.	2.0	2
43	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
44	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
45	Tooeleite 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
46	Impact of modified chitosan on pore water bioavailability of zinc in contaminated soils. Journal of Geochemical Exploration, 2018, 186, 94-99.	1.5	1