

# Vasileios Antoniadis

## List of Publications by Year in descending order

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Version: 2024-02-01

80  
papers

4,177  
citations

147726

31  
h-index

118793

62  
g-index

82  
all docs

82  
docs citations

82  
times ranked

3974  
citing authors

#	ARTICLE	IF	CITATIONS
1	Trace elements in the soil-plant interface: Phytoavailability, translocation, and phytoremediation – A review. <i>Earth-Science Reviews</i> , 2017, 171, 621-645.	4.0	588
2	Health risk assessment of potentially toxic elements in soils along the Central Elbe River, Germany. <i>Environment International</i> , 2019, 126, 76-88.	4.8	299
3	A critical prospective analysis of the potential toxicity of trace element regulation limits in soils worldwide: Are they protective concerning health risk assessment? - A review. <i>Environment International</i> , 2019, 127, 819-847.	4.8	280
4	A critical review on arsenic removal from water using biochar-based sorbents: The significance of modification and redox reactions. <i>Chemical Engineering Journal</i> , 2020, 396, 125195.	6.6	243
5	The role of dissolved organic carbon in the mobility of Cd, Ni and Zn in sewage sludge-amended soils. <i>Environmental Pollution</i> , 2002, 117, 515-521.	3.7	223
6	Bioavailability and risk assessment of potentially toxic elements in garden edible vegetables and soils around a highly contaminated former mining area in Germany. <i>Journal of Environmental Management</i> , 2017, 186, 192-200.	3.8	218
7	Soil and maize contamination by trace elements and associated health risk assessment in the industrial area of Volos, Greece. <i>Environment International</i> , 2019, 124, 79-88.	4.8	167
8	Effects of short-term pH fluctuations on cadmium, nickel, lead, and zinc availability to ryegrass in a sewage sludge-amended field. <i>Chemosphere</i> , 2008, 71, 759-764.	4.2	148
9	Phytoremediation potential of twelve wild plant species for toxic elements in a contaminated soil. <i>Environment International</i> , 2021, 146, 106233.	4.8	85
10	Monometal and competitive adsorption of heavy metals by sewage sludge-amended soil. <i>Chemosphere</i> , 2007, 68, 489-494.	4.2	79
11	Sustainable applications of rice feedstock in agro-environmental and construction sectors: A global perspective. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 153, 111791.	8.2	78
12	Soil contamination by potentially toxic elements and the associated human health risk in geo- and anthropogenic contaminated soils: A case study from the temperate region (Germany) and the arid region (Egypt). <i>Environmental Pollution</i> , 2020, 262, 114312.	3.7	77
13	Challenges in microbially and chelate-assisted phytoextraction of cadmium and lead – A review. <i>Environmental Pollution</i> , 2021, 287, 117667.	3.7	74
14	Availability of Cd, Ni and Zn to Ryegrass in Sewage Sludge-Treated Soils at Different Temperatures. <i>Water, Air, and Soil Pollution</i> , 2001, 132, 201-214.	1.1	69
15	Bioavailability and health risk assessment of potentially toxic elements in Thrasio Plain, near Athens, Greece. <i>Environmental Geochemistry and Health</i> , 2017, 39, 319-330.	1.8	64
16	Sorption of cadmium, nickel, and zinc in mono- and multimetal systems. <i>Applied Geochemistry</i> , 2007, 22, 2375-2380.	1.4	61
17	Adsorption of methylene blue and methyl red dyes from aqueous solutions onto modified zeolites. <i>Water Science and Technology</i> , 2013, 67, 1129-1136.	1.2	61
18	Green remediation of toxic metals contaminated mining soil using bacterial consortium and <i>Brassica juncea</i> . <i>Environmental Pollution</i> , 2021, 277, 116789.	3.7	57

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19	Removal of toxic elements from aqueous environments using nano zero-valent iron- and iron oxide-modified biochar: a review. <i>Biochar</i> , 2022, 4, 1.	6.2	54
20	Herbal plants- and rice straw-derived biochars reduced metal mobilization in fishpond sediments and improved their potential as fertilizers. <i>Science of the Total Environment</i> , 2022, 826, 154043.	3.9	49
21	Growth, grain yield and nitrogen use efficiency of Mediterranean wheat in soils amended with municipal sewage sludge. <i>Nutrient Cycling in Agroecosystems</i> , 2014, 100, 227-243.	1.1	46
22	Nitrogen, Phosphorus, and Potassium Availability in Manure- and Sewage Sludgeâ€“Applied Soil. <i>Communications in Soil Science and Plant Analysis</i> , 2015, 46, 393-404.	0.6	44
23	Effect of soils with varying degree of weathering and pH values on phosphorus sorption. <i>Catena</i> , 2016, 139, 214-219.	2.2	44
24	Modulation of hexavalent chromium toxicity on <i>Ÿriganum vulgare</i> in an acidic soil amended with peat, lime, and zeolite. <i>Chemosphere</i> , 2018, 195, 291-300.	4.2	43
25	Advancements of nanotechnologies in crop promotion and soil fertility: Benefits, life cycle assessment, and legislation policies. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 152, 111686.	8.2	40
26	<i>Streptomyces pactum</i> addition to contaminated mining soils improved soil quality and enhanced metals phytoextraction by wheat in a green remediation trial. <i>Chemosphere</i> , 2021, 273, 129692.	4.2	38
27	Co-composted biochar derived from rice straw and sugarcane bagasse improved soil properties, carbon balance, and zucchini growth in a sandy soil: A trial for enhancing the health of low fertile arid soils. <i>Chemosphere</i> , 2022, 292, 133389.	4.2	37
28	Hexavalent chromium availability and phytoremediation potential of <i>Cichorium spinosum</i> as affect by manure, zeolite and soil ageing. <i>Chemosphere</i> , 2017, 171, 729-734.	4.2	36
29	Effects of sheep bone biochar on soil quality, maize growth, and fractionation and phytoavailability of Cd and Zn in a mining-contaminated soil. <i>Chemosphere</i> , 2021, 282, 131016.	4.2	36
30	Leaching of cadmium, nickel, and zinc down the profile of sewage sludge-treated soil. <i>Communications in Soil Science and Plant Analysis</i> , 2002, 33, 273-286.	0.6	35
31	Biosolids application affects the competitive sorption and lability of cadmium, copper, nickel, lead, and zinc in fluvial and calcareous soils. <i>Environmental Geochemistry and Health</i> , 2017, 39, 1365-1379.	1.8	34
32	Human health risk via soil ingestion of potentially toxic elements and remediation potential of native plants near an abandoned mine spoil in Ghana. <i>Science of the Total Environment</i> , 2021, 798, 149272.	3.9	34
33	Almond and walnut shell-derived biochars affect sorption-desorption, fractionation, and release of phosphorus in two different soils. <i>Chemosphere</i> , 2020, 241, 124888.	4.2	33
34	Stabilization of Sewage Sludge by Using Various By-products: Effects on Soil Properties, Biomass Production, and Bioavailability of Copper and Zinc. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	1.1	32
35	Chemical composition and antioxidant activity of <i>Cichorium spinosum</i> L. leaves in relation to developmental stage. <i>Food Chemistry</i> , 2018, 239, 946-952.	4.2	32
36	Single-Element and Competitive Metal Mobility Measured with Column Infiltration and Batch Tests. <i>Journal of Environmental Quality</i> , 2007, 36, 53-60.	1.0	31

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37	Sorption of Cu and Zn in low organic matter-soils as influenced by soil properties and by the degree of soil weathering. <i>Chemosphere</i> , 2015, 138, 364-369.	4.2	31
38	Remediation of Cd and Cu contaminated water and soil using novel nanomaterials derived from sugar beet processing- and clay brick factory-solid wastes. <i>Journal of Hazardous Materials</i> , 2022, 428, 128205.	6.5	30
39	Release of toxic elements in fishpond sediments under dynamic redox conditions: Assessing the potential environmental risk for a safe management of fisheries systems and degraded waterlogged sediments. <i>Journal of Environmental Management</i> , 2020, 255, 109778.	3.8	29
40	Assessment of heavy metal(loid)s contamination risk and grain nutritional quality in organic waste-amended soil. <i>Journal of Hazardous Materials</i> , 2020, 399, 123095.	6.5	28
41	Sunflower growth and yield response to sewage sludge application under contrasting water availability conditions. <i>Industrial Crops and Products</i> , 2020, 154, 112670.	2.5	28
42	Nutrient solution composition and growing season affect yield and chemical composition of <i>Cichorium spinosum</i> plants. <i>Scientia Horticulturae</i> , 2018, 231, 97-107.	1.7	27
43	Varying concentrations of soil chromium (VI) for the exploration of tolerance thresholds and phytoremediation potential of the oregano ( <i>Origanum vulgare</i> ). <i>Environmental Science and Pollution Research</i> , 2019, 26, 14-23.	2.7	27
44	Geo- and nano-materials affect the mono-metal and competitive sorption of Cd, Cu, Ni, and Zn in a sewage sludge-treated alkaline soil. <i>Journal of Hazardous Materials</i> , 2019, 379, 120567.	6.5	26
45	Zinc sorption by different soils as affected by selective removal of carbonates and hydrous oxides. <i>Applied Geochemistry</i> , 2018, 88, 49-58.	1.4	24
46	Integrated assessment of the impact of land use types on soil pollution by potentially toxic elements and the associated ecological and human health risk. <i>Environmental Pollution</i> , 2022, 299, 118911.	3.7	24
47	Trace element availability in a sewage sludge-amended cotton grown Mediterranean soil. <i>Chemosphere</i> , 2010, 80, 1308-1313.	4.2	22
48	Phosphorus Availability in Low-P and Acidic Soils as Affected by Liming and P Addition. <i>Communications in Soil Science and Plant Analysis</i> , 2015, 46, 1288-1298.	0.6	22
49	Long-term storage effect on chemical composition, nutritional value and quality of Greek onion landrace "Vatikiotiko". <i>Food Chemistry</i> , 2016, 201, 168-176.	4.2	22
50	The Optimization of Nitrogen Fertilization Regulates Crop Performance and Quality of Processing Tomato ( <i>Solanum lycopersicum</i> L. cv. Heinz 3402). <i>Agronomy</i> , 2020, 10, 715.	1.3	21
51	Hazardous enrichment of toxic elements in soils and olives in the urban zone of Lavrio, Greece, a legacy, millennia-old silver/lead mining area and related health risk assessment. <i>Journal of Hazardous Materials</i> , 2022, 434, 128906.	6.5	20
52	Effect of Organic Manure on Wheat Grain Yield, Nutrient Accumulation, and Translocation. <i>Agronomy Journal</i> , 2016, 108, 615-625.	0.9	17
53	The Impact of Fertilization Regime on the Crop Performance and Chemical Composition of Potato ( <i>Solanum tuberosum</i> L.) Cultivated in Central Greece. <i>Agronomy</i> , 2020, 10, 474.	1.3	17
54	Sewage Sludge Application and Soil Properties Effects on Short-Term Zinc Leaching in Soil Columns. <i>Water, Air, and Soil Pollution</i> , 2008, 190, 35-43.	1.1	14

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55	Availability of Cu and Zn in an acidic sludge-amended soil as affected by zeolite application and liming. <i>Journal of Soils and Sediments</i> , 2012, 12, 396-401.	1.5	14
56	Measuring heavy metal migration rates in a low-permeability soil. <i>Environmental Chemistry Letters</i> , 2003, 1, 103-106.	8.3	13
57	Assessment of trace element pollution in northern and western Iranian agricultural soils: a review. <i>Environmental Monitoring and Assessment</i> , 2021, 193, 823.	1.3	13
58	Without exceeding the limits: industrial soil rich in Zn and Cd has no effect on purslane and lettuce but promotes geranium growth. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	12
59	Evaluation of the $\text{NH}_4\text{HCO}_3\text{-DTPA}$ soil test for assessing boron availability to wheat. <i>Communications in Soil Science and Plant Analysis</i> , 2000, 31, 669-678.	0.6	11
60	Evidence of Heavy Metal Movement Down the Profile of a Heavily-Sludged Soil. <i>Communications in Soil Science and Plant Analysis</i> , 2003, 34, 1225-1231.	0.6	11
61	Biowastes alone and combined with sulfur affect the phytoavailability of Cu and Zn to barnyard grass and sorghum in a fluvial alkaline soil under dry and wet conditions. <i>Journal of Environmental Management</i> , 2019, 234, 440-447.	3.8	11
62	Hexavalent Chromium Dynamics and Uptake in Manure-Added Soil. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 6059-6067.	1.1	10
63	Sewage Sludge Influences Nitrogen Uptake, Translocation, and Use Efficiency in Sunflower. <i>Journal of Soil Science and Plant Nutrition</i> , 2020, 20, 1912-1922.	1.7	10
64	Effect of Dissolved Organic Carbon on Zinc Solubility in Incubated Biosolids-Amended Soils. <i>Journal of Environmental Quality</i> , 2007, 36, 379-385.	1.0	8
65	Wild Edible Species with Phytoremediation Properties. <i>Procedia Environmental Sciences</i> , 2015, 29, 98-99.	1.3	8
66	Mineralization of Organic-Amendment-Derived Nitrogen in Two Mediterranean Soils with Different Organic-Matter Contents. <i>Communications in Soil Science and Plant Analysis</i> , 2013, 44, 2788-2795.	0.6	7
67	Investigation of Extraction Methods for the Assessment of the Pseudo-Total Concentration of Potentially Toxic Elements in Moderately Contaminated Soils of Central Greece. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	1.1	7
68	Nitrogen Effect on Growth-Related Parameters and Evaluation of <i>Portulaca oleracea</i> as a Phytoremediation Species in a Cr(VI)-Spiked Soil. <i>Horticulturae</i> , 2021, 7, 192.	1.2	6
69	Boron behavior in apple plants in acidic and limed soil. <i>Journal of Plant Nutrition and Soil Science</i> , 2013, 176, 267-272.	1.1	5
70	Influence of Zeolite and <i>Posidonia oceanica</i> (L.) in the Reduction of Heavy Metal Uptake by Tobacco ( <i>Nicotiana tabacum</i> ) Plants of Central Greece. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1.	1.1	5
71	Monitoring Potentially Toxic Element Pollution in Three Wheat-Grown Areas with a Long History of Industrial Activity and Assessment of Their Effect on Human Health in Central Greece. <i>Toxics</i> , 2021, 9, 293.	1.6	5
72	Effect of phosphorus addition on onion plants grown in 13 soils of varying degree of weathering. <i>Journal of Plant Nutrition</i> , 2017, 40, 2054-2062.	0.9	4

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73	Spatial and temporal assessment of cadmium and chromium contamination in soils in the Karditsa region (Central Greece). <i>Environmental Science and Pollution Research</i> , 2021, 28, 3820-3827.	2.7	4
74	Soil and plant contamination by potentially toxic and emerging elements and the associated human health risk in some Egyptian environments. <i>Environmental Geochemistry and Health</i> , 2023, 45, 359-379.	1.8	4
75	Soil dynamics of Cr(VI) and responses of <i>Portulaca oleracea</i> L. grown in a Cr(VI)-spiked soil under different nitrogen fertilization regimes. <i>Environmental Science and Pollution Research</i> , 2022, 29, 14469-14478.	2.7	4
76	How apple responds to boron excess in acidic and limed soil. <i>Journal of Soil Science and Plant Nutrition</i> , 2013, , 0-0.	1.7	3
77	Copper Availability in an Acidic and Limed Zeolite-Amended Soil. <i>Communications in Soil Science and Plant Analysis</i> , 2014, 45, 881-886.	0.6	3
78	Phosphorus Availability in <i>Lolium perenne</i> L. in Acidic and Limed Soils. <i>Communications in Soil Science and Plant Analysis</i> , 2017, 48, 1336-1342.	0.6	1
79	Development of a Simplified Model for Nitrogen Fertilizer Recommendation for Maize, Wheat, and Sunflower in Northern Greece. <i>Communications in Soil Science and Plant Analysis</i> , 2013, 44, 62-79.	0.6	0
80	Effect of storage on quality features of local onion landrace "Vatikiotiko"™. <i>Acta Horticulturae</i> , 2016, , 125-132.	0.1	0