

# AleÅ; Å VanÄ›k

## List of Publications by Year in descending order

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77  
papers

2,887  
citations

136950

32  
h-index

182427

51  
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77  
all docs

77  
docs citations

77  
times ranked

2791  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of thallium isotopic fractionation during the metallurgical processing of sulfides: An update. <i>Journal of Hazardous Materials</i> , 2022, 424, 127325.	12.4	13
2	Cobalt-bearing copper slags from Luanshya (Zambian Copperbelt): Mineralogy, geochemistry, and potential recovery of critical metals. <i>Journal of Geochemical Exploration</i> , 2022, 237, 106987.	3.2	12
3	Effect of peat organic matter on sulfide weathering and thallium reactivity: Implications for organic environments. <i>Chemosphere</i> , 2022, 299, 134380.	8.2	5
4	Understanding stable Tl isotopes in industrial processes and the environment: A review. <i>Journal of Environmental Management</i> , 2022, 315, 115151.	7.8	8
5	Mobility of Mn and other trace elements in Mn-rich mine tailings and adjacent creek at Kanye, southeast Botswana. <i>Journal of Geochemical Exploration</i> , 2021, 220, 106658.	3.2	11
6	Harmonization of a large-scale national soil database with the World Reference Base for Soil Resources 2014. <i>Geoderma</i> , 2021, 384, 114819.	5.1	14
7	Thallium uptake/tolerance in a model (hyper)accumulating plant: Effect of extreme contaminant loads. <i>Soil and Water Research</i> , 2021, 16, 129-135.	1.7	5
8	Arsenic fractionation and mobility in sulfidic wetland soils during experimental drying. <i>Chemosphere</i> , 2021, 277, 130306.	8.2	7
9	Depicting the historical pollution in a Pb–Zn mining/smeltering site in Kabwe (Zambia) using tree rings. <i>Journal of African Earth Sciences</i> , 2021, 181, 104246.	2.0	14
10	Thallium and lead variations in a contaminated peatland: A combined isotopic study from a mining/smeltering area. <i>Environmental Pollution</i> , 2021, 290, 117973.	7.5	10
11	Vanadium-rich slags from the historical processing of Zn–Pb–V ores at Berg Aukas (Namibia): Mineralogy and environmental stability. <i>Applied Geochemistry</i> , 2020, 114, 104473.	3.0	7
12	Higher Tl bioaccessibility in white mustard (hyper-accumulator) grown under the soil than hydroponic conditions: A key factor for the phytoextraction use. <i>Journal of Environmental Management</i> , 2020, 255, 109880.	7.8	7
13	Thallium isotopic fractionation in soil: the key controls. <i>Environmental Pollution</i> , 2020, 265, 114822.	7.5	21
14	Harmonisation of a large-scale historical database with the actual Czech soil classification system. <i>Soil and Water Research</i> , 2020, 15, 101-115.	1.7	7
15	Slag dusts from Kabwe (Zambia): Contaminant mineralogy and oral bioaccessibility. <i>Chemosphere</i> , 2020, 260, 127642.	8.2	33
16	The potential wildfire effects on mercury remobilization from topsoils and biomass in a smelter-polluted semi-arid area. <i>Chemosphere</i> , 2020, 247, 125972.	8.2	7
17	Thallium stable isotope ratios in naturally Tl-rich soils. <i>Geoderma</i> , 2020, 364, 114183.	5.1	23
18	Oral bioaccessibility of metal(loid)s in dust materials from mining areas of northern Namibia. <i>Environment International</i> , 2019, 124, 205-215.	10.0	44

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19	Tracing the metal dynamics in semi-arid soils near mine tailings using stable Cu and Pb isotopes. <i>Chemical Geology</i> , 2019, 515, 61-76.	3.3	39
20	Thallium stable isotope fractionation in white mustard: Implications for metal transfers and incorporation in plants. <i>Journal of Hazardous Materials</i> , 2019, 369, 521-527.	12.4	27
21	Soil contamination near the Kabwe Pb-Zn smelter in Zambia: Environmental impacts and remediation measures proposal. <i>Journal of Geochemical Exploration</i> , 2019, 197, 159-173.	3.2	48
22	Thallium contamination of desert soil in Namibia: Chemical, mineralogical and isotopic insights. <i>Environmental Pollution</i> , 2018, 239, 272-280.	7.5	41
23	Influence of former lynchets on soil cover structure and soil organic carbon storage in agricultural land, Central Czechia. <i>Soil Use and Management</i> , 2018, 34, 60-71.	4.9	8
24	Thallium isotopes in metallurgical wastes/contaminated soils: A novel tool to trace metal source and behavior. <i>Journal of Hazardous Materials</i> , 2018, 343, 78-85.	12.4	63
25	Copper isotopic record in soils and tree rings near a copper smelter, Copperbelt, Zambia. <i>Science of the Total Environment</i> , 2018, 621, 9-17.	8.0	31
26	Variability of the copper isotopic composition in soil and grass affected by mining and smelting in Tsumeb, Namibia. <i>Chemical Geology</i> , 2018, 493, 121-135.	3.3	40
27	Geochemistry and pH control of seepage from Ni-Cu rich mine tailings at Selebi Phikwe, Botswana. <i>Environmental Monitoring and Assessment</i> , 2018, 190, 482.	2.7	10
28	The impact of wetland on neutral mine drainage from mining wastes at Luanshya in the Zambian Copperbelt in the framework of climate change. <i>Environmental Science and Pollution Research</i> , 2018, 25, 28961-28972.	5.3	9
29	Revealing the Distribution and Bioavailability of Zn, Pb, and Cd in Soil at an Abandoned Zn Processing Site: The Role of Spectrometry Techniques. <i>Acta Physica Polonica A</i> , 2018, 134, 438-441.	0.5	1
30	Characterization of Fe-Mn concentric nodules from Luvisol irrigated by mine water in a semi-arid agricultural area. <i>Geoderma</i> , 2017, 299, 32-42.	5.1	37
31	Isotopic Tracing of Thallium Contamination in Soils Affected by Emissions from Coal-Fired Power Plants. <i>Environmental Science &amp; Technology</i> , 2016, 50, 9864-9871.	10.0	74
32	The structure of bacterial communities along two vertical profiles of a deep colluvial soil. <i>Soil Biology and Biochemistry</i> , 2016, 101, 65-73.	8.8	46
33	Composition and fate of mine- and smelter-derived particles in soils of humid subtropical and hot semi-arid areas. <i>Science of the Total Environment</i> , 2016, 563-564, 329-339.	8.0	29
34	Contamination of soil and grass in the Tsumeb smelter area, Namibia: Modeling of contaminants dispersion and ground geochemical verification. <i>Applied Geochemistry</i> , 2016, 64, 75-91.	3.0	33
35	Influence of Elevation Data Resolution on Spatial Prediction of Colluvial Soils in a Luvisol Region. <i>PLoS ONE</i> , 2016, 11, e0165699.	2.5	21
36	Trace Elements and the Lead Isotopic Record in Marula ( <i>Sclerocarya birrea</i> ) Tree Rings and Soils Near the Tsumeb Smelter, Namibia. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	2.4	19

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37	Mercury in soil profiles from metal mining and smelting areas in Namibia and Zambia: distribution and potential sources. <i>Journal of Soils and Sediments</i> , 2015, 15, 648-658.	3.0	20
38	Geochemistry and potential environmental impact of the mine tailings at Rosh Pinah, southern Namibia. <i>Journal of African Earth Sciences</i> , 2015, 105, 17-28.	2.0	17
39	Cadmium isotope fractionation within the soil profile complicates source identification in relation to Pb-Zn mining and smelting processes. <i>Chemical Geology</i> , 2015, 405, 1-9.	3.3	76
40	Colluvial soils as a soil organic carbon pool in different soil regions. <i>Geoderma</i> , 2015, 253-254, 122-134.	5.1	35
41	Bioaccumulation of thallium in a neutral soil as affected by solid-phase association. <i>Journal of Geochemical Exploration</i> , 2015, 159, 208-212.	3.2	29
42	Thallium contamination of soils/vegetation as affected by sphalerite weathering: A model rhizospheric experiment. <i>Journal of Hazardous Materials</i> , 2015, 283, 148-156.	12.4	39
43	Biosorption of Cr(VI) from natural groundwater and the effect of DOC-rich treated water on Cr dissolving from contaminated soil. <i>Soil and Water Research</i> , 2015, 10, 236-243.	1.7	0
44	Environmental stability of the processing waste from sulfide mining districts of Namibia – A model rhizosphere solution approach. <i>Journal of Geochemical Exploration</i> , 2014, 144, 421-426.	3.2	15
45	Surprisingly contrasting metal distribution and fractionation patterns in copper smelter-affected tropical soils in forested and grassland areas (Mufulira, Zambian Copperbelt). <i>Science of the Total Environment</i> , 2014, 473-474, 117-124.	8.0	45
46	Geochemistry and mineralogy of vanadium in mine tailings at Berg Aukas, northeastern Namibia. <i>Journal of African Earth Sciences</i> , 2014, 96, 180-189.	2.0	27
47	Evaluating the potential of three Fe- and Mn-(nano)oxides for the stabilization of Cd, Cu and Pb in contaminated soils. <i>Journal of Environmental Management</i> , 2014, 146, 226-234.	7.8	70
48	Lead migration in smelter-impacted deciduous and coniferous organic soil horizons based on a long-term in-situ implantation and laboratory column experiments. <i>Applied Geochemistry</i> , 2014, 48, 168-175.	3.0	4
49	Geochemistry of mine tailings and behavior of arsenic at Kombat, northeastern Namibia. <i>Environmental Monitoring and Assessment</i> , 2014, 186, 4891-4903.	2.7	18
50	Phase-dependent phytoavailability of thallium – A synthetic soil experiment. <i>Journal of Hazardous Materials</i> , 2013, 250-251, 265-271.	12.4	24
51	Brewers draff as a new low-cost sorbent for chromium (VI): Comparison with other biosorbents. <i>Journal of Colloid and Interface Science</i> , 2013, 396, 227-233.	9.4	29
52	Tebuconazole Sorption in Contrasting Soil Types. <i>Soil and Sediment Contamination</i> , 2013, 22, 404-414.	1.9	32
53	The influence of copper on tebuconazole sorption onto soils, humic substances, and ferrihydrite. <i>Environmental Science and Pollution Research</i> , 2013, 20, 4205-4215.	5.3	10
54	Chemical stabilization of metals and arsenic in contaminated soils using oxides – A review. <i>Environmental Pollution</i> , 2013, 172, 9-22.	7.5	487

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55	Geochemical position of thallium in soils from a smelter-impacted area. <i>Journal of Geochemical Exploration</i> , 2013, 124, 176-182.	3.2	60
56	Sorption of tebuconazole onto selected soil minerals and humic acids. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2012, 47, 336-342.	1.5	25
57	Effect of low-molecular-weight organic acids on the leaching of thallium and accompanying cations from soil – A model rhizosphere solution approach. <i>Journal of Geochemical Exploration</i> , 2012, 112, 212-217.	3.2	36
58	50 years of different landscape management influencing retention of metals in soils. <i>Journal of Geochemical Exploration</i> , 2012, 115, 59-68.	3.2	15
59	Incubation of air-pollution-control residues from secondary Pb smelter in deciduous and coniferous organic soil horizons: Leachability of lead, cadmium and zinc. <i>Journal of Hazardous Materials</i> , 2012, 209-210, 40-47.	12.4	11
60	Geochemical position of Pb, Zn and Cd in soils near the Olkusz mine/smelter, South Poland: effects of land use, type of contamination and distance from pollution source. <i>Environmental Monitoring and Assessment</i> , 2012, 184, 2517-2536.	2.7	92
61	Distribution of thallium and accompanying metals in tree rings of Scots pine ( <i>Pinus sylvestris</i> L.) from a smelter-affected area. <i>Journal of Geochemical Exploration</i> , 2011, 108, 73-80.	3.2	28
62	Changes in Mercury Deposition in a Mining and Smelting Region as Recorded in Tree Rings. <i>Water, Air, and Soil Pollution</i> , 2011, 216, 73-82.	2.4	45
63	Evolution of Bioavailable Copper and Major Soil Cations in Contaminated Soils Treated with Ethylenediaminedisuccinate: A Two-Year Experiment. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2011, 86, 525-530.	2.7	8
64	Effect of illite and birnessite on thallium retention and bioavailability in contaminated soils. <i>Journal of Hazardous Materials</i> , 2011, 191, 170-176.	12.4	66
65	Potential and drawbacks of EDDS-enhanced phytoextraction of copper from contaminated soils. <i>Environmental Pollution</i> , 2010, 158, 2428-2438.	7.5	49
66	Thallium dynamics in contrasting light sandy soils – Soil vulnerability assessment to anthropogenic contamination. <i>Journal of Hazardous Materials</i> , 2010, 173, 717-723.	12.4	46
67	Assessment of the BCR sequential extraction procedure for thallium fractionation using synthetic mineral mixtures. <i>Journal of Hazardous Materials</i> , 2010, 176, 913-918.	12.4	31
68	Thallium uptake by white mustard ( <i>Sinapis alba</i> L.) grown on moderately contaminated soils – Agro-environmental implications. <i>Journal of Hazardous Materials</i> , 2010, 182, 303-308.	12.4	52
69	Antimony mobility in lead smelter-polluted soils. <i>Geoderma</i> , 2010, 155, 409-418.	5.1	60
70	Retention of copper originating from different fungicides in contrasting soil types. <i>Journal of Hazardous Materials</i> , 2009, 166, 1395-1402.	12.4	47
71	The effect of beverage preparation method on aluminium content in coffee infusions. <i>Journal of Inorganic Biochemistry</i> , 2009, 103, 1480-1485.	3.5	34
72	Interactions of EDDS with Fe- and Al-(hydr)oxides. <i>Chemosphere</i> , 2009, 77, 87-93.	8.2	34

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73	Lithogenic thallium behavior in soils with different land use. Journal of Geochemical Exploration, 2009, 102, 7-12.	3.2	62
74	Combined Chemical and Mineralogical Evidence for Heavy Metal Binding in Mining- and Smelting-Affected Alluvial Soils. Pedosphere, 2008, 18, 464-478.	4.0	39
75	Contrasting lead speciation in forest and tilled soils heavily polluted by lead metallurgy. Chemosphere, 2005, 58, 1449-1459.	8.2	149
76	Mobility of lead, zinc and cadmium in alluvial soils heavily polluted by smelting industry. Plant, Soil and Environment, 2005, 51, 316-321.	2.2	95
77	Effect of Historical Zinc Processing on Soil: A Case Study in Southern Poland. , 0, , .		2