

Moritz Bigalke

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

49
papers

1,715
citations

18
h-index

41
g-index

55
ext. papers

2,231
ext. citations

6.6
avg, IF

5.6
L-index

#	Paper	IF	Citations
49	Cadmium isotope fractionation in an intertidal soil induced by tidal pumping. <i>Environmental Advances</i> , 2022 , 8, 100182	3.5	
48	Microplastics in agricultural drainage water: A link between terrestrial and aquatic microplastic pollution. <i>Science of the Total Environment</i> , 2022 , 806, 150709	10.2	0
47	Identification and characterisation of individual nanoplastics by scanning transmission X-ray microscopy (STXM). <i>Journal of Hazardous Materials</i> , 2021 , 426, 127804	12.8	1
46	Global distribution of oxygenated polycyclic aromatic hydrocarbons in mineral topsoils. <i>Journal of Environmental Quality</i> , 2021 , 50, 717-729	3.4	1
45	Specific and conserved patterns of microbiota-structuring by maize benzoxazinoids in the field. <i>Microbiome</i> , 2021 , 9, 103	16.6	7
44	250-year records of mercury and trace element deposition in two lakes from Cajas National Park, SW Ecuadorian Andes. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 16227-16243	5.1	4
43	Variations of sedimentary Fe and Mn fractions under changing lake mixing regimes, oxygenation and land surface processes during Late-glacial and Holocene times. <i>Science of the Total Environment</i> , 2021 , 755, 143418	10.2	5
42	A Systematic Analysis of Metal and Metalloid Concentrations in Eight Zebrafish Recirculating Water Systems. <i>Zebrafish</i> , 2021 , 18, 252-264	2	0
41	Tracing the fate of phosphorus fertilizer derived cadmium in soil-fertilizer-wheat systems using enriched stable isotope labeling. <i>Environmental Pollution</i> , 2021 , 287, 117314	9.3	6
40	Uranium Budget and Leaching in Swiss Agricultural Systems. <i>Frontiers in Environmental Science</i> , 2020 , 8,	4.8	4
39	Analytical Methods for Microplastics in Environments: Current Advances and Challenges. <i>Handbook of Environmental Chemistry</i> , 2020 , 3-24	0.8	11
38	Geochemical and hydrological controls of arsenic concentrations across the sediment-water interface at Maharlu Lake, Southern Iran. <i>Applied Geochemistry</i> , 2019 , 102, 88-101	3.5	8
37	Temporal Trends of Phosphorus Cycling in a Tropical Montane Forest in Ecuador During 14 Years. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019 , 124, 1370-1386	3.7	12
36	Foreword to the research front on 'Microplastics in Soils'. <i>Environmental Chemistry</i> , 2019 , 16, 1	3.2	3
35	Visualizing the dynamics of soil aggregation as affected by arbuscular mycorrhizal fungi. <i>ISME Journal</i> , 2019 , 13, 1639-1646	11.9	42
34	Using isotopes to trace freshly applied cadmium through mineral phosphorus fertilization in soil-fertilizer-plant systems. <i>Science of the Total Environment</i> , 2019 , 648, 779-786	10.2	32
33	A method for extracting soil microplastics through circulation of sodium bromide solutions. <i>Science of the Total Environment</i> , 2019 , 691, 341-347	10.2	66

32	Early diagenetic behavior of arsenic in the sediment of the hypersaline Maharlu Lake, southern Iran. <i>Chemosphere</i> , 2019 , 237, 124465	8.4	3
31	Corrigendum to: Foreword to the research front on Microplastics in Soils <i>Environmental Chemistry</i> , 2019 , 16, 149	3.2	1
30	The Fate of Zn in Agricultural Soils: A Stable Isotope Approach to Anthropogenic Impact, Soil Formation, and Soil-Plant Cycling. <i>Environmental Science & Technology</i> , 2019 , 53, 4140-4149	10.3	26
29	Sorption kinetics of isotopically labelled divalent mercury (Hg) in soil. <i>Chemosphere</i> , 2019 , 221, 193-202	8.4	8
28	Towards an understanding of the Cd isotope fractionation during transfer from the soil to the cereal grain. <i>Environmental Pollution</i> , 2019 , 244, 834-844	9.3	28
27	Sources and fate of polycyclic aromatic compounds (PAHs, oxygenated PAHs and azaarenes) in forest soil profiles opposite of an aluminium plant. <i>Science of the Total Environment</i> , 2018 , 630, 83-95	10.2	14
26	Characterizing Major Controls on Spatial and Seasonal Variations in Chemical Composition of Surface and Pore Brine of Maharlu Lake, Southern Iran. <i>Aquatic Geochemistry</i> , 2018 , 24, 27-54	1.7	6
25	Microplastics in Swiss Floodplain Soils. <i>Environmental Science & Technology</i> , 2018 , 52, 3591-3598	10.3	476
24	Fate of Cd in Agricultural Soils: A Stable Isotope Approach to Anthropogenic Impact, Soil Formation, and Soil-Plant Cycling. <i>Environmental Science & Technology</i> , 2018 , 52, 1919-1928	10.3	70
23	Zinc isotope fractionation during grain filling of wheat and a comparison of zinc and cadmium isotope ratios in identical soil-plant systems. <i>New Phytologist</i> , 2018 , 219, 195-205	9.8	31
22	An empirical perspective for understanding climate change impacts in Switzerland. <i>Regional Environmental Change</i> , 2018 , 18, 205-221	4.3	17
21	Uranium in agricultural soils and drinking water wells on the Swiss Plateau. <i>Environmental Pollution</i> , 2018 , 233, 943-951	9.3	16
20	Micro- and Nanoplastic Analysis in Soils. <i>Chimia</i> , 2018 , 72, 901	1.3	4
19	Response of copper concentrations and stable isotope ratios to artificial drainage in a French Retisol. <i>Geoderma</i> , 2017 , 300, 44-54	6.7	7
18	Isotopic variation of dissolved and colloidal iron and copper in a carbonatic floodplain soil after experimental flooding. <i>Chemical Geology</i> , 2017 , 459, 13-23	4.2	9
17	Accumulation of cadmium and uranium in arable soils in Switzerland. <i>Environmental Pollution</i> , 2017 , 221, 85-93	9.3	92
16	An Isotopic Dilution Approach for Quantifying Mercury Lability in Soils. <i>Environmental Science and Technology Letters</i> , 2017 , 4, 556-561	11	7
15	Aluminum cycling in a tropical montane forest ecosystem in southern Ecuador. <i>Geoderma</i> , 2017 , 288, 196-203	6.7	6

14	Biological versus geochemical control and environmental change drivers of the base metal budgets of a tropical montane forest in Ecuador during 15 years. <i>Biogeochemistry</i> , 2017 , 136, 167-189	3.8	13
13	Response of Cu partitioning to flooding: A $\delta^{65}\text{Cu}$ approach in a carbonatic alluvial soil. <i>Chemical Geology</i> , 2016 , 420, 69-76	4.2	18
12	Soil Contamination with Trace Metals: Quantification, Speciation, and Source Identification. <i>Chimia</i> , 2016 , 70, 899	1.3	1
11	Cadmium Isotope Fractionation in Soil-Wheat Systems. <i>Environmental Science & Technology</i> , 2016 , 50, 9223-31	10.3	77
10	Aluminum toxicity to tropical montane forest tree seedlings in southern Ecuador:. <i>Plant and Soil</i> , 2015 , 388, 87-97	4.2	4
9	Fast colloidal and dissolved release of trace elements in a carbonatic soil after experimental flooding. <i>Geoderma</i> , 2015 , 259-260, 156-163	6.7	22
8	Polycyclic aromatic compounds (PAHs and oxygenated PAHs) and trace metals in fish species from Ghana (West Africa): bioaccumulation and health risk assessment. <i>Environment International</i> , 2014 , 65, 135-46	12.9	154
7	Aluminum toxicity to tropical montane forest tree seedlings in southern Ecuador: response of biomass and plant morphology to elevated Al concentrations. <i>Plant and Soil</i> , 2014 , 382, 301-315	4.2	16
6	Isotopes Trace Biogeochemistry and Sources of Cu and Zn in an intertidal soil. <i>Soil Science Society of America Journal</i> , 2013 , 77, 680-691	2.5	25
5	Short-term response of the Ca cycle of a montane forest in Ecuador to low experimental CaCl_2 additions. <i>Journal of Plant Nutrition and Soil Science</i> , 2013 , 176, 892-903	2.3	11
4	Stable Cu isotope fractionation in soils during oxic weathering and podzolization. <i>Geochimica Et Cosmochimica Acta</i> , 2011 , 75, 3119-3134	5.5	67
3	Stable Copper Isotopes: A Novel Tool to Trace Copper Behavior in Hydromorphic Soils. <i>Soil Science Society of America Journal</i> , 2010 , 74, 60-73	2.5	48
2	Stable Cu and Zn isotope ratios as tracers of sources and transport of Cu and Zn in contaminated soil. <i>Geochimica Et Cosmochimica Acta</i> , 2010 , 74, 6801-6813	5.5	148
1	Copper isotope fractionation during complexation with insolubilized humic acid. <i>Environmental Science & Technology</i> , 2010 , 44, 5496-502	10.3	87