

# Bas Vriens

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

915  
citations

687335

13  
h-index

752679

20  
g-index

24  
all docs

24  
docs citations

24  
times ranked

1191  
citing authors

#	ARTICLE	IF	CITATIONS
1	Selenium Cycling Across Soil-Plant-Atmosphere Interfaces: A Critical Review. <i>Nutrients</i> , 2015, 7, 4199-4239.	4.1	319
2	Selenium Uptake and Methylation by the Microalga <i>Chlamydomonas reinhardtii</i> . <i>Environmental Science &amp; Technology</i> , 2016, 50, 711-720.	10.0	71
3	Natural wetland emissions of methylated trace elements. <i>Nature Communications</i> , 2014, 5, 3035.	12.8	69
4	Biofilms in shower hoses. <i>Water Research</i> , 2018, 131, 274-286.	11.3	69
5	Quantification of Element Fluxes in Wastewaters: A Nationwide Survey in Switzerland. <i>Environmental Science &amp; Technology</i> , 2017, 51, 10943-10953.	10.0	62
6	Mine Waste Rock: Insights for Sustainable Hydrogeochemical Management. <i>Minerals (Basel)</i> , 2020, 10, 542.	2.0	58
7	Long-term monitoring of waste-rock weathering at the Antamina mine, Peru. <i>Chemosphere</i> , 2019, 215, 858-869.	8.2	46
8	Microbial and geochemical controls on waste rock weathering and drainage quality. <i>Science of the Total Environment</i> , 2018, 640-641, 1004-1014.	8.0	37
9	Quantification of Methylated Selenium, Sulfur, and Arsenic in the Environment. <i>PLoS ONE</i> , 2014, 9, e102906.	2.5	28
10	Mobilization of Metal(oid) Oxyanions through Circumneutral Mine Waste-Rock Drainage. <i>ACS Omega</i> , 2019, 4, 10205-10215.	3.5	22
11	Quantification of volatile-alkylated selenium and sulfur in complex aqueous media using solid-phase microextraction. <i>Journal of Chromatography A</i> , 2015, 1407, 11-20.	3.7	21
12	Localized Sulfide Oxidation Limited by Oxygen Supply in a Full-Scale Waste-Rock Pile. <i>Vadose Zone Journal</i> , 2018, 17, 1-14.	2.2	18
13	Scale dependence of effective geochemical rates in weathering mine waste rock. <i>Journal of Contaminant Hydrology</i> , 2020, 234, 103699.	3.3	16
14	Studying selenium and sulfur volatilisation by marine algae <i>Emiliana huxleyi</i> and <i>Thalassiosira oceanica</i> in culture. <i>Environmental Chemistry</i> , 2017, 14, 199.	1.5	13
15	Mineralogical controls on drainage quality during the weathering of waste rock. <i>Applied Geochemistry</i> , 2019, 108, 104376.	3.0	13
16	Poregas distributions in waste-rock piles affected by climate seasonality and physicochemical heterogeneity. <i>Applied Geochemistry</i> , 2019, 100, 305-315.	3.0	13
17	Geochemical and mineralogical assessment of reactivity in a full-scale heterogeneous waste-rock pile. <i>Minerals Engineering</i> , 2020, 145, 106089.	4.3	13
18	Loads and elimination of trace elements in wastewater in the Great Lakes basin. <i>Water Research</i> , 2022, 209, 117949.	11.3	12

#	ARTICLE	IF	CITATIONS
19	Mass-Balance Modeling of Metal Loading Rates in the Great Lakes. Environmental Research, 2022, 205, 112557.	7.5	8
20	Retention of uranium in cement systems: effects of cement degradation and complexing ligands. Progress in Nuclear Science and Technology, 2018, 5, 208-212.	0.3	6
21	Assessing global cycling of selenium. , 2013, , 5-6.		1