

# Daniel Obrist

## List of Publications by Year in descending order

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Version: 2024-02-01

28  
papers

2,852  
citations

236925

25  
h-index

501196

28  
g-index

28  
all docs

28  
docs citations

28  
times ranked

2176  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of global environmental mercury processes in response to human and natural perturbations: Changes of emissions, climate, and land use. <i>Ambio</i> , 2018, 47, 116-140.	5.5	500
2	Tundra uptake of atmospheric elemental mercury drives Arctic mercury pollution. <i>Nature</i> , 2017, 547, 201-204.	27.8	314
3	Mercury Distribution Across 14 U.S. Forests. Part I: Spatial Patterns of Concentrations in Biomass, Litter, and Soils. <i>Environmental Science &amp; Technology</i> , 2011, 45, 3974-3981.	10.0	211
4	A vegetation control on seasonal variations in global atmospheric mercury concentrations. <i>Nature Geoscience</i> , 2018, 11, 244-250.	12.9	180
5	Mercury isotope compositions across North American forests. <i>Global Biogeochemical Cycles</i> , 2016, 30, 1475-1492.	4.9	162
6	Vegetation uptake of mercury and impacts on global cycling. <i>Nature Reviews Earth &amp; Environment</i> , 2021, 2, 269-284.	29.7	150
7	New Constraints on Terrestrial Surfaceâ€ˆAtmosphere Fluxes of Gaseous Elemental Mercury Using a Global Database. <i>Environmental Science &amp; Technology</i> , 2016, 50, 507-524.	10.0	136
8	Foliar Mercury Accumulation and Exchange for Three Tree Species. <i>Environmental Science &amp; Technology</i> , 2006, 40, 6001-6006.	10.0	124
9	Atmospheric mercury pollution due to losses of terrestrial carbon pools?. <i>Biogeochemistry</i> , 2007, 85, 119-123.	3.5	99
10	Convective forcing of mercury and ozone in the Arctic boundary layer induced by leads in sea ice. <i>Nature</i> , 2014, 506, 81-84.	27.8	79
11	Effects of vegetation type on mercury concentrations and pools in two adjacent coniferous and deciduous forests. <i>Journal of Plant Nutrition and Soil Science</i> , 2012, 175, 68-77.	1.9	78
12	Vertical Profile Measurements of Soil Air Suggest Immobilization of Gaseous Elemental Mercury in Mineral Soil. <i>Environmental Science &amp; Technology</i> , 2014, 48, 2242-2252.	10.0	78
13	Elemental mercury fluxes over a sub-alpine grassland determined with two micrometeorological methods. <i>Atmospheric Environment</i> , 2008, 42, 2922-2933.	4.1	75
14	A synthesis of terrestrial mercury in the western United States: Spatial distribution defined by land cover and plant productivity. <i>Science of the Total Environment</i> , 2016, 568, 522-535.	8.0	68
15	Direct detection of atmospheric atomic bromine leading to mercury and ozone depletion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14479-14484.	7.1	68
16	Fate of mercury in tree litter during decomposition. <i>Biogeosciences</i> , 2011, 8, 2507-2521.	3.3	64
17	Arctic mercury cycling. <i>Nature Reviews Earth &amp; Environment</i> , 2022, 3, 270-286.	29.7	60
18	Insights from mercury stable isotopes on terrestrialâ€ˆatmosphere exchange of Hg(0) in the Arctic tundra. <i>Biogeosciences</i> , 2019, 16, 4051-4064.	3.3	57

#	ARTICLE	IF	CITATIONS
19	Mercury Distribution across 14 U.S. Forests. Part II: Patterns of Methyl Mercury Concentrations and Areal Mass of Total and Methyl Mercury. <i>Environmental Science &amp; Technology</i> , 2012, 46, 5921-5930.	10.0	52
20	Mercury in Active-€Layer Tundra Soils of Alaska: Concentrations, Pools, Origins, and Spatial Distribution. <i>Global Biogeochemical Cycles</i> , 2018, 32, 1058-1073.	4.9	47
21	Estimating mercury emissions resulting from wildfire in forests of the Western United States. <i>Science of the Total Environment</i> , 2016, 568, 578-586.	8.0	44
22	Previously unaccounted atmospheric mercury deposition in a midlatitude deciduous forest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	42
23	Global Mercury Assimilation by Vegetation. <i>Environmental Science &amp; Technology</i> , 2021, 55, 14245-14257.	10.0	42
24	Mercury in tundra vegetation of Alaska: Spatial and temporal dynamics and stable isotope patterns. <i>Science of the Total Environment</i> , 2019, 660, 1502-1512.	8.0	38
25	Summertime elemental mercury exchange of temperate grasslands on an ecosystem-scale. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 7709-7722.	4.9	35
26	Mercury and trace metal wet deposition across five stations in Alaska: controlling factors, spatial patterns, and source regions. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 6913-6929.	4.9	27
27	Atmosphere-terrestrial exchange of gaseous elemental mercury: parameterization improvement through direct comparison with measured ecosystem fluxes. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 1699-1712.	3.5	12
28	Mercury in the Arctic tundra snowpack: temporal and spatial concentration patterns and trace gas exchanges. <i>Cryosphere</i> , 2018, 12, 1939-1956.	3.9	10