Anne L Soerensen

List of Publications by Year
in descending order

34 papers	2,123 citations	331670 21 h-index	395702 33 g-index
38 all docs	38 docs citations	38 times ranked	2087 citing authors

#	Article	IF	Citations
1	Mercury biogeochemical cycling in the ocean and policy implications. Environmental Research, 2012, 119, 101-117.	7.5	477
2	An Improved Global Model for Air-Sea Exchange of Mercury: High Concentrations over the North Atlantic. Environmental Science & Technology, 2010, 44, 8574-8580.	10.0	225
3	Riverine source of Arctic Ocean mercury inferred from atmospheric observations. Nature Geoscience, 2012, 5, 499-504.	12.9	168
4	Freshwater discharges drive high levels of methylmercury in Arctic marine biota. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11789-11794.	7.1	116
5	A mass budget for mercury and methylmercury in the Arctic Ocean. Global Biogeochemical Cycles, 2016, 30, 560-575.	4.9	110
6	Top-down constraints on atmospheric mercury emissions and implications for global biogeochemical cycling. Atmospheric Chemistry and Physics, 2015, 15, 7103-7125.	4.9	96
7	Global Concentrations of Gaseous Elemental Mercury and Reactive Gaseous Mercury in the Marine Boundary Layer. Environmental Science & Technology, 2010, 44, 7425-7430.	10.0	87
8	Multiâ€decadal decline of mercury in the North Atlantic atmosphere explained by changing subsurface seawater concentrations. Geophysical Research Letters, 2012, 39, .	4.0	85
9	Elemental Mercury Concentrations and Fluxes in the Tropical Atmosphere and Ocean. Environmental Science & Technology, 2014, 48, 11312-11319.	10.0	72
10	Eutrophication Increases Phytoplankton Methylmercury Concentrations in a Coastal Seaâ€"A Baltic Sea Case Study. Environmental Science & Technology, 2016, 50, 11787-11796.	10.0	71
11	Drivers of Surface Ocean Mercury Concentrations and Airâ€"Sea Exchange in the West Atlantic Ocean. Environmental Science & Technology, 2013, 47, 7757-7765.	10.0	65
12	A Global Model for Methylmercury Formation and Uptake at the Base of Marine Food Webs. Global Biogeochemical Cycles, 2020, 34, e2019GB006348.	4.9	65
13	Arctic mercury cycling. Nature Reviews Earth & Environment, 2022, 3, 270-286.	29.7	60
14	Methylmercury Mass Budgets and Distribution Characteristics in the Western Pacific Ocean. Environmental Science & Technology, 2017, 51, 1186-1194.	10.0	46
15	Factors driving mercury variability in the Arctic atmosphere and ocean over the past 30 years. Global Biogeochemical Cycles, 2013, 27, 1226-1235.	4.9	37
16	Deciphering the Role of Water Column Redoxclines on Methylmercury Cycling Using Speciation Modeling and Observations From the Baltic Sea. Global Biogeochemical Cycles, 2018, 32, 1498-1513.	4.9	36
17	Deltaproteobacteria and Spirochaetes-Like Bacteria Are Abundant Putative Mercury Methylators in Oxygen-Deficient Water and Marine Particles in the Baltic Sea. Frontiers in Microbiology, 2020, 11, 574080.	3.5	33
18	A Coupled Global Atmosphere-Ocean Model for Air-Sea Exchange of Mercury: Insights into Wet Deposition and Atmospheric Redox Chemistry. Environmental Science & Technology, 2019, 53, 5052-5061.	10.0	31

#	Article	IF	Citations
19	The Global Marine Selenium Cycle: Insights From Measurements and Modeling. Global Biogeochemical Cycles, 2018, 32, 1720-1737.	4.9	30
20	Organic matter drives high interannual variability in methylmercury concentrations in a subarctic coastal sea. Environmental Pollution, 2017, 229, 531-538.	7.5	29
21	Uptake Kinetics of Methylmercury in a Freshwater Alga Exposed to Methylmercury Complexes with Environmentally Relevant Thiols. Environmental Science & Technology, 2019, 53, 13757-13766.	10.0	23
22	A decline in Arctic Ocean mercury suggested by differences in decadal trends of atmospheric mercury between the Arctic and northern midlatitudes. Geophysical Research Letters, 2015, 42, 6076-6083.	4.0	21
23	Mass Budget of Methylmercury in the East Siberian Sea: The Importance of Sediment Sources. Environmental Science & Technology, 2020, 54, 9949-9957.	10.0	20
24	Influence of the Arctic Sea-Ice Regime Shift on Sea-Ice Methylated Mercury Trends. Environmental Science and Technology Letters, 2020, 7, 708-713.	8.7	17
25	Mercury-methylating bacteria are associated with copepods: A proof-of-principle survey in the Baltic Sea. PLoS ONE, 2020, 15, e0230310.	2.5	17
26	Oxygenâ€deficient water zones in the Baltic Sea promote uncharacterized Hg methylating microorganisms in underlying sediments. Limnology and Oceanography, 2022, 67, 135-146.	3.1	15
27	Sources of riverine mercury across the Mackenzie River Basin; inferences from a combined Hg C isotopes and optical properties approach. Science of the Total Environment, 2022, 806, 150808.	8.0	11
28	Controls on the ¹⁴C Content of Dissolved and Particulate Organic Carbon Mobilized Across the Mackenzie River Basin, Canada. Global Biogeochemical Cycles, 2020, 34, e2020GB006671.	4.9	10
29	What are the likely changes in mercury concentration in the Arctic atmosphere and ocean under future emissions scenarios?. Science of the Total Environment, 2022, 836, 155477.	8.0	10
30	The role of fluorescent dissolved organic matter on mercury photoreduction rates: A case study of three temperate lakes. Geochimica Et Cosmochimica Acta, 2020, 277, 192-205.	3.9	8
31	Critical Observations of Gaseous Elemental Mercury Airâ€Sea Exchange. Global Biogeochemical Cycles, 2021, 35, e2020GB006742.	4.9	7
32	Gaseous mercury in coastal urban areas. Environmental Chemistry, 2010, 7, 537.	1.5	3
33	Selenium concentration in herring from the Baltic Sea tracks decadal and spatial trends in external sources. Environmental Sciences: Processes and Impacts, 2022, 24, 1319-1329.	3.5	2
34	Hg0trends in the North and South Atlantic. E3S Web of Conferences, 2013, 1, 07002.	0.5	0