

Elsie M Sunderland

List of Publications by Year in descending order

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Version: 2024-02-01

124
papers

13,456
citations

19608

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22102

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131
docs citations

131
times ranked

9451
citing authors

#	ARTICLE	IF	CITATIONS
1	Response to Comment on “Screening New Persistent and Bioaccumulative Organics in China’s Inventory of Industrial Chemicals”: A Call for Further Environmental Research on Organosilicons Produced in China. <i>Environmental Science & Technology</i> , 2022, 56, 693-696.	4.6	2
2	Multidecadal declines in particulate mercury and sediment export from Russian rivers in the pan-Arctic basin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2119857119.	3.3	14
3	A food web bioaccumulation model for the accumulation of per- and polyfluoroalkyl substances (PFAS) in fish: how important is renal elimination?. <i>Environmental Sciences: Processes and Impacts</i> , 2022, 24, 1152-1164.	1.7	11
4	Mercury in soils of the conterminous United States: patterns and pools. <i>Environmental Research Letters</i> , 2022, 17, 074030.	2.2	7
5	Trends of Diverse POPs in Air and Water Across the Western Atlantic Ocean: Strong Gradients in the Ocean but Not in the Air. <i>Environmental Science & Technology</i> , 2021, 55, 9498-9507.	4.6	18
6	Reconstructing the Composition of Per- and Polyfluoroalkyl Substances in Contemporary Aqueous Film-Forming Foams. <i>Environmental Science and Technology Letters</i> , 2021, 8, 59-65.	3.9	50
7	PFAS Exposure Pathways for Humans and Wildlife: A Synthesis of Current Knowledge and Key Gaps in Understanding. <i>Environmental Toxicology and Chemistry</i> , 2021, 40, 631-657.	2.2	311
8	The Microbiome of Size-Fractionated Airborne Particles from the Sahara Region. <i>Environmental Science & Technology</i> , 2021, 55, 1487-1496.	4.6	12
9	Characterization of hospital airborne SARS-CoV-2. <i>Respiratory Research</i> , 2021, 22, 73.	1.4	48
10	Per- and polyfluoroalkyl substances (PFAS) and total fluorine in fire station dust. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2021, 31, 930-942.	1.8	40
11	Impacts of climate change on methylmercury formation and bioaccumulation in the 21st century ocean. <i>One Earth</i> , 2021, 4, 279-288.	3.6	14
12	Isolating the AFFF Signature in Coastal Watersheds Using Oxidizable PFAS Precursors and Unexplained Organofluorine. <i>Environmental Science & Technology</i> , 2021, 55, 3686-3695.	4.6	56
13	Simultaneous combustion preparation for mercury isotope analysis and detection of total mercury using a direct mercury analyzer. <i>Analytica Chimica Acta</i> , 2021, 1154, 338327.	2.6	14
14	A Statistical Approach for Identifying Private Wells Susceptible to Perfluoroalkyl Substances (PFAS) Contamination. <i>Environmental Science and Technology Letters</i> , 2021, 8, 596-602.	3.9	18
15	Essential and toxic elements in sardines and tuna on the Colombian market. <i>Food Additives and Contaminants: Part B Surveillance</i> , 2021, 14, 206-218.	1.3	4
16	Improved Mechanistic Model of the Atmospheric Redox Chemistry of Mercury. <i>Environmental Science & Technology</i> , 2021, 55, 14445-14456.	4.6	65
17	Cumulative Lead Exposure Resulting from Coal Power Plants in India. <i>ISEE Conference Abstracts</i> , 2021, .	0.0	0
18	Emerging questions in exposure, regulation, and remediation of PFAS. <i>IScience</i> , 2021, 24, 103054.	1.9	0

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19	Portable X-ray Fluorescence as a Rapid Determination Tool to Detect Parts per Million Levels of Ni, Zn, As, Se, and Pb in Human Toenails: A South India Case Study. <i>Environmental Science & Technology</i> , 2021, 55, 13113-13121.	4.6	3
20	Surface-water/groundwater boundaries affect seasonal PFAS concentrations and PFAA precursor transformations. <i>Environmental Sciences: Processes and Impacts</i> , 2021, 23, 1893-1905.	1.7	15
21	Historical patterns in mercury exposure for North American songbirds. <i>Ecotoxicology</i> , 2020, 29, 1161-1173.	1.1	11
22	Selenium and stable mercury isotopes provide new insights into mercury toxicokinetics in pilot whales. <i>Science of the Total Environment</i> , 2020, 710, 136325.	3.9	36
23	Potential impacts of mercury released from thawing permafrost. <i>Nature Communications</i> , 2020, 11, 4650.	5.8	77
24	Transport of Legacy Perfluoroalkyl Substances and the Replacement Compound HFPO-DA through the Atlantic Gateway to the Arctic Ocean—Is the Arctic a Sink or a Source?. <i>Environmental Science & Technology</i> , 2020, 54, 9958-9967.	4.6	79
25	Screening New Persistent and Bioaccumulative Organics in China—TM's Inventory of Industrial Chemicals. <i>Environmental Science & Technology</i> , 2020, 54, 7398-7408.	4.6	42
26	Synthesis and Physicochemical Transformations of Size-Sorted Graphene Oxide during Simulated Digestion and Its Toxicological Assessment against an In Vitro Model of the Human Intestinal Epithelium. <i>Small</i> , 2020, 16, e1907640.	5.2	20
27	A Global Model for Methylmercury Formation and Uptake at the Base of Marine Food Webs. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2019GB006348.	1.9	65
28	Climate change and overfishing increase neurotoxicant in marine predators. <i>Nature</i> , 2019, 572, 648-650.	13.7	142
29	Are mercury emissions from satellite electric propulsion an environmental concern?*. <i>Environmental Research Letters</i> , 2019, 14, 124021.	2.2	3
30	Changing ocean systems: A short synthesis. , 2019, , 19-34.		2
31	Poly- and Perfluoroalkyl Substances in Seawater and Plankton from the Northwestern Atlantic Margin. <i>Environmental Science & Technology</i> , 2019, 53, 12348-12356.	4.6	85
32	Anthropogenic influences on mercury in Chinese soil and sediment revealed by relationships with total organic carbon. <i>Environmental Pollution</i> , 2019, 255, 113186.	3.7	19
33	Physico-chemical properties and gestational diabetes predict transplacental transfer and partitioning of perfluoroalkyl substances. <i>Environment International</i> , 2019, 130, 104874.	4.8	60
34	Five hundred years of anthropogenic mercury: spatial and temporal release profiles*. <i>Environmental Research Letters</i> , 2019, 14, 084004.	2.2	80
35	Atmospheric Concentrations and Wet/Dry Loadings of Mercury at the Remote Experimental Lakes Area, Northwestern Ontario, Canada. <i>Environmental Science & Technology</i> , 2019, 53, 8017-8026.	4.6	29
36	Tap Water Contributions to Plasma Concentrations of Poly- and Perfluoroalkyl Substances (PFAS) in a Nationwide Prospective Cohort of U.S. Women. <i>Environmental Health Perspectives</i> , 2019, 127, 67006.	2.8	72

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37	Phospholipid Levels Predict the Tissue Distribution of Poly- and Perfluoroalkyl Substances in a Marine Mammal. <i>Environmental Science and Technology Letters</i> , 2019, 6, 119-125.	3.9	84
38	A Global 3D Ocean Model for PCBs: Benchmark Compounds for Understanding the Impacts of Global Change on Neutral Persistent Organic Pollutants. <i>Global Biogeochemical Cycles</i> , 2019, 33, 469-481.	1.9	31
39	Risk tradeoffs associated with traditional food advisories for Labrador Inuit. <i>Environmental Research</i> , 2019, 168, 496-506.	3.7	19
40	Global and regional trends in mercury emissions and concentrations, 2010–2015. <i>Atmospheric Environment</i> , 2019, 201, 417-427.	1.9	154
41	A review of the pathways of human exposure to poly- and perfluoroalkyl substances (PFASs) and present understanding of health effects. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2019, 29, 131-147.	1.8	1,219
42	How Do We Measure Poly- and Perfluoroalkyl Substances (PFASs) at the Surface of Consumer Products?. <i>Environmental Science and Technology Letters</i> , 2019, 6, 38-43.	3.9	46
43	Modelling the mercury stable isotope distribution of Earth surface reservoirs: Implications for global Hg cycling. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 246, 156-173.	1.6	96
44	Organ-specific differences in mercury speciation and accumulation across ringed seal (<i>Phoca hispida</i>) life stages. <i>Science of the Total Environment</i> , 2019, 650, 2013-2020.	3.9	22
45	Fisheries and seafood security under changing oceans. , 2019, , 175-179.		2
46	Seafood methylmercury in a changing ocean. , 2019, , 61-68.		0
47	Shifting Global Exposures to Poly- and Perfluoroalkyl Substances (PFASs) Evident in Longitudinal Birth Cohorts from a Seafood-Consuming Population. <i>Environmental Science & Technology</i> , 2018, 52, 3738-3747.	4.6	64
48	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.	2.8	500
49	Can profiles of poly- and Perfluoroalkyl substances (PFASs) in human serum provide information on major exposure sources?. <i>Environmental Health</i> , 2018, 17, 11.	1.7	58
50	Historical releases of mercury to air, land, and water from coal combustion. <i>Science of the Total Environment</i> , 2018, 615, 131-140.	3.9	90
51	A Model for Methylmercury Uptake and Trophic Transfer by Marine Plankton. <i>Environmental Science & Technology</i> , 2018, 52, 654-662.	4.6	86
52	Photoreduction of gaseous oxidized mercury changes global atmospheric mercury speciation, transport and deposition. <i>Nature Communications</i> , 2018, 9, 4796.	5.8	107
53	Eurasian river spring flood observations support net Arctic Ocean mercury export to the atmosphere and Atlantic Ocean. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E11586-E11594.	3.3	68
54	Concentrations and Water Mass Transport of Legacy POPs in the Arctic Ocean. <i>Geophysical Research Letters</i> , 2018, 45, 12,972.	1.5	28

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55	Decadal Changes in the Edible Supply of Seafood and Methylmercury Exposure in the United States. <i>Environmental Health Perspectives</i> , 2018, 126, 017006.	2.8	69
56	Mercury Stable Isotopes Reveal Influence of Foraging Depth on Mercury Concentrations and Growth in Pacific Bluefin Tuna. <i>Environmental Science & Technology</i> , 2018, 52, 6256-6264.	4.6	52
57	TAP WATER INTAKE OF POLY- AND PERFLUOROALKYL SUBSTANCES (PFAS) IN RELATION TO SERUM CONCENTRATIONS IN A NATIONWIDE PROSPECTIVE COHORT OF U.S. WOMEN. , 2018, , .		0
58	Temporal Shifts in Poly- and Perfluoroalkyl Substances (PFASs) in North Atlantic Pilot Whales Indicate Large Contribution of Atmospheric Precursors. <i>Environmental Science & Technology</i> , 2017, 51, 4512-4521.	4.6	62
59	Total Mercury Released to the Environment by Human Activities. <i>Environmental Science & Technology</i> , 2017, 51, 5969-5977.	4.6	304
60	Vertical Profiles, Sources, and Transport of PFASs in the Arctic Ocean. <i>Environmental Science & Technology</i> , 2017, 51, 6735-6744.	4.6	107
61	Geochemical and Hydrologic Factors Controlling Subsurface Transport of Poly- and Perfluoroalkyl Substances, Cape Cod, Massachusetts. <i>Environmental Science & Technology</i> , 2017, 51, 4269-4279.	4.6	150
62	Results of a national survey of high-frequency fish consumers in the United States. <i>Environmental Research</i> , 2017, 158, 126-136.	3.7	23
63	North Atlantic Deep Water formation inhibits high Arctic contamination by continental perfluorooctane sulfonate discharges. <i>Global Biogeochemical Cycles</i> , 2017, 31, 1332-1343.	1.9	42
64	A new mechanism for atmospheric mercury redox chemistry: implications for the global mercury budget. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 6353-6371.	1.9	296
65	Toward an Assessment of the Global Inventory of Present-Day Mercury Releases to Freshwater Environments. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 138.	1.2	87
66	POLY- AND PERFLUOROALKYL SUBSTANCES (PFAS) IN GROUNDWATER FROM TWO LEGACY SOURCES ON CAPE COD, MA – WHAT ARE THE NATIONAL IMPLICATIONS?. , 2017, , .		0
67	Environmental Origins of Methylmercury Accumulated in Subarctic Estuarine Fish Indicated by Mercury Stable Isotopes. <i>Environmental Science & Technology</i> , 2016, 50, 11559-11568.	4.6	60
68	Source Attribution of Poly- and Perfluoroalkyl Substances (PFASs) in Surface Waters from Rhode Island and the New York Metropolitan Area. <i>Environmental Science and Technology Letters</i> , 2016, 3, 316-321.	3.9	111
69	Detection of Poly- and Perfluoroalkyl Substances (PFASs) in U.S. Drinking Water Linked to Industrial Sites, Military Fire Training Areas, and Wastewater Treatment Plants. <i>Environmental Science and Technology Letters</i> , 2016, 3, 344-350.	3.9	839
70	A mass budget for mercury and methylmercury in the Arctic Ocean. <i>Global Biogeochemical Cycles</i> , 2016, 30, 560-575.	1.9	110
71	Future Impacts of Hydroelectric Power Development on Methylmercury Exposures of Canadian Indigenous Communities. <i>Environmental Science & Technology</i> , 2016, 50, 13115-13122.	4.6	41
72	Biogeochemistry: Mercury methylation on ice. <i>Nature Microbiology</i> , 2016, 1, 16165.	5.9	1

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73	Observed decrease in atmospheric mercury explained by global decline in anthropogenic emissions. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 526-531.	3.3	284
74	Connecting mercury science to policy: from sources to seafood. Reviews on Environmental Health, 2016, 31, 17-20.	1.1	19
75	Benefits of Regulating Hazardous Air Pollutants from Coal and Oil-Fired Utilities in the United States. Environmental Science & Technology, 2016, 50, 2117-2120.	4.6	35
76	Historical (1850â€“2010) mercury stable isotope inventory from anthropogenic sources to the atmosphere. Elementa, 2016, 4, .	1.1	64
77	Insights from mercury stable isotopes into factors affecting the internal body burden of methylmercury in frequent fish consumers. Elementa, 2016, 4, .	1.1	12
78	Biogeochemical drivers of the fate of riverine mercury discharged to the global and Arctic oceans. Global Biogeochemical Cycles, 2015, 29, 854-864.	1.9	99
79	Contrasting Effects of Marine and Terrestrially Derived Dissolved Organic Matter on Mercury Speciation and Bioavailability in Seawater. Environmental Science & Technology, 2015, 49, 5965-5972.	4.6	109
80	Observational and Modeling Constraints on Global Anthropogenic Enrichment of Mercury. Environmental Science & Technology, 2015, 49, 4036-4047.	4.6	152
81	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.	3.3	116
82	A Data-Driven Design Evaluation Tool for Handheld Device Soft Keyboards. PLoS ONE, 2014, 9, e107070.	1.1	6
83	Global Biogeochemical Implications of Mercury Discharges from Rivers and Sediment Burial. Environmental Science & Technology, 2014, 48, 9514-9522.	4.6	229
84	Elemental Mercury Concentrations and Fluxes in the Tropical Atmosphere and Ocean. Environmental Science & Technology, 2014, 48, 11312-11319.	4.6	72
85	Historical Mercury Releases from Commercial Products: Global Environmental Implications. Environmental Science & Technology, 2014, 48, 10242-10250.	4.6	227
86	Assessing Sources of Human Methylmercury Exposure Using Stable Mercury Isotopes. Environmental Science & Technology, 2014, 48, 8800-8806.	4.6	84
87	Future trends in environmental mercury concentrations: implications for prevention strategies. Environmental Health, 2013, 12, 2.	1.7	47
88	Toward the next generation of air quality monitoring: Mercury. Atmospheric Environment, 2013, 80, 599-611.	1.9	86
89	Global Change and Mercury. Science, 2013, 341, 1457-1458.	6.0	289
90	Legacy impacts of all-time anthropogenic emissions on the global mercury cycle. Global Biogeochemical Cycles, 2013, 27, 410-421.	1.9	377

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91	Drivers of Surface Ocean Mercury Concentrations and Air–Sea Exchange in the West Atlantic Ocean. <i>Environmental Science & Technology</i> , 2013, 47, 7757-7765.	4.6	65
92	Mercury in foods. , 2013, , 392-413.		5
93	Factors driving mercury variability in the Arctic atmosphere and ocean over the past 30 years. <i>Global Biogeochemical Cycles</i> , 2013, 27, 1226-1235.	1.9	37
94	Human influence on the global mercury cycle: understanding the past and projecting the future. <i>E3S Web of Conferences</i> , 2013, 1, 30001.	0.2	0
95	Hg trends in the North and South Atlantic. <i>E3S Web of Conferences</i> , 2013, 1, 07002.	0.2	0
96	Which Fish Should I Eat? Perspectives Influencing Fish Consumption Choices. <i>Environmental Health Perspectives</i> , 2012, 120, 790-798.	2.8	156
97	Gas-particle partitioning of atmospheric Hg(II) and its effect on global mercury deposition. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 591-603.	1.9	371
98	Multi-decadal decline of mercury in the North Atlantic atmosphere explained by changing subsurface seawater concentrations. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	85
99	Riverine source of Arctic Ocean mercury inferred from atmospheric observations. <i>Nature Geoscience</i> , 2012, 5, 499-504.	5.4	168
100	Mercury sources and fate in the Gulf of Maine. <i>Environmental Research</i> , 2012, 119, 27-41.	3.7	54
101	Mercury biogeochemical cycling in the ocean and policy implications. <i>Environmental Research</i> , 2012, 119, 101-117.	3.7	477
102	Nutrient supply and mercury dynamics in marine ecosystems: A conceptual model. <i>Environmental Research</i> , 2012, 119, 118-131.	3.7	78
103	Mercury in the Gulf of Mexico: Sources to receptors. <i>Environmental Research</i> , 2012, 119, 42-52.	3.7	40
104	Marine mercury fate: From sources to seafood consumers. <i>Environmental Research</i> , 2012, 119, 1-2.	3.7	28
105	All-Time Releases of Mercury to the Atmosphere from Human Activities. <i>Environmental Science & Technology</i> , 2011, 45, 10485-10491.	4.6	434
106	Global Source–Receptor Relationships for Mercury Deposition Under Present-Day and 2050 Emissions Scenarios. <i>Environmental Science & Technology</i> , 2011, 45, 10477-10484.	4.6	140
107	Balancing the benefits of n-3 polyunsaturated fatty acids and the risks of methylmercury exposure from fish consumption. <i>Nutrition Reviews</i> , 2011, 69, 493-508.	2.6	204
108	Sources of Mercury Exposure for U.S. Seafood Consumers: Implications for Policy. <i>Environmental Health Perspectives</i> , 2010, 118, 137-143.	2.8	72

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109	Anthropogenic impacts on global storage and emissions of mercury from terrestrial soils: Insights from a new global model. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	140
110	Response of a Macrotidal Estuary to Changes in Anthropogenic Mercury Loading between 1850 and 2000. <i>Environmental Science & Technology</i> , 2010, 44, 1698-1704.	4.6	63
111	An Improved Global Model for Air-Sea Exchange of Mercury: High Concentrations over the North Atlantic. <i>Environmental Science & Technology</i> , 2010, 44, 8574-8580.	4.6	225
112	APPLICATION OF ECOSYSTEM-SCALE FATE AND BIOACCUMULATION MODELS TO PREDICT FISH MERCURY RESPONSE TIMES TO CHANGES IN ATMOSPHERIC DEPOSITION. <i>Environmental Toxicology and Chemistry</i> , 2009, 28, 881.	2.2	77
113	Mercury sources, distribution, and bioavailability in the North Pacific Ocean: Insights from data and models. <i>Global Biogeochemical Cycles</i> , 2009, 23, .	1.9	378
114	Global 3D land-ocean-atmosphere model for mercury: Present-day versus preindustrial cycles and anthropogenic enrichment factors for deposition. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	1.9	174
115	Correction to "Global 3D land-ocean-atmosphere model for mercury: Present-day versus preindustrial cycles and anthropogenic enrichment factors for deposition". <i>Global Biogeochemical Cycles</i> , 2008, 22, .	1.9	24
116	Reconciling models and measurements to assess trends in atmospheric mercury deposition. <i>Environmental Pollution</i> , 2008, 156, 526-535.	3.7	32
117	Human impacts on open ocean mercury concentrations. <i>Global Biogeochemical Cycles</i> , 2007, 21, .	1.9	239
118	Mercury Exposure from Domestic and Imported Estuarine and Marine Fish in the U.S. Seafood Market. <i>Environmental Health Perspectives</i> , 2007, 115, 235-242.	2.8	271
119	Mercury methylation in estuaries: Insights from using measuring rates using stable mercury isotopes. <i>Marine Chemistry</i> , 2006, 102, 134-147.	0.9	151
120	Environmental controls on the speciation and distribution of mercury in coastal sediments. <i>Marine Chemistry</i> , 2006, 102, 111-123.	0.9	149
121	Speciation and bioavailability of mercury in well-mixed estuarine sediments. <i>Marine Chemistry</i> , 2004, 90, 91-105.	0.9	142
122	Historical rates of salt marsh accretion on the outer Bay of Fundy. <i>Canadian Journal of Earth Sciences</i> , 2001, 38, 1081-1092.	0.6	39
123	The history of mercury emissions from fuel combustion in Maritime Canada. <i>Environmental Pollution</i> , 2000, 110, 297-306.	3.7	23
124	An inventory of historical mercury emissions in Maritime Canada: implications for present and future contamination. <i>Science of the Total Environment</i> , 2000, 256, 39-57.	3.9	38