

# Mae Sexauer Gustin

## 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.

88  
papers

3,637  
citations

34  
h-index

58  
g-index

93  
ext. papers

4,027  
ext. citations

7.6  
avg, IF

5.72  
L-index

#	Paper	IF	Citations
88	Further investigations into the use of tree rings as archives of atmospheric mercury concentrations. <i>Biogeochemistry</i> , <b>2022</b> , 158, 167	3.8	1
87	Structural equation modeling of long-term controls on mercury and bromine accumulation in Pinheiro mire (Minas Gerais, Brazil). <i>Science of the Total Environment</i> , <b>2021</b> , 757, 143940	10.2	0
86	Use of Membranes and Detailed HYSPLIT Analyses to Understand Atmospheric Particulate, Gaseous Oxidized, and Reactive Mercury Chemistry. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 893-901	10.3	6
85	Development of an Understanding of Reactive Mercury in Ambient Air: A Review. <i>Atmosphere</i> , <b>2021</b> , 12, 73	2.7	9
84	Evaluation of sorption surface materials for reactive mercury compounds. <i>Atmospheric Environment</i> , <b>2020</b> , 242, 117836	5.3	5
83	Improvements to the Accuracy of Atmospheric Oxidized Mercury Measurements. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 13379-13388	10.3	7
82	Use of Multiple Lines of Evidence to Understand Reactive Mercury Concentrations and Chemistry in Hawaii, Nevada, Maryland, and Utah, USA. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 7922-7931	10.3	8
81	Comparison of co-located ice-core and tree-ring mercury records indicates potential radial translocation of mercury in whitebark pine. <i>Science of the Total Environment</i> , <b>2020</b> , 743, 140695	10.2	8
80	Improvement of quantification and identification of atmospheric reactive mercury. <i>Atmospheric Environment</i> , <b>2020</b> , 224, 117307	5.3	12
79	Mercury biogeochemical cycling: A synthesis of recent scientific advances. <i>Science of the Total Environment</i> , <b>2020</b> , 737, 139619	10.2	18
78	Human bones tell the story of atmospheric mercury and lead exposure at the edge of Roman World. <i>Science of the Total Environment</i> , <b>2020</b> , 710, 136319	10.2	16
77	Environmental archives of atmospheric Hg deposition - A review. <i>Science of the Total Environment</i> , <b>2020</b> , 709, 134800	10.2	32
76	Evaluation of cation exchange membrane performance under exposure to high Hg <sup>0</sup> and HgBr <sub>2</sub> concentrations. <i>Atmospheric Measurement Techniques</i> , <b>2019</b> , 12, 1207-1217	4	11
75	What is in commercial cat and dog food? The case for mercury and ingredient testing. <i>Science of the Total Environment</i> , <b>2019</b> , 684, 276-280	10.2	6
74	Assessment of the Suitability of Tree Rings as Archives of Global and Regional Atmospheric Mercury Pollution. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 3663-3671	10.3	19
73	What caused Earth's largest mass extinction event? New evidence from the Permian-Triassic boundary in northeastern Utah. <i>Global and Planetary Change</i> , <b>2019</b> , 177, 81-100	4.2	11
72	Comparison of 4 Methods for Measurement of Reactive, Gaseous Oxidized, and Particulate Bound Mercury. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 14489-14495	10.3	21

71	Results of a controlled field experiment to assess the use of tree tissue concentrations as bioindicators of air Hg. <i>Biogeochemistry</i> , <b>2019</b> , 142, 265-279	3.8	17
70	Evidence for Nonstomatal Uptake of Hg by Aspen and Translocation of Hg from Foliage to Tree Rings in Austrian Pine. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 1174-1182	10.3	42
69	Use of multiple tools including lead isotopes to decipher sources of ozone and reactive mercury to urban and rural locations in Nevada, USA. <i>Science of the Total Environment</i> , <b>2018</b> , 615, 1411-1427	10.2	8
68	Industrial-era lead and mercury contamination in southern Greenland implicates North American sources. <i>Science of the Total Environment</i> , <b>2018</b> , 613-614, 919-930	10.2	14
67	Development of a Particulate Mass Measurement System for Quantification of Ambient Reactive Mercury. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 436-445	10.3	11
66	A synthesis of research needs for improving the understanding of atmospheric mercury cycling. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 9133-9144	6.8	29
65	Deciphering potential chemical compounds of gaseous oxidized mercury in Florida, USA. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 1689-1698	6.8	25
64	Automated Calibration of Atmospheric Oxidized Mercury Measurements. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 12921-12927	10.3	23
63	Evidence for Different Reactive Hg Sources and Chemical Compounds at Adjacent Valley and High Elevation Locations. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 12225-12231	10.3	21
62	Importance of Integration and Implementation of Emerging and Future Mercury Research into the Minamata Convention. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 2767-70	10.3	52
61	Gas-exchange chamber analysis of elemental mercury deposition/emission to alluvium, ore, and mine tailings. <i>Chemosphere</i> , <b>2015</b> , 131, 209-16	8.4	7
60	Uncertainties of Gaseous Oxidized Mercury Measurements Using KCl-Coated Denuders, Cation-Exchange Membranes, and Nylon Membranes: Humidity Influences. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 6102-8	10.3	61
59	Identification of sources contributing to PM2.5 and ozone at elevated sites in the western U.S. by receptor analysis: Lassen Volcanic National Park, California, and Great Basin National Park, Nevada. <i>Science of the Total Environment</i> , <b>2015</b> , 530-531, 505-518	10.2	13
58	Development of a statistical model to identify spatial and meteorological drivers of elevated O3 in Nevada and its application to other rural mountainous regions. <i>Science of the Total Environment</i> , <b>2015</b> , 530-531, 526-533	10.2	
57	Variability and sources of surface ozone at rural sites in Nevada, USA: Results from two years of the Nevada Rural Ozone Initiative. <i>Science of the Total Environment</i> , <b>2015</b> , 530-531, 471-482	10.2	19
56	The Nevada Rural Ozone Initiative (NVROI): Insights to understanding air pollution in complex terrain. <i>Science of the Total Environment</i> , <b>2015</b> , 530-531, 455-470	10.2	20
55	Investigating the influence of long-range transport on surface O3 in Nevada, USA, using observations from multiple measurement platforms. <i>Science of the Total Environment</i> , <b>2015</b> , 530-531, 493-504	10.2	9
54	Use of passive sampling methods and models to understand sources of mercury deposition to high elevation sites in the Western United States. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 432-41	10.3	22

53	Downwash of atmospherically deposited trace metals in peat and the influence of rainfall intensity: an experimental test. <i>Science of the Total Environment</i> , <b>2015</b> , 506-507, 95-101	10.2	14
52	Beryllium-7 as a natural tracer for short-term downwash in peat. <i>Biogeochemistry</i> , <b>2014</b> , 119, 329-339	3.8	17
51	A review of passive sampling systems for ambient air mercury measurements. <i>Environmental Sciences: Processes and Impacts</i> , <b>2014</b> , 16, 374-92	4.3	42
50	Investigation of mercury deposition and potential sources at six sites from the Pacific Coast to the Great Basin, USA. <i>Science of the Total Environment</i> , <b>2014</b> , 470-471, 1099-113	10.2	27
49	Application of tree rings [dendrochemistry] for detecting historical trends in air Hg concentrations across multiple scales. <i>Biogeochemistry</i> , <b>2014</b> , 120, 149-162	3.8	37
48	Incorporation of radiometric tracers in peat and implications for estimating accumulation rates. <i>Science of the Total Environment</i> , <b>2014</b> , 493, 170-7	10.2	19
47	Evidence for sites of methylmercury formation in a flowing water system: impact of anthropogenic barriers and water management. <i>Science of the Total Environment</i> , <b>2014</b> , 478, 58-69	10.2	6
46	Investigation of the potential for mercury release from flue gas desulfurization solids applied as an agricultural amendment. <i>Journal of Environmental Quality</i> , <b>2014</b> , 43, 253-62	3.4	17
45	Historical trends of mercury and spheroidal carbonaceous particle deposition in sub-alpine lakes in the Great Basin, United States. <i>Journal of Paleolimnology</i> , <b>2014</b> , 52, 405-418	2.1	8
44	Mercury biogeochemical cycling and processes: implications for human and ecosystem health. <i>Science of the Total Environment</i> , <b>2014</b> , 496, 635	10.2	2
43	Do we understand what the mercury speciation instruments are actually measuring? Results of RAMIX. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 7295-306	10.3	144
42	Comparison of gaseous oxidized Hg measured by KCl-coated denuders, and nylon and cation exchange membranes. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 7307-16	10.3	92
41	Evaluating paleoproxies for peat decomposition and their relationship to peat geochemistry. <i>Holocene</i> , <b>2013</b> , 23, 1666-1671	2.6	23
40	Building upon the Conceptual Model for Soil Mercury Flux: Evidence of a Link Between Moisture Evaporation and Hg Evasion. <i>Water, Air, and Soil Pollution</i> , <b>2013</b> , 224, 1	2.6	36
39	Testing the use of passive sampling systems for understanding air mercury concentrations and dry deposition across Florida, USA. <i>Science of the Total Environment</i> , <b>2012</b> , 424, 297-307	10.2	32
38	Mining, metallurgy and the historical origin of mercury pollution in lakes and watercourses in Central Sweden. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 7984-91	10.3	26
37	Evidence for a free troposphere source of mercury in wet deposition in the Western United States. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 6621-9	10.3	32
36	Exchange of Mercury between the Atmosphere and Terrestrial Ecosystems <b>2011</b> , 423-451		19

35	Reducing the uncertainty in measurement and understanding of mercury in the atmosphere. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 2222-7	10.3	114
34	Laboratory investigation of Hg release from flue gas desulfurization products. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 4012-8	10.3	34
33	Importance of vegetation type for mercury sequestration in the northern Swedish mire, R�mossamyran. <i>Geochimica Et Cosmochimica Acta</i> , <b>2010</b> , 74, 7116-7126	5.5	26
32	Climate driven release of carbon and mercury from permafrost mires increases mercury loading to sub-arctic lakes. <i>Science of the Total Environment</i> , <b>2010</b> , 408, 4778-83	10.2	92
31	Determinants of atmospheric mercury concentrations in Reno, Nevada, U.S.A. <i>Science of the Total Environment</i> , <b>2009</b> , 408, 431-8	10.2	48
30	Atmospheric mercury concentrations and speciation measured from 2004 to 2007 in Reno, Nevada, USA. <i>Atmospheric Environment</i> , <b>2009</b> , 43, 4646-4654	5.3	57
29	Observations of speciated atmospheric mercury at three sites in Nevada: Evidence for a free tropospheric source of reactive gaseous mercury. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		71
28	Speciation of atmospheric mercury at two sites in northern Nevada, USA. <i>Atmospheric Environment</i> , <b>2008</b> , 42, 927-939	5.3	45
27	An update on the natural sources and sinks of atmospheric mercury. <i>Applied Geochemistry</i> , <b>2008</b> , 23, 482-493	3.5	149
26	Assessing the stability of mercury and methylmercury in a varved lake sediment deposit. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 4391-6	10.3	65
25	Determination of the potential for release of mercury from combustion product amended soils: part 2--coal fly ash generated stabilized soil and degradation products. <i>Journal of the Air and Waste Management Association</i> , <b>2008</b> , 58, 1495-508	2.4	1
24	Determination of the potential for release of mercury from combustion product amended soils: Part 1--Simulations of beneficial use. <i>Journal of the Air and Waste Management Association</i> , <b>2008</b> , 58, 673-83	2.4	3
23	Modeling the past atmospheric deposition of mercury using natural archives. <i>Environmental Science &amp; Technology</i> , <b>2007</b> , 41, 4851-60	10.3	178
22	Estimation of dry deposition of atmospheric mercury in Nevada by direct and indirect methods. <i>Environmental Science &amp; Technology</i> , <b>2007</b> , 41, 1970-6	10.3	113
21	Investigation of mercury accumulation in cattails growing in constructed wetland mesocosms. <i>Wetlands</i> , <b>2007</b> , 27, 1056-1065	1.7	21
20	Assessing the Influence of Different Atmospheric and Soil Mercury Concentrations on Foliar Mercury Concentrations in a Controlled Environment. <i>Water, Air, and Soil Pollution</i> , <b>2007</b> , 181, 373-384	2.6	76
19	Mercury pollution trends in subarctic lakes in the northern Swedish mountains. <i>Ambio</i> , <b>2007</b> , 36, 401-5	6.5	24
18	Gaseous elemental mercury exchange with low mercury containing soils: Investigation of controlling factors. <i>Applied Geochemistry</i> , <b>2007</b> , 22, 1451-1466	3.5	71

17	Mercury distribution in two Sierran forest and one desert sagebrush steppe ecosystems and the effects of fire. <i>Science of the Total Environment</i> , <b>2006</b> , 367, 222-33	10.2	72
16	Atmospheric mercury emissions from substrates and fumaroles associated with three hydrothermal systems in the western United States. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		41
15	Mercury exchange between the atmosphere and low mercury containing substrates. <i>Applied Geochemistry</i> , <b>2006</b> , 21, 1913-1923	3.5	71
14	Mired in the past Looking to the future: Geochemistry of peat and the analysis of past environmental changes. <i>Global and Planetary Change</i> , <b>2006</b> , 53, 209-221	4.2	76
13	Effect of Watering and Soil Moisture on Mercury Emissions from Soils. <i>Biogeochemistry</i> , <b>2005</b> , 76, 215-232	3.8	113
12	Atmospheric mercury emissions and speciation at the sulphur bank mercury mine superfund site, Northern California. <i>Environmental Science &amp; Technology</i> , <b>2004</b> , 38, 1977-83	10.3	42
11	Does within-bog spatial variability of mercury and lead constrain reconstructions of absolute deposition rates from single peat records? The example of Store Mosse, Sweden. <i>Global Biogeochemical Cycles</i> , <b>2004</b> , 18, n/a-n/a	5.9	85
10	An assessment of the significance of mercury release from coal fly ash. <i>Journal of the Air and Waste Management Association</i> , <b>2004</b> , 54, 320-30	2.4	24
9	Are mercury emissions from geologic sources significant? A status report. <i>Science of the Total Environment</i> , <b>2003</b> , 304, 153-67	10.2	124
8	Scaling of atmospheric mercury emissions from three naturally enriched areas: Flowery Peak, Nevada; Peavine Peak, Nevada; and Long Valley Caldera, California. <i>Science of the Total Environment</i> , <b>2002</b> , 290, 91-104	10.2	41
7	Investigation of the light-enhanced emission of mercury from naturally enriched substrates. <i>Atmospheric Environment</i> , <b>2002</b> , 36, 3241-3254	5.3	185
6	Influence of Natural Sources on Mercury in Water, Sediment and Aquatic Biota in Seven Tributary Streams of the East Fork of the Upper Carson River, California. <i>Water, Air, and Soil Pollution</i> , <b>2002</b> , 133, 283-295	2.6	7
5	Quantifying natural source mercury emissions from the Ivanhoe Mining District, north-central Nevada, USA. <i>Atmospheric Environment</i> , <b>2001</b> , 35, 3987-3997	5.3	122
4	Assessing the contribution of natural sources to regional atmospheric mercury budgets. <i>Science of the Total Environment</i> , <b>2000</b> , 259, 61-71	10.2	109
3	Effect of temperature and air movement on the flux of elemental mercury from substrate to the atmosphere. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 3891-3898		101
2	Atmospheric Mercury Concentrations Associated with Geologically and Anthropogenically Enriched Sites in Central Western Nevada. <i>Environmental Science &amp; Technology</i> , <b>1996</b> , 30, 2572-2579	10.3	54
1	Fate of Springtime Atmospheric Reactive Mercury: Concentrations and Deposition at Zeppelin, Svalbard. <i>ACS Earth and Space Chemistry</i> ,	3.2	2