Seth N Lyman

List of Publications by Year
in descending order

38 papers	1,687 citations	331259 21 h-index	315357 38 g-index
47 all docs	47 docs citations	47 times ranked	1175 citing authors

#	Article	IF	Citations
1	Do We Understand What the Mercury Speciation Instruments Are Actually Measuring? Results of RAMIX. Environmental Science & Technology, 2013, 47, 7295-7306.	4.6	179
2	Formation and fate of oxidized mercury in the upper troposphere and lower stratosphere. Nature Geoscience, 2012, 5, 114-117.	5.4	132
3	Estimation of Dry Deposition of Atmospheric Mercury in Nevada by Direct and Indirect Methods. Environmental Science & Technology, 2007, 41, 1970-1976.	4.6	119
4	An updated review of atmospheric mercury. Science of the Total Environment, 2020, 707, 135575.	3.9	111
5	Progress on Understanding Atmospheric Mercury Hampered by Uncertain Measurements. Environmental Science & Technology, 2014, 48, 7204-7206.	4.6	90
6	Mercury exchange between the atmosphere and low mercury containing substrates. Applied Geochemistry, 2006, 21, 1913-1923.	1.4	84
7	Observations of speciated atmospheric mercury at three sites in Nevada: Evidence for a free tropospheric source of reactive gaseous mercury. Journal of Geophysical Research, 2009, 114, .	3.3	78
8	Fast Time Resolution Oxidized Mercury Measurements during the Reno Atmospheric Mercury Intercomparison Experiment (RAMIX). Environmental Science & Technology, 2013, 47, 7285-7294.	4.6	66
9	Atmospheric mercury concentrations and speciation measured from 2004 to 2007 in Reno, Nevada, USA. Atmospheric Environment, 2009, 43, 4646-4654.	1.9	63
10	Testing and Application of Surrogate Surfaces for Understanding Potential Gaseous Oxidized Mercury Dry Deposition. Environmental Science & Technology, 2009, 43, 6235-6241.	4.6	60
11	Determinants of atmospheric mercury concentrations in Reno, Nevada, U.S.A.. Science of the Total Environment, 2009, 408, 431-438.	3.9	59
12	A passive sampler for ambient gaseous oxidized mercury concentrations. Atmospheric Environment, 2010, 44, 246-252.	1.9	57
13	Sources of gaseous oxidized mercury and mercury dry deposition at two southeastern U.S. sites. Atmospheric Environment, 2011, 45, 4569-4579.	1.9	50
14	Speciation of atmospheric mercury at two sites in northern Nevada, USA. Atmospheric Environment, 2008, 42, 927-939.	1.9	49
15	Mercury biogeochemical cycling: A synthesis of recent scientific advances. Science of the Total Environment, 2020, 737, 139619.	3.9	48
16	A review of passive sampling systems for ambient air mercury measurements. Environmental Sciences: Processes and Impacts, 2014, 16, 374-392.	1.7	45
17	Detection and quantification of gas-phase oxidized mercury compounds by GC/MS. Atmospheric Measurement Techniques, 2016, 9, 2195-2205.	1.2	36
18	A synthesis of research needs for improving the understanding of atmospheric mercury cycling. Atmospheric Chemistry and Physics, 2017, 17, 9133-9144.	1.9	33

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19	Hydrocarbon and Carbon Dioxide Fluxes from Natural Gas Well Pad Soils and Surrounding Soils in Eastern Utah. Environmental Science & Technology, 2017, 51, 11625-11633.	4.6	32
20	Inversion structure and winter ozone distribution in the Uintah Basin, Utah, U.S.A.. Atmospheric Environment, 2015, 123, 156-165.	1.9	30
21	Automated Calibration of Atmospheric Oxidized Mercury Measurements. Environmental Science & Technology, 2016, 50, 12921-12927.	4.6	28
22	Emissions of organic compounds from produced water ponds I: Characteristics and speciation. Science of the Total Environment, 2018, 619-620, 896-905.	3.9	21
23	Development of an Understanding of Reactive Mercury in Ambient Air: A Review. Atmosphere, 2021, 12, 73.	1.0	21
24	Evaluation of the Community Multiscale Air Quality Model for Simulating Winter Ozone Formation in the Uinta Basin. Journal of Geophysical Research D: Atmospheres, 2017, 122, 13545-13572.	1.2	20
25	High Ethylene and Propylene in an Area Dominated by Oil Production. Atmosphere, 2021, 12, 1.	1.0	20
26	Improvements to the Accuracy of Atmospheric Oxidized Mercury Measurements. Environmental Science & Technology, 2020, 54, 13379-13388.	4.6	19
27	Aerial and ground-based optical gas imaging survey of Uinta Basin oil and gas wells. Elementa, 2019, 7, .	1.1	17
28	Four dimensional data assimilation (FDDA) impacts on WRF performance in simulating inversion layer structure and distributions of CMAQ-simulated winter ozone concentrations in Uintah Basin. Atmospheric Environment, 2018, 177, 75-92.	1.9	15
29	Use of Membranes and Detailed HYSPLIT Analyses to Understand Atmospheric Particulate, Gaseous Oxidized, and Reactive Mercury Chemistry. Environmental Science & Technology, 2021, 55, 893-901.	4.6	15
30	Use of Multiple Lines of Evidence to Understand Reactive Mercury Concentrations and Chemistry in Hawaiâ€™i, Nevada, Maryland, and Utah, USA. Environmental Science & Technology, 2020, 54, 7922-7931.	4.6	14
31	Emissions of organic compounds from produced water ponds III: Mass-transfer coefficients, composition-emission correlations, and contributions to regional emissions. Science of the Total Environment, 2018, 627, 860-868.	3.9	13
32	Strong temporal variability in methane fluxes from natural gas well pad soils. Atmospheric Pollution Research, 2020, 11, 1386-1395.	1.8	13
33	Declining methane emissions and steady, high leakage rates observed over multiple years in a western US oil/gas production basin. Scientific Reports, 2021, 11, 22291.	1.6	13
34	Evaluation of sorption surface materials for reactive mercury compounds. Atmospheric Environment, 2020, 242, 117836.	1.9	11
35	Emissions of organic compounds from produced water ponds II: Evaluation of flux chamber measurements with inverse-modeling techniques. Journal of the Air and Waste Management Association, 2018, 68, 713-724.	0.9	10
36	The magnitude of the snow-sourced reactive nitrogen flux to the boundary layer in the Uintah Basin, Utah, USA. Atmospheric Chemistry and Physics, 2016, 16, 13837-13851.	1.9	7

#	Article	IF	Citations
37	Organic compound emissions from a landfarm used for oil and gas solid waste disposal. Journal of the Air and Waste Management Association, 2018, 68, 637-642.	0.9	4
38	Winter Ozone Pollution in Utahâ€™s Uinta Basin is Attenuating. Atmosphere, 2021, 12, 4.	1.0	4