

# Lyatt Jaegle

## List of Publications by Citations

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102  
papers

6,080  
citations

43  
h-index

77  
g-index

107  
ext. papers

6,800  
ext. citations

6.1  
avg. IF

5.3  
L-index

#	Paper	IF	Citations
102	Global distribution of sea salt aerosols: new constraints from in situ and remote sensing observations. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 3137-3157	6.8	393
101	Global partitioning of NO <sub>x</sub> sources using satellite observations: relative roles of fossil fuel combustion, biomass burning and soil emissions. <i>Faraday Discussions</i> , <b>2005</b> , 130, 407-23; discussion 491-517, 519-24	3.6	337
100	Hydrogen radicals, nitrogen radicals, and the production of O <sub>3</sub> in the upper troposphere. <i>Science</i> , <b>1998</b> , 279, 49-53	33.3	300
99	Chemical cycling and deposition of atmospheric mercury: Global constraints from observations. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		294
98	Long-range transport of Asian pollution to the northeast Pacific: Seasonal variations and transport pathways of carbon monoxide. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		222
97	Long-range transport of Siberian biomass burning emissions and impact on surface ozone in western North America. <i>Geophysical Research Letters</i> , <b>2004</b> , 31,	4.9	205
96	Chemistry of HO <sub>x</sub> radicals in the upper troposphere. <i>Atmospheric Environment</i> , <b>2001</b> , 35, 469-489	5.3	195
95	Chemistry of hydrogen oxide radicals (HO <sub>x</sub> ) in the Arctic troposphere in spring. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 5823-5838	6.8	184
94	Air-sea exchange in the global mercury cycle. <i>Global Biogeochemical Cycles</i> , <b>2007</b> , 21,	5.9	160
93	Photochemistry of HO <sub>x</sub> in the upper troposphere at northern midlatitudes. <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 3877-3892		145
92	Observed OH and HO <sub>2</sub> in the upper troposphere suggest a major source from convective injection of peroxides. <i>Geophysical Research Letters</i> , <b>1997</b> , 24, 3181-3184	4.9	143
91	Remote sensed and in situ constraints on processes affecting tropical tropospheric ozone. <i>Atmospheric Chemistry and Physics</i> , <b>2007</b> , 7, 815-838	6.8	141
90	Observations of reactive gaseous mercury in the free troposphere at the Mount Bachelor Observatory. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		137
89	Global 3-D land-ocean-atmosphere model for mercury: Present-day versus preindustrial cycles and anthropogenic enrichment factors for deposition. <i>Global Biogeochemical Cycles</i> , <b>2008</b> , 22, n/a-n/a	5.9	130
88	Satellite mapping of rain-induced nitric oxide emissions from soils. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109, n/a-n/a		116
87	Sources and chemistry of NO <sub>x</sub> in the upper troposphere over the United States. <i>Geophysical Research Letters</i> , <b>1998</b> , 25, 1705-1708	4.9	109
86	Sources of HO <sub>x</sub> and production of ozone in the upper troposphere over the United States. <i>Geophysical Research Letters</i> , <b>1998</b> , 25, 1709-1712	4.9	88

85	Airborne in-situ OH and HO <sub>2</sub> observations in the cloud-free troposphere and lower stratosphere during SUCCESS. <i>Geophysical Research Letters</i> , <b>1998</b> , 25, 1701-1704	4.9	88
84	Chemical feedbacks weaken the wintertime response of particulate sulfate and nitrate to emissions reductions over the eastern United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 8110-8115	11.5	86
83	Nested-grid simulation of mercury over North America. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 6095-6111	6.8	83
82	PHOBEA/ITCT 2002 airborne observations of transpacific transport of ozone, CO, volatile organic compounds, and aerosols to the northeast Pacific: Impacts of Asian anthropogenic and Siberian boreal fire emissions. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		83
81	Formaldehyde (HCHO) As a Hazardous Air Pollutant: Mapping Surface Air Concentrations from Satellite and Inferring Cancer Risks in the United States. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 5650-5657	10.3	80
80	Progress on understanding atmospheric mercury hampered by uncertain measurements. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 7204-6	10.3	78
79	Sources and budgets for CO and O <sub>3</sub> in the northeastern Pacific during the spring of 2001: Results from the PHOBEA-II Experiment. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		78
78	Assessing known pathways for HO <sub>2</sub> loss in aqueous atmospheric aerosols: Regional and global impacts on tropospheric oxidants. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		76
77	Trans-Pacific transport of mercury. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		73
76	Impact of Asian emissions on observations at Trinidad Head, California, during ITCT 2K2. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		73
75	Summertime influence of Asian pollution in the free troposphere over North America. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		72
74	Heterogeneous N <sub>2</sub> O <sub>5</sub> Uptake During Winter: Aircraft Measurements During the 2015 WINTER Campaign and Critical Evaluation of Current Parameterizations. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 4345-4372	4.4	69
73	Trans-Pacific transport of Saharan dust to western North America: A case study. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		69
72	Global budget of molecular hydrogen and its deuterium content: Constraints from ground station, cruise, and aircraft observations. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		68
71	Observations of HO <sub>x</sub> and its relationship with NO <sub>x</sub> in the upper troposphere during SONEX. <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 3771-3783		63
70	OH and HO <sub>2</sub> chemistry in the North Atlantic free troposphere. <i>Geophysical Research Letters</i> , <b>1999</b> , 26, 3077-3080	4.9	63
69	Ozone photochemistry and the role of peroxyacetyl nitrate in the springtime northeastern Pacific troposphere: Results from the Photochemical Ozone Budget of the Eastern North Pacific Atmosphere (PHOBEA) campaign. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 28731-28742		59
68	Wintertime enhancements of sea salt aerosol in polar regions consistent with a sea ice source from blowing snow. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 3699-3712	6.8	58

67	Sources and Secondary Production of Organic Aerosols in the Northeastern United States during WINTER. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 7771-7796	4.4	57
66	Origin of oxidized mercury in the summertime free troposphere over the southeastern US. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 1511-1530	6.8	56
65	Meteorological indices for Asian outflow and transpacific transport on daily to interannual timescales. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		54
64	Oxidation of mercury by bromine in the subtropical Pacific free troposphere. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 10,494	4.9	51
63	Synthesis of the Southeast Atmosphere Studies: Investigating Fundamental Atmospheric Chemistry Questions. <i>Bulletin of the American Meteorological Society</i> , <b>2018</b> , 99, 547-567	6.1	50
62	Six centuries of changing oceanic mercury. <i>Global Biogeochemical Cycles</i> , <b>2014</b> , 28, 1251-1261	5.9	50
61	Reactive nitrogen budget during the NASA SONEX Mission. <i>Geophysical Research Letters</i> , <b>1999</b> , 26, 3057-3060	4.9	50
60	Balloon observations of organic and inorganic chlorine in the stratosphere: the role of HClO <sub>4</sub> production on sulfate aerosols. <i>Geophysical Research Letters</i> , <b>1996</b> , 23, 1749-52	4.9	48
59	Sulfate production by reactive bromine: Implications for the global sulfur and reactive bromine budgets. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 7069-7078	4.9	43
58	Vertical distribution of mercury, CO, ozone, and aerosol scattering coefficient in the Pacific Northwest during the spring 2006 INTEX-B campaign. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		43
57	Ozone production in the upper troposphere and the influence of aircraft during SONEX: approach of NO <sub>x</sub> -saturated conditions. <i>Geophysical Research Letters</i> , <b>1999</b> , 26, 3081-3084	4.9	42
56	Natural biogeochemical cycle of mercury in a global three-dimensional ocean tracer model. <i>Global Biogeochemical Cycles</i> , <b>2014</b> , 28, 553-570	5.9	40
55	Satellite observations of aerosol transport from East Asia to the Arctic: three case studies. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 2225-2243	6.8	40
54	Meteorological controls on observed peroxyacetyl nitrate at Mount Bachelor during the spring of 2008. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		40
53	Hydrochloric acid and the chlorine budget of the lower stratosphere. <i>Geophysical Research Letters</i> , <b>1994</b> , 21, 2575-2578	4.9	40
52	Spatial and seasonal distribution of Arctic aerosols observed by the CALIOP satellite instrument (2006-2012). <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 7075-7095	6.8	39
51	Transport of biomass burning emissions from southern Africa. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		36
50	NO <sub>x</sub> Lifetime and NO <sub>y</sub> Partitioning During WINTER. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 9813-9827	4.4	32

49	Influence of long-range-transported pollution on the annual and diurnal cycles of carbon monoxide and ozone at Cheeka Peak Observatory. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		32
48	Nitrogen Oxides Emissions, Chemistry, Deposition, and Export Over the Northeast United States During the WINTER Aircraft Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 12,368-4	4.4	32
47	Balloon profiles of stratospheric NO <sub>2</sub> and HNO <sub>3</sub> for testing the heterogeneous hydrolysis of N <sub>2</sub> O <sub>5</sub> on sulfate aerosols. <i>Geophysical Research Letters</i> , <b>1994</b> , 21, 53-56	4.9	29
46	Impact of mercury emissions from historic gold and silver mining: Global modeling. <i>Atmospheric Environment</i> , <b>2009</b> , 43, 2012-2017	5.3	28
45	Flight Deployment of a High-Resolution Time-of-Flight Chemical Ionization Mass Spectrometer: Observations of Reactive Halogen and Nitrogen Oxide Species. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 7670	4.4	25
44	Decreases in Mercury Wet Deposition over the United States during 2004-2010: Roles of Domestic and Global Background Emission Reductions. <i>Atmosphere</i> , <b>2013</b> , 4, 113-131	2.7	25
43	ClNO <sub>2</sub> Yields From Aircraft Measurements During the 2015 WINTER Campaign and Critical Evaluation of the Current Parameterization. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 12,994	4.4	24
42	Multi-model study of mercury dispersion in the atmosphere: vertical and interhemispheric distribution of mercury species. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 6925-6955	6.8	23
41	Evolution of HCL concentrations in the lower stratosphere from 1991 to 1996 following the eruption of Mt. Pinatubo. <i>Geophysical Research Letters</i> , <b>1998</b> , 25, 995-998	4.9	23
40	Biomass Burning Markers and Residential Burning in the WINTER Aircraft Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 1846-1861	4.4	22
39	Meridional distribution of molecular hydrogen and its deuterium content in the atmosphere. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		22
38	Vertical transport of anthropogenic mercury in the ocean. <i>Global Biogeochemical Cycles</i> , <b>2010</b> , 24, n/a-n/3.9		21
37	Airborne Observations of Reactive Inorganic Chlorine and Bromine Species in the Exhaust of Coal-Fired Power Plants. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 11225-11237	4.4	21
36	Evolution and stoichiometry of heterogeneous processing in the Antarctic stratosphere. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 13235-13253		20
35	Anthropogenic control over wintertime oxidation of atmospheric pollutants. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 14826-14835	4.9	20
34	In situ measurements of the NO <sub>2</sub> /NO ratio for testing atmospheric photochemical models. <i>Geophysical Research Letters</i> , <b>1994</b> , 21, 2555-2558	4.9	19
33	Evaluation of CMAQ Coupled With a State-of-the-Art Mercury Chemical Mechanism (CMAQ-newHg-Br). <i>Journal of Advances in Modeling Earth Systems</i> , <b>2018</b> , 10, 668-690	7.1	18
32	Composite study of aerosol export events from East Asia and North America. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 1221-1242	6.8	18

31	Widespread Pollution From Secondary Sources of Organic Aerosols During Winter in the Northeastern United States. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 2974-2983	4.9	17
30	Multi-year composite view of ozone enhancements and stratosphere-to-troposphere transport in dry intrusions of northern hemisphere extratropical cyclones. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 13436-13457	4.4	16
29	Subtropical subsidence and surface deposition of oxidized mercury produced in the free troposphere. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 8999-9017	6.8	16
28	Using CALIOP to constrain blowing snow emissions of sea salt aerosols over Arctic and Antarctic sea ice. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 16253-16269	6.8	16
27	Wintertime Gas-Particle Partitioning and Speciation of Inorganic Chlorine in the Lower Troposphere Over the Northeast United States and Coastal Ocean. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 12,897	4.4	16
26	Nitrogen oxides in the global upper troposphere: interpreting cloud-sliced NO <sub>2</sub> observations from the OMI satellite instrument. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 17017-17027	6.8	15
25	Global high-resolution emissions of soil NO, sea salt aerosols, and biogenic volatile organic compounds. <i>Scientific Data</i> , <b>2020</b> , 7, 148	8.2	13
24	Correction to "Global 3-D land-ocean-atmosphere model for mercury: Present-day versus preindustrial cycles and anthropogenic enrichment factors for deposition" <i>Global Biogeochemical Cycles</i> , <b>2008</b> , 22, n/a-n/a	5.9	13
23	Atmospheric science. Pumping up surface air. <i>Science</i> , <b>2007</b> , 315, 772-3	33.3	11
22	Observational Constraints on the Formation of Cl <sub>2</sub> From the Reactive Uptake of ClNO <sub>2</sub> on Aerosols in the Polluted Marine Boundary Layer. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 8851-8869	4.4	10
21	Nested-grid simulation of mercury over North America		10
20	Evaluating the impact of blowing-snow sea salt aerosol on springtime BrO and O <sub>3</sub> in the Arctic. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 7335-7358	6.8	9
19	The Geos-Chem model <b>2009</b> , 533-545		9
18	Rates of Wintertime Atmospheric SO <sub>2</sub> Oxidation based on Aircraft Observations during Clear-Sky Conditions over the Eastern United States. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 6630-6649	4.4	8
17	NO <sub>y</sub> partitioning from measurements of nitrogen and hydrogen radicals in the upper troposphere. <i>Geophysical Research Letters</i> , <b>1999</b> , 26, 51-54	4.9	8
16	Reduced Arctic air pollution due to decreasing European and North American emissions. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 8692-8700	4.4	6
15	Airborne observations of mercury emissions from the Chicago/Gary urban/industrial area during the 2013 NOMADSS campaign. <i>Atmospheric Environment</i> , <b>2016</b> , 145, 415-423	5.3	6
14	Heterogeneous Nitrate Production Mechanisms in Intense Haze Events in the North China Plain. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2021JD034688	4.4	5

13	Constraints from observations and modeling on atmosphere-surface exchange of mercury in eastern North America. <i>Elementa</i> , <b>2016</b> , 4,	3.6	4
12	Effects of Sea Salt Aerosol Emissions for Marine Cloud Brightening on Atmospheric Chemistry: Implications for Radiative Forcing. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2019GL085838	4.9	3
11	Importance of a global scale approach to using regional models in the assessment of source-receptor relationships for mercury <b>2009</b> , 503-517		3
10	Regional Characteristics of Atmospheric Sulfate Formation in East Antarctica Imprinted on <sup>17</sup> O-Excess Signature. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2020JD033583	4.4	3
9	Spatial and seasonal distribution of Arctic aerosols observed by CALIOP (2006-2012)		2
8	Significant Decrease in Wet Deposition of Anthropogenic Chloride Across the Eastern United States, 1998-2018. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL090195	4.9	2
7	Wintertime Formaldehyde: Airborne Observations and Source Apportionment Over the Eastern United States. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2020JD033518	4.4	2
6	Chapter 14 Chemistry of HO <sub>x</sub> radicals in the upper troposphere. <i>Developments in Environmental Science</i> , <b>2002</b> , 1, 393-433		1
5	Origin of oxidized mercury in the summertime free troposphere over the southeastern US		1
4	Perspectives and Integration in SOLAS Science. <i>Springer Earth System Sciences</i> , <b>2014</b> , 247-306	0.3	1
3	Chemistry of hydrogen oxide radicals (HO <sub>x</sub> ) in the Arctic troposphere in spring		1
2	Seasonally Resolved Holocene Sea Ice Variability Inferred From South Pole Ice Core Chemistry. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2020GL091602	4.9	1
1	Global simulations of monoterpene-derived peroxy radical fates and the distributions of highly oxygenated organic molecules (HOMs) and accretion products. <i>Atmospheric Chemistry and Physics</i> , <b>2022</b> , 22, 5477-5494	6.8	0