

Lyatt Jaegle

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.

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 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> , 2022 , 22, 5477-5494	6.8	0
101	Regional Characteristics of Atmospheric Sulfate Formation in East Antarctica Imprinted on 17O-Excess Signature. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD033583	4.4	3
100	Seasonally Resolved Holocene Sea Ice Variability Inferred From South Pole Ice Core Chemistry. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL091602	4.9	1
99	Heterogeneous Nitrate Production Mechanisms in Intense Haze Events in the North China Plain. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2021JD034688	4.4	5
98	Wintertime Formaldehyde: Airborne Observations and Source Apportionment Over the Eastern United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD033518	4.4	2
97	Global high-resolution emissions of soil NO, sea salt aerosols, and biogenic volatile organic compounds. <i>Scientific Data</i> , 2020 , 7, 148	8.2	13
96	Evaluating the impact of blowing-snow sea salt aerosol on springtime BrO and O ₃ in the Arctic. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 7335-7358	6.8	9
95	Effects of Sea Salt Aerosol Emissions for Marine Cloud Brightening on Atmospheric Chemistry: Implications for Radiative Forcing. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL085838	4.9	3
94	Significant Decrease in Wet Deposition of Anthropogenic Chloride Across the Eastern United States, 1998-2018. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL090195	4.9	2
93	Biomass Burning Markers and Residential Burning in the WINTER Aircraft Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 1846-1861	4.4	22
92	Rates of Wintertime Atmospheric SO ₂ Oxidation based on Aircraft Observations during Clear-Sky Conditions over the Eastern United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 6630-6649	4.4	8
91	Observational Constraints on the Formation of Cl ₂ From the Reactive Uptake of ClNO ₂ on Aerosols in the Polluted Marine Boundary Layer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 8851-8869	4.4	10
90	Widespread Pollution From Secondary Sources of Organic Aerosols During Winter in the Northeastern United States. <i>Geophysical Research Letters</i> , 2019 , 46, 2974-2983	4.9	17
89	Anthropogenic control over wintertime oxidation of atmospheric pollutants. <i>Geophysical Research Letters</i> , 2019 , 46, 14826-14835	4.9	20
88	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> , 2018 , 10, 668-690	7.1	18
87	Heterogeneous N ₂ O ₅ Uptake During Winter: Aircraft Measurements During the 2015 WINTER Campaign and Critical Evaluation of Current Parameterizations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 4345-4372	4.4	69
86	Synthesis of the Southeast Atmosphere Studies: Investigating Fundamental Atmospheric Chemistry Questions. <i>Bulletin of the American Meteorological Society</i> , 2018 , 99, 547-567	6.1	50

85	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> , 2018 , 115, 8110-8115	11.5	86
84	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> , 2018 , 123, 7670	4.4	25
83	Sources and Secondary Production of Organic Aerosols in the Northeastern United States during WINTER. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 7771-7796	4.4	57
82	NO _x Lifetime and NO _y Partitioning During WINTER. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 9813-9827	4.4	32
81	Nitrogen oxides in the global upper troposphere: interpreting cloud-sliced NO _x ; observations from the OMI satellite instrument. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 17017-17027	6.8	15
80	Using CALIOP to constrain blowing snow emissions of sea salt aerosols over Arctic and Antarctic sea ice. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 16253-16269	6.8	16
79	ClNO ₂ Yields From Aircraft Measurements During the 2015 WINTER Campaign and Critical Evaluation of the Current Parameterization. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 12,994	4.4	24
78	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> , 2018 , 123, 12,368	4.4	32
77	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> , 2018 , 123, 12,897	4.4	16
76	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> , 2018 , 123, 11225-11237	4.4	21
75	Formaldehyde (HCHO) As a Hazardous Air Pollutant: Mapping Surface Air Concentrations from Satellite and Inferring Cancer Risks in the United States. <i>Environmental Science & Technology</i> , 2017 , 51, 5650-5657	10.3	80
74	Sulfate production by reactive bromine: Implications for the global sulfur and reactive bromine budgets. <i>Geophysical Research Letters</i> , 2017 , 44, 7069-7078	4.9	43
73	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> , 2017 , 122, 13436-13457	4.4	16
72	Subtropical subsidence and surface deposition of oxidized mercury produced in the free troposphere. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 8999-9017	6.8	16
71	Wintertime enhancements of sea salt aerosol in polar regions consistent with a sea ice source from blowing snow. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 3699-3712	6.8	58
70	Multi-model study of mercury dispersion in the atmosphere: vertical and interhemispheric distribution of mercury species. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 6925-6955	6.8	23
69	Reduced Arctic air pollution due to decreasing European and North American emissions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 8692-8700	4.4	6
68	Origin of oxidized mercury in the summertime free troposphere over the southeastern US. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 1511-1530	6.8	56

67	Constraints from observations and modeling on atmosphere-surface exchange of mercury in eastern North America. <i>Elementa</i> , 2016 , 4,	3.6	4
66	Airborne observations of mercury emissions from the Chicago/Gary urban/industrial area during the 2013 NOMADSS campaign. <i>Atmospheric Environment</i> , 2016 , 145, 415-423	5.3	6
65	Oxidation of mercury by bromine in the subtropical Pacific free troposphere. <i>Geophysical Research Letters</i> , 2015 , 42, 10,494	4.9	51
64	Progress on understanding atmospheric mercury hampered by uncertain measurements. <i>Environmental Science & Technology</i> , 2014 , 48, 7204-6	10.3	78
63	Natural biogeochemical cycle of mercury in a global three-dimensional ocean tracer model. <i>Global Biogeochemical Cycles</i> , 2014 , 28, 553-570	5.9	40
62	Six centuries of changing oceanic mercury. <i>Global Biogeochemical Cycles</i> , 2014 , 28, 1251-1261	5.9	50
61	Perspectives and Integration in SOLAS Science. <i>Springer Earth System Sciences</i> , 2014 , 247-306	0.3	1
60	Composite study of aerosol export events from East Asia and North America. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 1221-1242	6.8	18
59	Spatial and seasonal distribution of Arctic aerosols observed by the CALIOP satellite instrument (2006-2012). <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 7075-7095	6.8	39
58	Decreases in Mercury Wet Deposition over the United States during 2004-2010: Roles of Domestic and Global Background Emission Reductions. <i>Atmosphere</i> , 2013 , 4, 113-131	2.7	25
57	Nested-grid simulation of mercury over North America. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 6095-6111	6.8	83
56	Satellite observations of aerosol transport from East Asia to the Arctic: three case studies. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 2225-2243	6.8	40
55	Global distribution of sea salt aerosols: new constraints from in situ and remote sensing observations. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 3137-3157	6.8	393
54	Vertical transport of anthropogenic mercury in the ocean. <i>Global Biogeochemical Cycles</i> , 2010 , 24, n/a-n/a.9	3.9	21
53	Meridional distribution of molecular hydrogen and its deuterium content in the atmosphere. <i>Journal of Geophysical Research</i> , 2010 , 115,		22
52	Meteorological controls on observed peroxyacetyl nitrate at Mount Bachelor during the spring of 2008. <i>Journal of Geophysical Research</i> , 2010 , 115,		40
51	Chemistry of hydrogen oxide radicals (HO ₂) in the Arctic troposphere in spring. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 5823-5838	6.8	184
50	Impact of mercury emissions from historic gold and silver mining: Global modeling. <i>Atmospheric Environment</i> , 2009 , 43, 2012-2017	5.3	28

49	Importance of a global scale approach to using regional models in the assessment of source-receptor relationships for mercury 2009 , 503-517		3
48	The Geos-Chem model 2009 , 533-545		9
47	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> , 2008 , 22, n/a-n/a	5.9	130
46	Assessing known pathways for HO ₂ loss in aqueous atmospheric aerosols: Regional and global impacts on tropospheric oxidants. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		76
45	Trans-Pacific transport of mercury. <i>Journal of Geophysical Research</i> , 2008 , 113,		73
44	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> , 2008 , 113,		43
43	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> , 2008 , 22, n/a-n/a	5.9	13
42	Air-sea exchange in the global mercury cycle. <i>Global Biogeochemical Cycles</i> , 2007 , 21,	5.9	160
41	Trans-Pacific transport of Saharan dust to western North America: A case study. <i>Journal of Geophysical Research</i> , 2007 , 112,		69
40	Summertime influence of Asian pollution in the free troposphere over North America. <i>Journal of Geophysical Research</i> , 2007 , 112,		72
39	Global budget of molecular hydrogen and its deuterium content: Constraints from ground station, cruise, and aircraft observations. <i>Journal of Geophysical Research</i> , 2007 , 112,		68
38	Atmospheric science. Pumping up surface air. <i>Science</i> , 2007 , 315, 772-3	33.3	11
37	Remote sensed and in situ constraints on processes affecting tropical tropospheric ozone. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 815-838	6.8	141
36	Chemical cycling and deposition of atmospheric mercury: Global constraints from observations. <i>Journal of Geophysical Research</i> , 2007 , 112,		294
35	Observations of reactive gaseous mercury in the free troposphere at the Mount Bachelor Observatory. <i>Journal of Geophysical Research</i> , 2006 , 111,		137
34	Global partitioning of NO _x sources using satellite observations: relative roles of fossil fuel combustion, biomass burning and soil emissions. <i>Faraday Discussions</i> , 2005 , 130, 407-23; discussion 491-517, 519-24	3.6	337
33	Meteorological indices for Asian outflow and transpacific transport on daily to interannual timescales. <i>Journal of Geophysical Research</i> , 2005 , 110,		54
32	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> , 2004 , 109,		83

31	Long-range transport of Asian pollution to the northeast Pacific: Seasonal variations and transport pathways of carbon monoxide. <i>Journal of Geophysical Research</i> , 2004 , 109,		222
30	Impact of Asian emissions on observations at Trinidad Head, California, during ITCT 2K2. <i>Journal of Geophysical Research</i> , 2004 , 109,		73
29	Long-range transport of Siberian biomass burning emissions and impact on surface ozone in western North America. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	205
28	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> , 2004 , 109,		32
27	Satellite mapping of rain-induced nitric oxide emissions from soils. <i>Journal of Geophysical Research</i> , 2004 , 109, n/a-n/a		116
26	Transport of biomass burning emissions from southern Africa. <i>Journal of Geophysical Research</i> , 2004 , 109,		36
25	Sources and budgets for CO and O ₃ in the northeastern Pacific during the spring of 2001: Results from the PHOBEA-II Experiment. <i>Journal of Geophysical Research</i> , 2003 , 108,		78
24	Chapter 14 Chemistry of HO _x radicals in the upper troposphere. <i>Developments in Environmental Science</i> , 2002 , 1, 393-433		1
23	Chemistry of HO _x radicals in the upper troposphere. <i>Atmospheric Environment</i> , 2001 , 35, 469-489	5.3	195
22	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> , 2001 , 106, 28731-28742		59
21	Observations of HO _x and its relationship with NO _x in the upper troposphere during SONEX. <i>Journal of Geophysical Research</i> , 2000 , 105, 3771-3783		63
20	Photochemistry of HO _x in the upper troposphere at northern midlatitudes. <i>Journal of Geophysical Research</i> , 2000 , 105, 3877-3892		145
19	NO _y partitioning from measurements of nitrogen and hydrogen radicals in the upper troposphere. <i>Geophysical Research Letters</i> , 1999 , 26, 51-54	4.9	8
18	Ozone production in the upper troposphere and the influence of aircraft during SONEX: approach of NO _x -saturated conditions. <i>Geophysical Research Letters</i> , 1999 , 26, 3081-3084	4.9	42
17	OH and HO ₂ chemistry in the North Atlantic free troposphere. <i>Geophysical Research Letters</i> , 1999 , 26, 3077-3080	4.9	63
16	Reactive nitrogen budget during the NASA SONEX Mission. <i>Geophysical Research Letters</i> , 1999 , 26, 3057-3060	4.9	50
15	Sources and chemistry of NO _x in the upper troposphere over the United States. <i>Geophysical Research Letters</i> , 1998 , 25, 1705-1708	4.9	109
14	Sources of HO _x and production of ozone in the upper troposphere over the United States. <i>Geophysical Research Letters</i> , 1998 , 25, 1709-1712	4.9	88

13	Evolution of HCL concentrations in the lower stratosphere from 1991 to 1996 following the eruption of Mt. Pinatubo. <i>Geophysical Research Letters</i> , 1998 , 25, 995-998	4.9	23
12	Airborne in-situ OH and HO ₂ observations in the cloud-free troposphere and lower stratosphere during SUCCESS. <i>Geophysical Research Letters</i> , 1998 , 25, 1701-1704	4.9	88
11	Hydrogen radicals, nitrogen radicals, and the production of O ₃ in the upper troposphere. <i>Science</i> , 1998 , 279, 49-53	33.3	300
10	Evolution and stoichiometry of heterogeneous processing in the Antarctic stratosphere. <i>Journal of Geophysical Research</i> , 1997 , 102, 13235-13253		20
9	Observed OH and HO ₂ in the upper troposphere suggest a major source from convective injection of peroxides. <i>Geophysical Research Letters</i> , 1997 , 24, 3181-3184	4.9	143
8	Balloon observations of organic and inorganic chlorine in the stratosphere: the role of HClO ₄ production on sulfate aerosols. <i>Geophysical Research Letters</i> , 1996 , 23, 1749-52	4.9	48
7	Balloon profiles of stratospheric NO ₂ and HNO ₃ for testing the heterogeneous hydrolysis of N ₂ O ₅ on sulfate aerosols. <i>Geophysical Research Letters</i> , 1994 , 21, 53-56	4.9	29
6	In situ measurements of the NO ₂ /NO ratio for testing atmospheric photochemical models. <i>Geophysical Research Letters</i> , 1994 , 21, 2555-2558	4.9	19
5	Hydrochloric acid and the chlorine budget of the lower stratosphere. <i>Geophysical Research Letters</i> , 1994 , 21, 2575-2578	4.9	40
4	Nested-grid simulation of mercury over North America		10
3	Spatial and seasonal distribution of Arctic aerosols observed by CALIOP (2006-2012)		2
2	Origin of oxidized mercury in the summertime free troposphere over the southeastern US		1
1	Chemistry of hydrogen oxide radicals (HO _x) in the Arctic troposphere in spring		1