

# Ben H Lee

## List of Publications by Citations

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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.

69

papers

3,836

citations

27

h-index

61

g-index

72

ext. papers

4,775

ext. citations

7.1

avg, IF

4.69

L-index

#	Paper	IF	Citations
69	A large source of low-volatility secondary organic aerosol. <i>Nature</i> , <b>2014</b> , 506, 476-9	50.4	1078
68	An iodide-adduct high-resolution time-of-flight chemical-ionization mass spectrometer: application to atmospheric inorganic and organic compounds. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 6309-17	10.3	288
67	Nitrate radicals and biogenic volatile organic compounds: oxidation, mechanisms, and organic aerosol. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 2103-2162	6.8	206
66	Highly functionalized organic nitrates in the southeast United States: Contribution to secondary organic aerosol and reactive nitrogen budgets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 1516-21	11.5	195
65	A large and ubiquitous source of atmospheric formic acid. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 6283-6304	6.8	141
64	Monoterpenes are the largest source of summertime organic aerosol in the southeastern United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 2038-2043	11.5	117
63	Molecular Composition and Volatility of Organic Aerosol in the Southeastern U.S.: Implications for IEPOX Derived SOA. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 2200-9	10.3	110
62	The role of chlorine in global tropospheric chemistry. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 3981-4003	10.3	96
61	Constraining the sensitivity of iodide adduct chemical ionization mass spectrometry to multifunctional organic molecules using the collision limit and thermodynamic stability of iodide ion adducts. <i>Atmospheric Measurement Techniques</i> , <b>2016</b> , 9, 1505-1512	4	90
60	Organic nitrate aerosol formation via NO <sub>2</sub> + biogenic volatile organic compounds in the southeastern United States. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 13377-13392	6.8	90
59	Formaldehyde production from isoprene oxidation across NO regimes. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 2597-2610	6.8	88
58	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
57	Efficient Isoprene Secondary Organic Aerosol Formation from a Non-IEPOX Pathway. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 9872-80	10.3	80
56	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
55	Modeling the Detection of Organic and Inorganic Compounds Using Iodide-Based Chemical Ionization. <i>Journal of Physical Chemistry A</i> , <b>2016</b> , 120, 576-87	2.8	65
54	Molecular composition and volatility of isoprene photochemical secondary organic aerosol under low- and high-NO <sub>2</sub> conditions. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 159-174	6.8	53
53	Instrumentation and Measurement Strategy for the NOAA SENEX Aircraft Campaign as Part of the Southeast Atmosphere Study 2013. <i>Atmospheric Measurement Techniques</i> , <b>2016</b> , 9, 3063-3093	4	50

52	An Odd Oxygen Framework for Wintertime Ammonium Nitrate Aerosol Pollution in Urban Areas: NOx and VOC Control as Mitigation Strategies. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 4971-4979	4.9	45
51	Emissions of isoprenoids and oxygenated biogenic volatile organic compounds from a New England mixed forest. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 4807-4831	6.8	45
50	Simultaneous measurements of atmospheric HONO and NO <sub>2</sub> via absorption spectroscopy using tunable mid-infrared continuous-wave quantum cascade lasers. <i>Applied Physics B: Lasers and Optics</i> , <b>2011</b> , 102, 417-423	1.9	44
49	Anthropogenic enhancements to production of highly oxygenated molecules from autoxidation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 6641-6646	11.5	42
48	Enhanced formation of isoprene-derived organic aerosol in sulfur-rich power plant plumes during Southeast Nexus. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 11,137-11,153	4.4	38
47	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
46	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	32
45	Quantification of organic aerosol and brown carbon evolution in fresh wildfire plumes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 29469-29477	11.5	31
44	Urban measurements of atmospheric nitrous acid: A caveat on the interpretation of the HONO photostationary state. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 12,274-12,281	4.4	30
43	High upward fluxes of formic acid from a boreal forest canopy. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 9342-9351	4.9	27
42	Intercomparison of field measurements of nitrous acid (HONO) during the SHARP campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 5583-5601	4.4	27
41	HONO Emissions from Western U.S. Wildfires Provide Dominant Radical Source in Fresh Wildfire Smoke. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 5954-5963	10.3	26
40	Anthropogenic emissions of nonmethane hydrocarbons in the northeastern United States: Measured seasonal variations from 1992-1996 and 1999-2001. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		26
39	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
38	Mass fluxes and isofluxes of methane (CH <sub>4</sub> ) at a New Hampshire fen measured by a continuous wave quantum cascade laser spectrometer. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		25
37	Decadal changes in summertime reactive oxidized nitrogen and surface ozone over the Southeast United States. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 2341-2361	6.8	24
36	Identifying precursors and aqueous organic aerosol formation pathways during the SOAS campaign. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 14409-14420	6.8	24
35	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

34	Semi-volatile and highly oxygenated gaseous and particulate organic compounds observed above a boreal forest canopy. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 11547-11562	6.8	23
33	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
32	Chamber-based insights into the factors controlling epoxydiol (IEPOX) secondary organic aerosol (SOA) yield, composition, and volatility. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 11253-11265	6.8	21
31	Detecting Fugitive Emissions of 1,3-Butadiene and Styrene from a Petrochemical Facility: An Application of a Mobile Laboratory and a Modified Proton Transfer Reaction Mass Spectrometer. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 12706-12711	3.9	21
30	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
29	Aircraft emissions of methane and nitrous oxide during the alternative aviation fuel experiment. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 7075-82	10.3	20
28	Anthropogenic control over wintertime oxidation of atmospheric pollutants. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 14826-14835	4.9	20
27	Measurements of nitrous acid in commercial aircraft exhaust at the Alternative Aviation Fuel Experiment. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 7648-54	10.3	18
26	Airborne and ground-based observations of ammonium-nitrate-dominated aerosols in a shallow boundary layer during intense winter pollution episodes in northern Utah. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 17259-17276	6.8	18
25	On the contribution of nocturnal heterogeneous reactive nitrogen chemistry to particulate matter formation during wintertime pollution events in Northern Utah. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 9287-9308	6.8	17
24	Photolysis Controls Atmospheric Budgets of Biogenic Secondary Organic Aerosol. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 3861-3870	10.3	17
23	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
22	Infrared QC laser applications to field measurements of atmospheric trace gas sources and sinks in environmental research: enhanced capabilities using continuous wave QCLs <b>2009</b> ,		16
21	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
20	Combustion and Destruction/Removal Efficiencies of In-Use Chemical Flares in the Greater Houston Area. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 12685-12696	3.9	15
19	Wintertime Overnight NO <sub>x</sub> Removal in a Southeastern United States Coal-fired Power Plant Plume: A Model for Understanding Winter NO <sub>x</sub> Processing and its Implications. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 1412-1425	4.4	13
18	Effective line strengths of trans-nitrous acid near 1275 cm <sup>-1</sup> and cis-nitrous acid at 1660 cm <sup>-1</sup> . <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2012</b> , 113, 1905-1912	2.1	13
17	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

16	Evaluating Organic Aerosol Sources and Evolution with a Combined Molecular Composition and Volatility Framework Using the Filter Inlet for Gases and Aerosols (FIGAERO). <i>Accounts of Chemical Research</i> , <b>2020</b> , 53, 1415-1426	24.3	10
15	Resolving ambient organic aerosol formation and aging pathways with simultaneous molecular composition and volatility observations. <i>ACS Earth and Space Chemistry</i> , <b>2020</b> , 4, 391-402	3.2	8
14	Global tropospheric halogen (Cl, Br, I) chemistry and its impact on oxidants. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 13973-13996	6.8	7
13	Comparison of Airborne Reactive Nitrogen Measurements During WINTER. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 10483-10502	4.4	4
12	A large and ubiquitous source of atmospheric formic acid		3
11	Constraining the sensitivity of iodide adduct chemical ionization mass spectrometry to multifunctional organic molecules using the collision limit and thermodynamic stability of iodide ion adducts		3
10	The role of coarse aerosol particles as a sink of HNO <sub>3</sub> in wintertime pollution events in the Salt Lake Valley. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 8111-8126	6.8	3
9	Nitrate radicals and biogenic volatile organic compounds: oxidation, mechanisms and organic aerosol <b>2016</b> ,		3
8	Chamber-based insights into the factors controlling IEPOX SOA yield, composition, and volatility <b>2019</b> ,		2
7	Molecular composition and volatility of isoprene photochemical oxidation secondary organic aerosol under low and high NO <sub>x</sub> conditions <b>2016</b> ,		2
6	Reactive Chemistry in Aircraft Exhaust: Implications for Air Quality. <i>Transportation Research Record</i> , <b>2011</b> , 2206, 19-23	1.7	1
5	Identifying precursors and aqueous organic aerosol formation pathways during the SOAS campaign <b>2016</b> ,		1
4	The role of chlorine in tropospheric chemistry <b>2018</b> ,		1
3	Observations and Modeling of NO <sub>x</sub> Photochemistry and Fate in Fresh Wildfire Plumes. <i>ACS Earth and Space Chemistry</i> ,	3.2	1
2	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
1	A Four Carbon Organonitrate as a Significant Product of Secondary Isoprene Chemistry. <i>Geophysical Research Letters</i> , <b>2022</b> , 49,	4.9	0