

# Joel A Thornton

## List of Publications by Year in descending order

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194  
papers

18,197  
citations

9775

73  
h-index

17090

122  
g-index

239  
all docs

239  
docs citations

239  
times ranked

8300  
citing authors

#	ARTICLE	IF	CITATIONS
1	A large source of low-volatility secondary organic aerosol. <i>Nature</i> , 2014, 506, 476-479.	13.7	1,448
2	A large atomic chlorine source inferred from mid-continental reactive nitrogen chemistry. <i>Nature</i> , 2010, 464, 271-274.	13.7	562
3	Recent advances in understanding secondary organic aerosol: Implications for global climate forcing. <i>Reviews of Geophysics</i> , 2017, 55, 509-559.	9.0	548
4	Highly Oxygenated Organic Molecules (HOM) from Gas-Phase Autoxidation Involving Peroxy Radicals: A Key Contributor to Atmospheric Aerosol. <i>Chemical Reviews</i> , 2019, 119, 3472-3509.	23.0	460
5	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> , 2014, 48, 6309-6317.	4.6	406
6	A novel method for online analysis of gas and particle composition: description and evaluation of a Filter Inlet for Gases and AEROSols (FIGAERO). <i>Atmospheric Measurement Techniques</i> , 2014, 7, 983-1001.	1.2	345
7	Tropospheric Halogen Chemistry: Sources, Cycling, and Impacts. <i>Chemical Reviews</i> , 2015, 115, 4035-4062.	23.0	344
8	Toward a general parameterization of $\text{N}(\text{O})_x$ reactivity on aqueous particles: the competing effects of particle liquid water, nitrate and chloride. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 8351-8363.	1.9	310
9	Nitrate radicals and biogenic volatile organic compounds: oxidation, mechanisms, and organic aerosol. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 2103-2162.	1.9	307
10	Contribution of Nitrated Phenols to Wood Burning Brown Carbon Light Absorption in Detling, United Kingdom during Winter Time. <i>Environmental Science &amp; Technology</i> , 2013, 47, 6316-6324.	4.6	304
11	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> , 2016, 113, 1516-1521.	3.3	269
12	A thermal dissociation laser-induced fluorescence instrument for in situ detection of $\text{NO}_2$ , peroxy nitrates, alkyl nitrates, and $\text{HNO}_3$ . <i>Journal of Geophysical Research</i> , 2002, 107, ACH 4-1-ACH 4-14.	3.3	242
13	Atmospheric $\text{NO}_2$ : In Situ Laser-Induced Fluorescence Detection at Parts per Trillion Mixing Ratios. <i>Analytical Chemistry</i> , 2000, 72, 528-539.	3.2	237
14	The Formation of Highly Oxidized Multifunctional Products in the Ozonolysis of Cyclohexene. <i>Journal of the American Chemical Society</i> , 2014, 136, 15596-15606.	6.6	236
15	Quantifying atmospheric nitrate formation pathways based on a global model of the oxygen isotopic composition ( $\delta^{17}\text{O}$ ) of atmospheric nitrate. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 5043-5056.	1.9	235
16	Secondary organic aerosol reduced by mixture of atmospheric vapours. <i>Nature</i> , 2019, 565, 587-593.	13.7	222
17	$\text{N}_2\text{O}_5$ hydrolysis on sub-micron organic aerosols: the effect of relative humidity, particle phase, and particle size. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 4593.	1.3	214
18	Insights into hydroxyl measurements and atmospheric oxidation in a California forest. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 8009-8020.	1.9	211

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19	Reactive Uptake of an Isoprene-Derived Epoxydiol to Submicron Aerosol Particles. <i>Environmental Science &amp; Technology</i> , 2014, 48, 11178-11186.	4.6	208
20	Ozone production rates as a function of NOx abundances and HOx production rates in the Nashville urban plume. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 7-1.	3.3	207
21	NO <sub>2</sub> Reaction on Submicron Sea Salt Aerosol: Kinetics, Products, and the Effect of Surface Active Organics. <i>Journal of Physical Chemistry A</i> , 2005, 109, 10004-10012.	1.1	207
22	Quantifying trace gas uptake to tropospheric aerosol: recent advances and remaining challenges. <i>Chemical Society Reviews</i> , 2012, 41, 6555.	18.7	201
23	A field-deployable, chemical ionization time-of-flight mass spectrometer. <i>Atmospheric Measurement Techniques</i> , 2011, 4, 1471-1479.	1.2	200
24	A large and ubiquitous source of atmospheric formic acid. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 6283-6304.	1.9	197
25	The effect of varying levels of surfactant on the reactive uptake of N <sub>2</sub> O <sub>5</sub> to aqueous aerosol. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 1635-1644.	1.9	196
26	Chlorine activation by N <sub>2</sub> O <sub>5</sub> : simultaneous, in situ detection of ClNO <sub>2</sub> and N <sub>2</sub> O <sub>5</sub> by chemical ionization mass spectrometry. <i>Atmospheric Measurement Techniques</i> , 2009, 2, 193-204.	1.2	193
27	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> , 2018, 115, 2038-2043.	3.3	186
28	Nitryl Chloride and Molecular Chlorine in the Coastal Marine Boundary Layer. <i>Environmental Science &amp; Technology</i> , 2012, 46, 10463-10470.	4.6	177
29	Fine particle pH and the partitioning of nitric acid during winter in the northeastern United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 10,355.	1.2	176
30	Kinetics of Surface-Bound Benzo[a]pyrene and Ozone on Solid Organic and Salt Aerosols. <i>Journal of Physical Chemistry A</i> , 2004, 108, 11626-11634.	1.1	161
31	The role of chlorine in global tropospheric chemistry. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 3981-4003.	1.9	160
32	Molecular Composition and Volatility of Organic Aerosol in the Southeastern U.S.: Implications for IEPOX Derived SOA. <i>Environmental Science &amp; Technology</i> , 2016, 50, 2200-2209.	4.6	141
33	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> , 2016, 9, 1505-1512.	1.2	132
34	Effect of the Aerosol-Phase State on Secondary Organic Aerosol Formation from the Reactive Uptake of Isoprene-Derived Epoxydiols (IEPOX). <i>Environmental Science and Technology Letters</i> , 2018, 5, 167-174.	3.9	131
35	Urban pollution greatly enhances formation of natural aerosols over the Amazon rainforest. <i>Nature Communications</i> , 2019, 10, 1046.	5.8	131
36	Phase partitioning and volatility of secondary organic aerosol components formed from $\alpha$ -pinene ozonolysis and OH oxidation: the importance of accretion products and other low volatility compounds. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7765-7776.	1.9	126

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37	The Oxidation of Oleate in Submicron Aqueous Salt Aerosols: Evidence of a Surface Process. <i>Journal of Physical Chemistry A</i> , 2007, 111, 1073-1083.	1.1	124
38	Direct observations of $\text{NO}_2$ reactivity on ambient aerosol particles. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	124
39	The Chemistry of Atmosphere-Forest Exchange (CAFE) Model " Part 1: Model description and characterization. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 77-101.	1.9	124
40	Organic nitrate aerosol formation via $\text{NO}_3$ + biogenic volatile organic compounds in the southeastern United States. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 13377-13392.	1.9	124
41	Formaldehyde production from isoprene oxidation across $\text{NO}_3$ regimes. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 2597-2610.	1.9	124
42	Heterogeneous OH oxidation of palmitic acid in single component and internally mixed aerosol particles: vaporization and the role of particle phase. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 5465-5476.	1.9	118
43	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.	3.3	118
44	On alkyl nitrates, $\text{O}_3$ , and the "missing $\text{NO}_y$ ". <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	113
45	Observational Insights into Aerosol Formation from Isoprene. <i>Environmental Science &amp; Technology</i> , 2013, 47, 11403-11413.	4.6	113
46	Lightning enhancement over major oceanic shipping lanes. <i>Geophysical Research Letters</i> , 2017, 44, 9102-9111.	1.5	113
47	Understanding the role of the ground surface in HONO vertical structure: High resolution vertical profiles during NACHTT1. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 10,155.	1.2	111
48	Increasing Isoprene Epoxydiol-to-Inorganic Sulfate Aerosol Ratio Results in Extensive Conversion of Inorganic Sulfate to Organosulfur Forms: Implications for Aerosol Physicochemical Properties. <i>Environmental Science &amp; Technology</i> , 2019, 53, 8682-8694.	4.6	111
49	Closing the peroxy acetyl nitrate budget: observations of acyl peroxy nitrates (PAN, PPN, and MPAN) during BEARPEX 2007. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 7623-7641.	1.9	105
50	Meteorology, Air Quality, and Health in London: The ClearLo Project. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 779-804.	1.7	105
51	Chemical Characterization of Secondary Organic Aerosol from Oxidation of Isoprene Hydroxyhydroperoxides. <i>Environmental Science &amp; Technology</i> , 2016, 50, 9889-9899.	4.6	105
52	Heterogeneous $\text{NO}_2$ 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.	1.2	103
53	Effects of Chemical Complexity on the Autoxidation Mechanisms of Endocyclic Alkene Ozonolysis Products: From Methylcyclohexenes toward Understanding $\pm$ -Pinene. <i>Journal of Physical Chemistry A</i> , 2015, 119, 4633-4650.	1.1	101
54	Ozone photochemistry in an oil and natural gas extraction region during winter: simulations of a snow-free season in the Uintah Basin, Utah. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 8955-8971.	1.9	100

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55	Efficient Isoprene Secondary Organic Aerosol Formation from a Non-IEPOX Pathway. <i>Environmental Science &amp; Technology</i> , 2016, 50, 9872-9880.	4.6	100
56	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> , 2020, 117, 29469-29477.	3.3	100
57	A Chemical Ionization High-Resolution Time-of-Flight Mass Spectrometer Coupled to a Micro Orifice Volatilization Impactor (MOVI-HRToF-CIMS) for Analysis of Gas and Particle-Phase Organic Species. <i>Aerosol Science and Technology</i> , 2012, 46, 1313-1327.	1.5	99
58	Total Peroxy Nitrates (tPNs) in the atmosphere: the Thermal Dissociation-Laser Induced Fluorescence (TD-LIF) technique and comparisons to speciated PAN measurements. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 593-607.	1.2	95
59	Chlorine activation within urban or power plant plumes: Vertically resolved ClNO <sub>2</sub> and Cl <sub>2</sub> measurements from a tall tower in a polluted continental setting. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 8702-8715.	1.2	94
60	Reactivity of stabilized Criegee intermediates (sCIs) from isoprene and monoterpene ozonolysis toward SO <sub>2</sub> and organic acids. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 12143-12153.	1.9	94
61	Modeling the Detection of Organic and Inorganic Compounds Using Iodide-Based Chemical Ionization. <i>Journal of Physical Chemistry A</i> , 2016, 120, 576-587.	1.1	93
62	Eddy covariance fluxes of acyl peroxy nitrates (PAN, PPN and MPAN) above a Ponderosa pine forest. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 615-634.	1.9	92
63	On the temperature dependence of organic reactivity, nitrogen oxides, ozone production, and the impact of emission controls in San Joaquin Valley, California. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 3373-3395.	1.9	92
64	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> , 2008, 113, .	3.3	91
65	An extractive electrospray ionization time-of-flight mass spectrometer (EESI-TOF) for online measurement of atmospheric aerosol particles. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 4867-4886.	1.2	91
66	Semicontinuous measurements of gas-particle partitioning of organic acids in a ponderosa pine forest using a MOVI-HRToF-CIMS. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 1527-1546.	1.9	89
67	Computational Study of Hydrogen Shifts and Ring-Opening Mechanisms in $\alpha$ -Pinene Ozonolysis Products. <i>Journal of Physical Chemistry A</i> , 2015, 119, 11366-11375.	1.1	89
68	Heterogeneous Reactions of Isoprene-Derived Epoxides: Reaction Probabilities and Molar Secondary Organic Aerosol Yield Estimates. <i>Environmental Science and Technology Letters</i> , 2015, 2, 38-42.	3.9	89
69	Molecular identification of organic vapors driving atmospheric nanoparticle growth. <i>Nature Communications</i> , 2019, 10, 4442.	5.8	89
70	NO <sub>2</sub> O <sub>5</sub> uptake coefficients and nocturnal NO <sub>2</sub> removal rates determined from ambient wintertime measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 9331-9350.	1.2	87
71	An MCM modeling study of nitryl chloride (ClNO <sub>2</sub> ) impacts on oxidation, ozone production and nitrogen oxide partitioning in polluted continental outflow. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 3789-3800.	1.9	87
72	The Chemistry of Atmosphere-Forest Exchange (CAFE) Model - Part 2: Application to BEARPEX-2007 observations. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 1269-1294.	1.9	85

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73	Growth Kinetics and Size Distribution Dynamics of Viscous Secondary Organic Aerosol. <i>Environmental Science &amp; Technology</i> , 2018, 52, 1191-1199.	4.6	85
74	Reactive uptake of $\text{NO}_2$ to internally mixed inorganic and organic particles: the role of organic carbon oxidation state and inferred organic phase separations. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 5693-5707.	1.9	84
75	Quantitative constraints on autoxidation and dimer formation from direct probing of monoterpene-derived peroxy radical chemistry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 12142-12147.	3.3	81
76	Multiphase reactivity of gaseous hydroperoxide oligomers produced from isoprene ozonolysis in the presence of acidified aerosols. <i>Atmospheric Environment</i> , 2017, 152, 314-322.	1.9	80
77	An Odd Oxygen Framework for Wintertime Ammonium Nitrate Aerosol Pollution in Urban Areas: $\text{NO}_x$ and VOC Control as Mitigation Strategies. <i>Geophysical Research Letters</i> , 2019, 46, 4971-4979.	1.5	80
78	Observations of total alkyl nitrates during Texas Air Quality Study 2000: Implications for $\text{O}_3$ and alkyl nitrate photochemistry. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	79
79	Forest-atmosphere exchange of ozone: sensitivity to very reactive biogenic VOC emissions and implications for in-canopy photochemistry. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 7875-7891.	1.9	78
80	Formation of Low-Volatility Organic Compounds in the Atmosphere: Recent Advancements and Insights. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1503-1511.	2.1	78
81	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> , 2019, 116, 6641-6646.	3.3	78
82	Ozone depletion events observed in the high latitude surface layer during the TOPSE aircraft program. <i>Journal of Geophysical Research</i> , 2003, 108, TOP 4-1.	3.3	75
83	The Essential Role for Laboratory Studies in Atmospheric Chemistry. <i>Environmental Science &amp; Technology</i> , 2017, 51, 2519-2528.	4.6	75
84	BAECC: A Field Campaign to Elucidate the Impact of Biogenic Aerosols on Clouds and Climate. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 1909-1928.	1.7	71
85	Ambient observations of dimers from terpene oxidation in the gas phase: Implications for new particle formation and growth. <i>Geophysical Research Letters</i> , 2017, 44, 2958-2966.	1.5	71
86	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.	1.2	71
87	Molecular composition and volatility of isoprene photochemical secondary organic aerosol under low- and high- $\text{NO}_x$ conditions. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 159-174.		
88	Nitrogen, Aerosol Composition, and Halogens on a Tall Tower (NACHTT): Overview of a wintertime air chemistry field study in the front range urban corridor of Colorado. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 8067-8085.	1.2	68
89	Nighttime chemical evolution of aerosol and trace gases in a power plant plume: Implications for secondary organic nitrate and organosulfate aerosol formation, $\text{NO}_3$ radical chemistry, and $\text{N}_2\text{O}_5$ heterogeneous hydrolysis. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	67
90	An experimental technique for the direct measurement of $\text{NO}_2$ reactivity on ambient particles. <i>Atmospheric Measurement Techniques</i> , 2009, 2, 231-242.	1.2	66

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91	The primary and recycling sources of OH during the NACHTTâ€2011 campaign: HONO as an important OH primary source in the wintertime. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 6886-6896.	1.2	66
92	Comprehensive characterization of atmospheric organic carbon at a forested site. <i>Nature Geoscience</i> , 2017, 10, 748-753.	5.4	66
93	Measurements of HO <sub>2</sub> uptake to aqueous aerosol: Mass accommodation coefficients and net reactive loss. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	65
94	Direct N <sub>2</sub> O <sub>5</sub> reactivity measurements at a polluted coastal site. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 2959-2968.	1.9	64
95	Influence of trans-Pacific pollution transport on acyl peroxy nitrate abundances and speciation at Mount Bachelor Observatory during INTEX-B. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 5309-5325.	1.9	58
96	Instrumentation and measurement strategy for the NOAA SENEX aircraft campaign as part of the Southeast Atmosphere Study 2013. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 3063-3093.	1.2	58
97	Global tropospheric halogen (Cl, Br, I) chemistry and its impact on oxidants. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 13973-13996.	1.9	57
98	Phase partitioning of soluble trace gases with size-resolved aerosols in near-surface continental air over northern Colorado, USA, during winter. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 9414-9427.	1.2	56
99	Ozone production chemistry in the presence of urban plumes. <i>Faraday Discussions</i> , 2016, 189, 169-189.	1.6	56
100	Comparisons of in situ and long path measurements of NO <sub>2</sub> in urban plumes. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	54
101	The sea breeze/land breeze circulation in Los Angeles and its influence on nitryl chloride production in this region. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	54
102	Emissions of Trace Organic Gases From Western U.S. Wildfires Based on WEAâ€CAN Aircraft Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033838.	1.2	54
103	Particulate Organic Matter Detection Using a Micro-Orifice Volatilization Impactor Coupled to a Chemical Ionization Mass Spectrometer (MOVI-CIMS). <i>Aerosol Science and Technology</i> , 2010, 44, 61-74.	1.5	53
104	Isomerization of Second-Generation Isoprene Peroxy Radicals: Epoxide Formation and Implications for Secondary Organic Aerosol Yields. <i>Environmental Science &amp; Technology</i> , 2017, 51, 4978-4987.	4.6	53
105	NO <sub>x</sub> Lifetime and NO <sub>y</sub> Partitioning During WINTER. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 9813-9827.	1.2	52
106	HONO Emissions from Western U.S. Wildfires Provide Dominant Radical Source in Fresh Wildfire Smoke. <i>Environmental Science &amp; Technology</i> , 2020, 54, 5954-5963.	4.6	51
107	Observations of elevated formaldehyde over a forest canopy suggest missing sources from rapid oxidation of arboreal hydrocarbons. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 8761-8781.	1.9	50
108	Enhanced formation of isoprene-derived organic aerosol in sulfur-rich power plant plumes during Southeast Nexus. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 11,137.	1.2	50

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109	Measurements of the sum of HO <sub>2</sub> and CH <sub>3</sub> O <sub>2</sub> NO <sub>2</sub> and in the remote troposphere. <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 377-384.	1.9	49
110	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.	1.2	49
111	Isothermal Evaporation of $\alpha$ -Pinene Ozonolysis SOA: Volatility, Phase State, and Oligomeric Composition. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 1058-1067.	1.2	49
112	Molecular mechanism for rapid autoxidation in $\alpha$ -pinene ozonolysis. <i>Nature Communications</i> , 2021, 12, 878.	5.8	47
113	Constraining condensed-phase formation kinetics of secondary organic aerosol components from isoprene epoxydiols. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 1245-1254.	1.9	46
114	Online molecular characterization of fine particulate matter in Port Angeles, WA: Evidence for a major impact from residential wood smoke. <i>Atmospheric Environment</i> , 2016, 138, 99-107.	1.9	45
115	Effects of gas-wall interactions on measurements of semivolatile compounds and small polar molecules. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 3137-3149.	1.2	45
116	Overview of the HI-SCALE Field Campaign: A New Perspective on Shallow Convective Clouds. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 821-840.	1.7	44
117	Analysis of secondary organic aerosol formation and aging using positive matrix factorization of high-resolution aerosol mass spectra: application to the dodecane low-NO <sub>x</sub> system. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 11795-11817.	1.9	42
118	Production of N <sub>2</sub> O <sub>5</sub> and ClNO <sub>2</sub> through Nocturnal Processing of Biomass-Burning Aerosol. <i>Environmental Science &amp; Technology</i> , 2018, 52, 550-559.	4.6	42
119	A model framework to retrieve thermodynamic and kinetic properties of organic aerosol from composition-resolved thermal desorption measurements. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 14757-14785.	1.9	42
120	Predicting secondary organic aerosol phase state and viscosity and its effect on multiphase chemistry in a regional-scale air quality model. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 8201-8225.	1.9	42
121	Photochemical modeling of glyoxal at a rural site: observations and analysis from BEARPEX 2007. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 8883-8897.	1.9	41
122	Emissions of Reactive Nitrogen From Western U.S. Wildfires During Summer 2018. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD032657.	1.2	41
123	Reacto-Diffusive Length of N <sub>2</sub> O <sub>5</sub> in Aqueous Sulfate- and Chloride-Containing Aerosol Particles. <i>Journal of Physical Chemistry A</i> , 2016, 120, 1039-1045.	1.1	40
124	Field intercomparison of the gas/particle partitioning of oxygenated organics during the Southern Oxidant and Aerosol Study (SOAS) in 2013. <i>Aerosol Science and Technology</i> , 2017, 51, 30-56.	1.5	39
125	Semi-volatile and highly oxygenated gaseous and particulate organic compounds observed above a boreal forest canopy. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 11547-11562.	1.9	39
126	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, 7670-7686.	1.2	39



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127	Temperature dependent halogen activation by N <sub>2</sub> O <sub>5</sub> reactions on halide-doped ice surfaces. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 5237-5247.	1.9	38
128	Chamber-based insights into the factors controlling epoxydiol (IEPOX) secondary organic aerosol (SOA) yield, composition, and volatility. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 11253-11265.	1.9	38
129	High upward fluxes of formic acid from a boreal forest canopy. <i>Geophysical Research Letters</i> , 2016, 43, 9342-9351.	1.5	36
130	Chemical transformations in monoterpene-derived organic aerosol enhanced by inorganic composition. <i>Npj Climate and Atmospheric Science</i> , 2019, 2, .	2.6	36
131	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> , 2020, 53, 1415-1426.	7.6	36
132	Photolysis Controls Atmospheric Budgets of Biogenic Secondary Organic Aerosol. <i>Environmental Science &amp; Technology</i> , 2020, 54, 3861-3870.	4.6	36
133	Daytime Oxidized Reactive Nitrogen Partitioning in Western U.S. Wildfire Smoke Plumes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033484.	1.2	36
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