Joel A Thornton

List of Publications by Year
in descending order

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194	18,197	9756	17055
papers	citations	73 h-index	122 g-index

239	239	239	8300
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Transport and chemistry of isoprene and its oxidation products in deep convective clouds. Tellus, Series B: Chemical and Physical Meteorology, 2022, 73, 1979856.	0.8	5
2	Wildfire-driven changes in the abundance of gas-phase pollutants in the city of Boise, ID during summer 2018. Atmospheric Pollution Research, 2022, 13, 101269.	1.8	5
3	The CU Airborne Solar Occultation Flux Instrument: Performance Evaluation during BB-FLUX. ACS Earth and Space Chemistry, 2022, 6, 582-596.	1.2	7
4	Effects of oligomerization and decomposition on the nanoparticle growth: a model study. Atmospheric Chemistry and Physics, 2022, 22, 155-171.	1.9	4
5	Pathways to Highly Oxidized Products in the Î”3-Carene + OH System. Environmental Science & Technology, 2022, 56, 2213-2224.	4.6	8
6	Complexity in the Evolution, Composition, and Spectroscopy of Brown Carbon in Aircraft Measurements of Wildfire Plumes. Geophysical Research Letters, 2022, 49, .	1.5	10
7	Global simulations of monoterpene-derived peroxy radical fates and the distributions of highly oxygenated organic molecules (HOMs) and accretion products. Atmospheric Chemistry and Physics, 2022, 22, 5477-5494.	1.9	6
8	Thank You to Our 2021 Peer Reviewers. Geophysical Research Letters, 2022, 49, .	1.5	0
9	A Four Carbon Organonitrate as a Significant Product of Secondary Isoprene Chemistry. Geophysical Research Letters, 2022, 49, .	1.5	8
10	Emissions of Reactive Nitrogen From Western U.S. Wildfires During Summer 2018. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD032657.	1.2	41
11	Reaction Mechanisms Underlying Unfunctionalized Alkyl Nitrate Hydrolysis in Aqueous Aerosols. ACS Earth and Space Chemistry, 2021, 5, 210-225.	1.2	9
12	Molecular mechanism for rapid autoxidation in Î±-pinene ozonolysis. Nature Communications, 2021, 12, 878.	5.8	47
13	Daytime Oxidized Reactive Nitrogen Partitioning in Western U.S. Wildfire Smoke Plumes. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033484.	1.2	36
14	Wintertime Formaldehyde: Airborne Observations and Source Apportionment Over the Eastern United States. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033518.	1.2	9
15	Heterogeneous Nitrate Production Mechanisms in Intense Haze Events in the North China Plain. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034688.	1.2	25
16	Thank You to Our 2020 Peer Reviewers. Geophysical Research Letters, 2021, 48, e2021GL093126.	1.5	0
17	Chemical transport models often underestimate inorganic aerosol acidity in remote regions of the atmosphere. Communications Earth & Environment, 2021, 2, .	2.6	32
18	Emissions of Trace Organic Gases From Western U.S. Wildfires Based on WEâ€CAN Aircraft Measurements. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033838.	1.2	54

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19	Empirical Insights Into the Fate of Ammonia in Western U.S. Wildfire Smoke Plumes. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033730.	1.2	12
20	Variability and Time of Day Dependence of Ozone Photochemistry in Western Wildfire Plumes. Environmental Science & Technology, 2021, 55, 10280-10290.	4.6	31
21	Molecular composition and volatility of multi-generation products formed from isoprene oxidation by nitrate radical. Atmospheric Chemistry and Physics, 2021, 21, 10799-10824.	1.9	19
22	Global tropospheric halogen (Cl, Br, I) chemistry and its impact on oxidants. Atmospheric Chemistry and Physics, 2021, 21, 13973-13996.	1.9	57
23	Observations and Modeling of NO_x Photochemistry and Fate in Fresh Wildfire Plumes. ACS Earth and Space Chemistry, 2021, 5, 2652-2667.	1.2	17
24	Response of the Reaction Probability of N₂O₅ with Authentic Biomass-Burning Aerosol to High Relative Humidity. ACS Earth and Space Chemistry, 2021, 5, 2587-2598.	1.2	5
25	Rapid cloud removal of dimethyl sulfide oxidation products limits SO ₂ and cloud condensation nuclei production in the marine atmosphere. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	28
26	Nighttime and daytime dark oxidation chemistry in wildfire plumes: an observation and model analysis of FIREX-AQ aircraft data. Atmospheric Chemistry and Physics, 2021, 21, 16293-16317.	1.9	34
27	Novel Analysis to Quantify Plume Crosswind Heterogeneity Applied to Biomass Burning Smoke. Environmental Science & Technology, 2021, 55, 15646-15657.	4.6	11
28	Spatially Resolved Photochemistry Impacts Emissions Estimates in Fresh Wildfire Plumes. Geophysical Research Letters, 2021, 48, e2021GL095443.	1.5	7
29	Heterogeneous Nucleation Drives Particle Size Segregation in Sequential Ozone and Nitrate Radical Oxidation of Catechol. Environmental Science & Technology, 2021, 55, 15637-15645.	4.6	13
30	Evaluating Organic Aerosol Sources and Evolution with a Combined Molecular Composition and Volatility Framework Using the Filter Inlet for Gases and Aerosols (FIGAERO). Accounts of Chemical Research, 2020, 53, 1415-1426.	7.6	36
31	Thank You to Our 2019 Peer Reviewers. Geophysical Research Letters, 2020, 47, e2020GL088048.	1.5	0
32	Quantification of organic aerosol and brown carbon evolution in fresh wildfire plumes. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 29469-29477.	3.3	100
33	A Novel Framework to Study Trace Gas Transport in Deep Convective Clouds. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001931.	1.3	4
34	A Near-Explicit Mechanistic Evaluation of Isoprene Photochemical Secondary Organic Aerosol Formation and Evolution: Simulations of Multiple Chamber Experiments with and without Added NO_x. ACS Earth and Space Chemistry, 2020, 4, 1161-1181.	1.2	16
35	Photolysis Controls Atmospheric Budgets of Biogenic Secondary Organic Aerosol. Environmental Science & Technology, 2020, 54, 3861-3870.	4.6	36
36	Resolving Ambient Organic Aerosol Formation and Aging Pathways with Simultaneous Molecular Composition and Volatility Observations. ACS Earth and Space Chemistry, 2020, 4, 391-402.	1.2	19

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37	A robust clustering algorithm for analysis of composition-dependent organic aerosol thermal desorption measurements. Atmospheric Chemistry and Physics, 2020, 20, 2489-2512.	1.9	9
38	HONO Emissions from Western U.S. Wildfires Provide Dominant Radical Source in Fresh Wildfire Smoke. Environmental Science & Technology, 2020, 54, 5954-5963.	4.6	51
39	Significant Decrease in Wet Deposition of Anthropogenic Chloride Across the Eastern United States, 1998â€“2018. Geophysical Research Letters, 2020, 47, e2020GL090195.	1.5	9
40	Long-term observational constraints of organic aerosol dependence on inorganic species in the southeast US. Atmospheric Chemistry and Physics, 2020, 20, 13091-13107.	1.9	14
41	Predicting secondary organic aerosol phase state and viscosity and its effect on multiphase chemistry in a regional-scale air quality model. Atmospheric Chemistry and Physics, 2020, 20, 8201-8225.	1.9	42
42	Overview of the HI-SCALE Field Campaign: A New Perspective on Shallow Convective Clouds. Bulletin of the American Meteorological Society, 2019, 100, 821-840.	1.7	44
43	Effects of gasâ€“wall interactions on measurements of semivolatile compounds and small polar molecules. Atmospheric Measurement Techniques, 2019, 12, 3137-3149.	1.2	45
44	Observational Constraints on the Formation of Cl₂ From the Reactive Uptake of ClNO₂ on Aerosols in the Polluted Marine Boundary Layer. Journal of Geophysical Research D: Atmospheres, 2019, 124, 8851-8869.	1.2	19
45	Comparison of Airborne Reactive Nitrogen Measurements During WINTER. Journal of Geophysical Research D: Atmospheres, 2019, 124, 10483-10502.	1.2	7
46	An extractive electrospray ionization time-of-flight mass spectrometer (EESI-TOF) for online measurement of atmospheric aerosol particles. Atmospheric Measurement Techniques, 2019, 12, 4867-4886.	1.2	91
47	Thank You to Our 2018 Peer Reviewers. Geophysical Research Letters, 2019, 46, 12608-12636.	1.5	0
48	Thermalized Epoxide Formation in the Atmosphere. Journal of Physical Chemistry A, 2019, 123, 10620-10630.	1.1	11
49	Chamber-based insights into the factors controlling epoxydiol (IEPOX) secondary organic aerosol (SOA) yield, composition, and volatility. Atmospheric Chemistry and Physics, 2019, 19, 11253-11265.	1.9	38
50	Biomass Burning Markers and Residential Burning in the WINTER Aircraft Campaign. Journal of Geophysical Research D: Atmospheres, 2019, 124, 1846-1861.	1.2	30
51	On the contribution of nocturnal heterogeneous reactive nitrogen chemistry to particulate matter formation during wintertime pollution events in Northern Utah. Atmospheric Chemistry and Physics, 2019, 19, 9287-9308.	1.9	33
52	Molecular identification of organic vapors driving atmospheric nanoparticle growth. Nature Communications, 2019, 10, 4442.	5.8	89
53	Secondary organic aerosol reduced by mixture of atmospheric vapours. Nature, 2019, 565, 587-593.	13.7	222
54	Rates of Wintertime Atmospheric SO₂ Oxidation based on Aircraft Observations during Clearâ€Sky Conditions over the Eastern United States. Journal of Geophysical Research D: Atmospheres, 2019, 124, 6630-6649.	1.2	12

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55	Increasing Isoprene Epoxydiol-to-Inorganic Sulfate Aerosol Ratio Results in Extensive Conversion of Inorganic Sulfate to Organosulfur Forms: Implications for Aerosol Physicochemical Properties. Environmental Science & Technology, 2019, 53, 8682-8694.	4.6	111
56	Gas to Particle Partitioning of Organic Acids in the Boreal Atmosphere. ACS Earth and Space Chemistry, 2019, 3, 1279-1287.	1.2	13
57	The role of chlorine in global tropospheric chemistry. Atmospheric Chemistry and Physics, 2019, 19, 3981-4003.	1.9	160
58	Anthropogenic enhancements to production of highly oxygenated molecules from autoxidation. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6641-6646.	3.3	78
59	Urban pollution greatly enhances formation of natural aerosols over the Amazon rainforest. Nature Communications, 2019, 10, 1046.	5.8	131
60	An Odd Oxygen Framework for Wintertime Ammonium Nitrate Aerosol Pollution in Urban Areas: NO_x and VOC Control as Mitigation Strategies. Geophysical Research Letters, 2019, 46, 4971-4979.	1.5	80
61	Highly Oxygenated Organic Molecules (HOM) from Gas-Phase Autoxidation Involving Peroxy Radicals: A Key Contributor to Atmospheric Aerosol. Chemical Reviews, 2019, 119, 3472-3509.	23.0	460
62	Widespread Pollution From Secondary Sources of Organic Aerosols During Winter in the Northeastern United States. Geophysical Research Letters, 2019, 46, 2974-2983.	1.5	25
63	Performance of a new coaxial ionâ€“molecule reaction region for low-pressure chemical ionization mass spectrometry with reduced instrument wall interactions. Atmospheric Measurement Techniques, 2019, 12, 5829-5844.	1.2	20
64	N₂O₅reactive uptake kinetics and chlorine activation on authentic biomass-burning aerosol. Environmental Sciences: Processes and Impacts, 2019, 21, 1684-1698.	1.7	14
65	Anthropogenic Control Over Wintertime Oxidation of Atmospheric Pollutants. Geophysical Research Letters, 2019, 46, 14826-14835.	1.5	28
66	Chemical transformations in monoterpene-derived organic aerosol enhanced by inorganic composition. Npj Climate and Atmospheric Science, 2019, 2, .	2.6	36
67	Heterogeneous N₂O₅ Uptake During Winter: Aircraft Measurements During the 2015 WINTER Campaign and Critical Evaluation of Current Parameterizations. Journal of Geophysical Research D: Atmospheres, 2018, 123, 4345-4372.	1.2	103
68	Monoterpenes are the largest source of summertime organic aerosol in the southeastern United States. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2038-2043.	3.3	186
69	Wintertime Overnight NO_x Removal in a Southeastern United States Coalâ€fired Power Plant Plume: A Model for Understanding Winter NO_x Processing and its Implications. Journal of Geophysical Research D: Atmospheres, 2018, 123, 1412-1425.	1.2	14
70	Effect of the Aerosol-Phase State on Secondary Organic Aerosol Formation from the Reactive Uptake of Isoprene-Derived Epoxydiols (IEPOX). Environmental Science and Technology Letters, 2018, 5, 167-174.	3.9	131
71	Decadal changes in summertime reactive oxidized nitrogen and surface ozone over the Southeast United States. Atmospheric Chemistry and Physics, 2018, 18, 2341-2361.	1.9	30
72	Growth Kinetics and Size Distribution Dynamics of Viscous Secondary Organic Aerosol. Environmental Science & Technology, 2018, 52, 1191-1199.	4.6	85

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73	Production of N₂O₅ and ClNO₂ through Nocturnal Processing of Biomass-Burning Aerosol. Environmental Science & Technology, 2018, 52, 550-559.	4.6	42
74	A model framework to retrieve thermodynamic and kinetic properties of organic aerosol from composition-resolved thermal desorption measurements. Atmospheric Chemistry and Physics, 2018, 18, 14757-14785.	1.9	42
75	Airborne and ground-based observations of ammonium-nitrate-dominated aerosols in a shallow boundary layer during intense winter pollution episodes in northern Utah. Atmospheric Chemistry and Physics, 2018, 18, 17259-17276.	1.9	33
76	Estimating the saturation vapor pressures of isoprene oxidation products C₅H₁₂O₆ and C₅H₁₀O₆ using COSMO-RS. Atmospheric Chemistry and Physics, 2018, 18, 17589-17600.	1.9	19
77	Quantitative constraints on autoxidation and dimer formation from direct probing of monoterpene-derived peroxy radical chemistry. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12142-12147.	3.3	81
78	ClNO₂ Yields From Aircraft Measurements During the 2015 WINTER Campaign and Critical Evaluation of the Current Parameterization. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,994.	1.2	31
79	Locally Enhanced Aerosols Over a Shipping Lane Produce Convective Invigoration but Weak Overall Indirect Effects in Cloudâ€Resolving Simulations. Geophysical Research Letters, 2018, 45, 9305-9313.	1.5	12
80	Nitrogen Oxides Emissions, Chemistry, Deposition, and Export Over the Northeast United States During the WINTER Aircraft Campaign. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,368.	1.2	49
81	Wintertime Gasâ€Particle Partitioning and Speciation of Inorganic Chlorine in the Lower Troposphere Over the Northeast United States and Coastal Ocean. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,897.	1.2	21
82	Airborne Observations of Reactive Inorganic Chlorine and Bromine Species in the Exhaust of Coalâ€Fired Power Plants. Journal of Geophysical Research D: Atmospheres, 2018, 123, 11225-11237.	1.2	33
83	Semi-volatile and highly oxygenated gaseous and particulate organic compounds observed above a boreal forest canopy. Atmospheric Chemistry and Physics, 2018, 18, 11547-11562.	1.9	39
84	Isothermal Evaporation of Î±-Pinene Ozonolysis SOA: Volatility, Phase State, and Oligomeric Composition. ACS Earth and Space Chemistry, 2018, 2, 1058-1067.	1.2	49
85	Appreciation of 2017 GRL Peer Reviewers. Geophysical Research Letters, 2018, 45, 4494-4528.	1.5	0
86	Topâ€Down Estimates of NO_x and CO Emissions From Washington, D.C.â€Baltimore During the WINTER Campaign. Journal of Geophysical Research D: Atmospheres, 2018, 123, 7705-7724.	1.2	35
87	Chemical feedbacks weaken the wintertime response of particulate sulfate and nitrate to emissions reductions over the eastern United States. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8110-8115.	3.3	118
88	Flight Deployment of a Highâ€Resolution Timeâ€ofâ€Flight Chemical Ionization Mass Spectrometer: Observations of Reactive Halogen and Nitrogen Oxide Species. Journal of Geophysical Research D: Atmospheres, 2018, 123, 7670-7686.	1.2	39
89	Sources and Secondary Production of Organic Aerosols in the Northeastern United States during WINTER. Journal of Geophysical Research D: Atmospheres, 2018, 123, 7771-7796.	1.2	71
90	NO_x Lifetime and NO_y Partitioning During WINTER. Journal of Geophysical Research D: Atmospheres, 2018, 123, 9813-9827.	1.2	52

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91	The Essential Role for Laboratory Studies in Atmospheric Chemistry. Environmental Science & Technology, 2017, 51, 2519-2528.	4.6	75
92	Field intercomparison of the gas/particle partitioning of oxygenated organics during the Southern Oxidant and Aerosol Study (SOAS) in 2013. Aerosol Science and Technology, 2017, 51, 30-56.	1.5	39
93	Ambient observations of dimers from terpene oxidation in the gas phase: Implications for new particle formation and growth. Geophysical Research Letters, 2017, 44, 2958-2966.	1.5	71
94	Isomerization of Second-Generation Isoprene Peroxy Radicals: Epoxide Formation and Implications for Secondary Organic Aerosol Yields. Environmental Science & Technology, 2017, 51, 4978-4987.	4.6	53
95	Formation of Low-Volatility Organic Compounds in the Atmosphere: Recent Advancements and Insights. Journal of Physical Chemistry Letters, 2017, 8, 1503-1511.	2.1	78
96	Multiphase reactivity of gaseous hydroperoxide oligomers produced from isoprene ozonolysis in the presence of acidified aerosols. Atmospheric Environment, 2017, 152, 314-322.	1.9	80
97	Lightning enhancement over major oceanic shipping lanes. Geophysical Research Letters, 2017, 44, 9102-9111.	1.5	113
98	Molecular composition and volatility of isoprene photochemicalÂoxidationÂsecondaryÂorganic aerosolÂunderÂlow-ÂandÂhigh-NO_{<i>x</i>}ÂconditionsÂ. Atmospheric Chemistry and Physics, 2017, 17, 159-174.	1.9	70
99	Nitrate radicals and biogenic volatile organic compounds: oxidation, mechanisms, and organic aerosol. Atmospheric Chemistry and Physics, 2017, 17, 2103-2162.	1.9	307
100	Comprehensive characterization of atmospheric organic carbon at a forested site. Nature Geoscience, 2017, 10, 748-753.	5.4	66
101	An electrospray chemical ionization source for real-time measurement of atmospheric organic and inorganic vapors. Atmospheric Measurement Techniques, 2017, 10, 3609-3625.	1.2	19
102	Recent advances in understanding secondary organic aerosol: Implications for global climate forcing. Reviews of Geophysics, 2017, 55, 509-559.	9.0	548
103	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. Atmospheric Measurement Techniques, 2016, 9, 1505-1512.	1.2	132
104	Instrumentation and measurement strategy for the NOAA SENEX aircraft campaign as part of the Southeast Atmosphere Study 2013. Atmospheric Measurement Techniques, 2016, 9, 3063-3093.	1.2	58
105	BAECC: A Field Campaign to Elucidate the Impact of Biogenic Aerosols on Clouds and Climate. Bulletin of the American Meteorological Society, 2016, 97, 1909-1928.	1.7	71
106	Ozone production chemistry in the presence of urban plumes. Faraday Discussions, 2016, 189, 169-189.	1.6	56
107	Fine particle pH and the partitioning of nitric acid during winter in the northeastern United States. Journal of Geophysical Research D: Atmospheres, 2016, 121, 10,355.	1.2	176
108	Chemical Characterization of Secondary Organic Aerosol from Oxidation of Isoprene Hydroxyhydroperoxides. Environmental Science & Technology, 2016, 50, 9889-9899.	4.6	105

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109	Efficient Isoprene Secondary Organic Aerosol Formation from a Non-IEPOX Pathway. Environmental Science & Technology, 2016, 50, 9872-9880.	4.6	100
110	Enhanced formation of isopreneâ€derived organic aerosol in sulfurâ€rich power plant plumes during Southeast Nexus. Journal of Geophysical Research D: Atmospheres, 2016, 121, 11,137.	1.2	50
111	Reactive nitrogen partitioning and its relationship to winter ozone events in Utah. Atmospheric Chemistry and Physics, 2016, 16, 573-583.	1.9	24
112	Constraining condensed-phase formation kinetics of secondary organic aerosol components from isoprene epoxydiols. Atmospheric Chemistry and Physics, 2016, 16, 1245-1254.	1.9	46
113	Identifying precursors and aqueous organic aerosol formation pathways during the SOAS campaign. Atmospheric Chemistry and Physics, 2016, 16, 14409-14420.	1.9	33
114	Formaldehyde production from isoprene oxidation acrossÂNO_{<i>x</i>}Âregimes. Atmospheric Chemistry and Physics, 2016, 16, 2597-2610.	1.9	124
115	High upward fluxes of formic acid from a boreal forest canopy. Geophysical Research Letters, 2016, 43, 9342-9351.	1.5	36
116	Online molecular characterization of fine particulate matter in Port Angeles, WA: Evidence for a major impact from residential wood smoke. Atmospheric Environment, 2016, 138, 99-107.	1.9	45
117	Molecular Composition and Volatility of Organic Aerosol in the Southeastern U.S.: Implications for IEPOX Derived SOA. Environmental Science & Technology, 2016, 50, 2200-2209.	4.6	141
118	Modeling the Detection of Organic and Inorganic Compounds Using Iodide-Based Chemical Ionization. Journal of Physical Chemistry A, 2016, 120, 576-587.	1.1	93
119	Reacto-Diffusive Length of N₂O₅ in Aqueous Sulfate- and Chloride-Containing Aerosol Particles. Journal of Physical Chemistry A, 2016, 120, 1039-1045.	1.1	40
120	Highly functionalized organic nitrates in the southeast United States: Contribution to secondary organic aerosol and reactive nitrogen budgets. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1516-1521.	3.3	269
121	A large and ubiquitous source of atmospheric formic acid. Atmospheric Chemistry and Physics, 2015, 15, 6283-6304.	1.9	197
122	Organic nitrate aerosol formation via NO₃ + biogenic volatile organic compounds in the southeastern United States. Atmospheric Chemistry and Physics, 2015, 15, 13377-13392.	1.9	124
123	Phase partitioning and volatility of secondary organic aerosol components formed from Î±-pinene ozonolysis and OH oxidation: the importance of accretion products and other low volatility compounds. Atmospheric Chemistry and Physics, 2015, 15, 7765-7776.	1.9	126
124	Tropospheric Halogen Chemistry: Sources, Cycling, and Impacts. Chemical Reviews, 2015, 115, 4035-4062.	23.0	344
125	Computational Study of Hydrogen Shifts and Ring-Opening Mechanisms in Î±-Pinene Ozonolysis Products. Journal of Physical Chemistry A, 2015, 119, 11366-11375.	1.1	89
126	Effects of Chemical Complexity on the Autoxidation Mechanisms of Endocyclic Alkene Ozonolysis Products: From Methylcyclohexenes toward Understanding Î±-Pinene. Journal of Physical Chemistry A, 2015, 119, 4633-4650.	1.1	101

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127	Heterogeneous Reactions of Isoprene-Derived Epoxides: Reaction Probabilities and Molar Secondary Organic Aerosol Yield Estimates. Environmental Science and Technology Letters, 2015, 2, 38-42.	3.9	89
128	Meteorology, Air Quality, and Health in London: The ClearfLo Project. Bulletin of the American Meteorological Society, 2015, 96, 779-804.	1.7	105
129	A novel method for online analysis of gas and particle composition: description and evaluation of a Filter Inlet for Gases and AEROsols (FIGAERO). Atmospheric Measurement Techniques, 2014, 7, 983-1001.	1.2	345
130	An Iodide-Adduct High-Resolution Time-of-Flight Chemical-Ionization Mass Spectrometer: Application to Atmospheric Inorganic and Organic Compounds. Environmental Science & Technology, 2014, 48, 6309-6317.	4.6	406
131	Reactive Uptake of an Isoprene-Derived Epoxydiol to Submicron Aerosol Particles. Environmental Science & Technology, 2014, 48, 11178-11186.	4.6	208
132	The Formation of Highly Oxidized Multifunctional Products in the Ozonolysis of Cyclohexene. Journal of the American Chemical Society, 2014, 136, 15596-15606.	6.6	236
133	A large source of low-volatility secondary organic aerosol. Nature, 2014, 506, 476-479.	13.7	1,448
134	The primary and recycling sources of OH during the NACHTTâ€2011 campaign: HONO as an important OH primary source in the wintertime. Journal of Geophysical Research D: Atmospheres, 2014, 119, 6886-6896.	1.2	66
135	Reactivity of stabilized Criegee intermediates (sCIs) from isoprene and monoterpene ozonolysis toward SO₂ and organic acids. Atmospheric Chemistry and Physics, 2014, 14, 12143-12153.	1.9	94
136	On the temperature dependence of organic reactivity, nitrogen oxides, ozone production, and the impact of emission controls in San Joaquin Valley, California. Atmospheric Chemistry and Physics, 2014, 14, 3373-3395.	1.9	92
137	Reactive uptake of N₂O₅ to internally mixed inorganic and organic particles: the role of organic carbon oxidation state and inferred organic phase separations. Atmospheric Chemistry and Physics, 2014, 14, 5693-5707.	1.9	84
138	Semicontinuous measurements of gasâ€"particle partitioning of organic acids in a ponderosa pine forest using a MOVI-HRToF-CIMS. Atmospheric Chemistry and Physics, 2014, 14, 1527-1546.	1.9	89
139	An MCM modeling study of nitryl chloride (ClNO₂) impacts on oxidation, ozone production and nitrogen oxide partitioning in polluted continental outflow. Atmospheric Chemistry and Physics, 2014, 14, 3789-3800.	1.9	87
140	Observational Insights into Aerosol Formation from Isoprene. Environmental Science & Technology, 2013, 47, 11403-11413.	4.6	113
141	N₂O₅ uptake coefficients and nocturnal NO₂ removal rates determined from ambient wintertime measurements. Journal of Geophysical Research D: Atmospheres, 2013, 118, 9331-9350.	1.2	87
142	Contribution of Nitrated Phenols to Wood Burning Brown Carbon Light Absorption in Detling, United Kingdom during Winter Time. Environmental Science & Technology, 2013, 47, 6316-6324.	4.6	304
143	Understanding the role of the ground surface in HONO vertical structure: High resolution vertical profiles during NACHTTâ€11. Journal of Geophysical Research D: Atmospheres, 2013, 118, 10,155.	1.2	111
144	Probing aerosol formation by comprehensive measurements of gas phase oxidation products. , 2013, , .		0

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145	Ozone photochemistry in an oil and natural gas extraction region during winter: simulations of a snow-free season in the Uintah Basin, Utah. Atmospheric Chemistry and Physics, 2013, 13, 8955-8971.	1.9	100
146	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. Journal of Geophysical Research D: Atmospheres, 2013, 118, 8067-8085.	1.2	68
147	Chlorine activation within urban or power plant plumes: Vertically resolved ClNO₂ and Cl₂ measurements from a tall tower in a polluted continental setting. Journal of Geophysical Research D: Atmospheres, 2013, 118, 8702-8715.	1.2	94
148	Phase partitioning of soluble trace gases with sizeâ€resolved aerosols in nearâ€surface continental air over northern Colorado, USA, during winter. Journal of Geophysical Research D: Atmospheres, 2013, 118, 9414-9427.	1.2	56
149	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. Aerosol Science and Technology, 2012, 46, 1313-1327.	1.5	99
150	Analysis of secondary organic aerosol formation and aging using positive matrix factorization of high-resolution aerosol mass spectra: application to the dodecane low-NO_x system. Atmospheric Chemistry and Physics, 2012, 12, 11795-11817.	1.9	42
151	Direct N₂O₅ reactivity measurements at a polluted coastal site. Atmospheric Chemistry and Physics, 2012, 12, 2959-2968.	1.9	64
152	Temperature dependent halogen activation by N₂O₅ reactions on halide-doped ice surfaces. Atmospheric Chemistry and Physics, 2012, 12, 5237-5247.	1.9	38
153	Insights into hydroxyl measurements and atmospheric oxidation in a California forest. Atmospheric Chemistry and Physics, 2012, 12, 8009-8020.	1.9	211
154	Observations of atmosphere-biosphere exchange of total and speciated peroxynitrates: nitrogen fluxes and biogenic sources of peroxynitrates. Atmospheric Chemistry and Physics, 2012, 12, 9763-9773.	1.9	16
155	Quantifying trace gas uptake to tropospheric aerosol: recent advances and remaining challenges. Chemical Society Reviews, 2012, 41, 6555.	18.7	201
156	Nitryl Chloride and Molecular Chlorine in the Coastal Marine Boundary Layer. Environmental Science & Technology, 2012, 46, 10463-10470.	4.6	177
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