

# Thomas B Ryerson

## List of Publications by Year in descending order

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216  
papers

17,495  
citations

9775

73  
h-index

22147

113  
g-index

273  
all docs

273  
docs citations

273  
times ranked

10526  
citing authors

#	ARTICLE	IF	CITATIONS
1	Volatile chemical products emerging as largest petrochemical source of urban organic emissions. <i>Science</i> , 2018, 359, 760-764.	6.0	716
2	Review of flow rate estimates of the <i>Deepwater Horizon</i> oil spill. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20260-20267.	3.3	458
3	Measurement of the mixing state, mass, and optical size of individual black carbon particles in urban and biomass burning emissions. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	388
4	Hydrocarbon emissions characterization in the Colorado Front Range: A pilot study. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	359
5	Variability in Nocturnal Nitrogen Oxide Processing and Its Role in Regional Air Quality. <i>Science</i> , 2006, 311, 67-70.	6.0	345
6	Biomass burning in Siberia and Kazakhstan as an important source for haze over the Alaskan Arctic in April 2008. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	289
7	Effect of petrochemical industrial emissions of reactive alkenes and NO <sub>x</sub> on tropospheric ozone formation in Houston, Texas. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	263
8	Characteristics, sources, and transport of aerosols measured in spring 2008 during the aerosol, radiation, and cloud processes affecting Arctic Climate (ARCPAC) Project. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 2423-2453.	1.9	259
9	Observations of Ozone Formation in Power Plant Plumes and Implications for Ozone Control Strategies. <i>Science</i> , 2001, 292, 719-723.	6.0	258
10	Chemical data quantify <i>Deepwater Horizon</i> hydrocarbon flow rate and environmental distribution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20246-20253.	3.3	258
11	An efficient photolysis system for fast-response NO <sub>2</sub> measurements. <i>Journal of Geophysical Research</i> , 2000, 105, 26447-26461.	3.3	239
12	Organic aerosol formation in urban and industrial plumes near Houston and Dallas, Texas. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	230
13	Effects of changing power plant NO <sub>x</sub> emissions on ozone in the eastern United States: Proof of concept. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	226
14	The 2010 California Research at the Nexus of Air Quality and Climate Change (CalNex) field study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 5830-5866.	1.2	199
15	A large and ubiquitous source of atmospheric formic acid. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 6283-6304.	1.9	197
16	Emissions lifetimes and ozone formation in power plant plumes. <i>Journal of Geophysical Research</i> , 1998, 103, 22569-22583.	3.3	192
17	A Bad Air Day in Houston. <i>Bulletin of the American Meteorological Society</i> , 2005, 86, 657-670.	1.7	191
18	Airborne measurements of western U.S. wildfire emissions: Comparison with prescribed burning and air quality implications. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 6108-6129.	1.2	184

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19	Multiyear trends in volatile organic compounds in Los Angeles, California: Five decades of decreasing emissions. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	183
20	Methane emissions from the 2015 Aliso Canyon blowout in Los Angeles, CA. <i>Science</i> , 2016, 351, 1317-1320.	6.0	183
21	Evaluation of space-based constraints on global nitrogen oxide emissions with regional aircraft measurements over and downwind of eastern North America. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	181
22	Organic nitrate chemistry and its implications for nitrogen budgets in an isoprene- and monoterpene-rich atmosphere: constraints from aircraft (SEAC&lt;sup&gt;4&lt;/sup&gt;RS) and ground-based (SOAS) observations in the Southeast US. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 5969-5991.	1.9	173
23	Quantifying sources of methane using light alkanes in the Los Angeles basin, California. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 4974-4990.	1.2	167
24	Study of Inlet Materials for Sampling Atmospheric Nitric Acid. <i>Environmental Science &amp; Technology</i> , 1999, 33, 1133-1136.	4.6	165
25	The Deep Convective Clouds and Chemistry (DC3) Field Campaign. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 1281-1309.	1.7	165
26	Quantifying atmospheric methane emissions from the Haynesville, Fayetteville, and northeastern Marcellus shale gas production regions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 2119-2139.	1.2	164
27	Overview of the Second Texas Air Quality Study (TexAQ5 II) and the Gulf of Mexico Atmospheric Composition and Climate Study (GoMACCS). <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	162
28	Organic Aerosol Formation Downwind from the Deepwater Horizon Oil Spill. <i>Science</i> , 2011, 331, 1295-1299.	6.0	162
29	Primary and secondary sources of formaldehyde in urban atmospheres: Houston Texas region. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 3273-3288.	1.9	153
30	Atmospheric chemistry and distribution of formaldehyde and several multioxygenated carbonyl compounds during the 1995 Nashville/Middle Tennessee Ozone Study. <i>Journal of Geophysical Research</i> , 1998, 103, 22449-22462.	3.3	146
31	Top-down estimate of surface flux in the Los Angeles Basin using a mesoscale inverse modeling technique: assessing anthropogenic emissions of CO, NO&lt;sub&gt;x&lt;/sub&gt; and CO&lt;sub&gt;2&lt;/sub&gt; and their impacts. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 3661-3677.	1.9	142
32	Nocturnal isoprene oxidation over the Northeast United States in summer and its impact on reactive nitrogen partitioning and secondary organic aerosol. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 3027-3042.	1.9	128
33	Signatures of terminal alkene oxidation in airborne formaldehyde measurements during TexAQ5 2000. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	126
34	Reactive uptake coefficients for N<sub>2</sub>O<sub>5</sub> determined from aircraft measurements during the Second Texas Air Quality Study: Comparison to current model parameterizations. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	124
35	Formaldehyde production from isoprene oxidation across&lt;sub&gt;regimes&lt;/sub&gt;. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 2597-2610.	1.9	124
36	Trace gas signatures of the airstreams within North Atlantic cyclones: Case studies from the North Atlantic Regional Experiment (NARE â€™97) aircraft intensive. <i>Journal of Geophysical Research</i> , 2001, 106, 5437-5456.	3.3	121

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37	Evaluation of ultraviolet light-emitting diodes for detection of atmospheric NO <sub>2</sub> by photolysis - chemiluminescence. <i>Journal of Atmospheric Chemistry</i> , 2010, 65, 111-125.	1.4	121
38	Global airborne sampling reveals a previously unobserved dimethyl sulfide oxidation mechanism in the marine atmosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 4505-4510.	3.3	118
39	A new interpretation of total column BrO during Arctic spring. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	116
40	Trends in ozone, its precursors, and related secondary oxidation products in Los Angeles, California: A synthesis of measurements from 1960 to 2010. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 5893-5911.	1.2	115
41	Regional ozone from biogenic hydrocarbons deduced from airborne measurements of PAN, PPN, and MPAN. <i>Geophysical Research Letters</i> , 1997, 24, 1099-1102.	1.5	114
42	Ozone production from the 2004 North American boreal fires. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	114
43	Evaluation of GOME satellite measurements of tropospheric NO <sub>2</sub> and HCHO using regional data from aircraft campaigns in the southeastern United States. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	113
44	Diode laser-based cavity ring-down instrument for NO <sub>2</sub> , NO, NO <sub>2</sub> , and O <sub>3</sub> from aircraft. <i>Atmospheric Measurement Techniques</i> , 2011, 4, 1227-1240.	1.2	113
45	Design and initial characterization of an inlet for gas-phase NO <sub>y</sub> measurements from aircraft. <i>Journal of Geophysical Research</i> , 1999, 104, 5483-5492.	3.3	110
46	Ammonia sources in the California South Coast Air Basin and their impact on ammonium nitrate formation. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	110
47	Particle growth in urban and industrial plumes in Texas. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	109
48	Atmospheric emissions from the Deepwater Horizon spill constrain air-water partitioning, hydrocarbon fate, and leak rate. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	107
49	Measurements of PAN, PPN, and MPAN made during the 1994 and 1995 Nashville Intensives of the Southern Oxidant Study: Implications for regional ozone production from biogenic hydrocarbons. <i>Journal of Geophysical Research</i> , 1998, 103, 22473-22490.	3.3	106
50	A chemical ionization mass spectrometry technique for airborne measurements of ammonia. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	106
51	Nitrogen oxides in the nocturnal boundary layer: Simultaneous in situ measurements of NO <sub>3</sub> , N <sub>2</sub> O <sub>5</sub> , NO <sub>2</sub> , NO, and O <sub>3</sub> . <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	105
52	Ozone variability and halogen oxidation within the Arctic and sub-Arctic springtime boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 10223-10236.	1.9	104
53	Bromine measurements in ozone depleted air over the Arctic Ocean. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 6503-6514.	1.9	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	The glyoxal budget and its contribution to organic aerosol for Los Angeles, California, during CalNex 2010. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	99
56	Quantifying atmospheric methane emissions from oil and natural gas production in the Bakken shale region of North Dakota. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 6101-6111.	1.2	99
57	Volatile organic compound emissions from the oil and natural gas industry in the Uintah Basin, Utah: oil and gas well pad emissions compared to ambient air composition. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 10977-10988.	1.9	98
58	Airborne and ground-based observations of a weekend effect in ozone, precursors, and oxidation products in the California South Coast Air Basin. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	97
59	Analysis of ozone and nitric acid in spring and summer Arctic pollution using aircraft, ground-based, satellite observations and MOZART-4 model: source attribution and partitioning. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 237-259.	1.9	96
60	Airborne measurements of organosulfates over the continental U.S.. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 2990-3005.	1.2	96
61	Fast-response airborne in situ measurements of HNO <sub>3</sub> during the Texas 2000 Air Quality Study. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 8-1.	3.3	94
62	Agricultural fires in the southeastern U.S. during SEAC <sup>4</sup> RS: Emissions of trace gases and particles and evolution of ozone, reactive nitrogen, and organic aerosol. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 7383-7414.	1.2	93
63	Airborne observations of ammonia and ammonium nitrate formation over Houston, Texas. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	91
64	Airborne cloud condensation nuclei measurements during the 2006 Texas Air Quality Study. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	91
65	Chlorine as a primary radical: evaluation of methods to understand its role in initiation of oxidative cycles. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 3427-3440.	1.9	90
66	Chemical composition of air masses transported from Asia to the U.S. West Coast during ITCT 2K2: Fossil fuel combustion versus biomass-burning signatures. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	89
67	Biogenic emission measurement and inventories determination of biogenic emissions in the eastern United States and Texas and comparison with biogenic emission inventories. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	89
68	Particle characteristics following cloud-modified transport from Asia to North America. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	86
69	Influence of oil and gas emissions on summertime ozone in the Colorado Northern Front Range. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 8712-8729.	1.2	86
70	Particle growth in the plumes of coal-fired power plants. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 9-1.	3.3	85
71	Variability in ammonium nitrate formation and nitric acid depletion with altitude and location over California. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	84
72	Reactive nitrogen transport and photochemistry in urban plumes over the North Atlantic Ocean. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	83

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73	Influence of lateral and top boundary conditions on regional air quality prediction: A multiscale study coupling regional and global chemical transport models. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	82
74	Fugitive emissions from the Bakken shale illustrate role of shale production in global ethane shift. <i>Geophysical Research Letters</i> , 2016, 43, 4617-4623.	1.5	81
75	Gas-phase chemical characteristics of Asian emission plumes observed during ITCT 2K2 over the eastern North Pacific Ocean. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	80
76	Air quality implications of the Deepwater Horizon oil spill. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20280-20285.	3.3	79
77	Emissions of nitrogen-containing organic compounds from the burning of herbaceous and arboraceous biomass: Fuel composition dependence and the variability of commonly used nitrile tracers. <i>Geophysical Research Letters</i> , 2016, 43, 9903-9912.	1.5	79
78	Constraints on Aerosol Nitrate Photolysis as a Potential Source of HONO and NO <sub>x</sub> . <i>Environmental Science &amp; Technology</i> , 2018, 52, 13738-13746.	4.6	79
79	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
80	Do emissions from ships have a significant impact on concentrations of nitrogen oxides in the marine boundary layer?. <i>Geophysical Research Letters</i> , 2000, 27, 2229-2232.	1.5	75
81	Nocturnal odd-oxygen budget and its implications for ozone loss in the lower troposphere. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	75
82	Vertical profiles in NO <sub>3</sub> and N <sub>2</sub> O <sub>5</sub> measured from an aircraft: Results from the NOAA P <sub>3</sub> and surface platforms during the New England Air Quality Study 2004. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	75
83	Evaluation of the airborne quantum cascade laser spectrometer (QCLS) measurements of the carbon and greenhouse gas suite "CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O, and CO" during the CalNex and HIPPO campaigns. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 1509-1526.	1.2	75
84	Methane, Black Carbon, and Ethane Emissions from Natural Gas Flares in the Bakken Shale, North Dakota. <i>Environmental Science &amp; Technology</i> , 2017, 51, 5317-5325.	4.6	74
85	Quantifying Methane and Ethane Emissions to the Atmosphere From Central and Western U.S. Oil and Natural Gas Production Regions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 7725-7740.	1.2	74
86	Top-down estimate of anthropogenic emission inventories and their interannual variability in Houston using a mesoscale inverse modeling technique. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	73
87	Trace gas composition of midlatitude cyclones over the western North Atlantic Ocean: A conceptual model. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 1-1.	3.3	72
88	Nucleation and growth of sulfate aerosol in coal-fired power plant plumes: sensitivity to background aerosol and meteorology. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 189-206.	1.9	72
89	Aircraft observations of daytime NO <sub>3</sub> and N <sub>2</sub> O <sub>5</sub> and their implications for tropospheric chemistry. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005, 176, 270-278.	2.0	70
90	An investigation of ammonia and inorganic particulate matter in California during the CalNex campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 1883-1902.	1.2	69

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91	Analysis of long-term observations of NO <sub>x</sub> and CO in megacities and application to constraining emissions inventories. <i>Geophysical Research Letters</i> , 2016, 43, 9920-9930.	1.5	69
92	Measurement of atmospheric NO <sub>2</sub> by pulsed cavity ring-down spectroscopy. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	68
93	Aircraft observations of enhancement and depletion of black carbon mass in the springtime Arctic. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 9667-9680.	1.9	68
94	Nighttime Chemical Transformation in Biomass Burning Plumes: A Box Model Analysis Initialized with Aircraft Observations. <i>Environmental Science &amp; Technology</i> , 2019, 53, 2529-2538.	4.6	68
95	Modeling Ozone in the Eastern U.S. using a Fuel-Based Mobile Source Emissions Inventory. <i>Environmental Science &amp; Technology</i> , 2018, 52, 7360-7370.	4.6	64
96	Measurement of peroxy-carboxylic nitric anhydrides (PANs) during the ITCT 2K2 aircraft intensive experiment. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	63
97	Budgets for nocturnal VOC oxidation by nitrate radicals aloft during the 2006 Texas Air Quality Study. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	63
98	Analysis of satellite-derived Arctic tropospheric BrO columns in conjunction with aircraft measurements during ARCTAS and ARCPAC. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1255-1285.	1.9	63
99	Convective transport of water vapor into the lower stratosphere observed during double-tropopause events. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 10,941-10,958.	1.2	63
100	On-road measurements of vehicle NO <sub>2</sub> /NO <sub>x</sub> emission ratios in Denver, Colorado, USA. <i>Atmospheric Environment</i> , 2017, 148, 182-189.	1.9	63
101	The Global Atmosphere Watch reactive gases measurement network. <i>Elementa</i> , 0, 3, .	1.1	63
102	Thunderstorms enhance tropospheric ozone by wrapping and shedding stratospheric air. <i>Geophysical Research Letters</i> , 2014, 41, 7785-7790.	1.5	62
103	Empirical correlations between black carbon aerosol and carbon monoxide in the lower and middle troposphere. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	60
104	A top-down analysis of emissions from selected Texas power plants during TexAQS 2000 and 2006. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	60
105	Sensitivity to grid resolution in the ability of a chemical transport model to simulate observed oxidant chemistry under high-isoprene conditions. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 4369-4378.	1.9	60
106	Secondary organic aerosols from anthropogenic volatile organic compounds contribute substantially to air pollution mortality. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 11201-11224.	1.9	60
107	Emissions of organic carbon and methane from petroleum and dairy operations in California's San Joaquin Valley. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 4955-4978.	1.9	59
108	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

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109	Mapping hydroxyl variability throughout the global remote troposphere via synthesis of airborne and satellite formaldehyde observations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11171-11180.	3.3	58
110	Airborne Measurements of Ethene from Industrial Sources Using Laser Photo-Acoustic Spectroscopy. <i>Environmental Science &amp; Technology</i> , 2009, 43, 2437-2442.	4.6	57
111	Mixing of anthropogenic pollution with stratospheric ozone: A case study from the North Atlantic wintertime troposphere. <i>Journal of Geophysical Research</i> , 2000, 105, 24363-24374.	3.3	56
112	Airborne flux measurements of methane and volatile organic compounds over the Haynesville and Marcellus shale gas production regions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 6271-6289.	1.2	56
113	Lightning NO <sub>x</sub> Emissions: Reconciling Measured and Modeled Estimates With Updated NO <sub>x</sub> Chemistry. <i>Geophysical Research Letters</i> , 2017, 44, 9479-9488.	1.5	56
114	Transition from high- to low-NO <sub>x</sub> control of night-time oxidation in the southeastern US. <i>Nature Geoscience</i> , 2017, 10, 490-495.	5.4	56
115	Reassessing the ratio of glyoxal to formaldehyde as an indicator of hydrocarbon precursor speciation. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7571-7583.	1.9	55
116	Evolution of aerosol properties impacting visibility and direct climate forcing in an ammonia-rich urban environment. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	54
117	An improved, automated whole air sampler and gas chromatography mass spectrometry analysis system for volatile organic compounds in the atmosphere. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 291-313.	1.2	54
118	Emissions of volatile organic compounds (VOCs) from concentrated animal feeding operations (CAFOs): chemical compositions and separation of sources. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 4945-4956.	1.9	53
119	Biogenic VOC oxidation and organic aerosol formation in an urban nocturnal boundary layer: aircraft vertical profiles in Houston, TX. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 11317-11337.	1.9	51
120	Modeling the weekly cycle of NO <sub>x</sub> and CO emissions and their impacts on O <sub>3</sub> in the Los Angeles-South Coast Air Basin during the CalNex 2010 field campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 1340-1360.	1.2	51
121	Large contribution of biomass burning emissions to ozone throughout the global remote troposphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	51
122	Airborne observations of methane emissions from rice cultivation in the Sacramento Valley of California. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	50
123	In situ vertical profiles of aerosol extinction, mass, and composition over the southeast United States during SENEX and SEAC&lt;sup&gt;4&lt;/sup>RS: observations of a modest aerosol enhancement aloft. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7085-7102.	1.9	50
124	Black Carbon Emissions from the Bakken Oil and Gas Development Region. <i>Environmental Science and Technology Letters</i> , 2015, 2, 281-285.	3.9	49
125	Sources of particulate matter in the northeastern United States in summer: 2. Evolution of chemical and microphysical properties. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	48
126	Observational constraints on glyoxal production from isoprene oxidation and its contribution to organic aerosol over the Southeast United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 9849-9861.	1.2	48



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127	Characterization of Ammonia, Methane, and Nitrous Oxide Emissions from Concentrated Animal Feeding Operations in Northeastern Colorado. <i>Environmental Science &amp; Technology</i> , 2016, 50, 10885-10893.	4.6	48
128	Secondary organic aerosol (SOA) yields from NO <sub>3</sub> radical + isoprene based on nighttime aircraft power plant plume transects. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 11663-11682.	1.9	47
129	Calibration and Evaluation of Nitric Acid and Ammonia Permeation Tubes by UV Optical Absorption. <i>Environmental Science &amp; Technology</i> , 2003, 37, 2975-2981.	4.6	46
130	Halocarbon Emissions from the United States and Mexico and Their Global Warming Potential. <i>Environmental Science &amp; Technology</i> , 2009, 43, 1055-1060.	4.6	46
131	HONO emission and production determined from airborne measurements over the Southeast U.S.. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 9237-9250.	1.2	46
132	Mass Spectral Analysis of Organic Aerosol Formed Downwind of the Deepwater Horizon Oil Spill: Field Studies and Laboratory Confirmations. <i>Environmental Science &amp; Technology</i> , 2012, 46, 8025-8034.	4.6	45
133	Ozone chemistry in western U.S. wildfire plumes. <i>Science Advances</i> , 2021, 7, eabl3648.	4.7	45
134	Characterization of NO <sub>x</sub> , SO <sub>2</sub> , ethene, and propene from industrial emission sources in Houston, Texas. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	44
135	A new inversion method to calculate emission inventories without a prior at mesoscale: Application to the anthropogenic CO <sub>2</sub> emission from Houston, Texas. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	44
136	Observations of VOC emissions and photochemical products over US oil- and gas-producing regions using high-resolution H <sub>3</sub> O <sup>+</sup> CIMS (PTR-ToF-MS). <i>Atmospheric Measurement Techniques</i> , 2017, 10, 2941-2968.	1.2	44
137	Results from an informal intercomparison of ammonia measurement techniques. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 28-1.	3.3	43
138	Comparisons of box model calculations and measurements of formaldehyde from the 1997 North Atlantic Regional Experiment. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 3-1.	3.3	42
139	Mixing between a stratospheric intrusion and a biomass burning plume. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 4229-4235.	1.9	42
140	Characteristics of tropospheric ozone depletion events in the Arctic spring: analysis of the ARCTAS, ARCPAC, and ARCIONS measurements and satellite BrO observations. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 9909-9922.	1.9	42
141	Increasing atmospheric burden of ethanol in the United States. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	41
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