

# Michael K L Trainer

## List of Publications by Year in descending order

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194  
papers

20,807  
citations

6606

79  
h-index

12585

132  
g-index

212  
all docs

212  
docs citations

212  
times ranked

10014  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ozone production in the rural troposphere and the implications for regional and global ozone distributions. <i>Journal of Geophysical Research</i> , 1987, 92, 4191-4207.	3.3	858
2	Emissions of volatile organic compounds from vegetation and the implications for atmospheric chemistry. <i>Global Biogeochemical Cycles</i> , 1992, 6, 389-430.	1.9	788
3	Volatile chemical products emerging as largest petrochemical source of urban organic emissions. <i>Science</i> , 2018, 359, 760-764.	6.0	716
4	Models and observations of the impact of natural hydrocarbons on rural ozone. <i>Nature</i> , 1987, 329, 705-707.	13.7	479
5	Methane emissions estimate from airborne measurements over a western United States natural gas field. <i>Geophysical Research Letters</i> , 2013, 40, 4393-4397.	1.5	414
6	On the nonlinearity of the tropospheric ozone production. <i>Journal of Geophysical Research</i> , 1988, 93, 15879-15888.	3.3	398
7	Increasing springtime ozone mixing ratios in the free troposphere over western North America. <i>Nature</i> , 2010, 463, 344-348.	13.7	397
8	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
9	Hydrocarbon emissions characterization in the Colorado Front Range: A pilot study. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	359
10	Variability in Nocturnal Nitrogen Oxide Processing and Its Role in Regional Air Quality. <i>Science</i> , 2006, 311, 67-70.	6.0	345
11	Correlation of ozone with NO <sub>y</sub> in photochemically aged air. <i>Journal of Geophysical Research</i> , 1993, 98, 2917-2925.	3.3	336
12	Export of North American Ozone Pollution to the North Atlantic Ocean. <i>Science</i> , 1993, 259, 1436-1439.	6.0	284
13	The Influence of Canadian Forest Fires on Pollutant Concentrations in the United States. <i>Science</i> , 2000, 288, 324-328.	6.0	266
14	High winter ozone pollution from carbonyl photolysis in an oil and gas basin. <i>Nature</i> , 2014, 514, 351-354.	13.7	265
15	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
16	Observations of Ozone Formation in Power Plant Plumes and Implications for Ozone Control Strategies. <i>Science</i> , 2001, 292, 719-723.	6.0	258
17	A new look at methane and nonmethane hydrocarbon emissions from oil and natural gas operations in the Colorado Denver-Julesburg Basin. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 6836-6852.	1.2	257
18	Determination of urban volatile organic compound emission ratios and comparison with an emissions database. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	254

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19	Relationships between ozone and carbon monoxide at surface sites in the North Atlantic region. Journal of Geophysical Research, 1998, 103, 13357-13376.	3.3	231
20	Impact of natural hydrocarbons on hydroxyl and peroxy radicals at a remote site. Journal of Geophysical Research, 1987, 92, 11879-11894.	3.3	227
21	Effects of changing power plant NOx emissions on ozone in the eastern United States: Proof of concept. Journal of Geophysical Research, 2006, 111, .	3.3	226
22	International Consortium for Atmospheric Research on Transport and Transformation (ICARTT): North America to Europe-Overview of the 2004 summer field study. Journal of Geophysical Research, 2006, 111, .	3.3	222
23	Satellite-observed U.S. power plant NOx emission reductions and their impact on air quality. Geophysical Research Letters, 2006, 33, .	1.5	219
24	Reduced emissions of $\text{CO}_2$ , $\text{NO}_x$ , and $\text{SO}_2$ from U.S. power plants owing to switch from coal to natural gas with combined cycle technology. Earth's Future, 2014, 2, 75-82.	2.4	219
25	The 2010 California Research at the Nexus of Air Quality and Climate Change (CalNex) field study. Journal of Geophysical Research D: Atmospheres, 2013, 118, 5830-5866.	1.2	199
26	A volatility basis set model for summertime secondary organic aerosols over the eastern United States in 2006. Journal of Geophysical Research, 2012, 117, .	3.3	195
27	Emissions lifetimes and ozone formation in power plant plumes. Journal of Geophysical Research, 1998, 103, 22569-22583.	3.3	192
28	A Bad Air Day in Houston. Bulletin of the American Meteorological Society, 2005, 86, 657-670.	1.7	191
29	Gasoline emissions dominate over diesel in formation of secondary organic aerosol mass. Geophysical Research Letters, 2012, 39, .	1.5	189
30	Multiyear trends in volatile organic compounds in Los Angeles, California: Five decades of decreasing emissions. Journal of Geophysical Research, 2012, 117, .	3.3	183
31	Emission sources and ocean uptake of acetonitrile ( $\text{CH}_3\text{CN}$ ) in the atmosphere. Journal of Geophysical Research, 2003, 108, .	3.3	179
32	Sources of particulate matter in the northeastern United States in summer: 1. Direct emissions and secondary formation of organic matter in urban plumes. Journal of Geophysical Research, 2008, 113, .	3.3	173
33	Isoprene and its oxidation products, methyl vinyl ketone and methacrolein, in the rural troposphere. Journal of Geophysical Research, 1993, 98, 1101-1111.	3.3	169
34	A case study of transpacific warm conveyor belt transport: Influence of merging airstreams on trace gas import to North America. Journal of Geophysical Research, 2004, 109, .	3.3	169
35	Quantifying sources of methane using light alkanes in the Los Angeles basin, California. Journal of Geophysical Research D: Atmospheres, 2013, 118, 4974-4990.	1.2	167
36	The total reactive oxidized nitrogen levels and the partitioning between the individual species at six rural sites in eastern North America. Journal of Geophysical Research, 1993, 98, 2927-2939.	3.3	165

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37	Volatile organic compounds composition of merged and aged forest fire plumes from Alaska and western Canada. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	165
38	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
39	Understanding high wintertime ozone pollution events in an oil- and natural gas-producing region of the western US. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 411-429.	1.9	154
40	NO <sub>2</sub> columns in the western United States observed from space and simulated by a regional chemistry model and their implications for NO <sub>x</sub> emissions. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	146
41	Top-down estimate of surface flux in the Los Angeles Basin using a mesoscale inverse modeling technique: assessing anthropogenic emissions of CO, NO <sub>x</sub> , and CO <sub>2</sub> and their impacts. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 3661-3677.	1.9	142
42	Daytime buildup and nighttime transport of urban ozone in the boundary layer during a stagnation episode. <i>Journal of Geophysical Research</i> , 1998, 103, 22519-22544.	3.3	141
43	A study of the photochemistry and ozone budget during the Mauna Loa Observatory Photochemistry Experiment. <i>Journal of Geophysical Research</i> , 1992, 97, 10463-10471.	3.3	133
44	Carbon monoxide concentrations and their relation to concentrations of total reactive oxidized nitrogen at two rural U.S. sites. <i>Journal of Geophysical Research</i> , 1991, 96, 9309-9320.	3.3	130
45	Review of observation-based analysis of the regional factors influencing ozone concentrations. <i>Atmospheric Environment</i> , 2000, 34, 2045-2061.	1.9	129
46	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
47	Observations and modeling of the reactive nitrogen photochemistry at a rural site. <i>Journal of Geophysical Research</i> , 1991, 96, 3045-3063.	3.3	127
48	Signatures of terminal alkene oxidation in airborne formaldehyde measurements during TexAQS 2000. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	126
49	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
50	Trace gas signatures of the airstreams within North Atlantic cyclones: Case studies from the North Atlantic Regional Experiment (NARE 97) aircraft intensive. <i>Journal of Geophysical Research</i> , 2001, 106, 5437-5456.	3.3	121
51	Evaluation of urban surface parameterizations in the WRF model using measurements during the Texas Air Quality Study 2006 field campaign. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 2127-2143.	1.9	119
52	Measurements of tropospheric OH concentrations: A comparison of field data with model predictions. <i>Journal of Atmospheric Chemistry</i> , 1987, 5, 185-216.	1.4	116
53	A regional model study of the ozone budget in the eastern United States. <i>Journal of Geophysical Research</i> , 1991, 96, 10809-10845.	3.3	116
54	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

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55	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
56	Large upper tropospheric ozone enhancements above midlatitude North America during summer: In situ evidence from the IONS and MOZAIC ozone measurement network. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	113
57	Systematic variations in the concentration of NO <sub>x</sub> (NO Plus NO <sub>2</sub> ) at Niwot Ridge, Colorado. <i>Journal of Geophysical Research</i> , 1990, 95, 1817-1836.	3.3	112
58	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
59	Inter-annual variability of summertime CO concentrations in the Northern Hemisphere explained by boreal forest fires in North America and Russia. <i>Geophysical Research Letters</i> , 2001, 28, 4575-4578.	1.5	109
60	Particle growth in urban and industrial plumes in Texas. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	109
61	Measurements of the NO <sub>x</sub> â€O <sub>3</sub> photostationary state at Niwot Ridge, Colorado. <i>Journal of Geophysical Research</i> , 1986, 91, 5361-5370.	3.3	106
62	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
63	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
64	An investigation of the chemistry of ship emission plumes during ITCT 2002. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	103
65	Volatile chemical product emissions enhance ozone and modulate urban chemistry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	103
66	Regional ozone and urban plumes in the southeastern United States: Birmingham, A case study. <i>Journal of Geophysical Research</i> , 1995, 100, 18823.	3.3	102
67	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
68	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
69	A study of ozone in the Colorado mountains. <i>Journal of Atmospheric Chemistry</i> , 1983, 1, 87-105.	1.4	98
70	An overview of the Stratospheric-Tropospheric Experiment: Radiation, Aerosols, and Ozone (STERAO)-Deep Convection experiment with results for the July 10, 1996 storm. <i>Journal of Geophysical Research</i> , 2000, 105, 10023-10045.	3.3	98
71	Intercontinental Transport and Chemical Transformation 2002 (ITCT 2K2) and Pacific Exploration of Asian Continental Emission (PEACE) experiments: An overview of the 2002 winter and spring intensives. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	97
72	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

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73	Summer and spring ozone profiles over the North Atlantic from ozonesonde measurements. Journal of Geophysical Research, 1996, 101, 29179-29200.	3.3	96
74	Effect of biomass burning on marine stratocumulus clouds off the California coast. Atmospheric Chemistry and Physics, 2009, 9, 8841-8856.	1.9	96
75	Isoprene and its oxidation products, methacrolein and methylvinyl ketone, at an urban forested site during the 1999 Southern Oxidants Study. Journal of Geophysical Research, 2001, 106, 8035-8046.	3.3	93
76	Responses of the tropospheric ozone and odd hydrogen radicals to column ozone change. Journal of Atmospheric Chemistry, 1988, 6, 221-233.	1.4	91
77	Internal consistency tests for evaluation of measurements of anthropogenic hydrocarbons in the troposphere. Journal of Geophysical Research, 1998, 103, 22339-22359.	3.3	91
78	Biogenic emission measurement and inventories determination of biogenic emissions in the eastern United States and Texas and comparison with biogenic emission inventories. Journal of Geophysical Research, 2010, 115, .	3.3	89
79	Decadal change in carbon monoxide to nitrogen oxide ratio in U.S. vehicular emissions. Journal of Geophysical Research, 2002, 107, ACH 5-1.	3.3	88
80	Influence of oil and gas emissions on summertime ozone in the Colorado Northern Front Range. Journal of Geophysical Research D: Atmospheres, 2016, 121, 8712-8729.	1.2	86
81	Particle growth in the plumes of coal-fired power plants. Journal of Geophysical Research, 2002, 107, AAC 9-1.	3.3	85
82	Evaluations of NO <sub>x</sub> and highly reactive VOC emission inventories in Texas and their implications for ozone plume simulations during the Texas Air Quality Study 2006. Atmospheric Chemistry and Physics, 2011, 11, 11361-11386.	1.9	85
83	Variability in ammonium nitrate formation and nitric acid depletion with altitude and location over California. Journal of Geophysical Research, 2003, 108, .	3.3	84
84	Biomass burning and anthropogenic sources of CO over New England in the summer 2004. Journal of Geophysical Research, 2006, 111, .	3.3	83
85	Reactive nitrogen transport and photochemistry in urban plumes over the North Atlantic Ocean. Journal of Geophysical Research, 2006, 111, .	3.3	83
86	Evidence for a recurring eastern North America upper tropospheric ozone maximum during summer. Journal of Geophysical Research, 2007, 112, .	3.3	81
87	Decrease of summer tropospheric ozone concentrations in Antarctica. Nature, 1991, 351, 726-729.	13.7	80
88	Intercomparison of tropospheric OH and ancillary trace gas measurements at Fritz Peak Observatory, Colorado. Journal of Geophysical Research, 1994, 99, 18605.	3.3	80
89	Aircraft measurements of NO <sub>x</sub> over the eastern Pacific and continental United States and implications for ozone production. Journal of Geophysical Research, 1990, 95, 10205-10233.	3.3	77
90	Nocturnal odd-oxygen budget and its implications for ozone loss in the lower troposphere. Geophysical Research Letters, 2006, 33, .	1.5	75

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91	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 <sup>3</sup> and surface platforms during the New England Air Quality Study 2004. Journal of Geophysical Research, 2007, 112, .	3.3	75
92	On the indirect determination of atmospheric OH radical concentrations from reactive hydrocarbon measurements. Journal of Geophysical Research, 1990, 95, 7493-7500.	3.3	74
93	Measurements of 3-methyl furan, methyl vinyl ketone, and methacrolein at a rural forested site in the southeastern United States. Journal of Geophysical Research, 1995, 100, 11393.	3.3	74
94	Measurements of hydrocarbons, oxygenated hydrocarbons, carbon monoxide, and nitrogen oxides in an urban basin in Colorado: Implications for emission inventories. Journal of Geophysical Research, 1995, 100, 22771.	3.3	74
95	Transport and processing of O <sub>3</sub> and O <sub>3</sub> precursors over the North Atlantic: An overview of the 1993 North Atlantic Regional Experiment (NARE) summer intensive. Journal of Geophysical Research, 1996, 101, 28877-28891.	3.3	74
96	Photochemical ozone production in the rural southeastern United States during the 1990 Rural Oxidants in the Southern Environment (ROSE) program. Journal of Geophysical Research, 1998, 103, 22491-22508.	3.3	74
97	Quantifying Methane and Ethane Emissions to the Atmosphere From Central and Western U.S. Oil and Natural Gas Production Regions. Journal of Geophysical Research D: Atmospheres, 2018, 123, 7725-7740.	1.2	74
98	Top-down estimate of anthropogenic emission inventories and their interannual variability in Houston using a mesoscale inverse modeling technique. Journal of Geophysical Research, 2011, 116, .	3.3	73
99	Trace gas composition of midlatitude cyclones over the western North Atlantic Ocean: A conceptual model. Journal of Geophysical Research, 2002, 107, ACH 1-1.	3.3	72
100	Airborne measurements of isoprene, CO, and anthropogenic hydrocarbons and their implications. Journal of Geophysical Research, 2000, 105, 9091-9105.	3.3	71
101	The Accuracy of Solar Irradiance Calculations Used in Mesoscale Numerical Weather Prediction. Monthly Weather Review, 2005, 133, 783-792.	0.5	71
102	Measurement of western U.S. baseline ozone from the surface to the tropopause and assessment of downwind impact regions. Journal of Geophysical Research, 2011, 116, .	3.3	71
103	An improved chemical amplifier technique for peroxy radical measurements. Journal of Geophysical Research, 1993, 98, 2897-2909.	3.3	69
104	Analysis of long-term observations of NO <sub>x</sub> and CO in megacities and application to constraining emissions inventories. Geophysical Research Letters, 2016, 43, 9920-9930.	1.5	69
105	Urban-rural contrasts in mixing height and cloudiness over Nashville in 1999. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	65
106	Modeling Ozone in the Eastern U.S. using a Fuel-Based Mobile Source Emissions Inventory. Environmental Science & Technology, 2018, 52, 7360-7370.	4.6	64
107	Meteorological mechanisms for transporting O <sub>3</sub> over the western North Atlantic Ocean: A case study for August 24-29, 1993. Journal of Geophysical Research, 1996, 101, 29213-29227.	3.3	63
108	Budgets for nocturnal VOC oxidation by nitrate radicals aloft during the 2006 Texas Air Quality Study. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	63

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109	Lagrangian transport model forecasts and a transport climatology for the Intercontinental Transport and Chemical Transformation 2002 (ITCT 2K2) measurement campaign. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	60
110	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
111	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
112	Dependence of daily peak O <sub>3</sub> concentrations near Houston, Texas on environmental factors: Wind speed, temperature, and boundary-layer depth. <i>Atmospheric Environment</i> , 2011, 45, 162-173.	1.9	60
113	Identifying Volatile Chemical Product Tracer Compounds in U.S. Cities. <i>Environmental Science &amp; Technology</i> , 2021, 55, 188-199.	4.6	60
114	Export of NO <sub>y</sub> from the North American boundary layer during 1996 and 1997 North Atlantic Regional Experiments. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 11-1-ACH 11-13.	3.3	58
115	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
116	Influence of low spatial resolution a priori data on tropospheric NO <sub>2</sub> and satellite retrievals. <i>Atmospheric Measurement Techniques</i> , 2011, 4, 1805-1820.	1.2	57
117	Observations Confirm that Volatile Chemical Products Are a Major Source of Petrochemical Emissions in U.S. Cities. <i>Environmental Science &amp; Technology</i> , 2021, 55, 4332-4343.	4.6	57
118	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
119	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
120	Mesoscale meteorology of the New England coast, Gulf of Maine, and Nova Scotia: Overview. <i>Journal of Geophysical Research</i> , 1996, 101, 28893-28901.	3.3	55
121	Episodic removal of NO <sub>y</sub> species from the marine boundary layer over the North Atlantic. <i>Journal of Geophysical Research</i> , 1996, 101, 28947-28960.	3.3	54
122	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
123	Photochemical aging of volatile organic compounds in the Los Angeles basin: Weekday-weekend effect. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 5018-5028.	1.2	54
124	Assessment of pollutant emission inventories by principal component analysis of ambient air measurements. <i>Geophysical Research Letters</i> , 1992, 19, 1009-1012.	1.5	51
125	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
126	Transport of NO <sub>x</sub> in East Asia identified by satellite and in situ measurements and Lagrangian particle dispersion model simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 2574-2596.	1.2	51



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127	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. Journal of Geophysical Research D: Atmospheres, 2016, 121, 1340-1360.	1.2	51
128	Trace gas composition of midlatitude cyclones over the western North Atlantic Ocean: A seasonal comparison of O <sub>3</sub> and CO. Journal of Geophysical Research, 2002, 107, ACH 2-1.	3.3	50
129	Airborne observations of methane emissions from rice cultivation in the Sacramento Valley of California. Journal of Geophysical Research, 2012, 117, .	3.3	50
130	Sources of particulate matter in the northeastern United States in summer: 2. Evolution of chemical and microphysical properties. Journal of Geophysical Research, 2008, 113, .	3.3	48
131	North Atlantic Regional Experiment 1993 Summer Intensive: Foreword. Journal of Geophysical Research, 1996, 101, 28869-28875.	3.3	47
132	HONO emission and production determined from airborne measurements over the Southeast U.S.. Journal of Geophysical Research D: Atmospheres, 2016, 121, 9237-9250.	1.2	46
133	Application of a sequential reaction model to PANs and aldehyde measurements in two urban areas. Geophysical Research Letters, 2001, 28, 4583-4586.	1.5	45
134	Measurements of free radicals in the atmosphere by matrix isolation and electron paramagnetic resonance. Pure and Applied Geophysics, 1978, 116, 530-536.	0.8	44
135	An overview of the airborne activities during the Southern Oxidants Study (SOS) 1995 Nashville/Middle Tennessee Ozone Study. Journal of Geophysical Research, 1998, 103, 22245-22259.	3.3	44
136	Characterization of NO <sub>x</sub> , SO <sub>2</sub> , ethene, and propene from industrial emission sources in Houston, Texas. Journal of Geophysical Research, 2010, 115, .	3.3	44
137	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. Journal of Geophysical Research, 2012, 117, .	3.3	44
138	Comparisons of box model calculations and measurements of formaldehyde from the 1997 North Atlantic Regional Experiment. Journal of Geophysical Research, 2002, 107, ACH 3-1.	3.3	42
139	Mixing between a stratospheric intrusion and a biomass burning plume. Atmospheric Chemistry and Physics, 2007, 7, 4229-4235.	1.9	42
140	High-resolution emissions of CO <sub>2</sub> from power generation in the USA. Journal of Geophysical Research, 2008, 113, .	3.3	42
141	Emissions and photochemistry of oxygenated VOCs in urban plumes in the Northeastern United States. Atmospheric Chemistry and Physics, 2011, 11, 7081-7096.	1.9	41
142	Factors influencing the concentration of gas phase hydrogen peroxide during the summer at Niwot Ridge, Colorado. Journal of Geophysical Research, 1995, 100, 22831.	3.3	40
143	Comparing MM5 radiative fluxes with observations gathered during the 1995 and 1999 Nashville southern oxidants studies. Journal of Geophysical Research, 2003, 108, .	3.3	40
144	Evaluation of ozone precursor source types using principal component analysis of ambient air measurements in rural Alabama. Journal of Geophysical Research, 1995, 100, 22853.	3.3	38

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145	Meteorological conditions during the 1995 Southern Oxidants Study Nashville/Middle Tennessee Field Intensive. <i>Journal of Geophysical Research</i> , 1998, 103, 22225-22243.	3.3	38
146	Observations of ozone transport from the free troposphere to the Los Angeles basin. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	38
147	Top-down estimate of methane emissions in California using a mesoscale inverse modeling technique: The South Coast Air Basin. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 6698-6711.	1.2	38
148	Fraction and composition of NO <sub>y</sub> transported in air masses lofted from the North American continental boundary layer. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	37
149	Relationship between photochemical ozone production and NO <sub>x</sub> oxidation in Houston, Texas. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	36
150	Background ozone and anthropogenic ozone enhancement at Niwot ridge, Colorado. <i>Journal of Atmospheric Chemistry</i> , 1986, 4, 63-80.	1.4	35
151	Trace gas and aerosol measurements using aircraft data from the North Atlantic Regional Experiment (NARE 1993). <i>Journal of Geophysical Research</i> , 1996, 101, 29013-29027.	3.3	34
152	Measurements of NO <sub>x</sub> over the eastern Pacific Ocean and southwestern United States during the spring 1984 NASA GTE aircraft program. <i>Journal of Geophysical Research</i> , 1989, 94, 5043-5067.	3.3	33
153	Radicals in the marine boundary layer during NEAQS 2004: a model study of day-time and night-time sources and sinks. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 3075-3093.	1.9	33
154	A study of organic nitrates formation in an urban plume using a Master Chemical Mechanism. <i>Atmospheric Environment</i> , 2008, 42, 5771-5786.	1.9	32
155	Weakening of the weekend ozone effect over California's South Coast Air Basin. <i>Geophysical Research Letters</i> , 2015, 42, 9457-9464.	1.5	32
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