

Michael K L Trainer

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

204
papers

17,419
citations

78
h-index

127
g-index

212
ext. papers

19,116
ext. citations

9.1
avg, IF

5.66
L-index

#	Paper	IF	Citations
204	Ozone production in the rural troposphere and the implications for regional and global ozone distributions. <i>Journal of Geophysical Research</i> , 1987 , 92, 4191		739
203	Emissions of volatile organic compounds from vegetation and the implications for atmospheric chemistry. <i>Global Biogeochemical Cycles</i> , 1992 , 6, 389-430	5.9	656
202	Models and observations of the impact of natural hydrocarbons on rural ozone. <i>Nature</i> , 1987 , 329, 705-707	7.4	449
201	Volatile chemical products emerging as largest petrochemical source of urban organic emissions. <i>Science</i> , 2018 , 359, 760-764	33.3	421
200	On the nonlinearity of the tropospheric ozone production. <i>Journal of Geophysical Research</i> , 1988 , 93, 15879		350
199	Methane emissions estimate from airborne measurements over a western United States natural gas field. <i>Geophysical Research Letters</i> , 2013 , 40, 4393-4397	4.9	345
198	Increasing springtime ozone mixing ratios in the free troposphere over western North America. <i>Nature</i> , 2010 , 463, 344-8	50.4	340
197	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,	4.9	334
196	Hydrocarbon emissions characterization in the Colorado Front Range: A pilot study. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		302
195	Variability in nocturnal nitrogen oxide processing and its role in regional air quality. <i>Science</i> , 2006 , 311, 67-70	33.3	297
194	Correlation of ozone with NO _y in photochemically aged air. <i>Journal of Geophysical Research</i> , 1993 , 98, 2917-2925		296
193	Export of north american ozone pollution to the north atlantic ocean. <i>Science</i> , 1993 , 259, 1436-9	33.3	261
192	The influence of canadian forest fires on pollutant concentrations in the united states. <i>Science</i> , 2000 , 288, 324-8	33.3	230
191	Effect of petrochemical industrial emissions of reactive alkenes and NO _x on tropospheric ozone formation in Houston, Texas. <i>Journal of Geophysical Research</i> , 2003 , 108,		225
190	Determination of urban volatile organic compound emission ratios and comparison with an emissions database. <i>Journal of Geophysical Research</i> , 2007 , 112,		218
189	Observations of ozone formation in power plant plumes and implications for ozone control strategies. <i>Science</i> , 2001 , 292, 719-23	33.3	214
188	Impact of natural hydrocarbons on hydroxyl and peroxy radicals at a remote site. <i>Journal of Geophysical Research</i> , 1987 , 92, 11879		212

187	Relationships between ozone and carbon monoxide at surface sites in the North Atlantic region. <i>Journal of Geophysical Research</i> , 1998 , 103, 13357-13376		199
186	International Consortium for Atmospheric Research on Transport and Transformation (ICARTT): North America to Europe Overview of the 2004 summer field study. <i>Journal of Geophysical Research</i> , 2006 , 111,		195
185	Effects of changing power plant NOx emissions on ozone in the eastern United States: Proof of concept. <i>Journal of Geophysical Research</i> , 2006 , 111,		192
184	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	4.4	191
183	Satellite-observed U.S. power plant NOx emission reductions and their impact on air quality. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	191
182	High winter ozone pollution from carbonyl photolysis in an oil and gas basin. <i>Nature</i> , 2014 , 514, 351-4	50.4	181
181	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	4.4	178
180	Emissions lifetimes and ozone formation in power plant plumes. <i>Journal of Geophysical Research</i> , 1998 , 103, 22569-22583		176
179	Gasoline emissions dominate over diesel in formation of secondary organic aerosol mass. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	163
178	Reduced emissions of CO ₂ , NO _x , and SO ₂ from U.S. power plants owing to switch from coal to natural gas with combined cycle technology. <i>Earth's Future</i> , 2014 , 2, 75-82	7.9	162
177	A Bad Air Day in Houston. <i>Bulletin of the American Meteorological Society</i> , 2005 , 86, 657-670	6.1	162
176	A volatility basis set model for summertime secondary organic aerosols over the eastern United States in 2006. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		159
175	Multiyear trends in volatile organic compounds in Los Angeles, California: Five decades of decreasing emissions. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		158
174	Sources of particulate matter in the northeastern United States in summer: 1. Direct emissions and secondary formation of organic matter in urban plumes. <i>Journal of Geophysical Research</i> , 2008 , 113,		158
173	Emission sources and ocean uptake of acetonitrile (CH ₃ CN) in the atmosphere. <i>Journal of Geophysical Research</i> , 2003 , 108,		153
172	Isoprene and its oxidation products, methyl vinyl ketone and methacrolein, in the rural troposphere. <i>Journal of Geophysical Research</i> , 1993 , 98, 1101-1111		151
171	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		149
170	A case study of transpacific warm conveyor belt transport: Influence of merging airstreams on trace gas import to North America. <i>Journal of Geophysical Research</i> , 2004 , 109,		148

169	The total reactive oxidized nitrogen levels and the partitioning between the individual species at six rural sites in eastern North America. <i>Journal of Geophysical Research</i> , 1993 , 98, 2927-2939		147
168	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	4.4	146
167	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, 21194-21199	4.4	132
166	NO ₂ columns in the western United States observed from space and simulated by a regional chemistry model and their implications for NO _x emissions. <i>Journal of Geophysical Research</i> , 2009 , 114,		131
165	A study of the photochemistry and ozone budget during the Mauna Loa Observatory Photochemistry Experiment. <i>Journal of Geophysical Research</i> , 1992 , 97, 10463		121
164	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		120
163	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	6.8	119
162	Top-down estimate of surface flux in the Los Angeles Basin using a mesoscale inverse modeling technique: assessing anthropogenic emissions of CO, NO _x and CO ₂ and their impacts. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 3661-3677	6.8	119
161	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		117
160	Review of observation-based analysis of the regional factors influencing ozone concentrations. <i>Atmospheric Environment</i> , 2000 , 34, 2045-2061	5.3	116
159	Signatures of terminal alkene oxidation in airborne formaldehyde measurements during TexAQs 2000. <i>Journal of Geophysical Research</i> , 2003 , 108, n/a-n/a		115
158	Observations and modeling of the reactive nitrogen photochemistry at a rural site. <i>Journal of Geophysical Research</i> , 1991 , 96, 3045		115
157	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	6.8	114
156	A regional model study of the ozone budget in the eastern United States. <i>Journal of Geophysical Research</i> , 1991 , 96, 10809		106
155	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	6.8	105
154	Reactive uptake coefficients for N ₂ O ₅ determined from aircraft measurements during the Second Texas Air Quality Study: Comparison to current model parameterizations. <i>Journal of Geophysical Research</i> , 2009 , 114,		104
153	Trace gas signatures of the airstreams within North Atlantic cyclones: Case studies from the North Atlantic Regional Experiment (NARE 07) aircraft intensive. <i>Journal of Geophysical Research</i> , 2001 , 106, 5437-5456		103
152	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,		102

151	Systematic variations in the concentration of NO _x (NO Plus NO ₂) at Niwot Ridge, Colorado. <i>Journal of Geophysical Research</i> , 1990 , 95, 1817		102
150	Regional ozone from biogenic hydrocarbons deduced from airborne measurements of PAN, PPN, and MPAN. <i>Geophysical Research Letters</i> , 1997 , 24, 1099-1102	4.9	98
149	Measurements of tropospheric OH concentrations: A comparison of field data with model predictions. <i>Journal of Atmospheric Chemistry</i> , 1987 , 5, 185-216	3.2	98
148	Ammonia sources in the California South Coast Air Basin and their impact on ammonium nitrate formation. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	97
147	Particle growth in urban and industrial plumes in Texas. <i>Journal of Geophysical Research</i> , 2003 , 108, n/a-n/a		95
146	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	4.4	94
145	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		90
144	The glyoxal budget and its contribution to organic aerosol for Los Angeles, California, during CalNex 2010. <i>Journal of Geophysical Research</i> , 2011 , 116,		89
143	Measurements of the NO _x -O ₃ photostationary state at Niwot Ridge, Colorado. <i>Journal of Geophysical Research</i> , 1986 , 91, 5361		89
142	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	4.9	88
141	A study of ozone in the Colorado mountains. <i>Journal of Atmospheric Chemistry</i> , 1983 , 1, 87-105	3.2	87
140	Regional ozone and urban plumes in the southeastern United States: Birmingham, A case study. <i>Journal of Geophysical Research</i> , 1995 , 100, 18823		86
139	Summer and spring ozone profiles over the North Atlantic from ozonesonde measurements. <i>Journal of Geophysical Research</i> , 1996 , 101, 29179-29200		86
138	Effect of biomass burning on marine stratocumulus clouds off the California coast. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 8841-8856	6.8	85
137	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, n/a-n/a		84
136	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,		84
135	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,		83
134	Nitrogen oxides in the nocturnal boundary layer: Simultaneous in situ measurements of NO ₃ , N ₂ O ₅ , NO ₂ , NO, and O ₃ . <i>Journal of Geophysical Research</i> , 2003 , 108, n/a-n/a		83

133	Decadal change in carbon monoxide to nitrogen oxide ratio in U.S. vehicular emissions. <i>Journal of Geophysical Research</i> , 2002 , 107, ACH 5-1		83
132	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		81
131	Isoprene and its oxidation products, methacrolein and methylvinyl ketone, at an urban forested site during the 1999 Southern Oxidants Study. <i>Journal of Geophysical Research</i> , 2001 , 106, 8035-8046		81
130	Responses of the tropospheric ozone and odd hydrogen radicals to column ozone change. <i>Journal of Atmospheric Chemistry</i> , 1988 , 6, 221-233	3.2	80
129	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	4.4	79
128	An investigation of the chemistry of ship emission plumes during ITCT 2002. <i>Journal of Geophysical Research</i> , 2005 , 110,		79
127	Internal consistency tests for evaluation of measurements of anthropogenic hydrocarbons in the troposphere. <i>Journal of Geophysical Research</i> , 1998 , 103, 22339-22359		78
126	Biomass burning and anthropogenic sources of CO over New England in the summer 2004. <i>Journal of Geophysical Research</i> , 2006 , 111,		75
125	Decrease of summer tropospheric ozone concentrations in Antarctica. <i>Nature</i> , 1991 , 351, 726-729	50.4	75
124	Evidence for a recurring eastern North America upper tropospheric ozone maximum during summer. <i>Journal of Geophysical Research</i> , 2007 , 112,		74
123	Aircraft measurements of NO _x over the eastern Pacific and continental United States and implications for ozone production. <i>Journal of Geophysical Research</i> , 1990 , 95, 10205-10233		73
122	Variability in ammonium nitrate formation and nitric acid depletion with altitude and location over California. <i>Journal of Geophysical Research</i> , 2003 , 108,		72
121	Particle growth in the plumes of coal-fired power plants. <i>Journal of Geophysical Research</i> , 2002 , 107, AAC 9-1		72
120	Evaluations of NO _x and highly reactive VOC emission inventories in Texas and their implications for ozone plume simulations during the Texas Air Quality Study 2006. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 11361-11386	6.8	70
119	Reactive nitrogen transport and photochemistry in urban plumes over the North Atlantic Ocean. <i>Journal of Geophysical Research</i> , 2006 , 111,		70
118	Photochemical ozone production in the rural southeastern United States during the 1990 Rural Oxidants in the Southern Environment (ROSE) program. <i>Journal of Geophysical Research</i> , 1998 , 103, 22491-22508		69
117	Transport and processing of O ₃ and O ₃ precursors over the North Atlantic: An overview of the 1993 North Atlantic Regional Experiment (NARE) summer intensive. <i>Journal of Geophysical Research</i> , 1996 , 101, 28877-28891		67
116	Nocturnal odd-oxygen budget and its implications for ozone loss in the lower troposphere. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	66

115	Measurements of 3-methyl furan, methyl vinyl ketone, and methacrolein at a rural forested site in the southeastern United States. <i>Journal of Geophysical Research</i> , 1995 , 100, 11393		66
114	Intercomparison of tropospheric OH and ancillary trace gas measurements at Fritz Peak Observatory, Colorado. <i>Journal of Geophysical Research</i> , 1994 , 99, 18605		66
113	On the indirect determination of atmospheric OH radical concentrations from reactive hydrocarbon measurements. <i>Journal of Geophysical Research</i> , 1990 , 95, 7493		65
112	Measurement of western U.S. baseline ozone from the surface to the tropopause and assessment of downwind impact regions. <i>Journal of Geophysical Research</i> , 2011 , 116,		63
111	Measurements of hydrocarbons, oxygenated hydrocarbons, carbon monoxide, and nitrogen oxides in an urban basin in Colorado: Implications for emission inventories. <i>Journal of Geophysical Research</i> , 1995 , 100, 22771		63
110	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	4.4	62
109	The Accuracy of Solar Irradiance Calculations Used in Mesoscale Numerical Weather Prediction. <i>Monthly Weather Review</i> , 2005 , 133, 783-792	2.4	61
108	Airborne measurements of isoprene, CO, and anthropogenic hydrocarbons and their implications. <i>Journal of Geophysical Research</i> , 2000 , 105, 9091-9105		61
107	An improved chemical amplifier technique for peroxy radical measurements. <i>Journal of Geophysical Research</i> , 1993 , 98, 2897-2909		60
106	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,		58
105	Vertical profiles in NO ₃ and N ₂ O ₅ measured from an aircraft: Results from the NOAA P-3 and surface platforms during the New England Air Quality Study 2004. <i>Journal of Geophysical Research</i> , 2007 , 112,		58
104	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		55
103	Meteorological mechanisms for transporting O ₃ over the western North Atlantic Ocean: A case study for August 24-29, 1993. <i>Journal of Geophysical Research</i> , 1996 , 101, 29213-29227		55
102	Analysis of long-term observations of NO _x and CO in megacities and application to constraining emissions inventories. <i>Geophysical Research Letters</i> , 2016 , 43, 9920-9930	4.9	55
101	Empirical correlations between black carbon aerosol and carbon monoxide in the lower and middle troposphere. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	54
100	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,		53
99	Dependence of daily peak O ₃ concentrations near Houston, Texas on environmental factors: Wind speed, temperature, and boundary-layer depth. <i>Atmospheric Environment</i> , 2011 , 45, 162-173	5.3	51
98	A top-down analysis of emissions from selected Texas power plants during TexAQS 2000 and 2006. <i>Journal of Geophysical Research</i> , 2010 , 115,		51

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		50
96	Urban/rural contrasts in mixing height and cloudiness over Nashville in 1999. <i>Journal of Geophysical Research</i> , 2003 , 108, n/a-n/a		50
95	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	4	50
94	Mesoscale meteorology of the New England coast, Gulf of Maine, and Nova Scotia: Overview. <i>Journal of Geophysical Research</i> , 1996 , 101, 28893-28901		49
93	Episodic removal of NO _y species from the marine boundary layer over the North Atlantic. <i>Journal of Geophysical Research</i> , 1996 , 101, 28947-28960		49
92	Airborne observations of methane emissions from rice cultivation in the Sacramento Valley of California. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		48
91	Influence of low spatial resolution a priori data on tropospheric NO _x and CO satellite retrievals. <i>Atmospheric Measurement Techniques</i> , 2011 , 4, 1805-1820	4	48
90	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		48
89	Export of NO _y 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		47
88	Assessment of pollutant emission inventories by principal component analysis of ambient air measurements. <i>Geophysical Research Letters</i> , 1992 , 19, 1009-1012	4.9	46
87	North Atlantic Regional Experiment 1993 Summer Intensive: Foreword. <i>Journal of Geophysical Research</i> , 1996 , 101, 28869-28875		45
86	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	6.8	44
85	Evolution of aerosol properties impacting visibility and direct climate forcing in an ammonia-rich urban environment. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		43
84	An overview of the airborne activities during the Southern Oxidants Study (SOS) 1995 Nashville/Middle Tennessee Ozone Study. <i>Journal of Geophysical Research</i> , 1998 , 103, 22245-22259		43
83	Modeling the weekly cycle of NO _x and CO emissions and their impacts on O ₃ 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	4.4	43
82	Trace gas composition of midlatitude cyclones over the western North Atlantic Ocean: A seasonal comparison of O ₃ and CO. <i>Journal of Geophysical Research</i> , 2002 , 107, ACH 2-1		42
81	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,		41
80	A new inversion method to calculate emission inventories without a prior at mesoscale: Application to the anthropogenic CO ₂ emission from Houston, Texas. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		40

79	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	4.4	39
78	Transport of NO _x 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	4.4	39
77	Transition from high- to low-NO _x control of night-time oxidation in the southeastern US. <i>Nature Geoscience</i> , 2017 , 10, 490-495	18.3	39
76	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	4.4	39
75	Characterization of NO _x , SO ₂ , ethene, and propene from industrial emission sources in Houston, Texas. <i>Journal of Geophysical Research</i> , 2010 , 115,		39
74	Comparing MM5 radiative fluxes with observations gathered during the 1995 and 1999 Nashville southern oxidants studies. <i>Journal of Geophysical Research</i> , 2003 , 108,		39
73	Modeling Ozone in the Eastern U.S. using a Fuel-Based Mobile Source Emissions Inventory. <i>Environmental Science & Technology</i> , 2018 , 52, 7360-7370	10.3	37
72	Meteorological conditions during the 1995 Southern Oxidants Study Nashville/Middle Tennessee Field Intensive. <i>Journal of Geophysical Research</i> , 1998 , 103, 22225-22243		37
71	Measurements of free radicals in the atmosphere by matrix isolation and electron paramagnetic resonance. <i>Pure and Applied Geophysics</i> , 1978 , 116, 530-536	2.2	36
70	High-resolution emissions of CO ₂ from power generation in the USA. <i>Journal of Geophysical Research</i> , 2008 , 113,		35
69	Mixing between a stratospheric intrusion and a biomass burning plume. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 4229-4235	6.8	35
68	Fraction and composition of NO _y transported in air masses lofted from the North American continental boundary layer. <i>Journal of Geophysical Research</i> , 2004 , 109,		35
67	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		35
66	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	4.4	34
65	Application of a sequential reaction model to PANs and aldehyde measurements in two urban areas. <i>Geophysical Research Letters</i> , 2001 , 28, 4583-4586	4.9	34
64	Factors influencing the concentration of gas phase hydrogen peroxide during the summer at Niwot Ridge, Colorado. <i>Journal of Geophysical Research</i> , 1995 , 100, 22831		34
63	Background ozone and anthropogenic ozone enhancement at niwot ridge, Colorado. <i>Journal of Atmospheric Chemistry</i> , 1986 , 4, 63-80	3.2	34
62	Observations of ozone transport from the free troposphere to the Los Angeles basin. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		33

61	Evaluation of ozone precursor source types using principal component analysis of ambient air measurements in rural Alabama. <i>Journal of Geophysical Research</i> , 1995 , 100, 22853		33
60	Emissions and photochemistry of oxygenated VOCs in urban plumes in the Northeastern United States. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 7081-7096	6.8	32
59	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		31
58	Measurements of NO _x 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		31
57	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	6.4	30
56	Relationship between photochemical ozone production and NO _x oxidation in Houston, Texas. <i>Journal of Geophysical Research</i> , 2009 , 114,		29
55	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	6.8	28
54	Photochemical modeling of OH levels during the First Aerosol Characterization Experiment (ACE 1). <i>Journal of Geophysical Research</i> , 1999 , 104, 16041-16052		28
53	Weakening of the weekend ozone effect over California's South Coast Air Basin. <i>Geophysical Research Letters</i> , 2015 , 42, 9457-9464	4.9	25
52	Influence of fair-weather cumulus clouds on isoprene chemistry. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		25
51	Nitrous oxide (N ₂ O) emissions from California based on 2010 CalNex airborne measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 2809-2820	4.4	23
50	A study of organic nitrates formation in an urban plume using a Master Chemical Mechanism. <i>Atmospheric Environment</i> , 2008 , 42, 5771-5786	5.3	23
49	Measurements of stratospheric HO ₂ and NO ₂ by matrix isolation and ESR spectroscopy. <i>Journal of Atmospheric Chemistry</i> , 1984 , 2, 191-202	3.2	23
48	Top-down estimate of methane emissions in California using a mesoscale inverse modeling technique: The San Joaquin Valley. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 3686-3694	4.4	22
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