

David D Parrish

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/627989/publications.pdf>

Version: 2024-02-01

237
papers

26,065
citations

4942

84
h-index

8370

147
g-index

265
all docs

265
docs citations

265
times ranked

13726
citing authors

#	ARTICLE	IF	CITATIONS
1	North American Regional Reanalysis. Bulletin of the American Meteorological Society, 2006, 87, 343-360.	1.7	2,864
2	Ozone production in the rural troposphere and the implications for regional and global ozone distributions. Journal of Geophysical Research, 1987, 92, 4191-4207.	3.3	858
3	Atmospheric composition change – global and regional air quality. Atmospheric Environment, 2009, 43, 5268-5350.	1.9	714
4	Ozone precursor relationships in the ambient atmosphere. Journal of Geophysical Research, 1992, 97, 6037-6055.	3.3	664
5	Models and observations of the impact of natural hydrocarbons on rural ozone. Nature, 1987, 329, 705-707.	13.7	479
6	Increasing springtime ozone mixing ratios in the free troposphere over western North America. Nature, 2010, 463, 344-348.	13.7	397
7	Global distribution and trends of tropospheric ozone: An observation-based review. Elementa, 2014, 2, .	1.1	365
8	Correlation of ozone with NO _y in photochemically aged air. Journal of Geophysical Research, 1993, 98, 2917-2925.	3.3	336
9	Export of North American Ozone Pollution to the North Atlantic Ocean. Science, 1993, 259, 1436-1439.	6.0	284
10	High winter ozone pollution from carbonyl photolysis in an oil and gas basin. Nature, 2014, 514, 351-354.	13.7	265
11	Effect of petrochemical industrial emissions of reactive alkenes and NO _x on tropospheric ozone formation in Houston, Texas. Journal of Geophysical Research, 2003, 108, .	3.3	263
12	Reactive nitrogen species in the troposphere: Measurements of NO, NO ₂ , HNO ₃ , particulate nitrate, peroxyacetyl nitrate (PAN), O ₃ , and total reactive odd nitrogen (NO _y) at Niwot Ridge, Colorado. Journal of Geophysical Research, 1986, 91, 9781-9793.	3.3	261
13	Long-term changes in lower tropospheric baseline ozone concentrations at northern mid-latitudes. Atmospheric Chemistry and Physics, 2012, 12, 11485-11504.	1.9	260
14	Observations of Ozone Formation in Power Plant Plumes and Implications for Ozone Control Strategies. Science, 2001, 292, 719-723.	6.0	258
15	Chemical data quantify <i>Deepwater Horizon</i> hydrocarbon flow rate and environmental distribution. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20246-20253.	3.3	258
16	Determination of urban volatile organic compound emission ratios and comparison with an emissions database. Journal of Geophysical Research, 2007, 112, .	3.3	254
17	Transatlantic transport of pollution and its effects on surface ozone in Europe and North America. Journal of Geophysical Research, 2002, 107, ACH 4-1.	3.3	253
18	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

#	ARTICLE	IF	CITATIONS
19	Impact of natural hydrocarbons on hydroxyl and peroxy radicals at a remote site. Journal of Geophysical Research, 1987, 92, 11879-11894.	3.3	227
20	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
21	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
22	Critical evaluation of US on-road vehicle emission inventories. Atmospheric Environment, 2006, 40, 2288-2300.	1.9	220
23	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. Earth's Future, 2014, 2, 75-82.	2.4	219
24	Indications of photochemical histories of Pacific air masses from measurements of atmospheric trace species at Point Arena, California. Journal of Geophysical Research, 1992, 97, 15883-15901.	3.3	210
25	Emission ratios of anthropogenic volatile organic compounds in northern mid-latitude megacities: Observations versus emission inventories in Los Angeles and Paris. Journal of Geophysical Research D: Atmospheres, 2013, 118, 2041-2057.	1.2	210
26	Volatile organic compounds (VOCs) in urban air: How chemistry affects the interpretation of positive matrix factorization (PMF) analysis. Journal of Geophysical Research, 2012, 117, .	3.3	207
27	Clean Air for Megacities. Science, 2009, 326, 674-675.	6.0	206
28	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
29	Ozone production in transpacific Asian pollution plumes and implications for ozone air quality in California. Journal of Geophysical Research, 2004, 109, .	3.3	197
30	Air quality progress in North American megacities: A review. Atmospheric Environment, 2011, 45, 7015-7025.	1.9	196
31	Emissions lifetimes and ozone formation in power plant plumes. Journal of Geophysical Research, 1998, 103, 22569-22583.	3.3	192
32	Relationship of ozone and carbon monoxide over North America. Journal of Geophysical Research, 1994, 99, 14565.	3.3	190
33	Gasoline emissions dominate over diesel in formation of secondary organic aerosol mass. Geophysical Research Letters, 2012, 39, .	1.5	189
34	Multiyear trends in volatile organic compounds in Los Angeles, California: Five decades of decreasing emissions. Journal of Geophysical Research, 2012, 117, .	3.3	183
35	Emission sources and ocean uptake of acetonitrile (CH_3CN) in the atmosphere. Journal of Geophysical Research, 2003, 108, .	3.3	179
36	Tropospheric Ozone Assessment Report: Assessment of global-scale model performance for global and regional ozone distributions, variability, and trends. Elementa, 2018, 6, .	1.1	177

#	ARTICLE	IF	CITATIONS
37	Scaling Relationship for NO ₂ Pollution and Urban Population Size: A Satellite Perspective. <i>Environmental Science & Technology</i> , 2013, 47, 7855-7861.	4.6	176
38	Tropospheric Ozone Assessment Report: Database and metrics data of global surface ozone observations. <i>Elementa</i> , 2017, 5, .	1.1	172
39	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, .	3.3	169
40	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
41	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.	3.3	165
42	Increasing background ozone during spring on the west coast of North America. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	164
43	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
44	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
45	Organic Aerosol Formation Downwind from the Deepwater Horizon Oil Spill. <i>Science</i> , 2011, 331, 1295-1299.	6.0	162
46	Ozone production from Canadian wildfires during June and July of 1995. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 7-1.	3.3	155
47	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
48	Long-term changes in lower tropospheric baseline ozone concentrations: Comparing chemistry-climate models and observations at northern midlatitudes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 5719-5736.	1.2	149
49	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
50	Increasing ozone in marine boundary layer inflow at the west coasts of North America and Europe. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 1303-1323.	1.9	144
51	Contribution of organic nitrates to the total reactive nitrogen budget at a rural eastern U.S. site. <i>Journal of Geophysical Research</i> , 1990, 95, 9809-9816.	3.3	141
52	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
53	Airborne intercomparison of vacuum ultraviolet fluorescence and tunable diode laser absorption measurements of tropospheric carbon monoxide. <i>Journal of Geophysical Research</i> , 2000, 105, 24251-24261.	3.3	141
54	Effects of mixing on evolution of hydrocarbon ratios in the troposphere. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	140

#	ARTICLE	IF	CITATIONS
55	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
56	Methods for gas-phase measurements of ozone, ozone precursors and aerosol precursors. <i>Atmospheric Environment</i> , 2000, 34, 1921-1957.	1.9	129
57	Review of observation-based analysis of the regional factors influencing ozone concentrations. <i>Atmospheric Environment</i> , 2000, 34, 2045-2061.	1.9	129
58	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
59	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
60	Comparison of air pollutant emissions among mega-cities. <i>Atmospheric Environment</i> , 2009, 43, 6435-6441.	1.9	123
61	Trace gas signatures of the airstreams within North Atlantic cyclones: Case studies from the North Atlantic Regional Experiment (NARE 1997) aircraft intensive. <i>Journal of Geophysical Research</i> , 2001, 106, 5437-5456.	3.3	121
62	Determination of nitrogen oxide emissions from soils: Results from a grassland site in Colorado, United States. <i>Journal of Geophysical Research</i> , 1987, 92, 2173-2179.	3.3	116
63	Intercomparison of NO ₂ measurement techniques. <i>Journal of Geophysical Research</i> , 1990, 95, 3579-3597.	3.3	116
64	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
65	Evaluation of GOME satellite measurements of tropospheric NO ₂ and HCHO using regional data from aircraft campaigns in the southeastern United States. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	113
66	Systematic variations in the concentration of NO _x (NO + NO ₂) at Niwot Ridge, Colorado. <i>Journal of Geophysical Research</i> , 1990, 95, 1817-1836.	3.3	112
67	Methane emissions inventory verification in southern California. <i>Atmospheric Environment</i> , 2010, 44, 1-7.	1.9	112
68	Design and initial characterization of an inlet for gas-phase NO _y measurements from aircraft. <i>Journal of Geophysical Research</i> , 1999, 104, 5483-5492.	3.3	110
69	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
70	Particle growth in urban and industrial plumes in Texas. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	109
71	Relationship between peroxyacetyl nitrate and nitrogen oxides in the clean troposphere. <i>Nature</i> , 1985, 318, 347-349.	13.7	108
72	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

#	ARTICLE	IF	CITATIONS
73	Measurements of the NO ₃ photostationary state at Niwot Ridge, Colorado. <i>Journal of Geophysical Research</i> , 1986, 91, 5361-5370.	3.3	106
74	Evolution of alkyl nitrates with air mass age. <i>Journal of Geophysical Research</i> , 1995, 100, 22805.	3.3	104
75	An investigation of the chemistry of ship emission plumes during ITCT 2002. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	103
76	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
77	The behavior of some organic nitrates at Boulder and Niwot Ridge, Colorado. <i>Journal of Geophysical Research</i> , 1990, 95, 13949-13961.	3.3	100
78	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
79	A study of ozone in the Colorado mountains. <i>Journal of Atmospheric Chemistry</i> , 1983, 1, 87-105.	1.4	98
80	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
81	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
82	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
83	Lower tropospheric ozone at northern midlatitudes: Changing seasonal cycle. <i>Geophysical Research Letters</i> , 2013, 40, 1631-1636.	1.5	95
84	Peroxy radicals in the ROSE experiment: Measurement and theory. <i>Journal of Geophysical Research</i> , 1992, 97, 20671-20686.	3.3	94
85	Fast-response airborne in situ measurements of HNO ₃ during the Texas 2000 Air Quality Study. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 8-1.	3.3	94
86	Measurement of soil NO _x emissions in central Pennsylvania. <i>Journal of Geophysical Research</i> , 1988, 93, 9539-9546.	3.3	93
87	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.	3.3	93
88	Internal consistency tests for evaluation of measurements of anthropogenic hydrocarbons in the troposphere. <i>Journal of Geophysical Research</i> , 1998, 103, 22339-22359.	3.3	91
89	Spatial and temporal variability of nonmethane hydrocarbon mixing ratios and their relation to photochemical lifetime. <i>Journal of Geophysical Research</i> , 1998, 103, 13557-13567.	3.3	90
90	Characterizing summertime chemical boundary conditions for airmasses entering the US West Coast. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 1769-1790.	1.9	90

#	ARTICLE	IF	CITATIONS
91	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
92	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
93	Turbulence and Gravity Waves within an Upper-Level Front. <i>Journals of the Atmospheric Sciences</i> , 2005, 62, 3885-3908.	0.6	89
94	Challenges of a lowered U.S. ozone standard. <i>Science</i> , 2015, 348, 1096-1097.	6.0	89
95	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.	3.3	88
96	Peroxy radicals as measured in ROSE and estimated from photostationary state deviations. <i>Journal of Geophysical Research</i> , 1993, 98, 18355-18366.	3.3	87
97	Trace gas mixing ratio variability versus lifetime in the troposphere and stratosphere: Observations. <i>Journal of Geophysical Research</i> , 1999, 104, 16091-16113.	3.3	86
98	Particle characteristics following cloud-modified transport from Asia to North America. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	86
99	Changes in the photochemical environment of the temperate North Pacific troposphere in response to increased Asian emissions. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	86
100	Particle growth in the plumes of coal-fired power plants. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 9-1.	3.3	85
101	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
102	Direct transport of midlatitude stratospheric ozone into the lower troposphere and marine boundary layer of the tropical Pacific Ocean. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	84
103	Reactive nitrogen transport and photochemistry in urban plumes over the North Atlantic Ocean. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	83
104	Intercomparison of tropospheric OH and ancillary trace gas measurements at Fritz Peak Observatory, Colorado. <i>Journal of Geophysical Research</i> , 1994, 99, 18605.	3.3	80
105	On the life cycle of a stratospheric intrusion and its dispersion into polluted warm conveyor belts. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	80
106	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
107	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
108	Measurements of HNO ₃ and NO ₃ [•] particulates at a rural site in the Colorado mountains. <i>Journal of Geophysical Research</i> , 1986, 91, 5379-5393.	3.3	78

#	ARTICLE	IF	CITATIONS
109	Nighttime chemistry at a high altitude site above Hong Kong. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 2457-2475.	1.2	78
110	The measurement of the photodissociation rate of NO ₂ in the atmosphere. <i>Atmospheric Environment</i> , 1983, 17, 1365-1379.	1.1	77
111	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
112	Export of NO _y from the North American boundary layer: Reconciling aircraft observations and global model budgets. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	75
113	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.	3.3	74
114	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.	3.3	74
115	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.	3.3	74
116	An internally consistent set of globally distributed atmospheric carbon monoxide mixing ratios developed using results from an intercomparison of measurements. <i>Journal of Geophysical Research</i> , 1998, 103, 19285-19293.	3.3	73
117	Impact of transported background ozone inflow on summertime air quality in a California ozone exceedance area. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 10093-10109.	1.9	73
118	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
119	Airborne measurements of isoprene, CO, and anthropogenic hydrocarbons and their implications. <i>Journal of Geophysical Research</i> , 2000, 105, 9091-9105.	3.3	71
120	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, .	3.3	71
121	Aircraft observations of daytime NO ₃ and N ₂ O ₅ and their implications for tropospheric chemistry. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005, 176, 270-278.	2.0	70
122	Establishing Policy Relevant Background (PRB) Ozone Concentrations in the United States. <i>Environmental Science & Technology</i> , 2011, 45, 9484-9497.	4.6	70
123	An improved chemical amplifier technique for peroxy radical measurements. <i>Journal of Geophysical Research</i> , 1993, 98, 2897-2909.	3.3	69
124	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.	1.5	69
125	Routine, Continuous Measurement of Carbon Monoxide with Parts per Billion Precision. <i>Environmental Science & Technology</i> , 1994, 28, 1615-1618.	4.6	64
126	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.	3.3	63

#	ARTICLE	IF	CITATIONS
127	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
128	Impacts of transported background ozone on California air quality during the ARCTAS-CARB period – a multi-scale modeling study. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 6947-6968.	1.9	63
129	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
130	Molecular beam chemistry. Persistent collision complex in reaction of oxygen atoms with bromine molecules. <i>Journal of the American Chemical Society</i> , 1973, 95, 6133-6134.	6.6	62
131	Measurement of alkyl nitrates at Chebogue Point, Nova Scotia during the 1993 North Atlantic Regional Experiment (NARE) intensive. <i>Journal of Geophysical Research</i> , 1998, 103, 13569-13580.	3.3	61
132	Temporal Changes in U.S. Benzene Emissions Inferred from Atmospheric Measurements. <i>Environmental Science & Technology</i> , 2005, 39, 1403-1408.	4.6	61
133	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
134	Establishing Lagrangian connections between observations within air masses crossing the Atlantic during the International Consortium for Atmospheric Research on Transport and Transformation experiment. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	60
135	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
136	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.	1.9	60
137	The Nonmethane Hydrocarbon Intercomparison Experiment (NOMHICE): Task 3. <i>Journal of Geophysical Research</i> , 1999, 104, 26069-26086.	3.3	58
138	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.	3.3	58
139	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
140	Airborne Measurements of Ethene from Industrial Sources Using Laser Photo-Acoustic Spectroscopy. <i>Environmental Science & Technology</i> , 2009, 43, 2437-2442.	4.6	57
141	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
142	Transition from high- to low-NO _x control of night-time oxidation in the southeastern US. <i>Nature Geoscience</i> , 2017, 10, 490-495.	5.4	56
143	Measurement of nitrogen oxide fluxes from soils: Intercomparison of enclosure and gradient measurement techniques. <i>Journal of Geophysical Research</i> , 1987, 92, 2165-2171.	3.3	55
144	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.	3.3	54

#	ARTICLE	IF	CITATIONS
145	Photochemical aging of volatile organic compounds in the Los Angeles basin: Weekdayâ€weekend effect. Journal of Geophysical Research D: Atmospheres, 2013, 118, 5018-5028.	1.2	54
146	Quantifying the role of PM2.5 dropping in variations of ground-level ozone: Inter-comparison between Beijing and Los Angeles. Science of the Total Environment, 2021, 788, 147712.	3.9	54
147	Stratospheric versus pollution influences on ozone at Bermuda: Reconciling past analyses. Journal of Geophysical Research, 2002, 107, ACH 1-1.	3.3	53
148	Numerical simulations of the July 10 Stratospheric-Tropospheric Experiment: Radiation, Aerosols, and Ozone/Deep Convection Experiment convective system: Kinematics and transport. Journal of Geophysical Research, 2000, 105, 19973-19990.	3.3	52
149	Assessment of pollutant emission inventories by principal component analysis of ambient air measurements. Geophysical Research Letters, 1992, 19, 1009-1012.	1.5	51
150	Biogenic VOC oxidation and organic aerosol formation in an urban nocturnal boundary layer: aircraft vertical profiles in Houston, TX. Atmospheric Chemistry and Physics, 2013, 13, 11317-11337.	1.9	51
151	Large contribution of biomass burning emissions to ozone throughout the global remote troposphere. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	51
152	Trace gas composition of midlatitude cyclones over the western North Atlantic Ocean: A seasonal comparison of O ₃ and CO. Journal of Geophysical Research, 2002, 107, ACH 2-1.	3.3	50
153	Airborne observations of methane emissions from rice cultivation in the Sacramento Valley of California. Journal of Geophysical Research, 2012, 117, .	3.3	50
154	NO _x measurements in clean continental air and analysis of the contributing meteorology. Journal of Geophysical Research, 1984, 89, 9623-9631.	3.3	49
155	Lagrangian analysis of low altitude anthropogenic plume processing across the North Atlantic. Atmospheric Chemistry and Physics, 2008, 8, 7737-7754.	1.9	48
156	Exploring the drivers of the increased ozone production in Beijing in summertime during 2005â€2016. Atmospheric Chemistry and Physics, 2020, 20, 15617-15633.	1.9	48
157	North Atlantic Regional Experiment 1993 Summer Intensive: Foreword. Journal of Geophysical Research, 1996, 101, 28869-28875.	3.3	47
158	A springtime comparison of tropospheric ozone and transport pathways on the east and west coasts of the United States. Journal of Geophysical Research, 2005, 110, .	3.3	47
159	The Measurement of NO _x in the Non-Urban Troposphere. , 1988, , 185-215.		47
160	Development of a semi-continuous method for the measurement of nitric acid vapor and particulate nitrate and sulfate. Atmospheric Environment, 1995, 29, 2609-2624.	1.9	46
161	Nonmethane hydrocarbons at Pico Mountain, Azores: 1. Oxidation chemistry in the North Atlantic region. Journal of Geophysical Research, 2008, 113, .	3.3	46
162	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

#	ARTICLE	IF	CITATIONS
163	An intercomparison of five ammonia measurement techniques. <i>Journal of Geophysical Research</i> , 1992, 97, 11591-11611.	3.3	45
164	Characterization of NO _x , SO ₂ , ethene, and propene from industrial emission sources in Houston, Texas. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	44
165	Air quality improvement in Los Angeles—perspectives for developing cities. <i>Frontiers of Environmental Science and Engineering</i> , 2016, 10, 1.	3.3	44
166	Long-term trend of ozone pollution in China during 2014–2020: distinct seasonal and spatial characteristics and ozone sensitivity. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 8935-8949.	1.9	43
167	Increasing atmospheric burden of ethanol in the United States. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	41
168	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.	3.3	40
169	Relationships between PAN and ozone at sites in eastern North America. <i>Journal of Geophysical Research</i> , 1995, 100, 22821.	3.3	40
170	Atmospheric in situ measurement of nitrate radical (NO ₃) and other photolysis rates using spectroradiometry and filter radiometry. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	39
171	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.	3.3	38
172	Observations of ozone transport from the free troposphere to the Los Angeles basin. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	38
173	Molecular-Beam Kinetics. I. Magnetic Deflection Analysis of Reactions of Li with Cl ₂ , ICl, Br ₂ , SnCl ₄ , and PCI ₃ . <i>Journal of Chemical Physics</i> , 1969, 51, 5467-5481.	1.2	37
174	Molecular-Beam Kinetics. II. Magnetic Deflection Analysis of Reactions of Li with NO ₂ , CH ₃ NO ₂ , SF ₆ , CCl ₄ , and CH ₃ I. <i>Journal of Chemical Physics</i> , 1971, 54, 2518-2528.	1.2	37
175	Ground-based measurements of NO _x and total reactive oxidized nitrogen (NO _y) at Sable Island, Nova Scotia, during the NARE 1993 summer intensive. <i>Journal of Geophysical Research</i> , 1996, 101, 28991-29004.	3.3	37
176	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, .	3.3	37
177	Air Emission Inventories in North America: A Critical Assessment. <i>Journal of the Air and Waste Management Association</i> , 2006, 56, 1115-1129.	0.9	37
178	Relationship between photochemical ozone production and NO _x oxidation in Houston, Texas. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	36
179	Magnitude, Decadal Changes, and Impact of Regional Background Ozone Transported into the Greater Houston, Texas, Area. <i>Environmental Science & Technology</i> , 2013, 47, 13985-13992.	4.6	36
180	Background ozone and anthropogenic ozone enhancement at niwot ridge, Colorado. <i>Journal of Atmospheric Chemistry</i> , 1986, 4, 63-80.	1.4	35

#	ARTICLE	IF	CITATIONS
181	Contributions of regional transport and local sources to ozone exceedances in Houston and Dallas: Comparison of results from a photochemical grid model to aircraft and surface measurements. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	34
182	Long-term trend of ozone in southern China reveals future mitigation strategy for air pollution. <i>Atmospheric Environment</i> , 2022, 269, 118869.	1.9	34
183	Reply [to "Comment on "Indications of photochemical histories of Pacific air masses from measurements of atmospheric trace species at Point Arena, California" by D. D. Parrish et al.]. <i>Journal of Geophysical Research</i> , 1993, 98, 14995-14997.	3.3	33
184	Ozone Design Values in Southern California's Air Basins: Temporal Evolution and U.S. Background Contribution. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 11,166.	1.2	31
185	Uncertainties in models of tropospheric ozone based on Monte Carlo analysis: Tropospheric ozone burdens, atmospheric lifetimes and surface distributions. <i>Atmospheric Environment</i> , 2018, 180, 93-102.	1.9	31
186	Global-scale distribution of ozone in the remote troposphere from the ATom and HIPPO airborne field missions. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 10611-10635.	1.9	31
187	Intercomparison of tunable diode laser and gas filter correlation measurements of ambient carbon monoxide. <i>Atmospheric Environment Part A General Topics</i> , 1991, 25, 2277-2284.	1.3	30
188	Electrical discharge source for tropospheric "ozone-rich transients". <i>Journal of Geophysical Research</i> , 2002, 107, ACH 16-1.	3.3	30
189	Harmonic Forces Linear Model for Reactions of Cs Atoms with Alkyl Iodides. <i>Journal of Chemical Physics</i> , 1970, 53, 2431-2435.	1.2	29
190	City lights and urban air. <i>Nature Geoscience</i> , 2011, 4, 730-731.	5.4	29
191	Seasonal cycles of O ₃ in the marine boundary layer: Observation and model simulation comparisons. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 538-557.	1.2	29
192	Fossil-fueled power plants as a source of atmospheric carbon monoxide. <i>Journal of Environmental Monitoring</i> , 2003, 5, 35-39.	2.1	28
193	Zonal Similarity of Long-Term Changes and Seasonal Cycles of Baseline Ozone at Northern Midlatitudes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031908.	1.2	27
194	The formation and mitigation of nitrate pollution: comparison between urban and suburban environments. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 4539-4556.	1.9	27
195	A Multiwinter Analysis of Channeled Flow through a Prominent Gap along the Northern California Coast during CALJET and PACJET. <i>Monthly Weather Review</i> , 2006, 134, 1815-1841.	0.5	26
196	Factors influencing the concentration of gas phase hydrogen peroxide during the summer at Kinterbish, Alabama. <i>Journal of Geophysical Research</i> , 1995, 100, 22841.	3.3	24
197	Reversal of Long-Term Trend in Baseline Ozone Concentrations at the North American West Coast. <i>Geophysical Research Letters</i> , 2017, 44, 10,675.	1.5	24
198	Local meteorological features affecting chemical measurements at a North Atlantic coastal site. <i>Journal of Geophysical Research</i> , 1996, 101, 28935-28946.	3.3	22

#	ARTICLE	IF	CITATIONS
199	Nitric acid loss rates measured in power plant plumes. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	22
200	Nonmethane hydrocarbons at Pico Mountain, Azores: 2. Event-specific analyses of the impacts of mixing and photochemistry on hydrocarbon ratios. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	22
201	Comparisons of airborne lidar measurements of ozone with airborne in situ measurements during the 1995 Southern Oxidants Study. <i>Journal of Geophysical Research</i> , 1998, 103, 31155-31171.	3.3	21
202	Forecasting for a Lagrangian aircraft campaign. <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 1113-1124.	1.9	21
203	Effects of NO _x control and plume mixing on nighttime chemical processing of plumes from coal-fired power plants. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	20
204	Interhemispheric differences in seasonal cycles of tropospheric ozone in the marine boundary layer: Observation-model comparisons. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 11,075.	1.2	19
205	Photochemical production and loss rates of ozone at Sable Island, Nova Scotia during the North Atlantic Regional Experiment (NARE) 1993 summer intensive. <i>Journal of Geophysical Research</i> , 1998, 103, 13531-13555.	3.3	18
206	Measurements of nitrogen oxides and a simple model of NO _y fate in the remote North Atlantic marine atmosphere. <i>Journal of Geophysical Research</i> , 1998, 103, 13489-13503.	3.3	17
207	Hydrogen peroxide dry deposition lifetime determined from observed loss rates in a power plant plume. <i>Journal of Geophysical Research</i> , 1998, 103, 22617-22628.	3.3	17
208	Photostationary state deviation-estimated peroxy radicals and their implications for HO _x and ozone photochemistry at a remote northern Atlantic coastal site. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	17
209	Comparison between the TOPAZ Airborne Ozone Lidar and In Situ Measurements during TexAQS 2006. <i>Journal of Atmospheric and Oceanic Technology</i> , 2011, 28, 1243-1257.	0.5	17
210	Distributions of ozone in the region of the subtropical jet: An analysis of in situ aircraft measurements. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	16
211	Ozone and alkyl nitrate formation from the Deepwater Horizon oil spill atmospheric emissions. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	16
212	Alkyl nitrate measurements during STERAO 1996 and NARE 1997: Intercomparison and survey of results. <i>Journal of Geophysical Research</i> , 2001, 106, 23043-23053.	3.3	15
213	Airborne vacuum ultraviolet resonance fluorescence instrument for in situ measurement of CO. <i>Journal of Geophysical Research</i> , 2001, 106, 24237-24244.	3.3	14
214	The role of anthropogenic emissions of NO _x on tropospheric ozone over the North Atlantic Ocean: A three-dimensional, global model study. <i>Atmospheric Environment</i> , 1996, 30, 1739-1749.	1.9	12
215	Carbonyl sulfide as an inverse tracer for biogenic organic carbon in gas and aerosol phases. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	11
216	Carbon Monoxide and Light Alkanes as Tropospheric Tracers of Anthropogenic Ozone. , 1993, , 155-169.		11

#	ARTICLE	IF	CITATIONS
217	Urbanization and Air Pollution: Then and Now. <i>Eos</i> , 2015, , .	0.1	11
218	Long-term changes in northern mid-latitude tropospheric ozone concentrations: Synthesis of two recent analyses. <i>Atmospheric Environment</i> , 2021, 248, 118227.	1.9	10
219	Changes in anthropogenic precursor emissions drive shifts in the ozone seasonal cycle throughout the northern midlatitude troposphere. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 3507-3524.	1.9	10
220	Preface [to special section on North Atlantic Regional Experiment (NARE II)]. <i>Journal of Geophysical Research</i> , 1998, 103, 13353-13355.	3.3	9
221	Hydrocarbon Removal in Power Plant Plumes Shows Nitrogen Oxide Dependence of Hydroxyl Radicals. <i>Geophysical Research Letters</i> , 2019, 46, 7752-7760.	1.5	9
222	Flexible approach for quantifying average long-term changes and seasonal cycles of tropospheric trace species. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 3383-3394.	1.2	8
223	Estimating background contributions and US anthropogenic enhancements to maximum ozone concentrations in the northern US. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 12587-12605.	1.9	8
224	Investigations on the anthropogenic reversal of the natural ozone gradient between northern and southern midlatitudes. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 9669-9679.	1.9	8
225	Observational-based assessment of contributions to maximum ozone concentrations in the western United States. <i>Journal of the Air and Waste Management Association</i> , 2022, 72, 434-454.	0.9	7
226	Analysis and assessment of the observed long-term changes over three decades in ground-level ozone across north-west Europe from 1989 - 2018. <i>Atmospheric Environment</i> , 2022, 286, 119222.	1.9	7
227	Possible Mass Effect in Alkali-Atom Reactions: Crossed-Beam Studies of Li+Cl ₂ , ICl, Br ₂ , SnCl ₄ , and PCl ₃ . <i>Journal of Chemical Physics</i> , 1968, 49, 5544-5545.	1.2	6
228	A case study of stratosphere-troposphere exchange during the 1996 North Atlantic Regional Experiment. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	5
229	Intercomparison of the representations of the atmospheric chemistry of pre-industrial methane and ozone in earth system and other global chemistry-transport models. <i>Atmospheric Environment</i> , 2021, 248, 118248.	1.9	5
230	Sensitized fluorescence in crossed atomic beams: Hg(6s ³ P _{0,2})+I(6s ² P _{1/2}). <i>Journal of Chemical Physics</i> , 1975, 63, 1980-1984.	1.2	4
231	Seasonal cycles in baseline mixing ratios of a large number of trace gases at the Mace Head, Ireland atmospheric research station. <i>Atmospheric Environment</i> , 2020, 233, 117531.	1.9	4
232	Long-term baseline ozone changes in the Western US: A synthesis of analyses. <i>Journal of the Air and Waste Management Association</i> , 2021, 71, 1397-1406.	0.9	4
233	Measurement Challenges of Nitrogen Species in the Atmosphere. <i>Advances in Chemistry Series</i> , 1993, , 243-273.	0.6	3
234	Regional photochemical measurement and modeling studies conference San Diego, California 8-12 November 1993. <i>Atmospheric Environment</i> , 1995, 29, 2885-2886.	1.9	1

#	ARTICLE	IF	CITATIONS
235	Determination of emissions from observations of atmospheric compounds. <i>Advances in Global Change Research</i> , 2004, , 427-476.	1.6	1
236	Modeling of molecular velocity distributions. A physical chemistry experiment. <i>Journal of Chemical Education</i> , 1978, 55, 670.	1.1	0
237	Background Ozone and Anthropogenic Ozone Enhancement at Niwot Ridge, Colorado. , 1986, , 261-278.		0