Paul O Wennberg

List of Publications by Year
in descending order

313 papers	35,183 citations	2963 93 h-index	5663 162 g-index
459 all docs	459 docs citations	459 times ranked	13295 citing authors

#	Article	IF	Citations
1	Emission factors for open and domestic biomass burning for use in atmospheric models. Atmospheric Chemistry and Physics, 2011, 11, 4039-4072.	1.9	1,527
2	An atmospheric perspective on North American carbon dioxide exchange: CarbonTracker. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18925-18930.	3.3	895
3	The Total Carbon Column Observing Network. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 2087-2112.	1.6	884
4	Reactive intermediates revealed in secondary organic aerosol formation from isoprene. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6640-6645.	3.3	854
5	Unexpected Epoxide Formation in the Gas-Phase Photooxidation of Isoprene. Science, 2009, 325, 730-733.	6.0	837
6	The Orbiting Carbon Observatory (OCO) mission. Advances in Space Research, 2004, 34, 700-709.	1.2	596
7	The ACOS CO₂ retrieval algorithm â€“ Part 1: Description and validation against synthetic observations. Atmospheric Measurement Techniques, 2012, 5, 99-121.	1.2	530
8	Highly Oxygenated Organic Molecules (HOM) from Gas-Phase Autoxidation Involving Peroxy Radicals: A Key Contributor to Atmospheric Aerosol. Chemical Reviews, 2019, 119, 3472-3509.	23.0	460
9	Isoprene photooxidation: new insights into the production of acids and organic nitrates. Atmospheric Chemistry and Physics, 2009, 9, 1479-1501.	1.9	450
10	Autoxidation of Organic Compounds in the Atmosphere. Journal of Physical Chemistry Letters, 2013, 4, 3513-3520.	2.1	444
11	Calibration of the Total Carbon Column Observing Network using aircraft profile data. Atmospheric Measurement Techniques, 2010, 3, 1351-1362.	1.2	441
12	Emissions from biomass burning in the Yucatan. Atmospheric Chemistry and Physics, 2009, 9, 5785-5812.	1.9	433
13	Effect of NO_x level on secondary organic aerosol (SOA) formation from the photooxidation of terpenes. Atmospheric Chemistry and Physics, 2007, 7, 5159-5174.	1.9	423
14	Fast airborne aerosol size and chemistry measurements above Mexico City and Central Mexico during the MILAGRO campaign. Atmospheric Chemistry and Physics, 2008, 8, 4027-4048.	1.9	411
15	Removal of Stratospheric O3 by Radicals: In Situ Measurements of OH, HO2, NO, NO2, ClO, and BrO. Science, 1994, 266, 398-404.	6.0	384
16	Toward accurate CO₂and CH₄observations from GOSAT. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	355
17	Gas-Phase Reactions of Isoprene and Its Major Oxidation Products. Chemical Reviews, 2018, 118, 3337-3390.	23.0	339
18	Hydrogen Radicals, Nitrogen Radicals, and the Production of O3 in the Upper Troposphere. Science, 1998, 279, 49-53.	6.0	329

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19	Investigation of the sources and processing of organic aerosol over the Central Mexican Plateau from aircraft measurements during MILAGRO. Atmospheric Chemistry and Physics, 2010, 10, 5257-5280.	1.9	325
20	Precision requirements for space-based data. Journal of Geophysical Research, 2007, 112, .	3.3	322
21	The ACOS CO₂ retrieval algorithm â€“ Part II: Global X_{CO₂} data characterization. Atmospheric Measurement Techniques, 2012, 5, 687-707.	1.2	320
22	Why do models overestimate surface ozone in the Southeast United States?. Atmospheric Chemistry and Physics, 2016, 16, 13561-13577.	1.9	320
23	Secondary organic aerosol (SOA) formation from reaction of isoprene with nitrate radicals (NO₃). Atmospheric Chemistry and Physics, 2008, 8, 4117-4140.	1.9	317
24	Measurement of Gas-Phase Hydroperoxides by Chemical Ionization Mass Spectrometry. Analytical Chemistry, 2006, 78, 6726-6732.	3.2	307
25	Peroxy radical isomerization in the oxidation of isoprene. Physical Chemistry Chemical Physics, 2011, 13, 13607.	1.3	302
26	Secondary organic aerosol formation from photooxidation of naphthalene and alkylnaphthalenes: implications for oxidation of intermediate volatility organic compounds (IVOCs). Atmospheric Chemistry and Physics, 2009, 9, 3049-3060.	1.9	300
27	The Detection of Large HNO3-Containing Particles in the Winter Arctic Stratosphere. Science, 2001, 291, 1026-1031.	6.0	279
28	A method for evaluating bias in global measurements of CO₂ total columns from space. Atmospheric Chemistry and Physics, 2011, 11, 12317-12337.	1.9	279
29	The on-orbit performance of the Orbiting Carbon Observatory-2 (OCO-2) instrument and its radiometrically calibrated products. Atmospheric Measurement Techniques, 2017, 10, 59-81.	1.2	271
30	Importance of secondary sources in the atmospheric budgets of formic and acetic acids. Atmospheric Chemistry and Physics, 2011, 11, 1989-2013.	1.9	266
31	Improvement of the retrieval algorithm for GOSAT SWIR XCO₂ and XCH₄ and their validation using TCCON data. Atmospheric Measurement Techniques, 2013, 6, 1533-1547.	1.2	261
32	Comparisons of the Orbiting Carbon Observatory-2 (OCO-2) <i>X</i>_{CO₂} measurements with TCCON. Atmospheric Measurement Techniques, 2017, 10, 2209-2238.	1.2	252
33	Nitrogen oxides and PAN in plumes from boreal fires during ARCTAS-B and their impact on ozone: an integrated analysis of aircraft and satellite observations. Atmospheric Chemistry and Physics, 2010, 10, 9739-9760.	1.9	234
34	Chemical Composition of Gas- and Aerosol-Phase Products from the Photooxidation of Naphthalene. Journal of Physical Chemistry A, 2010, 114, 913-934.	1.1	233
35	Estimating global and North American methane emissions with high spatial resolution using GOSAT satellite data. Atmospheric Chemistry and Physics, 2015, 15, 7049-7069.	1.9	225
36	Carbon dioxide column abundances at the Wisconsin Tall Tower site. Journal of Geophysical Research, 2006, 111, .	3.3	224

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37	Chemistry of hydrogen oxide radicals (HO_x) in the Arctic troposphere in spring. Atmospheric Chemistry and Physics, 2010, 10, 5823-5838.	1.9	220
38	Preliminary validation of column-averaged volume mixing ratios of carbon dioxide and methane retrieved from GOSAT short-wavelength infrared spectra. Atmospheric Measurement Techniques, 2011, 4, 1061-1076.	1.2	217
39	Sources, seasonality, and trends of southeast US aerosol: an integrated analysis of surface, aircraft, and satellite observations with the GEOS-Chem chemical transport model. Atmospheric Chemistry and Physics, 2015, 15, 10411-10433.	1.9	217
40	Kinetics and Products of the Acid-Catalyzed Ring-Opening of Atmospherically Relevant Butyl Epoxy Alcohols. Journal of Physical Chemistry A, 2010, 114, 8106-8113.	1.1	213
41	Ozone and organic nitrates over the eastern United States: Sensitivity to isoprene chemistry. Journal of Geophysical Research D: Atmospheres, 2013, 118, 11,256.	1.2	213
42	Ambiguity in the causes for decadal trends in atmospheric methane and hydroxyl. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5367-5372.	3.3	213
43	Chemistry of HOx radicals in the upper troposphere. Atmospheric Environment, 2001, 35, 469-489.	1.9	211
44	Methane observations from the Greenhouse Gases Observing SATellite: Comparison to groundâ€based TCCON data and model calculations. Geophysical Research Letters, 2011, 38, .	1.5	211
45	Insights into hydroxyl measurements and atmospheric oxidation in a California forest. Atmospheric Chemistry and Physics, 2012, 12, 8009-8020.	1.9	211
46	Boreal forest fire emissions in fresh Canadian smoke plumes: C₁-C₁₀ volatile organic compounds (VOCs), CO₂, CO, NO₂, NO, HCN and CH₃CN. Atmospheric Chemistry and Physics, 2011, 11, 6445-6463.	1.9	209
47	Emissions of greenhouse gases from a North American megacity. Geophysical Research Letters, 2009, 36, .	1.5	208
48	Sensitivity of ozone to bromine in the lower stratosphere. Geophysical Research Letters, 2005, 32, .	1.5	207
49	Emissions from forest fires near Mexico City. Atmospheric Chemistry and Physics, 2007, 7, 5569-5584.	1.9	205
50	Contribution of isoprene-derived organosulfates to free tropospheric aerosol mass. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21360-21365.	3.3	203
51	Organic aerosol formation from the reactive uptake of isoprene epoxydiols (IEPOX) onto non-acidified inorganic seeds. Atmospheric Chemistry and Physics, 2014, 14, 3497-3510.	1.9	201
52	Daily and 3-hourly variability in global fire emissions and consequences for atmospheric model predictions of carbon monoxide. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	200
53	The photochemistry of acetone in the upper troposphere: A source of odd-hydrogen radicals. Geophysical Research Letters, 1997, 24, 3177-3180.	1.5	193
54	Rapid deposition of oxidized biogenic compounds to a temperate forest. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E392-401.	3.3	192

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55	Role of aldehyde chemistry and NO_x concentrations in secondary organic aerosol formation. Atmospheric Chemistry and Physics, 2010, 10, 7169-7188.	1.9	190
56	Improved retrievals of carbon dioxide from Orbiting Carbon Observatory-2 with the version 8 ACOS algorithm. Atmospheric Measurement Techniques, 2018, 11, 6539-6576.	1.2	188
57	Airborne measurements of western U.S. wildfire emissions: Comparison with prescribed burning and air quality implications. Journal of Geophysical Research D: Atmospheres, 2017, 122, 6108-6129.	1.2	184
58	Secondary organic aerosol formation from biomass burning intermediates: phenol and methoxyphenols. Atmospheric Chemistry and Physics, 2013, 13, 8019-8043.	1.9	181
59	The Orbiting Carbon Observatory-2: first 18Âmonths of science data products. Atmospheric Measurement Techniques, 2017, 10, 549-563.	1.2	180
60	Atmospheric fates of Criegee intermediates in the ozonolysis of isoprene. Physical Chemistry Chemical Physics, 2016, 18, 10241-10254.	1.3	179
61	Organic nitrate chemistry and its implications for nitrogen budgets in an isoprene- and monoterpene-rich atmosphere: constraints from aircraft (SEAC⁴RS) and ground-based (SOAS) observations in the Southeast US. Atmospheric Chemistry and Physics, 2016, 16, 5969-5991.	1.9	173
62	Formation of Low Volatility Organic Compounds and Secondary Organic Aerosol from Isoprene Hydroxyhydroperoxide Low-NO Oxidation. Environmental Science & Technology, 2015, 49, 10330-10339.	4.6	172
63	Atmospheric Fate of Methacrolein. 1. Peroxy Radical Isomerization Following Addition of OH and O₂. Journal of Physical Chemistry A, 2012, 116, 5756-5762.	1.1	166
64	Emission Measurements of the Concorde Supersonic Aircraft in the Lower Stratosphere. Science, 1995, 270, 70-74.	6.0	165
65	Characterization and Quantification of Isoprene-Derived Epoxydiols in Ambient Aerosol in the Southeastern United States. Environmental Science & Technology, 2010, 44, 4590-4596.	4.6	165
66	The Deep Convective Clouds and Chemistry (DC3) Field Campaign. Bulletin of the American Meteorological Society, 2015, 96, 1281-1309.	1.7	165
67	HO_{<i>x</i>} chemistry during INTEXâ€A 2004: Observation, model calculation, and comparison with previous studies. Journal of Geophysical Research, 2008, 113, .	3.3	163
68	Observed OH and HO2in the upper troposphere suggest a major source from convective injection of peroxides. Geophysical Research Letters, 1997, 24, 3181-3184.	1.5	160
69	The Orbiting Carbon Observatory-2 early science investigations of regional carbon dioxide fluxes. Science, 2017, 358, .	6.0	157
70	Retrieval of atmospheric CO₂with enhanced accuracy and precision from SCIAMACHY: Validation with FTS measurements and comparison with model results. Journal of Geophysical Research, 2011, 116, .	3.3	153
71	Sources of variations in total column carbon dioxide. Atmospheric Chemistry and Physics, 2011, 11, 3581-3593.	1.9	149
72	Gas Phase Production and Loss of Isoprene Epoxydiols. Journal of Physical Chemistry A, 2014, 118, 1237-1246.	1.1	149

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73	Atmospheric autoxidation is increasingly important in urban and suburban North America. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 64-69.	3.3	149
74	New constraints on Northern Hemisphere growing season net flux. Geophysical Research Letters, 2007, 34, .	1.5	147
75	Space-based near-infrared CO2 measurements: Testing the Orbiting Carbon Observatory retrieval algorithm and validation concept using SCIAMACHY observations over Park Falls, Wisconsin. Journal of Geophysical Research, 2006, 111, .	3.3	146
76	Biomass burning and urban air pollution over the Central Mexican Plateau. Atmospheric Chemistry and Physics, 2009, 9, 4929-4944.	1.9	138
77	Î±-pinene photooxidation under controlled chemical conditions â€“ Part 2: SOA yield and composition in low- and high-NO_x environments. Atmospheric Chemistry and Physics, 2012, 12, 7413-7427.	1.9	133
78	Pollution influences on atmospheric composition and chemistry at high northern latitudes: Boreal and California forest fire emissions. Atmospheric Environment, 2010, 44, 4553-4564.	1.9	131
79	Total column CO₂ measurements at Darwin, Australia â€“ site description and calibration against in situ aircraft profiles. Atmospheric Measurement Techniques, 2010, 3, 947-958.	1.2	131
80	On the Sources of Methane to the Los Angeles Atmosphere. Environmental Science & Technology, 2012, 46, 9282-9289.	4.6	126
81	Organic nitrate aerosol formation via NO₃ + biogenic volatile organic compounds in the southeastern United States. Atmospheric Chemistry and Physics, 2015, 15, 13377-13392.	1.9	124
82	Planning, implementation, and first results of the Tropical Composition, Cloud and Climate Coupling Experiment (TC4). Journal of Geophysical Research, 2010, 115, .	3.3	120
83	Calibration of TCCON column-averaged CO₂: the first aircraft campaign over European TCCON sites. Atmospheric Chemistry and Physics, 2011, 11, 10765-10777.	1.9	120
84	Inferring regional sources and sinks of atmospheric CO₂ from GOSAT XCO₂ data. Atmospheric Chemistry and Physics, 2014, 14, 3703-3727.	1.9	120
85	Direct Measurements of the Convective Recycling of the Upper Troposphere. Science, 2007, 315, 816-820.	6.0	114
86	Processâ€evaluation of tropospheric humidity simulated by general circulation models using water vapor isotopologues: 1. Comparison between models and observations. Journal of Geophysical Research, 2012, 117, .	3.3	114
87	Isoprene Peroxy Radical Dynamics. Journal of the American Chemical Society, 2017, 139, 5367-5377.	6.6	114
88	Observational Insights into Aerosol Formation from Isoprene. Environmental Science & Technology, 2013, 47, 11403-11413.	4.6	113
89	The Orbiting Carbon Observatory (OCO-2): spectrometer performance evaluation using pre-launch direct sun measurements. Atmospheric Measurement Techniques, 2015, 8, 301-313.	1.2	113
90	The Greenhouse Gas Climate Change Initiative (GHG-CCI): Comparison and quality assessment of near-surface-sensitive satellite-derived CO2 and CH4 global data sets. Remote Sensing of Environment, 2015, 162, 344-362.	4.6	112

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91	Impact of the isoprene photochemical cascade on tropical ozone. Atmospheric Chemistry and Physics, 2012, 12, 1307-1325.	1.9	111
92	Kinetics and Products of the Reaction of the First-Generation Isoprene Hydroxy Hydroperoxide (ISOPOOH) with OH. Journal of Physical Chemistry A, 2016, 120, 1441-1451.	1.1	111
93	Mechanism of the hydroxyl radical oxidation of methacryloyl peroxynitrate (MPAN) and its pathway toward secondary organic aerosol formation in the atmosphere. Physical Chemistry Chemical Physics, 2015, 17, 17914-17926.	1.3	108
94	Comparison of chemical characteristics of 495 biomass burning plumes intercepted by the NASA DC-8 aircraft during the ARCTAS/CARB-2008 field campaign. Atmospheric Chemistry and Physics, 2011, 11, 13325-13337.	1.9	106
95	Understanding the impact of recent advances in isoprene photooxidation on simulations of regional air quality. Atmospheric Chemistry and Physics, 2013, 13, 8439-8455.	1.9	106
96	Extreme deuterium enrichment in stratospheric hydrogen and the global atmospheric budget of H2. Nature, 2003, 424, 918-921.	13.7	105
97	Methane retrieved from TROPOMI: improvement of the data product and validation of the first 2 years of measurements. Atmospheric Measurement Techniques, 2021, 14, 665-684.	1.2	104
98	On Rates and Mechanisms of OH and O₃ Reactions with Isoprene-Derived Hydroxy Nitrates. Journal of Physical Chemistry A, 2014, 118, 1622-1637.	1.1	102
99	Production of O(Â^{1}D) from photolysis of O3. Geophysical Research Letters, 1994, 21, 2227-2230.	1.5	100
100	Observations of heterogeneous reactions between Asian pollution and mineral dust over the Eastern North Pacific during INTEX-B. Atmospheric Chemistry and Physics, 2009, 9, 8283-8308.	1.9	99
101	Conversion of hydroperoxides to carbonyls in field and laboratory instrumentation: Observational bias in diagnosing pristine versus anthropogenically controlled atmospheric chemistry. Geophysical Research Letters, 2014, 41, 8645-8651.	1.5	99
102	How bias correction goes wrong: measurement of X_{CO₂} affected by erroneous surface pressure estimates. Atmospheric Measurement Techniques, 2019, 12, 2241-2259.	1.2	99
103	Aircraftâ€borne, laserâ€induced fluorescence instrument for the in situ detection of hydroxyl and hydroperoxyl radicals. Review of Scientific Instruments, 1994, 65, 1858-1876.	0.6	98
104	The imprint of surface fluxes and transport on variations in total column carbon dioxide. Biogeosciences, 2012, 9, 875-891.	1.3	98
105	Chemical ionization tandem mass spectrometer for the <i>in situ</i> measurement of methyl hydrogen peroxide. Review of Scientific Instruments, 2010, 81, 094102.	0.6	97
106	Analysis of ozone and nitric acid in spring and summer Arctic pollution using aircraft, ground-based, satellite observations and MOZART-4 model: source attribution and partitioning. Atmospheric Chemistry and Physics, 2012, 12, 237-259.	1.9	96
107	Airborne measurements of organosulfates over the continental U.S.. Journal of Geophysical Research D: Atmospheres, 2015, 120, 2990-3005.	1.2	96
108	Total observed organic carbon (TOOC) in the atmosphere: a synthesis of North American observations. Atmospheric Chemistry and Physics, 2008, 8, 2007-2025.	1.9	94

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109	ISS observations offer insights into plant function. Nature Ecology and Evolution, 2017, 1, 194.	3.4	94
110	Importance of biogenic precursors to the budget of organic nitrates: observations of multifunctional organic nitrates by CIMS and TD-LIF during BEARPEX 2009. Atmospheric Chemistry and Physics, 2012, 12, 5773-5785.	1.9	93
111	Î±-pinene photooxidation under controlled chemical conditions â€“ Part 1: Gas-phase composition in low- and high-NO_x environments. Atmospheric Chemistry and Physics, 2012, 12, 6489-6504.	1.9	93
112	Agricultural fires in the southeastern U.S. during SEAC⁴RS: Emissions of trace gases and particles and evolution of ozone, reactive nitrogen, and organic aerosol. Journal of Geophysical Research D: Atmospheres, 2016, 121, 7383-7414.	1.2	93
113	Photodissociation of Peroxynitric Acid in the Near-IR. Journal of Physical Chemistry A, 2002, 106, 3766-3772.	1.1	92
114	On the temperature dependence of organic reactivity, nitrogen oxides, ozone production, and the impact of emission controls in San Joaquin Valley, California. Atmospheric Chemistry and Physics, 2014, 14, 3373-3395.	1.9	92
115	Airborne observations of total RONO₂: new constraints on the yield and lifetime of isoprene nitrates. Atmospheric Chemistry and Physics, 2009, 9, 1451-1463.	1.9	91
116	Measured HDO/H2O ratios across the tropical tropopause. Geophysical Research Letters, 2003, 30, .	1.5	89
117	Formation of highly oxygenated low-volatility products from cresol oxidation. Atmospheric Chemistry and Physics, 2017, 17, 3453-3474.	1.9	89
118	OCO-3 early mission operations and initial (vEarly) XCO2 and SIF retrievals. Remote Sensing of Environment, 2020, 251, 112032.	4.6	89
119	Upper tropospheric ozone production from lightning NO<i>_x</i>â€impacted convection: Smoke ingestion case study from the DC3 campaign. Journal of Geophysical Research D: Atmospheres, 2015, 120, 2505-2523.	1.2	88
120	Atmospheric Fate of Methyl Vinyl Ketone: Peroxy Radical Reactions with NO and HO₂. Journal of Physical Chemistry A, 2015, 119, 4562-4572.	1.1	87
121	Summertime influence of Asian pollution in the free troposphere over North America. Journal of Geophysical Research, 2007, 112, .	3.3	86
122	Atmospheric greenhouse gases retrieved from SCIAMACHY: comparison to ground-based FTS measurements and model results. Atmospheric Chemistry and Physics, 2012, 12, 1527-1540.	1.9	86
123	Photolysis, OH reactivity and ozone reactivity of a proxy for isoprene-derived hydroperoxyenals (HPALDs). Physical Chemistry Chemical Physics, 2012, 14, 7276.	1.3	86
124	Isoprene NO₃ Oxidation Products from the RO₂ + HO₂ Pathway. Journal of Physical Chemistry A, 2015, 119, 10158-10171.	1.1	86
125	Twilight observations suggest unknown sources of HOx. Geophysical Research Letters, 1999, 26, 1373-1376.	1.5	85
126	Global CO₂fluxes inferred from surface air-sample measurements and from TCCON retrievals of the CO₂total column. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	85

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127	First Spectroscopic Observation of Gas-Phase HOONO. Journal of Physical Chemistry A, 2002, 106, 855-859.	1.1	82
128	Reducing the impact of source brightness fluctuations on spectra obtained by Fourier-transform spectrometry. Applied Optics, 2007, 46, 4774.	2.1	80
129	Consistent evaluation of ACOS-GOSAT, BESD-SCIAMACHY, CarbonTracker, and MACC through comparisons to TCCON. Atmospheric Measurement Techniques, 2016, 9, 683-709.	1.2	80
130	Towards constraints on fossil fuel emissions from total column carbon dioxide. Atmospheric Chemistry and Physics, 2013, 13, 4349-4357.	1.9	79
131	Constraints on Aerosol Nitrate Photolysis as a Potential Source of HONO and NO_{<i>x</i>}. Environmental Science & Technology, 2018, 52, 13738-13746.	4.6	79
132	The diurnal variation of hydrogen, nitrogen, and chlorine radicals: Implications for the heterogeneous production of HNO2. Geophysical Research Letters, 1994, 21, 2551-2554.	1.5	76
133	Criegee Intermediates React with Ozone. Journal of Physical Chemistry Letters, 2013, 4, 2525-2529.	2.1	76
134	Observations of total RONO₂ over the boreal forest: NO_x sinks and HNO₃ sources. Atmospheric Chemistry and Physics, 2013, 13, 4543-4562.	1.9	76
135	Atmospheric CO2retrieved from ground-based near IR solar spectra. Geophysical Research Letters, 2002, 29, 53-1-53-4.	1.5	75
136	Observation of isoprene hydroxynitrates in the southeastern United States and implications for the fate of NO_{<i>x</i>}. Atmospheric Chemistry and Physics, 2015, 15, 11257-11272.	1.9	75
137	The lifetime of nitrogen oxides in an isoprene-dominated forest. Atmospheric Chemistry and Physics, 2016, 16, 7623-7637.	1.9	75
138	Differential column measurements using compact solar-tracking spectrometers. Atmospheric Chemistry and Physics, 2016, 16, 8479-8498.	1.9	75
139	Mapping carbon monoxide pollution from space down to city scales with daily global coverage. Atmospheric Measurement Techniques, 2018, 11, 5507-5518.	1.2	75
140	Unimolecular Reactions of Peroxy Radicals Formed in the Oxidation of Î±-Pinene and Î²-Pinene by Hydroxyl Radicals. Journal of Physical Chemistry A, 2019, 123, 1661-1674.	1.1	75
141	Forecasting global atmospheric CO₂. Atmospheric Chemistry and Physics, 2014, 14, 11959-11983.	1.9	74
142	Peroxy radical chemistry and OH radical production during the NO₃-initiated oxidation of isoprene. Atmospheric Chemistry and Physics, 2012, 12, 7499-7515.	1.9	72
143	The distribution of hydrogen, nitrogen, and chlorine radicals in the lower stratosphere: Implications for changes in O3due to emission of NOyfrom supersonic aircraft. Geophysical Research Letters, 1994, 21, 2547-2550.	1.5	67
144	Rethinking Ozone Production. Science, 2008, 319, 1624-1625.	6.0	65

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145	Tropospheric methane retrieved from ground-based near-IR solar absorption spectra. Geophysical Research Letters, 2003, 30, n/a-n/a.	1.5	64
146	Rapid Hydrogen Shift Scrambling in Hydroperoxy-Substituted Organic Peroxy Radicals. Journal of Physical Chemistry A, 2016, 120, 266-275.	1.1	62
147	Synthesis of the Southeast Atmosphere Studies: Investigating Fundamental Atmospheric Chemistry Questions. Bulletin of the American Meteorological Society, 2018, 99, 547-567.	1.7	62
148	A comparison of observations and model simulations of NOx/NOyin the lower stratosphere. Geophysical Research Letters, 1999, 26, 1153-1156.	1.5	61
149	A tropical West Pacific OH minimum and implications for stratospheric composition. Atmospheric Chemistry and Physics, 2014, 14, 4827-4841.	1.9	60
150	Overview of the Focused Isoprene eXperiment at the California Institute of Technology (FIXCIT): mechanistic chamber studies on the oxidation of biogenic compounds. Atmospheric Chemistry and Physics, 2014, 14, 13531-13549.	1.9	60
151	Identification of OSSO as a nearâ€UV absorber in the Venusian atmosphere. Geophysical Research Letters, 2016, 43, 11,146.	1.5	60
152	SOA formation from the photooxidation ofÂ<i>Î±</i>-pinene: systematic exploration ofÂthe simulation ofÂchamber data. Atmospheric Chemistry and Physics, 2016, 16, 2785-2802.	1.9	60
153	Sensitivity to grid resolution in the ability of a chemical transport model to simulate observed oxidant chemistry under high-isoprene conditions. Atmospheric Chemistry and Physics, 2016, 16, 4369-4378.	1.9	60
154	Patterns of CO₂and radiocarbon across high northern latitudes during International Polar Year 2008. Journal of Geophysical Research, 2011, 116, .	3.3	59
155	Emissions of organic carbon and methane from petroleum and dairy operations in California's San Joaquin Valley. Atmospheric Chemistry and Physics, 2014, 14, 4955-4978.	1.9	59
156	Speciation of OH reactivity above the canopy of an isoprene-dominated forest. Atmospheric Chemistry and Physics, 2016, 16, 9349-9359.	1.9	59
157	Atmospheric Fate of Methacrolein. 2. Formation of Lactone and Implications for Organic Aerosol Production. Journal of Physical Chemistry A, 2012, 116, 5763-5768.	1.1	58
158	Water vapor isotopologue retrievals from high-resolution GOSAT shortwave infrared spectra. Atmospheric Measurement Techniques, 2013, 6, 263-274.	1.2	58
159	Mapping hydroxyl variability throughout the global remote troposphere via synthesis of airborne and satellite formaldehyde observations. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 11171-11180.	3.3	58
160	Kinetics of reactions of ground state nitrogen atoms (4S3/2) with NO and NO2. Journal of Geophysical Research, 1994, 99, 18839.	3.3	57
161	Ozone production chemistry in the presence of urban plumes. Faraday Discussions, 2016, 189, 169-189.	1.6	56
162	Lightning NO_{<i>x</i>} Emissions: Reconciling Measured and Modeled Estimates With Updated NO_{<i>x</i>} Chemistry. Geophysical Research Letters, 2017, 44, 9479-9488.	1.5	56

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163	Southern California megacity CO₂, CH₄, and CO flux estimates using ground- and space-based remote sensing and a Lagrangian model. Atmospheric Chemistry and Physics, 2018, 18, 16271-16291.	1.9	56
164	An analysis of large HNO3-containing particles sampled in the Arctic stratosphere during the winter of 1999/2000. Journal of Geophysical Research, 2002, 107, SOL 41-1.	3.3	55
165	Measurement of atmospheric nitrous acid at Bodgett Forest during BEARPEX2007. Atmospheric Chemistry and Physics, 2010, 10, 6283-6294.	1.9	55
166	Cis-cis and trans-perp HOONO: Action spectroscopy and isomerization kinetics. Journal of Chemical Physics, 2004, 121, 1432-1448.	1.2	54
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