

# Paul O Wennberg

## 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.

391  
papers

27,792  
citations

88  
h-index

155  
g-index

459  
ext. papers

32,125  
ext. citations

7.2  
avg, IF

6.6  
L-index

#	Paper	IF	Citations
391	Emission factors for open and domestic biomass burning for use in atmospheric models. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 4039-4072	6.8	1136
390	An atmospheric perspective on North American carbon dioxide exchange: CarbonTracker. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 18925-30	11.5	737
389	Unexpected epoxide formation in the gas-phase photooxidation of isoprene. <i>Science</i> , <b>2009</b> , 325, 730-3	33.3	726
388	Reactive intermediates revealed in secondary organic aerosol formation from isoprene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 6640-5	11.5	718
387	The total carbon column observing network. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2011</b> , 369, 2087-112	3	690
386	The Orbiting Carbon Observatory (OCO) mission. <i>Advances in Space Research</i> , <b>2004</b> , 34, 700-709	2.4	480
385	The ACOS CO <sub>2</sub> retrieval algorithm [Part 1: Description and validation against synthetic observations. <i>Atmospheric Measurement Techniques</i> , <b>2012</b> , 5, 99-121	4	400
384	Isoprene photooxidation: new insights into the production of acids and organic nitrates. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 1479-1501	6.8	391
383	Fast airborne aerosol size and chemistry measurements above Mexico City and Central Mexico during the MILAGRO campaign. <i>Atmospheric Chemistry and Physics</i> , <b>2008</b> , 8, 4027-4048	6.8	361
382	Emissions from biomass burning in the Yucatan. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 5785-5812	6.8	358
381	Autoxidation of Organic Compounds in the Atmosphere. <i>Journal of Physical Chemistry Letters</i> , <b>2013</b> , 4, 3513-3520	6.4	347
380	Calibration of the Total Carbon Column Observing Network using aircraft profile data. <i>Atmospheric Measurement Techniques</i> , <b>2010</b> , 3, 1351-1362	4	345
379	Effect of NO <sub>x</sub> level on secondary organic aerosol (SOA) formation from the photooxidation of terpenes. <i>Atmospheric Chemistry and Physics</i> , <b>2007</b> , 7, 5159-5174	6.8	340
378	Removal of Stratospheric O <sub>3</sub> by Radicals: In Situ Measurements of OH, HO <sub>2</sub> , NO, NO <sub>2</sub> , ClO, and BrO. <i>Science</i> , <b>1994</b> , 266, 398-404	33.3	336
377	Hydrogen radicals, nitrogen radicals, and the production of O <sub>3</sub> in the upper troposphere. <i>Science</i> , <b>1998</b> , 279, 49-53	33.3	300
376	Toward accurate CO <sub>2</sub> and CH <sub>4</sub> observations from GOSAT. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	280
375	Investigation of the sources and processing of organic aerosol over the Central Mexican Plateau from aircraft measurements during MILAGRO. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 5257-5280	6.8	279

374	Precision requirements for space-based data. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		269
373	Peroxy radical isomerization in the oxidation of isoprene. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 13607-13	3.6	267
372	Highly Oxygenated Organic Molecules (HOM) from Gas-Phase Autoxidation Involving Peroxy Radicals: A Key Contributor to Atmospheric Aerosol. <i>Chemical Reviews</i> , <b>2019</b> , 119, 3472-3509	68.1	262
371	Measurement of gas-phase hydroperoxides by chemical ionization mass spectrometry. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 6726-32	7.8	259
370	Secondary organic aerosol (SOA) formation from reaction of isoprene with nitrate radicals (NO <sub>3</sub> ). <i>Atmospheric Chemistry and Physics</i> , <b>2008</b> , 8, 4117-4140	6.8	255
369	The detection of large HNO <sub>3</sub> -containing particles in the winter Arctic stratosphere. <i>Science</i> , <b>2001</b> , 291, 1026-31	33.3	251
368	Secondary organic aerosol formation from photooxidation of naphthalene and alkylnaphthalenes: implications for oxidation of intermediate volatility organic compounds (IVOCs). <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 3049-3060	6.8	245
367	Why do Models Overestimate Surface Ozone in the Southeastern United States?. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 13561-13577	6.8	239
366	The ACOS CO <sub>2</sub> retrieval algorithm [Part II: Global XCO <sub>2</sub> data characterization]. <i>Atmospheric Measurement Techniques</i> , <b>2012</b> , 5, 687-707	4	239
365	Importance of secondary sources in the atmospheric budgets of formic and acetic acids. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 1989-2013	6.8	226
364	A method for evaluating bias in global measurements of CO <sub>2</sub> total columns from space. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 12317-12337	6.8	225
363	Gas-Phase Reactions of Isoprene and Its Major Oxidation Products. <i>Chemical Reviews</i> , <b>2018</b> , 118, 3337-3380	38.1	211
362	Carbon dioxide column abundances at the Wisconsin Tall Tower site. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		202
361	Chemical composition of gas- and aerosol-phase products from the photooxidation of naphthalene. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 913-34	2.8	200
360	Chemistry of HO <sub>x</sub> radicals in the upper troposphere. <i>Atmospheric Environment</i> , <b>2001</b> , 35, 469-489	5.3	195
359	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. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 9739-9760	6.8	188
358	Sensitivity of ozone to bromine in the lower stratosphere. <i>Geophysical Research Letters</i> , <b>2005</b> , 32,	4.9	188
357	Chemistry of hydrogen oxide radicals (HO <sub>x</sub> ) in the Arctic troposphere in spring. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 5823-5838	6.8	184

356	Emissions from forest fires near Mexico City. <i>Atmospheric Chemistry and Physics</i> , <b>2007</b> , 7, 5569-5584	6.8	183
355	Ozone and organic nitrates over the eastern United States: Sensitivity to isoprene chemistry. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 11,256-11,268	4.4	182
354	Kinetics and products of the acid-catalyzed ring-opening of atmospherically relevant butyl epoxy alcohols. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 8106-13	2.8	182
353	Methane observations from the Greenhouse Gases Observing SATellite: Comparison to ground-based TCCON data and model calculations. <i>Geophysical Research Letters</i> , <b>2011</b> , 38,	4.9	181
352	Improvement of the retrieval algorithm for GOSAT SWIR XCO <sub>2</sub> and XCH <sub>4</sub> and their validation using TCCON data. <i>Atmospheric Measurement Techniques</i> , <b>2013</b> , 6, 1533-1547	4	180
351	Boreal forest fire emissions in fresh Canadian smoke plumes: C <sub>1</sub> -C <sub>10</sub> volatile organic compounds (VOCs), CO <sub>2</sub> , CO, NO <sub>2</sub> , NO, HCN and CH <sub>3</sub> . <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 1115-1128	6.8	178
350	Insights into hydroxyl measurements and atmospheric oxidation in a California forest. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 8009-8020	6.8	175
349	Emissions of greenhouse gases from a North American megacity. <i>Geophysical Research Letters</i> , <b>2009</b> , 36, n/a-n/a	4.9	175
348	Preliminary validation of column-averaged volume mixing ratios of carbon dioxide and methane retrieved from GOSAT short-wavelength infrared spectra. <i>Atmospheric Measurement Techniques</i> , <b>2011</b> , 4, 1061-1076	4	174
347	The photochemistry of acetone in the upper troposphere: A source of odd-hydrogen radicals. <i>Geophysical Research Letters</i> , <b>1997</b> , 24, 3177-3180	4.9	174
346	Contribution of isoprene-derived organosulfates to free tropospheric aerosol mass. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 21360-5	11.5	173
345	Organic aerosol formation from the reactive uptake of isoprene epoxydiols (IEPOX) onto non-acidified inorganic seeds. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 3497-3510	6.8	172
344	The on-orbit performance of the Orbiting Carbon Observatory-2 (OCO-2) instrument and its radiometrically calibrated products. <i>Atmospheric Measurement Techniques</i> , <b>2017</b> , 10, 59-81	4	170
343	Sources, seasonality, and trends of southeast US aerosol: an integrated analysis of surface, aircraft, and satellite observations with the GEOS-Chem chemical transport model. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 10411-10433	6.8	168
342	Daily and 3-hourly variability in global fire emissions and consequences for atmospheric model predictions of carbon monoxide. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a		165
341	Estimating global and North American methane emissions with high spatial resolution using GOSAT satellite data. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 7049-7069	6.8	163
340	Role of aldehyde chemistry and NO <sub>x</sub> concentrations in secondary organic aerosol formation. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 7169-7188	6.8	162
339	Ambiguity in the causes for decadal trends in atmospheric methane and hydroxyl. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 5367-5372	11.5	161

338	Comparisons of the Orbiting Carbon Observatory-2 (OCO-2) $\delta^{13}C_{CO_2}$ measurements with TCCON. <i>Atmospheric Measurement Techniques</i> , <b>2017</b> , 10, 2209-2238	4	161
337	Emission Measurements of the Concorde Supersonic Aircraft in the Lower Stratosphere. <i>Science</i> , <b>1995</b> , 270, 70-74	33.3	151
336	Rapid deposition of oxidized biogenic compounds to a temperate forest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E392-401	11.5	146
335	Atmospheric fate of methacrolein. 1. Peroxy radical isomerization following addition of OH and O <sub>2</sub> . <i>Journal of Physical Chemistry A</i> , <b>2012</b> , 116, 5756-62	2.8	145
334	Observed OH and HO <sub>2</sub> in the upper troposphere suggest a major source from convective injection of peroxides. <i>Geophysical Research Letters</i> , <b>1997</b> , 24, 3181-3184	4.9	143
333	Characterization and quantification of isoprene-derived epoxydiols in ambient aerosol in the southeastern United States. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 4590-6	10.3	142
332	HO <sub>x</sub> chemistry during INTEX-A 2004: Observation, model calculation, and comparison with previous studies. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		142
331	The Deep Convective Clouds and Chemistry (DC3) Field Campaign. <i>Bulletin of the American Meteorological Society</i> , <b>2015</b> , 96, 1281-1309	6.1	140
330	Formation of Low Volatility Organic Compounds and Secondary Organic Aerosol from Isoprene Hydroxyhydroperoxide Low-NO Oxidation. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 10330-9	10.3	139
329	Secondary organic aerosol formation from biomass burning intermediates: phenol and methoxyphenols. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 8019-8043	6.8	134
328	The Orbiting Carbon Observatory-2: first 18 months of science data products. <i>Atmospheric Measurement Techniques</i> , <b>2017</b> , 10, 549-563	4	132
327	Atmospheric fates of Criegee intermediates in the ozonolysis of isoprene. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 10241-54	3.6	130
326	New constraints on Northern Hemisphere growing season net flux. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	130
325	Organic nitrate chemistry and its implications for nitrogen budgets in an isoprene- and monoterpene-rich atmosphere: constraints from aircraft (SEACRS) and ground-based (SOAS) observations in the Southeast US. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 5969-5991	6.8	129
324	Space-based near-infrared CO <sub>2</sub> measurements: Testing the Orbiting Carbon Observatory retrieval algorithm and validation concept using SCIAMACHY observations over Park Falls, Wisconsin. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		127
323	Gas phase production and loss of isoprene epoxydiols. <i>Journal of Physical Chemistry A</i> , <b>2014</b> , 118, 1237-46	6.8	125
322	Retrieval of atmospheric CO <sub>2</sub> with enhanced accuracy and precision from SCIAMACHY: Validation with FTS measurements and comparison with model results. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		122
321	Biomass burning and urban air pollution over the Central Mexican Plateau. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 4929-4944	6.8	119

320	Sources of variations in total column carbon dioxide. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 3581-3593	117
319	Airborne measurements of western U.S. wildfire emissions: Comparison with prescribed burning and air quality implications. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 6108-6129	4.4 116
318	Total column CO <sub>2</sub> measurements at Darwin, Australia [site description and calibration against in situ aircraft profiles. <i>Atmospheric Measurement Techniques</i> , <b>2010</b> , 3, 947-958	4 116
317	Pollution influences on atmospheric composition and chemistry at high northern latitudes: Boreal and California forest fire emissions. <i>Atmospheric Environment</i> , <b>2010</b> , 44, 4553-4564	5.3 116
316	Improved retrievals of carbon dioxide from Orbiting Carbon Observatory-2 with the version 8 ACOS algorithm. <i>Atmospheric Measurement Techniques</i> , <b>2018</b> , 11, 6539-6576	4 116
315	The Orbiting Carbon Observatory-2 early science investigations of regional carbon dioxide fluxes. <i>Science</i> , <b>2017</b> , 358,	33.3 106
314	Planning, implementation, and first results of the Tropical Composition, Cloud and Climate Coupling Experiment (TC4). <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,	105
313	On the sources of methane to the Los Angeles atmosphere. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 9282-9	10.3 104
312	Atmospheric autoxidation is increasingly important in urban and suburban North America. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 64-69	11.5 101
311	Direct measurements of the convective recycling of the upper troposphere. <i>Science</i> , <b>2007</b> , 315, 816-20	33.3 101
310	Pinene photooxidation under controlled chemical conditions [Part 2: SOA yield and composition in low- and high-NO <sub>x</sub> environments. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 7413-7427	6.8 98
309	Calibration of TCCON column-averaged CO <sub>2</sub> : the first aircraft campaign over European TCCON sites. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 10765-10777	6.8 97
308	Observational insights into aerosol formation from isoprene. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 11403-13	10.3 95
307	Inferring regional sources and sinks of atmospheric CO <sub>2</sub> from GOSAT XCO <sub>2</sub> data. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 3703-3727	6.8 91
306	Impact of the isoprene photochemical cascade on tropical ozone. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 1307-1325	6.8 91
305	Organic nitrate aerosol formation via NO <sub>3</sub> + biogenic volatile organic compounds in the southeastern United States. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 13377-13392	6.8 90
304	Observations of heterogeneous reactions between Asian pollution and mineral dust over the Eastern North Pacific during INTEX-B. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 8283-8308	6.8 89
303	Mechanism of the hydroxyl radical oxidation of methacryloyl peroxyxynitrate (MPAN) and its pathway toward secondary organic aerosol formation in the atmosphere. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 17914-26	3.6 88

302	On rates and mechanisms of OH and O <sub>3</sub> reactions with isoprene-derived hydroxy nitrates. <i>Journal of Physical Chemistry A</i> , <b>2014</b> , 118, 1622-37	2.8	88
301	Importance of biogenic precursors to the budget of organic nitrates: observations of multifunctional organic nitrates by CIMS and TD-LIF during BEARPEX 2009. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 5773-5785	6.8	88
300	Aircraft-borne, laser-induced fluorescence instrument for the in situ detection of hydroxyl and hydroperoxyl radicals. <i>Review of Scientific Instruments</i> , <b>1994</b> , 65, 1858-1876	1.7	88
299	Production of O( <sup>1</sup> D) from photolysis of O <sub>3</sub> . <i>Geophysical Research Letters</i> , <b>1994</b> , 21, 2227-2230	4.9	87
298	The imprint of surface fluxes and transport on variations in total column carbon dioxide. <i>Biogeosciences</i> , <b>2012</b> , 9, 875-891	4.6	86
297	Comparison of chemical characteristics of 495 biomass burning plumes intercepted by the NASA DC-8 aircraft during the ARCTAS/CARB-2008 field campaign. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 13325-13337	6.8	86
296	Photodissociation of Peroxynitric Acid in the Near-IR. <i>Journal of Physical Chemistry A</i> , <b>2002</b> , 106, 3766-3778	8.8	86
295	Isoprene Peroxy Radical Dynamics. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 5367-5377	16.4	85
294	Extreme deuterium enrichment in stratospheric hydrogen and the global atmospheric budget of H <sub>2</sub> . <i>Nature</i> , <b>2003</b> , 424, 918-21	50.4	85
293	Kinetics and Products of the Reaction of the First-Generation Isoprene Hydroxy Hydroperoxide (ISOPOOH) with OH. <i>Journal of Physical Chemistry A</i> , <b>2016</b> , 120, 1441-51	2.8	84
292	Understanding the impact of recent advances in isoprene photooxidation on simulations of regional air quality. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 8439-8455	6.8	84
291	Chemical ionization tandem mass spectrometer for the in situ measurement of methyl hydrogen peroxide. <i>Review of Scientific Instruments</i> , <b>2010</b> , 81, 094102	1.7	84
290	Conversion of hydroperoxides to carbonyls in field and laboratory instrumentation: Observational bias in diagnosing pristine versus anthropogenically controlled atmospheric chemistry. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 8645-8651	4.9	83
289	The Orbiting Carbon Observatory (OCO-2): spectrometer performance evaluation using pre-launch direct sun measurements. <i>Atmospheric Measurement Techniques</i> , <b>2015</b> , 8, 301-313	4	82
288	Process-evaluation of tropospheric humidity simulated by general circulation models using water vapor isotopologues: 1. Comparison between models and observations. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		81
287	Total observed organic carbon (TOOC) in the atmosphere: a synthesis of North American observations. <i>Atmospheric Chemistry and Physics</i> , <b>2008</b> , 8, 2007-2025	6.8	81
286	Airborne observations of total RONO <sub>2</sub> : new constraints on the yield and lifetime of isoprene nitrates. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 1451-1463	6.8	80
285	The Greenhouse Gas Climate Change Initiative (GHG-CCI): Comparison and quality assessment of near-surface-sensitive satellite-derived CO <sub>2</sub> and CH <sub>4</sub> global data sets. <i>Remote Sensing of Environment</i> , <b>2015</b> , 162, 344-362	13.2	79

284	Airborne measurements of organosulfates over the continental U.S. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 2990-3005	4.4	77
283	Measured HDO/H <sub>2</sub> O ratios across the tropical tropopause. <i>Geophysical Research Letters</i> , <b>2003</b> , 30,	4.9	77
282	Photolysis, OH reactivity and ozone reactivity of a proxy for isoprene-derived hydroperoxyenals (HPALDs). <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 7276-86	3.6	76
281	First Spectroscopic Observation of Gas-Phase HOONO. <i>Journal of Physical Chemistry A</i> , <b>2002</b> , 106, 855-859	5.8	76
280	Twilight observations suggest unknown sources of HOx. <i>Geophysical Research Letters</i> , <b>1999</b> , 26, 1373-1376	4.9	76
279	Global CO <sub>2</sub> fluxes inferred from surface air-sample measurements and from TCCON retrievals of the CO <sub>2</sub> total column. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	74
278	Isoprene NO <sub>3</sub> Oxidation Products from the RO <sub>2</sub> + HO <sub>2</sub> Pathway. <i>Journal of Physical Chemistry A</i> , <b>2015</b> , 119, 10158-71	2.8	72
277	Atmospheric greenhouse gases retrieved from SCIAMACHY: comparison to ground-based FTS measurements and model results. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 1527-1540	6.8	72
276	Summertime influence of Asian pollution in the free troposphere over North America. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		72
275	Agricultural fires in the southeastern U.S. during SEAC4RS: Emissions of trace gases and particles and evolution of ozone, reactive nitrogen, and organic aerosol. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 7383-7414	4.4	71
274	ISS observations offer insights into plant function. <i>Nature Ecology and Evolution</i> , <b>2017</b> , 1, 194	12.3	70
273	The diurnal variation of hydrogen, nitrogen, and chlorine radicals: Implications for the heterogeneous production of HNO <sub>2</sub> . <i>Geophysical Research Letters</i> , <b>1994</b> , 21, 2551-2554	4.9	69
272	Upper tropospheric ozone production from lightning NO <sub>x</sub> -impacted convection: Smoke ingestion case study from the DC3 campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 2505-2523	4.4	68
271	Criegee Intermediates React with Ozone. <i>Journal of Physical Chemistry Letters</i> , <b>2013</b> , 4, 2525-2529	6.4	67
270	Pinene photooxidation under controlled chemical conditions [Part 1: Gas-phase composition in low- and high-NO <sub>x</sub> environments]. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 6489-6504	6.8	66
269	Reducing the impact of source brightness fluctuations on spectra obtained by Fourier-transform spectrometry. <i>Applied Optics</i> , <b>2007</b> , 46, 4774-9	1.7	66
268	Analysis of ozone and nitric acid in spring and summer Arctic pollution using aircraft, ground-based, satellite observations and MOZART-4 model: source attribution and partitioning. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 237-259	6.8	64
267	Atmospheric CO <sub>2</sub> retrieved from ground-based near IR solar spectra. <i>Geophysical Research Letters</i> , <b>2002</b> , 29, 53-1-53-4	4.9	64



266	How bias correction goes wrong: measurement of $X_{CO_2}$ affected by erroneous surface pressure estimates. <i>Atmospheric Measurement Techniques</i> , <b>2019</b> , 12, 2241-2259	4	62
265	Observation of isoprene hydroxynitrates in the southeastern United States and implications for the fate of $NO_x$ . <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 11257-11272	6.8	62
264	The distribution of hydrogen, nitrogen, and chlorine radicals in the lower stratosphere: Implications for changes in $O_3$ due to emission of $NO_y$ from supersonic aircraft. <i>Geophysical Research Letters</i> , <b>1994</b> , 21, 2547-2550	4.9	62
263	On the temperature dependence of organic reactivity, nitrogen oxides, ozone production, and the impact of emission controls in San Joaquin Valley, California. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 3373-3395	6.8	61
262	Consistent evaluation of ACOS-GOSAT, BESD-SCIAMACHY, CarbonTracker, and MACC through comparisons to TCCON. <i>Atmospheric Measurement Techniques</i> , <b>2016</b> , 9, 683-709	4	61
261	Atmospheric fate of methyl vinyl ketone: peroxy radical reactions with $NO$ and $HO_2$ . <i>Journal of Physical Chemistry A</i> , <b>2015</b> , 119, 4562-72	2.8	60
260	Formation of highly oxygenated low-volatility products from cresol oxidation. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 3453-3474	6.8	59
259	Observations of total $RONO_2$ over the boreal forest: $NO_x$ sinks and $HNO_3$ sources. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 4543-4562	6.8	57
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83	Characterization of OCO-2 and ACOS-GOSAT biases and errors for CO <sub>2</sub> flux estimates		6
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77	Observations of total RONO <sub>2</sub> over the boreal forest: NO <sub>x</sub> sinks and HNO <sub>3</sub> sources		5
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63	Peroxy radical chemistry and OH radical production during the NO <sub>3</sub> -initiated oxidation of isoprene		3
62	Emissions of organic carbon and methane from petroleum and dairy operations in California's San Joaquin Valley		3
61	Hydroxy nitrate production in the OH-initiated oxidation of alkenes		3
60	Emissions from biomass burning in the Yucatan		3
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48	Role of aldehyde chemistry and NO <sub>x</sub> concentrations in secondary organic aerosol formation	2
47	Comparison of the chemical evolution and characteristics of 495 biomass burning plumes intercepted by the NASA DC-8 aircraft during the ARCTAS/CARB-2008 field campaign	2
46	Pinene photooxidation under controlled chemical conditions [Part 1: Gas-phase composition in low- and high-NO <sub>x</sub> environments]	2
45	Organic aerosol formation from the reactive uptake of isoprene epoxydiols (IEPOX) onto non-acidified inorganic seeds	2
44	Forecasting global atmospheric CO <sub>2</sub>	2
43	Overview of the Focused Isoprene eXperiments at California Institute of Technology (FIXCIT): mechanistic chamber studies on the oxidation of biogenic compounds	2
42	The imprint of stratospheric transport on column-averaged methane	2
41	Airborne observations of total RONO <sub>2</sub> : new constraints on the yield and lifetime of isoprene nitrates	2
40	Observations of heterogeneous reactions between Asian pollution and mineral dust over the Eastern North Pacific during INTEX-B	2
39	Bias corrections of GOSAT SWIR XCO <sub>2</sub> and XCH <sub>4</sub> with TCCON data and their evaluation using aircraft measurement data	2
38	The On-Orbit Performance of the Orbiting Carbon Observatory-2 (OCO-2) Instrument and its Radiometrically Calibrated Products	2
37	Assessment of errors and biases in retrievals of X <sub>CO2</sub> , X <sub>CH4</sub> , X <sub>CO</sub> , and X <sub>N2O</sub> from a 0.5 cm <sup>2</sup> resolution solar viewing spectrometer	2
36	How bias correction goes wrong: Measurement of X <sub>CO2</sub> affected by erroneous surface pressure estimates	2
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19	Observation of isoprene hydroxynitrates in the Southeastern United States and implications for the fate of NO <sub>x</sub>		1
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10	Impact of the isoprene photochemical cascade on tropical ozone		1
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8	The covariation of Northern Hemisphere summertime CO <sub>2</sub> with surface temperature at boreal latitudes		1
7	Inferring regional sources and sinks of atmospheric CO <sub>2</sub> from GOSAT $\delta^{13}C_{CO_2}$ data		1
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