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	The NASA Atmospheric Tomography (ATom) Mission: Imaging the Chemistry of the Global Atmosphere. Bulletin of the American Meteorological Society, 2022, 103, E761-E790.	1.7	39
2	Observations of atmospheric oxidation and ozone production in South Korea. Atmospheric Environment, 2022, 269, 118854.	1.9	6
3	An 11-year record of XCO₂ estimates derived from GOSAT measurements using the NASA ACOS version 9 retrieval algorithm. Earth System Science Data, 2022, 14, 325-360.	3.7	17
4	H₂O₂and CH₃OOH (MHP) in the Remote Atmosphere: 2. Physical and Chemical Controls. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	7
5	H₂O₂ and CH₃OOH (MHP) in the Remote Atmosphere: 1. Global Distribution and Regional Influences. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	11
6	Photochemical evolution of the 2013 California Rim Fire: synergistic impacts of reactive hydrocarbons and enhanced oxidants. Atmospheric Chemistry and Physics, 2022, 22, 4253-4275.	1.9	9
7	Hydrotrioxide (ROOOH) formation in the atmosphere. Science, 2022, 376, 979-982.	6.0	16
8	Unimolecular Reactions Following Indoor and Outdoor Limonene Ozonolysis. Journal of Physical Chemistry A, 2021, 125, 669-680.	1.1	26
9	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
10	Regional and Urban Column CO Trends and Anomalies as Observed by MOPITT Over 16ÂYears. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033967.	1.2	10
11	Improvements to a laser-induced fluorescence instrument for measuring SO₂ â€" impact on accuracy and precision. Atmospheric Measurement Techniques, 2021, 14, 2429-2439.	1.2	5
12	Chemical transport models often underestimate inorganic aerosol acidity in remote regions of the atmosphere. Communications Earth & Environment, 2021, 2, .	2.6	32
13	Hydroxymethanesulfonate (HMS) Formation during Summertime Fog in an Arctic Oil Field. Environmental Science and Technology Letters, 2021, 8, 511-518.	3.9	9
14	Impact of stratospheric air and surface emissions on tropospheric nitrous oxide during ATom. Atmospheric Chemistry and Physics, 2021, 21, 11113-11132.	1.9	5
15	Boundary layer versus free tropospheric submicron particle formation: A case study from NASA DC-8 observations in the Asian continental outflow during the KORUS-AQ campaign. Atmospheric Research, 2021, 264, 105857.	1.8	4
16	FORest Canopy Atmosphere Transfer (FORCAsT) 2.0: model updates and evaluation with observations at a mixed forest site. Geoscientific Model Development, 2021, 14, 6309-6329.	1.3	4
17	Observations of Volatile Organic Compounds in the Los Angeles Basin during COVID-19. ACS Earth and Space Chemistry, 2021, 5, 3045-3055.	1.2	6
18	Societal shifts due to COVID-19 reveal large-scale complexities and feedbacks between atmospheric chemistry and climate change. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	42

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19	Ozone chemistry in western U.S. wildfire plumes. Science Advances, 2021, 7, eabl3648.	4.7	45
20	Exploring Oxidation in the Remote Free Troposphere: Insights From Atmospheric Tomography (ATom). Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031685.	1.2	23
21	OCO-3 early mission operations and initial (vEarly) XCO2 and SIF retrievals. Remote Sensing of Environment, 2020, 251, 112032.	4.6	89
22	Observational Constraints on the Response of Highâ€Latitude Northern Forests to Warming. AGU Advances, 2020, 1, e2020AV000228.	2.3	24
23	Impacts of Traffic Reductions Associated With COVIDâ€19 on Southern California Air Quality. Geophysical Research Letters, 2020, 47, e2020GL090164.	1.5	50
24	New Insights into the Radical Chemistry and Product Distribution in the OH-Initiated Oxidation of Benzene. Environmental Science & Technology, 2020, 54, 13467-13477.	4.6	32
25	Rapid hydrolysis of tertiary isoprene nitrate efficiently removes NO _x from the atmosphere. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 33011-33016.	3.3	34
26	Vertical Transport, Entrainment, and Scavenging Processes Affecting Trace Gases in a Modeled and Observed SEAC 4 RS Case Study. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031957.	1.2	5
27	Missing OH reactivity in the global marine boundary layer. Atmospheric Chemistry and Physics, 2020, 20, 4013-4029.	1.9	25
28	Improved Constraints on Northern Extratropical CO₂ Fluxes Obtained by Combining Surfaceâ€Based and Spaceâ€Based Atmospheric CO₂ Measurements. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD032029.	1.2	26
29	Cropland Carbon Uptake Delayed and Reduced by 2019 Midwest Floods. AGU Advances, 2020, 1, e2019AV000140.	2.3	41
30	Airborne formaldehyde and volatile organic compound measurements over the Daesan petrochemical complex on Koreaâ€™s northwest coast during the Korea-United States Air Quality study. Elementa, 2020, 8, .	1.1	21
31	Observation-based modeling of ozone chemistry in the Seoul metropolitan area during the Korea-United States Air Quality Study (KORUS-AQ). Elementa, 2020, 8, .	1.1	32
32	Characterization, sources and reactivity of volatile organic compounds (VOCs) in Seoul and surrounding regions during KORUS-AQ. Elementa, 2020, 8, .	1.1	44
33	Correcting model biases of CO in East Asia: impact on oxidant distributions during KORUS-AQ. Atmospheric Chemistry and Physics, 2020, 20, 14617-14647.	1.9	34
34	Constraining remote oxidation capacity with ATom observations. Atmospheric Chemistry and Physics, 2020, 20, 7753-7781.	1.9	36
35	A decade of GOSAT Proxy satellite CH₄ observations. Earth System Science Data, 2020, 12, 3383-3412.	3.7	53
36	Atmospheric Methane Emissions Correlate With Natural Gas Consumption From Residential and Commercial Sectors in Los Angeles. Geophysical Research Letters, 2019, 46, 8563-8571.	1.5	32

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37	Stereoselectivity in Atmospheric Autoxidation. Journal of Physical Chemistry Letters, 2019, 10, 6260-6266.	2.1	19
38	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
39	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
40	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
41	Atmospheric Acetaldehyde: Importance of Airâ€Sea Exchange and a Missing Source in the Remote Troposphere. Geophysical Research Letters, 2019, 46, 5601-5613.	1.5	41
42	Solar Occultation FTIR Spectrometry at Mars for Trace Gas Detection: A Sensitivity Study. Earth and Space Science, 2019, 6, 836-860.	1.1	3
43	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
44	Evaluation of MOPITT VersionÂ7 joint TIRâ€“NIR X_{CO} retrievals with TCCON. Atmospheric Measurement Techniques, 2019, 12, 5547-5572.	1.2	21
45	Intramolecular Hydrogen Shift Chemistry of Hydroperoxy-Substituted Peroxy Radicals. Journal of Physical Chemistry A, 2019, 123, 590-600.	1.1	31
46	Gas-Phase Reactions of Isoprene and Its Major Oxidation Products. Chemical Reviews, 2018, 118, 3337-3390.	23.0	339
47	Computational Comparison of Different Reagent Ions in the Chemical Ionization of Oxidized Multifunctional Compounds. Journal of Physical Chemistry A, 2018, 122, 269-279.	1.1	43
48	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
49	Synthesis of the Southeast Atmosphere Studies: Investigating Fundamental Atmospheric Chemistry Questions. Bulletin of the American Meteorological Society, 2018, 99, 547-567.	1.7	62
50	Decadal changes in summertime reactive oxidized nitrogen and surface ozone over the Southeast United States. Atmospheric Chemistry and Physics, 2018, 18, 2341-2361.	1.9	30
51	Intercomparison of OH and OH reactivity measurements in a high isoprene and low NO environment during the Southern Oxidant and Aerosol Study (SOAS). Atmospheric Environment, 2018, 174, 227-236.	1.9	22
52	Characteristics of greenhouse gas concentrations derived from ground-based FTS spectra at Anmyeondo, South Korea. Atmospheric Measurement Techniques, 2018, 11, 2361-2374.	1.2	7
53	Low-pressure gas chromatography with chemical ionization mass spectrometry for quantification of multifunctional organic compounds in the atmosphere. Atmospheric Measurement Techniques, 2018, 11, 6815-6832.	1.2	23
54	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

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55	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
56	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
57	Methane on Mars and Habitability: Challenges and Responses. Astrobiology, 2018, 18, 1221-1242.	1.5	50
58	Mapping carbon monoxide pollution from space down to city scales with daily global coverage. Atmospheric Measurement Techniques, 2018, 11, 5507-5518.	1.2	75
59	Kinetics and Product Yields of the OH Initiated Oxidation of Hydroxymethyl Hydroperoxide. Journal of Physical Chemistry A, 2018, 122, 6292-6302.	1.1	33
60	Observed NO/NO₂ Ratios in the Upper Troposphere Imply Errors in NOâ€NO₂â€O₃ Cycling Kinetics or an Unaccounted NO_x Reservoir. Geophysical Research Letters, 2018, 45, 4466-4474.	1.5	34
61	Global land mapping of satellite-observed CO₂ total columns using spatio-temporal geostatistics. International Journal of Digital Earth, 2017, 10, 426-456.	1.6	33
62	Isoprene Peroxy Radical Dynamics. Journal of the American Chemical Society, 2017, 139, 5367-5377.	6.6	114
63	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
64	ISS observations offer insights into plant function. Nature Ecology and Evolution, 2017, 1, 194.	3.4	94
65	Alkoxy Radical Bond Scissions Explain the Anomalously Low Secondary Organic Aerosol and Organonitrate Yields From Î±-Pinene + NO₃. Journal of Physical Chemistry Letters, 2017, 8, 2826-2834.	2.1	50
66	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
67	Science of the Environmental Chamber. , 2017, , 1-93.		12
68	The Orbiting Carbon Observatory-2 early science investigations of regional carbon dioxide fluxes. Science, 2017, 358, .	6.0	157
69	The Orbiting Carbon Observatory (OCO-2) tracks 2â€“3 peta-gram increase in carbon release to the atmosphere during the 2014â€“2016 El NiÃ±o. Scientific Reports, 2017, 7, 13567.	1.6	35
70	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
71	Aerosol scattering effects on water vapor retrievals over the Los Angeles Basin. Atmospheric Chemistry and Physics, 2017, 17, 2495-2508.	1.9	21
72	Formation of highly oxygenated low-volatility products from cresol oxidation. Atmospheric Chemistry and Physics, 2017, 17, 3453-3474.	1.9	89

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73	Methane emissions from dairies in the Los Angeles Basin. Atmospheric Chemistry and Physics, 2017, 17, 7509-7528.	1.9	45
74	The Orbiting Carbon Observatory-2: first 18Âmonths of science data products. Atmospheric Measurement Techniques, 2017, 10, 549-563.	1.2	180
75	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
76	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
77	Intercomparability of X_{CO₂} and X_{CH₄} from the United States TCCON sites. Atmospheric Measurement Techniques, 2017, 10, 1481-1493.	1.2	16
78	Emissions and topographic effects on column CO 2 () variations, with a focus on the Southern California Megacity. Journal of Geophysical Research D: Atmospheres, 2017, 122, 7200-7215.	1.2	22
79	Investigation of a potential HCHO measurement artifact from ISOPOOH. Atmospheric Measurement Techniques, 2016, 9, 4561-4568.	1.2	8
80	Bias corrections of GOSAT SWIR XCO₂ and XCH₄ with TCCON data and their evaluation using aircraft measurement data. Atmospheric Measurement Techniques, 2016, 9, 3491-3512.	1.2	40
81	Assessment of errors and biases in retrievals of X_{CO₂}, X_{CH₄}, X_{CO}, and X_{N₂O} from a 0.5 cm^{â€“1} resolution solar-viewing spectrometer. Atmospheric Mea	1.2	45
82	GFIT2: an experimental algorithm for vertical profile retrieval from near-IR spectra. Atmospheric Measurement Techniques, 2016, 9, 3513-3525.	1.2	24
83	Consistent evaluation of ACOS-GOSAT, BESD-SCIAMACHY, CarbonTracker, and MACC through comparisons to TCCON. Atmospheric Measurement Techniques, 2016, 9, 683-709.	1.2	80
84	Improved retrieval of gas abundances from near-infrared solar FTIR spectra measured at the Karlsruhe TCCON station. Atmospheric Measurement Techniques, 2016, 9, 669-682.	1.2	23
85	Comparison of XH2O Retrieved from GOSAT Short-Wavelength Infrared Spectra with Observations from the TCCON Network. Remote Sensing, 2016, 8, 414.	1.8	20
86	Ozone production chemistry in the presence of urban plumes. Faraday Discussions, 2016, 189, 169-189.	1.6	56
87	Testing Atmospheric Oxidation in an Alabama Forest. Journals of the Atmospheric Sciences, 2016, 73, 4699-4710.	0.6	54
88	Identification of OSSO as a nearâ€UV absorber in the Venusian atmosphere. Geophysical Research Letters, 2016, 43, 11,146.	1.5	60
89	Convective transport and scavenging of peroxides by thunderstorms observed over the central U.S. during DC3. Journal of Geophysical Research D: Atmospheres, 2016, 121, 4272-4295.	1.2	24
90	Seasonal variability of stratospheric methane: implications for constraining tropospheric methane budgets using total column observations. Atmospheric Chemistry and Physics, 2016, 16, 14003-14024.	1.9	24

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91	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
92	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
93	Why do models overestimate surface ozone in the Southeast United States?. Atmospheric Chemistry and Physics, 2016, 16, 13561-13577.	1.9	320
94	Quantifying the loss of processed natural gas within California's South Coast Air Basin using long-term measurements of ethane and methane. Atmospheric Chemistry and Physics, 2016, 16, 14091-14105.	1.9	48
95	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
96	The lifetime of nitrogen oxides in an isoprene-dominated forest. Atmospheric Chemistry and Physics, 2016, 16, 7623-7637.	1.9	75
97	Differential column measurements using compact solar-tracking spectrometers. Atmospheric Chemistry and Physics, 2016, 16, 8479-8498.	1.9	75
98	Speciation of OH reactivity above the canopy of an isoprene-dominated forest. Atmospheric Chemistry and Physics, 2016, 16, 9349-9359.	1.9	59
99	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
100	Wet scavenging of soluble gases in DC3 deep convective storms using WRFâ€Chem simulations and aircraft observations. Journal of Geophysical Research D: Atmospheres, 2016, 121, 4233-4257.	1.2	29
101	Simulating reactive nitrogen, carbon monoxide, and ozone in California during ARCTAS-CARB 2008 with high wildfire activity. Atmospheric Environment, 2016, 128, 28-44.	1.9	26
102	Rapid Hydrogen Shift Scrambling in Hydroperoxy-Substituted Organic Peroxy Radicals. Journal of Physical Chemistry A, 2016, 120, 266-275.	1.1	62
103	Atmospheric fates of Criegee intermediates in the ozonolysis of isoprene. Physical Chemistry Chemical Physics, 2016, 18, 10241-10254.	1.3	179
104	James G. Anderson Tribute. Journal of Physical Chemistry A, 2016, 120, 1317-1319.	1.1	0
105	Production and Fate of C₄ Dihydroxycarbonyl Compounds from Isoprene Oxidation. Journal of Physical Chemistry A, 2016, 120, 106-117.	1.1	38
106	Observational Constraints on the Oxidation of NOx in the Upper Troposphere. Journal of Physical Chemistry A, 2016, 120, 1468-1478.	1.1	23
107	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
108	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

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109	Hydroxy nitrate production in the OH-initiated oxidation of alkenes. Atmospheric Chemistry and Physics, 2015, 15, 4297-4316.	1.9	50
110	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
111	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
112	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
113	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
114	The Deep Convective Clouds and Chemistry (DC3) Field Campaign. Bulletin of the American Meteorological Society, 2015, 96, 1281-1309.	1.7	165
115	Quantifying sources and sinks of reactive gases in the lower atmosphere using airborne flux observations. Geophysical Research Letters, 2015, 42, 8231-8240.	1.5	53
116	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
117	Airborne measurements of organosulfates over the continental U.S.. Journal of Geophysical Research D: Atmospheres, 2015, 120, 2990-3005.	1.2	96
118	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
119	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
120	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
121	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
122	Isoprene NO₃ Oxidation Products from the RO₂ + HO₂ Pathway. Journal of Physical Chemistry A, 2015, 119, 10158-10171.	1.1	86
123	Correction of Ghosts in FTIR spectra. , 2015, , .		0
124	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
125	The impact of spectral resolution on satellite retrieval accuracy of CO₂ and CH₄. Atmospheric Measurement Techniques, 2014, 7, 1105-1119.	1.2	6
126	A method for colocating satellite <i>X</i>_{CO₂} data to ground-based data and its application to ACOS-GOSAT and TCCON. Atmospheric Measurement Techniques, 2014, 7, 2631-2644.	1.2	35

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127	Derivation of tropospheric methane from TCCON CH₄ and HF total column observations. Atmospheric Measurement Techniques, 2014, 7, 2907-2918.	1.2	28
128	Gas Phase Production and Loss of Isoprene Epoxydiols. Journal of Physical Chemistry A, 2014, 118, 1237-1246.	1.1	149
129	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
130	OH in the tropical upper troposphere and its relationships to solar radiation and reactive nitrogen. Journal of Atmospheric Chemistry, 2014, 71, 55-64.	1.4	14
131	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
132	A tropical West Pacific OH minimum and implications for stratospheric composition. Atmospheric Chemistry and Physics, 2014, 14, 4827-4841.	1.9	60
133	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
134	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
135	Inferring regional sources and sinks of atmospheric CO₂ from GOSAT XCO₂ data. Atmospheric Chemistry and Physics, 2014, 14, 3703-3727.	1.9	120
136	Quantification of hydroxyacetone and glycolaldehyde using chemical ionization mass spectrometry. Atmospheric Chemistry and Physics, 2014, 14, 4251-4262.	1.9	17
137	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
138	Drivers of column-average CO₂ variability at Southern Hemispheric Total Carbon Column Observing Network sites. Atmospheric Chemistry and Physics, 2014, 14, 9883-9901.	1.9	18
139	Forecasting global atmospheric CO₂. Atmospheric Chemistry and Physics, 2014, 14, 11959-11983.	1.9	74
140	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
141	Criegee Intermediates React with Ozone. Journal of Physical Chemistry Letters, 2013, 4, 2525-2529.	2.1	76
142	Autoxidation of Organic Compounds in the Atmosphere. Journal of Physical Chemistry Letters, 2013, 4, 3513-3520.	2.1	444
143	Observational Insights into Aerosol Formation from Isoprene. Environmental Science & Technology, 2013, 47, 11403-11413.	4.6	113
144	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

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145	Semi-autonomous sounding selection for OCO-2. Atmospheric Measurement Techniques, 2013, 6, 2851-2864.	1.2	29
146	Water vapor isotopologue retrievals from high-resolution GOSAT shortwave infrared spectra. Atmospheric Measurement Techniques, 2013, 6, 263-274.	1.2	58
147	Atmospheric Carbon Dioxide Variability in the Community Earth System Model: Evaluation and Transient Dynamics during the Twentieth and Twenty-First Centuries. Journal of Climate, 2013, 26, 4447-4475.	1.2	48
148	Evaluation of seasonal atmosphereâ€“biosphere exchange estimations with TCCON measurements. Atmospheric Chemistry and Physics, 2013, 13, 5103-5115.	1.9	28
149	Effects of atmospheric light scattering on spectroscopic observations of greenhouse gases from space. Part 2: Algorithm intercomparison in the GOSAT data processing for CO₂ retrievals over TCCON sites. Journal of Geophysical Research D: Atmospheres, 2013, 118, 1493-1512.	1.2	46
150	Towards constraints on fossil fuel emissions from total column carbon dioxide. Atmospheric Chemistry and Physics, 2013, 13, 4349-4357.	1.9	79
151	Secondary organic aerosol formation from biomass burning intermediates: phenol and methoxyphenols. Atmospheric Chemistry and Physics, 2013, 13, 8019-8043.	1.9	181
152	The covariation of Northern Hemisphere summertime CO₂ with surface temperature in boreal regions. Atmospheric Chemistry and Physics, 2013, 13, 9447-9459.	1.9	42
153	Simulations of column-averaged CO₂ and CH₄ using the NIES TM with a hybrid sigma-isentropic (Ïƒ-Î¸) vertical coordinate. Atmospheric Chemistry and Physics, 2013, 13, 1713-1732.	1.9	42
154	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
155	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
156	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
157	Calibration of sealed HCl cells used for TCCON instrumental line shape monitoring. Atmospheric Measurement Techniques, 2013, 6, 3527-3537.	1.2	36
158	Corrigendum to "The ACOS CO₂ retrieval algorithm â€“ Part 1: Description and validation against synthetic observations" published in Atmos. Meas. Tech., 5, 99â€“121, 2012. Atmospheric Measurement Techniques, 2012, 5, 193-193.	1.2	8
159	The ACOS CO₂ retrieval algorithm â€“ Part 1: Description and validation against synthetic observations. Atmospheric Measurement Techniques, 2012, 5, 99-121.	1.2	530
160	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
161	CH₄, CO, and H₂O spectroscopy for the Sentinel-5 Precursor mission: an assessment with the Total Carbon Column Observing Network measurements. Atmospheric Measurement Techniques, 2012, 5, 1387-1398.	1.2	26
162	The ACOS CO₂ retrieval algorithm â€“ Part II: Global X_{CO₂} data characterization. Atmospheric Measurement Techniques, 2012, 5, 687-707.	1.2	320

#	Article	IF	Citations
163	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
164	Impact of the deep convection of isoprene and other reactive trace species on radicals and ozone in the upper troposphere. Atmospheric Chemistry and Physics, 2012, 12, 1135-1150.	1.9	33
165	Impact of the isoprene photochemical cascade on tropical ozone. Atmospheric Chemistry and Physics, 2012, 12, 1307-1325.	1.9	111
166	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
167	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
168	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
169	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
170	Insights into hydroxyl measurements and atmospheric oxidation in a California forest. Atmospheric Chemistry and Physics, 2012, 12, 8009-8020.	1.9	211
171	An analysis of fast photochemistry over high northern latitudes during spring and summer using in-situ observations from ARCTAS and TOPSE. Atmospheric Chemistry and Physics, 2012, 12, 6799-6825.	1.9	38
172	Effects of atmospheric light scattering on spectroscopic observations of greenhouse gases from space: Validation of PPDFâ€based CO₂ retrievals from GOSAT. Journal of Geophysical Research, 2012, 117, .	3.3	42
173	Photolysis, OH reactivity and ozone reactivity of a proxy for isoprene-derived hydroperoxyenals (HPALDs). Physical Chemistry Chemical Physics, 2012, 14, 7276.	1.3	86
174	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
175	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
176	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
177	On the Sources of Methane to the Los Angeles Atmosphere. Environmental Science & Technology, 2012, 46, 9282-9289.	4.6	126
178	The imprint of surface fluxes and transport on variations in total column carbon dioxide. Biogeosciences, 2012, 9, 875-891.	1.3	98
179	Peroxy radical isomerization in the oxidation of isoprene. Physical Chemistry Chemical Physics, 2011, 13, 13607.	1.3	302
180	In situ measurements of tropospheric volcanic plumes in Ecuador and Colombia during TC⁴. Journal of Geophysical Research, 2011, 116, .	3.3	41

#	Article	IF	Citations
181	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
182	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
183	Toward accurate CO₂and CH₄observations from GOSAT. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	355
184	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
185	Patterns of CO₂and radiocarbon across high northern latitudes during International Polar Year 2008. Journal of Geophysical Research, 2011, 116, .	3.3	59
186	Can a â€œstate of the artâ€• chemistry transport model simulate Amazonian tropospheric chemistry?. Journal of Geophysical Research, 2011, 116, .	3.3	47
187	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
188	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
189	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
190	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
191	Multi-scale modeling study of the source contributions to near-surface ozone and sulfur oxides levels over California during the ARCTAS-CARB period. Atmospheric Chemistry and Physics, 2011, 11, 3173-3194.	1.9	22
192	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
193	Importance of secondary sources in the atmospheric budgets of formic and acetic acids. Atmospheric Chemistry and Physics, 2011, 11, 1989-2013.	1.9	266
194	Sources of variations in total column carbon dioxide. Atmospheric Chemistry and Physics, 2011, 11, 3581-3593.	1.9	149
195	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
196	Meteorological and air quality forecasting using the WRFâ€"STEM model during the 2008 ARCTAS field campaign. Atmospheric Environment, 2011, 45, 6901-6910.	1.9	14
197	The Total Carbon Column Observing Network. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 2087-2112.	1.6	884
198	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

#	Article	IF	Citations
199	Trend in ice moistening the stratosphere â€“ constraints from isotope data of water and methane. Atmospheric Chemistry and Physics, 2010, 10, 201-207.	1.9	15
200	A regional scale modeling analysis of aerosol and trace gas distributions over the eastern Pacific during the INTEX-B field campaign. Atmospheric Chemistry and Physics, 2010, 10, 2091-2115.	1.9	43
201	Measurement of atmospheric nitrous acid at Bodgett Forest during BEARPEX2007. Atmospheric Chemistry and Physics, 2010, 10, 6283-6294.	1.9	55
202	Role of aldehyde chemistry and NO_x concentrations in secondary organic aerosol formation. Atmospheric Chemistry and Physics, 2010, 10, 7169-7188.	1.9	190
203	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
204	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
205	Chemistry of hydrogen oxide radicals (HO_x) in the Arctic troposphere in spring. Atmospheric Chemistry and Physics, 2010, 10, 5823-5838.	1.9	220
206	Corrigendum to "Measurement of atmospheric nitrous acid at Blodgett Forest during BEARPEX2007" published in Atmos. Chem. Phys., 10, 6283-6294, 2010. Atmospheric Chemistry and Physics, 2010, 10, 6501-6501.	1.9	0
207	Long-range pollution transport during the MILAGRO-2006 campaign: a case study of a major Mexico City outflow event using free-floating altitude-controlled balloons. Atmospheric Chemistry and Physics, 2010, 10, 7137-7159.	1.9	25
208	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
209	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
210	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
211	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
212	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
213	Calibration of the Total Carbon Column Observing Network using aircraft profile data. Atmospheric Measurement Techniques, 2010, 3, 1351-1362.	1.2	441
214	Response to Comment on â€œUnexpected Epoxide Formation in the Gas-Phase Photooxidation of Isopreneâ€. Science, 2010, 327, 644-644.	6.0	1
215	Planning, implementation, and first results of the Tropical Composition, Cloud and Climate Coupling Experiment (TC4). Journal of Geophysical Research, 2010, 115, .	3.3	120
216	Convective distribution of tropospheric ozone and tracers in the Central American ITCZ region: Evidence from observations during TC4. Journal of Geophysical Research, 2010, 115, .	3.3	31

#	Article	IF	Citations
217	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
218	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
219	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
220	Unexpected Epoxide Formation in the Gas-Phase Photooxidation of Isoprene. Science, 2009, 325, 730-733.	6.0	837
221	Calculation of conformationally weighted dipole moments useful in ionâ€“molecule collision rate estimates. Chemical Physics Letters, 2009, 474, 45-50.	1.2	43
222	Emissions of greenhouse gases from a North American megacity. Geophysical Research Letters, 2009, 36, .	1.5	208
223	Photooxidation of 2-Methyl-3-Buten-2-ol (MBO) as a Potential Source of Secondary Organic Aerosol. Environmental Science & Technology, 2009, 43, 4647-4652.	4.6	50
224	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
225	Inferring ozone production in an urban atmosphere using measurements of peroxynitric acid. Atmospheric Chemistry and Physics, 2009, 9, 3697-3707.	1.9	18
226	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
227	Isoprene photooxidation: new insights into the production of acids and organic nitrates. Atmospheric Chemistry and Physics, 2009, 9, 1479-1501.	1.9	450
228	Biomass burning and urban air pollution over the Central Mexican Plateau. Atmospheric Chemistry and Physics, 2009, 9, 4929-4944.	1.9	138
229	Emissions from biomass burning in the Yucatan. Atmospheric Chemistry and Physics, 2009, 9, 5785-5812.	1.9	433
230	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
231	Total Column Carbon Observing Network (TCCON). , 2009, , .		41
232	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
233	Vibrational overtone initiated unimolecular dissociation of HOCH2OOH and HOCD2OOH: Evidence for mode selective behavior. Journal of Chemical Physics, 2008, 128, 184306.	1.2	14
234	Rethinking Ozone Production. Science, 2008, 319, 1624-1625.	6.0	65

#	Article	IF	Citations
235	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
236	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
237	Secondary organic aerosol (SOA) formation from reaction of isoprene with nitrate radicals (NO₃). Atmospheric Chemistry and Physics, 2008, 8, 4117-4140.	1.9	317
238	Direct Measurements of the Convective Recycling of the Upper Troposphere. Science, 2007, 315, 816-820.	6.0	114
239	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
240	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
241	Near-UV photolysis cross sections of CH₃OOH and HOCH₂OOH determined via action spectroscopy. Atmospheric Chemistry and Physics, 2007, 7, 713-720.	1.9	31
242	Emissions from forest fires near Mexico City. Atmospheric Chemistry and Physics, 2007, 7, 5569-5584.	1.9	205
243	Reducing the impact of source brightness fluctuations on spectra obtained by Fourier-transform spectrometry. Applied Optics, 2007, 46, 4774.	2.1	80
244	Precision requirements for space-based data. Journal of Geophysical Research, 2007, 112, .	3.3	322
245	Summertime influence of Asian pollution in the free troposphere over North America. Journal of Geophysical Research, 2007, 112, .	3.3	86
246	New constraints on Northern Hemisphere growing season net flux. Geophysical Research Letters, 2007, 34, .	1.5	147
247	On the stratospheric chemistry of hydrogen cyanide. Geophysical Research Letters, 2006, 33, .	1.5	26
248	On the flux of oxygenated volatile organic compounds from organic aerosol oxidation. Geophysical Research Letters, 2006, 33, .	1.5	50
249	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
250	Carbon dioxide column abundances at the Wisconsin Tall Tower site. Journal of Geophysical Research, 2006, 111, .	3.3	224
251	OH-Stretch Vibrational Spectroscopy of Hydroxymethyl Hydroperoxide. Journal of Physical Chemistry A, 2006, 110, 7072-7079.	1.1	26
252	Measurement of Gas-Phase Hydroperoxides by Chemical Ionization Mass Spectrometry. Analytical Chemistry, 2006, 78, 6726-6732.	3.2	307

#	Article	IF	Citations
253	Radicals follow the Sun. Nature, 2006, 442, 145-146.	13.7	24
254	Near-IR photodissociation of peroxy acetyl nitrate. Atmospheric Chemistry and Physics, 2005, 5, 385-392.	1.9	14
255	Ground-based photon path measurements from solar absorption spectra of the O2 A-band. Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, 90, 309-321.	1.1	41
256	Sensitivity of ozone to bromine in the lower stratosphere. Geophysical Research Letters, 2005, 32, .	1.5	207
257	Infrared measurements of atmospheric CH3CN. Geophysical Research Letters, 2005, 32, .	1.5	15
258	Cis-cis and trans-perp HOONO: Action spectroscopy and isomerization kinetics. Journal of Chemical Physics, 2004, 121, 1432-1448.	1.2	54
259	The Orbiting Carbon Observatory (OCO) mission. Advances in Space Research, 2004, 34, 700-709.	1.2	596
260	Stratospheric Aerosol Sampling: Effect of a Blunt-Body Housing on Inlet Sampling Characteristics. Aerosol Science and Technology, 2004, 38, 1080-1090.	1.5	7
261	Trajectory studies of large HNO3-containing PSC particles in the Arctic: Evidence for the role of NAT. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	6
262	Recent changes in the air-sea gas exchange of methyl chloroform. Geophysical Research Letters, 2004, 31, .	1.5	25
263	Extreme deuterium enrichment in stratospheric hydrogen and the global atmospheric budget of H2. Nature, 2003, 424, 918-921.	13.7	105
264	Measured HDO/H2O ratios across the tropical tropopause. Geophysical Research Letters, 2003, 30, .	1.5	89
265	Tropospheric methane retrieved from ground-based near-IR solar absorption spectra. Geophysical Research Letters, 2003, 30, n/a-n/a.	1.5	64
266	Novel Aerosol/Gas Inlet for Aircraft-Based Measurements. Aerosol Science and Technology, 2003, 37, 828-840.	1.5	25
267	A compact, lightweight gas standards generator for permeation tubes. Review of Scientific Instruments, 2003, 74, 3151-3154.	0.6	24
268	Chapter 14 Chemistry of HOx radicals in the upper troposphere. Developments in Environmental Science, 2002, 1, 393-433.	0.5	1
269	First Spectroscopic Observation of Gas-Phase HOONO. Journal of Physical Chemistry A, 2002, 106, 855-859.	1.1	82
270	Photodissociation of Peroxynitric Acid in the Near-IR. Journal of Physical Chemistry A, 2002, 106, 3766-3772.	1.1	92

#	Article	IF	Citations
271	Comparison of ER-2 aircraft and POAM III, MLS, and SAGE II satellite measurements during SOLVE using traditional correlative analysis and trajectory hunting technique. Journal of Geophysical Research, 2002, 107, SOL 58-1-SOL 58-19.	3.3	16
272	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
273	Near IR photolysis of HO2NO2: Implications for HOx. Geophysical Research Letters, 2002, 29, 9-1-9-4.	1.5	42
274	Lee-wave clouds and denitrification of the polar stratosphere. Geophysical Research Letters, 2002, 29, 36-1-36-4.	1.5	38
275	Atmospheric CO2retrieved from ground-based near IR solar spectra. Geophysical Research Letters, 2002, 29, 53-1-53-4.	1.5	75
276	Comparing atmospheric [HO2]/[OH] to modeled [HO2]/[OH]: Identifying discrepancies with reaction rates. Geophysical Research Letters, 2001, 28, 967-970.	1.5	14
277	Establishing the Dependence of [HO2]/[OH] on Temperature, Halogen Loading, O3, and NOxBased on in Situ Measurements from the NASA ER-2â€. Journal of Physical Chemistry A, 2001, 105, 1535-1542.	1.1	16
278	Inorganic chlorine partitioning in the summer lower stratosphere: Modeled and measured [ClONO2]/[HCl] during POLARIS. Journal of Geophysical Research, 2001, 106, 1713-1732.	3.3	7
279	The NOxâˆ'HNO3System in the Lower Stratosphere:Â Insights from In Situ Measurements and Implications of theJHNO3âˆ'[OH] Relationship. Journal of Physical Chemistry A, 2001, 105, 1521-1534.	1.1	24
280	Sources, Sinks, and the Distribution of OH in the Lower Stratosphereâ€. Journal of Physical Chemistry A, 2001, 105, 1543-1553.	1.1	42
281	Chemistry of HOx radicals in the upper troposphere. Atmospheric Environment, 2001, 35, 469-489.	1.9	211
282	The Detection of Large HNO3-Containing Particles in the Winter Arctic Stratosphere. Science, 2001, 291, 1026-1031.	6.0	279
283	Intensity of the second and third OH overtones of H2O2, HNO3, and HO2NO2. Journal of Geophysical Research, 2000, 105, 14593-14598.	3.3	32
284	Quantitative constraints on the atmospheric chemistry of nitrogen oxides: An analysis along chemical coordinates. Journal of Geophysical Research, 2000, 105, 24283-24304.	3.3	22
285	Fractionation of14N15N16O and15N14N16O during photolysis at 213 nm. Geophysical Research Letters, 2000, 27, 2481-2484.	1.5	36
286	Ozone destruction and production rates between spring and autumn in the Arctic stratosphere. Geophysical Research Letters, 2000, 27, 2605-2608.	1.5	16
287	A comparison of observations and model simulations of NOx/NOyin the lower stratosphere. Geophysical Research Letters, 1999, 26, 1153-1156.	1.5	61
288	Twilight observations suggest unknown sources of HOx. Geophysical Research Letters, 1999, 26, 1373-1376.	1.5	85

#	Article	IF	Citations
289	Comparison of modeled and observed values of NO2and JNO2during the Photochemistry of Ozone Loss in the Arctic Region in Summer (POLARIS) mission. Journal of Geophysical Research, 1999, 104, 26687-26703.	3.3	36
290	Hydrogen Radicals, Nitrogen Radicals, and the Production of O3 in the Upper Troposphere. Science, 1998, 279, 49-53.	6.0	329
291	The photochemistry of acetone in the upper troposphere: A source of odd-hydrogen radicals. Geophysical Research Letters, 1997, 24, 3177-3180.	1.5	193
292	Evolution and stoichiometry of heterogeneous processing in the Antarctic stratosphere. Journal of Geophysical Research, 1997, 102, 13235-13253.	3.3	25
293	Comment on: â€œThe measurement of tropospheric OH radicals by laser-induced fluorescence spectroscopy during the POPCORN Field Campaignâ€• by Hofzumahaus et al. and â€œIntercomparison of tropospheric OH radical measurements by multiple folded long-path laser ab. Geophysical Research Letters, 1997, 24, 3037-3038.	1.5	41
294	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
295	OH, HO2, and NO in two biomass burning plumes: Sources of HOxand implications for ozone production. Geophysical Research Letters, 1997, 24, 3185-3188.	1.5	40
296	The role of HOxin super- and subsonic aircraft exhaust plumes. Geophysical Research Letters, 1997, 24, 65-68.	1.5	19
297	The atmospheric column abundance of IO: Implications for stratospheric ozone. Journal of Geophysical Research, 1997, 102, 8887-8898.	3.3	53
298	Observations of large reductions in the NO/NOyratio near the mid-latitude tropopause and the role of heterogeneous chemistry. Geophysical Research Letters, 1996, 23, 3223-3226.	1.5	44
299	Monitoring potential photochemical interference in laser-induced fluorescence Measurements of atmospheric OH. Geophysical Research Letters, 1996, 23, 3215-3218.	1.5	40
300	In Situ Measurements of OH and H02in the Upper Troposphere and Stratosphere. Journals of the Atmospheric Sciences, 1995, 52, 3413-3420.	0.6	42
301	Emission Measurements of the Concorde Supersonic Aircraft in the Lower Stratosphere. Science, 1995, 270, 70-74.	6.0	165
302	Kinetics of reactions of ground state nitrogen atoms (4S3/2) with NO and NO2. Journal of Geophysical Research, 1994, 99, 18839.	3.3	57
303	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
304	Are models of catalytic removal of O3by HOxaccurate? Constraints from in situ measurements of the OH to HO2ratio. Geophysical Research Letters, 1994, 21, 2539-2542.	1.5	37
305	Production of O(Â¹D) from photolysis of O3. Geophysical Research Letters, 1994, 21, 2227-2230.	1.5	100
306	The response of ClO radical concentrations to variations in NO2radical concentrations in the lower stratosphere. Geophysical Research Letters, 1994, 21, 2543-2546.	1.5	35

#	Article	IF	Citations
307	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
308	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
309	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
310	Simultaneous, in situ measurements of OH and HO₂ in the stratosphere. Geophysical Research Letters, 1990, 17, 1905-1908.	1.5	45
311	Simultaneous, in situ measurements of OH, HO₂, O₃, and H₂O: A test of modeled stratospheric HO_x chemistry. Geophysical Research Letters, 1990, 17, 1909-1912.	1.5	25
312	Balloon borne inâ€situ detection of OH in the stratosphere from 37 to 23 km. Geophysical Research Letters, 1989, 16, 1433-1436.	1.5	15
313	Hydrocarbon Tracers Suggest Methane Emissions from Fossil Sources Occur Predominately Before Gas Processing and That Petroleum Plays Are a Significant Source. Environmental Science & Technology, 0, , .	4.6	3