

B Lefer

List of Publications by Year in descending order

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173
papers

10,335
citations

28128

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h-index

57558

83
g-index

221
all docs

221
docs citations

221
times ranked

8182
citing authors

#	ARTICLE	IF	CITATIONS
1	An overview of snow photochemistry: evidence, mechanisms and impacts. Atmospheric Chemistry and Physics, 2007, 7, 4329-4373.	5.0	559
2	High winter ozone pollution from carbonyl photolysis in an oil and gas basin. Nature, 2014, 514, 351-354.	36.2	288
3	Organic aerosol composition and sources in Pasadena, California, during the 2010 CalNex campaign. Journal of Geophysical Research D: Atmospheres, 2013, 118, 9233-9257.	3.3	243
4	Atmospheric oxidation capacity in the summer of Houston 2006: Comparison with summer measurements in other metropolitan studies. Atmospheric Environment, 2010, 44, 4107-4115.	4.2	222
5	Unexpected high levels of NO observed at South Pole. Geophysical Research Letters, 2001, 28, 3625-3628.	4.0	184
6	Regional-scale chemical transport modeling in support of the analysis of observations obtained during the TRACE-P experiment. Journal of Geophysical Research, 2003, 108, .	3.3	183
7	Observations of gas- and aerosol-phase organic nitrates at BEACHON-RoMBAS 2011. Atmospheric Chemistry and Physics, 2013, 13, 8585-8605.	5.0	155
8	Climate change accelerates growth of urban trees in metropolises worldwide. Scientific Reports, 2017, 7, 15403.	3.4	139
9	Vertically Resolved Measurements of Nighttime Radical Reservoirs in Los Angeles and Their Contribution to the Urban Radical Budget. Environmental Science & Technology, 2012, 46, 5045-5052.	10.5	129
10	SO ₂ and SO ₃ at the South Pole. Journal of Geophysical Research, 2001, 106, 1215-1222.	4.2	128
11	Daytime HONO vertical gradients during SHARP 2009 in Houston, TX. Atmospheric Chemistry and Physics, 2012, 12, 635-652.	5.0	125
12	Modeling chemistry in and above snow at Summit, Greenland Part 1: Model description and results. Atmospheric Chemistry and Physics, 2011, 11, 4899-4914.	5.0	116
13	Understanding the role of the ground surface in HONO vertical structure: High resolution vertical profiles during NACHTT. Journal of Geophysical Research D: Atmospheres, 2013, 118, 10,155.	3.3	116
14	Chemical characteristics of continental outflow from Asia to the troposphere over the western Pacific Ocean during February-March 1994: Results from PEM-West B. Journal of Geophysical Research, 1997, 102, 28255-28274.	3.3	115
15	Vertical profiles of nitrous acid in the nocturnal urban atmosphere of Houston, TX. Atmospheric Chemistry and Physics, 2011, 11, 3595-3609.	5.0	107
16	Observations of hydroxyl and the sum of peroxy radicals at Summit, Greenland during summer 2003. Atmospheric Environment, 2007, 41, 5122-5137.	4.2	106
17	Atmospheric oxidation chemistry and ozone production: Results from SHARP 2009 in Houston, Texas. Journal of Geophysical Research D: Atmospheres, 2013, 118, 5770-5780.	3.3	104
18	Evidence for photochemical production of ozone at the South Pole surface. Geophysical Research Letters, 2001, 28, 3641-3644.	4.0	103

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19	Measurements of OH, H ₂ SO ₄ , and MSA at the South Pole during ISCAT. <i>Geophysical Research Letters</i> , 2001, 28, 3629-3632.	4.0	101
20	Assessment of the sensitivity of core / shell parameters derived using the single-particle soot photometer to density and refractive index. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 1701-1718.	3.1	101
21	The glyoxal budget and its contribution to organic aerosol for Los Angeles, California, during CalNex 2010. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	100
22	Airborne and ground-based observations of a weekend effect in ozone, precursors, and oxidation products in the California South Coast Air Basin. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	100
23	Diurnal tracking of anthropogenic CO ₂ emissions in the Los Angeles basin megacity during spring 2010. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 4359-4372.	5.0	100
24	Chlorine as a primary radical: evaluation of methods to understand its role in initiation of oxidative cycles. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 3427-3440.	5.0	95
25	Measurements of OH, HO ₂ +RO ₂ , H ₂ SO ₄ , and MSA at the South Pole during ISCAT 2000. <i>Atmospheric Environment</i> , 2004, 38, 5423-5437.	4.2	92
26	A reassessment of HO _x South Pole chemistry based on observations recorded during ISCAT 2000. <i>Atmospheric Environment</i> , 2004, 38, 5451-5461.	4.2	91
27	Evidence of rapid production of organic acids in an urban air mass. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	91
28	Measurements of hydroxyl and hydroperoxy radicals during CalNex-LA: Model comparisons and radical budgets. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 4211-4232.	3.3	91
29	Seasonal distributions of fine aerosol sulfate in the North American Arctic basin during TOPSE. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	89
30	An MCM modeling study of nitryl chloride (ClNO ₂) impacts on oxidation, ozone production and nitrogen oxide partitioning in polluted continental outflow. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 3789-3800.	5.0	89
31	On the volatility and production mechanisms of newly formed nitrate and water soluble organic aerosol in Mexico City. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 3761-3768.	5.0	88
32	Impacts of aerosols and clouds on photolysis frequencies and photochemistry during TRACE-P: 2. Three-dimensional study using a regional chemical transport model. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	85
33	Enhancement of acidic gases in biomass burning impacted air masses over Canada. <i>Journal of Geophysical Research</i> , 1994, 99, 1721.	3.3	83
34	Evidence for a recurring eastern North America upper tropospheric ozone maximum during summer. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	82
35	Nocturnal NO ₃ radical chemistry in Houston, TX. <i>Atmospheric Environment</i> , 2010, 44, 4099-4106.	4.2	82
36	In-canopy gas-phase chemistry during CABINEX 2009: sensitivity of a 1-D canopy model to vertical mixing and isoprene chemistry. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 8829-8849.	5.0	78

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37	Simultaneous DOAS and mist-chamber IC measurements of HONO in Houston, TX. Atmospheric Environment, 2010, 44, 4090-4098.	4.2	77
38	Ozone depletion events observed in the high latitude surface layer during the TOPSE aircraft program. Journal of Geophysical Research, 2003, 108, TOP 4-1.	3.3	76
39	Chemical characteristics of continental outflow over the tropical South Atlantic Ocean from Brazil and Africa. Journal of Geophysical Research, 1996, 101, 24187-24202.	3.3	75
40	Testing fast photochemical theory during TRACE-P based on measurements of OH, HO ₂ , and CH ₂ O. Journal of Geophysical Research, 2004, 109, .	3.3	72
41	Measurement of HO ₂ NO ₂ in the free troposphere during the Intercontinental Chemical Transport Experimentâ€œNorth America 2004. Journal of Geophysical Research, 2007, 112, .	3.3	72
42	Comparison of mixed layer heights from airborne high spectral resolution lidar, ground-based measurements, and the WRF-Chem model during CalNex and CARES. Atmospheric Chemistry and Physics, 2014, 14, 5547-5560.	5.0	72
43	Seasonal Variability in the Diurnal Evolution of the Boundary Layer in a Near-Coastal Urban Environment. Journal of Atmospheric and Oceanic Technology, 2012, 29, 697-710.	1.1	71
44	Nitric acid and ammonia at a rural northeastern U.S. site. Journal of Geophysical Research, 1999, 104, 1645-1661.	3.3	70
45	Summertime partitioning and budget of NO _y compounds in the troposphere over Alaska and Canada: ABLE 3B. Journal of Geophysical Research, 1994, 99, 1837.	3.3	69
46	Atmospheric ammonia measurements in Houston, TX using an external-cavity quantum cascade laser-based sensor. Atmospheric Chemistry and Physics, 2011, 11, 9721-9733.	5.0	69
47	Role of atmospheric ammonia in particulate matter formation in Houston during summertime. Atmospheric Environment, 2013, 77, 893-900.	4.2	69
48	Large-scale distributions of tropospheric nitric, formic, and acetic acids over the western Pacific basin during wintertime. Journal of Geophysical Research, 1997, 102, 28303-28313.	3.3	68
49	Airborne tunable diode laser measurements of formaldehyde during TRACE-P: Distributions and box model comparisons. Journal of Geophysical Research, 2003, 108, .	3.3	68
50	Retrieval of aerosol single scattering albedo at ultraviolet wavelengths at the T1 site during MILAGRO. Atmospheric Chemistry and Physics, 2009, 9, 5813-5827.	5.0	68
51	A comparison of chemical mechanisms based on TRAMP-2006 field data. Atmospheric Environment, 2010, 44, 4116-4125.	4.2	68
52	Modeling of daytime HONO vertical gradients during SHARP 2009. Atmospheric Chemistry and Physics, 2013, 13, 3587-3601.	5.0	68
53	Heterogeneous formation of nitryl chloride and its role as a nocturnal NO _x reservoir species during CalNexâ€œLA 2010. Journal of Geophysical Research D: Atmospheres, 2013, 118, 10,638.	3.3	68
54	Comparison of aerosol lidar retrieval methods for boundary layer height detection using ceilometer aerosol backscatter data. Atmospheric Measurement Techniques, 2017, 10, 1609-1622.	3.1	67

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55	Modeling chemistry in and above snow at Summit, Greenland – Part 2: Impact of snowpack chemistry on the oxidation capacity of the boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 6537-6554.	5.0	66
56	Deciphering the Role of Radical Precursors during the Second Texas Air Quality Study. <i>Journal of the Air and Waste Management Association</i> , 2009, 59, 1258-1277.	2.1	65
57	Heterogeneous conversion of nitric acid to nitrous acid on the surface of primary organic aerosol in an urban atmosphere. <i>Atmospheric Environment</i> , 2010, 44, 4081-4089.	4.2	65
58	Seasonal differences in the photochemistry of the South Pacific: A comparison of observations and model results from PEM-Tropics A and B. <i>Journal of Geophysical Research</i> , 2001, 106, 32749-32766.	3.3	64
59	OH and HO ₂ radical chemistry during PROPHET 2008 and CABINEX 2009 – Part 1: Measurements and model comparison. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 5403-5423.	5.0	64
60	Ozone, aerosol, potential vorticity, and trace gas trends observed at high-latitudes over North America from February to May 2000. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	63
61	Tunable diode laser measurements of formaldehyde during the TOPSE 2000 study: Distributions, trends, and model comparisons. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	63
62	An investigation of South Pole HO _x chemistry: Comparison of model results with ISCAT observations. <i>Geophysical Research Letters</i> , 2001, 28, 3633-3636.	4.0	61
63	Stratospheric influence on the northern North American free troposphere during TOPSE: 7Be as a stratospheric tracer. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	61
64	Steady state free radical budgets and ozone photochemistry during TOPSE. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	60
65	Impact of clouds and aerosols on photolysis frequencies and photochemistry during TRACE-P: 1. Analysis using radiative transfer and photochemical box models. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	59
66	Investigation of secondary formation of formic acid: urban environment vs. oil and gas producing region. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 1975-1993.	5.0	59
67	Photochemistry in the arctic free troposphere: NO _x budget and the role of odd nitrogen reservoir recycling. <i>Atmospheric Environment</i> , 2003, 37, 3351-3364.	4.2	58
68	Airborne Measurements of Ethene from Industrial Sources Using Laser Photo-Acoustic Spectroscopy. <i>Environmental Science & Technology</i> , 2009, 43, 2437-2442.	10.5	57
69	Summary of measurement intercomparisons during TRACE-P. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	56
70	Measurements of total hydroxyl radical reactivity during CABINEX 2009 – Part 1: field measurements. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 2923-2937.	5.0	56
71	Measurements of pernitric acid at the South Pole during ISCAT 2000. <i>Geophysical Research Letters</i> , 2002, 29, 7-1.	4.0	55
72	An evaluation of the interaction of morning residual layer and afternoon mixed layer ozone in Houston using ozonesonde data. <i>Atmospheric Environment</i> , 2010, 44, 4024-4034.	4.2	55

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73	On the gas-particle partitioning of soluble organic aerosol in two urban atmospheres with contrasting emissions: 1. Bulk water-soluble organic carbon. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	55
74	Cloud impacts on UV spectral actinic flux observed during the International Photolysis Frequency Measurement and Model Intercomparison (IPMMI). <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	54
75	An overview of ISCAT 2000. <i>Atmospheric Environment</i> , 2004, 38, 5363-5373.	4.2	54
76	Distributions of beryllium 7 and lead 2109, and soluble aerosol-associated ionic species over the western Pacific: PEM West B, February-March 1994. <i>Journal of Geophysical Research</i> , 1997, 102, 28287-28302.	3.3	53
77	Photolysis frequency of NO ₂ : Measurement and modeling during the International Photolysis Frequency Measurement and Modeling Intercomparison (IPMMI). <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	53
78	Relationship between boundary layer heights and growth rates with ground-level ozone in Houston, Texas. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 6230-6245.	3.3	53
79	Springtime photochemistry at northern mid and high latitudes. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	51
80	Comparing MODIS daily snow albedo to spectral albedo field measurements in Central Greenland. <i>Remote Sensing of Environment</i> , 2014, 140, 118-129.	11.1	51
81	Impact of clouds and aerosols on ozone production in Southeast Texas. <i>Atmospheric Environment</i> , 2010, 44, 4126-4133.	4.2	50
82	Photochemical and meteorological relationships during the Texas-II Radical and Aerosol Measurement Project (TRAMP). <i>Atmospheric Environment</i> , 2010, 44, 4005-4013.	4.2	50
83	Measurements of the sum of HO ₂ and CH ₃ O ₂ and O ₂ NO ₂ in the remote troposphere. <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 377-384.	5.0	49
84	Peroxy radical behavior during the Transport and Chemical Evolution over the Pacific (TRACE-P) campaign as measured aboard the NASA P-3B aircraft. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	48
85	Chemistry of Volatile Organic Compounds in the Los Angeles Basin: Formation of Oxygenated Compounds and Determination of Emission Ratios. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 2298-2319.	3.3	48
86	International Photolysis Frequency Measurement and Model Intercomparison (IPMMI): Spectral actinic solar flux measurements and modeling. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	47
87	Measurements of primary trace gases and NO _y composition in Houston, Texas. <i>Atmospheric Environment</i> , 2010, 44, 4068-4080.	4.2	46
88	Comparison of airborne measured and calculated spectral actinic flux and derived photolysis frequencies during the PEM Tropics B mission. <i>Journal of Geophysical Research</i> , 2003, 108, PEM 6-1.	3.3	45
89	Light penetration in the snowpack at Summit, Greenland: Part 2 Nitrate photolysis. <i>Atmospheric Environment</i> , 2007, 41, 5091-5100.	4.2	44
90	Impact of updated traffic emissions on HONO mixing ratios simulated for urban site in Houston, Texas. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 1253-1263.	5.0	43

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91	Measurements of industrial emissions of alkenes in Texas using the solar occultation flux method. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	42
92	Longpath DOAS observations of surface BrO at Summit, Greenland. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 9899-9910.	5.0	42
93	Observations of hydroxyl and peroxy radicals and the impact of BrO at Summit, Greenland in 2007 and 2008. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 8577-8591.	5.0	41
94	Characterization of urban aerosol using aerosol mass spectrometry and proton nuclear magnetic resonance spectroscopy. <i>Atmospheric Environment</i> , 2012, 54, 511-518.	4.2	41
95	Chemistry of Volatile Organic Compounds in the Los Angeles basin: Nighttime Removal of Alkenes and Determination of Emission Ratios. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 11,843.	3.3	41
96	Bay Breeze and Sea Breeze Circulation Impacts on the Planetary Boundary Layer and Air Quality From an Observed and Modeled DISCOVER-AQ Texas Case Study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 7359-7378.	3.3	41
97	OMI NO ₂ column densities over North American urban cities: the effect of satellite footprint resolution. <i>Geoscientific Model Development</i> , 2016, 9, 1111-1123.	3.7	40
98	Light penetration in the snowpack at Summit, Greenland: Part 1. <i>Atmospheric Environment</i> , 2007, 41, 5077-5090.	4.2	39
99	Mercury species measured atop the Moody Tower TRAMP site, Houston, Texas. <i>Atmospheric Environment</i> , 2010, 44, 4045-4055.	4.2	39
100	Direct measurement of ozone production rates in Houston in 2009 and comparison with two estimation methods. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1203-1212.	5.0	39
101	Intercomparison of field measurements of nitrous acid (HONO) during the SHARP campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 5583-5601.	3.3	39
102	Observations of ozone transport from the free troposphere to the Los Angeles basin. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	38
103	The impact of observation nudging on simulated meteorology and ozone concentrations during DISCOVER-AQ 2013 Texas campaign. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 3127-3144.	5.0	38
104	Summertime distribution and relations of reactive odd nitrogen species and NO _y in the troposphere over Canada. <i>Journal of Geophysical Research</i> , 1994, 99, 1863.	3.3	37
105	Measurements of OH aboard the NASA P-3 during PEM-Tropics B. <i>Journal of Geophysical Research</i> , 2001, 106, 32657-32666.	3.3	37
106	An assessment of the polar HO _x photochemical budget based on 2003 Summit Greenland field observations. <i>Atmospheric Environment</i> , 2007, 41, 7806-7820.	4.2	37
107	Impact of Biomass Burning Plumes on Photolysis Rates and Ozone Formation at the Mount Bachelor Observatory. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 2272-2284.	3.3	37
108	Chemical composition of the atmospheric aerosol in the troposphere over the Hudson Bay lowlands and Quebec-Labrador regions of Canada. <i>Journal of Geophysical Research</i> , 1994, 99, 1763.	3.3	36

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109	Quantification of NO ₂ and SO ₂ emissions from the Houston Ship Channel and Texas City industrial areas during the 2006 Texas Air Quality Study. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	36
110	Urban measurements of atmospheric nitrous acid: A caveat on the interpretation of the HONO photostationary state. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 12,274.	3.3	36
111	Summertime measurements of aerosol nitrate and ammonium at a northeastern U.S. site. <i>Journal of Geophysical Research</i> , 2001, 106, 20365-20378.	3.3	35
112	An assessment of western North Pacific ozone photochemistry based on springtime observations from NASA's PEM-West B (1994) and TRACE-P (2001) field studies. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	35
113	Photolysis frequency of O ₃ to O(1D): Measurements and modeling during the International Photolysis Frequency Measurement and Modeling Intercomparison (IPMMI). <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	35
114	Atmospheric chemistry results from the ANTCI 2005 Antarctic plateau airborne study. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	35
115	Temperature and sunlight controls of mercury oxidation and deposition atop the Greenland ice sheet. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 8295-8306.	5.0	35
116	WRF-Chem simulation of NO _x and O ₃ in the L.A. basin during CalNex-2010. <i>Atmospheric Environment</i> , 2013, 81, 421-432.	4.2	35
117	New insights into atmospheric sources and sinks of isocyanic acid, HNCO, from recent urban and regional observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 1060-1072.	3.3	35
118	An observational and modeling strategy to investigate the impact of remote sources on local air quality: A Houston, Texas, case study from the Second Texas Air Quality Study (TexAQS II). <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	33
119	Emission measurements of alkenes, alkanes, SO ₂ , and NO ₂ from stationary sources in Southeast Texas over a 5-year period using SOF and mobile DOAS. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 1973-1991.	3.3	33
120	Analysis of correlation between pediatric asthma exacerbation and exposure to pollutant mixtures with association rule mining. <i>Artificial Intelligence in Medicine</i> , 2016, 74, 44-52.	6.7	33
121	Source apportionment of particulate matter and trace gases near a major refinery near the Houston Ship Channel. <i>Atmospheric Environment</i> , 2018, 173, 16-29.	4.2	33
122	Fire Influence on Regional to Global Environments and Air Quality (FIREX-AQ). <i>Journal of Geophysical Research D: Atmospheres</i> , 2023, 128, .	3.3	32
123	Marine latitude/altitude OH distributions: Comparison of Pacific Ocean observations with models. <i>Journal of Geophysical Research</i> , 2001, 106, 32691-32707.	3.3	30
124	The TexAQS-II radical and aerosol measurement project (TRAMP). <i>Atmospheric Environment</i> , 2010, 44, 3997-4004.	4.2	29
125	Direct ozone production rate measurements and their use in assessing ozone source and receptor regions for Houston in 2013. <i>Atmospheric Environment</i> , 2015, 114, 83-91.	4.2	29
126	Clouds and trace gas distributions during TRACE-P. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	28

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127	An Atmospheric Constraint on the NO ₂ Dependence of Daytime Near-Surface Nitrous Acid (HONO). <i>Environmental Science & Technology</i> , 2015, 49, 12774-12781.	10.5	28
128	Results of the Gas-Phase Sulfur Intercomparison Experiment (GASIE): Overview of experimental setup, results and general conclusions. <i>Journal of Geophysical Research</i> , 1997, 102, 16219-16236.	3.3	27
129	Nocturnal loss of NO _x during the 2010 CalNex- \AA LA study in the Los Angeles Basin. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 13,004.	3.3	27
130	Seasonal differences in formation processes of oxidized organic aerosol near Houston, TX. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 9641-9661.	5.0	26
131	Low to middle tropospheric profiles and biosphere/troposphere fluxes of acidic gases in the summertime Canadian taiga. <i>Journal of Geophysical Research</i> , 1994, 99, 1687.	3.3	25
132	Overview of the SHARP campaign: Motivation, design, and major outcomes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 2597-2610.	3.3	25
133	Sources of air pollution in a region of oil and gas exploration downwind of a large city. <i>Atmospheric Environment</i> , 2015, 120, 89-99.	4.2	24
134	Evaluation of nitrous acid sources and sinks in urban outflow. <i>Atmospheric Environment</i> , 2016, 127, 272-282.	4.2	24
135	Overview and conclusions of the International Photolysis Frequency Measurement and Modeling Intercomparison (IPMMI) study. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	23
136	An overview of air-snow exchange at Summit, Greenland: Recent experiments and findings. <i>Atmospheric Environment</i> , 2007, 41, 4995-5006.	4.2	23
137	Potential Role of Stabilized Criegee Radicals in Sulfuric Acid Production in a High Biogenic VOC Environment. <i>Environmental Science & Technology</i> , 2015, 49, 3383-3391.	10.5	23
138	Trace gas emissions through a winter snowpack in the subalpine ecosystem at Niwot Ridge, Colorado. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	22
139	Hydroxyl concentration estimates in the sunlit snowpack at Summit, Greenland. <i>Atmospheric Environment</i> , 2007, 41, 5101-5109.	4.2	22
140	Release and uptake of volatile inorganic and organic gases through the snowpack at Niwot Ridge, Colorado. <i>Biogeochemistry</i> , 2009, 95, 167-183.	3.7	22
141	Extensive aerosol optical properties and aerosol mass related measurements during TRAMP/TexAQ _S 2006 – Implications for PM compliance and planning. <i>Atmospheric Environment</i> , 2010, 44, 4035-4044.	4.2	20
142	Effect of aerosols and NO ₂ concentration on ultraviolet actinic flux near Mexico City during MILAGRO: measurements and model calculations. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 1011-1022.	5.0	20
143	Comparison of in situ and columnar aerosol spectral measurements during TexAQ _S -GoMACCS 2006: testing parameterizations for estimating aerosol fine mode properties. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 51-61.	5.0	19
144	Formaldehyde column density measurements as a suitable pathway to estimate near-surface ozone tendencies from space. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 13088-13112.	3.3	19

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145	Photolysis frequency measurements at the South Pole during ISCAT-98. <i>Geophysical Research Letters</i> , 2001, 28, 3637-3640.	4.0	17
146	Are methyl halides produced on all ice surfaces? Observations from snow-laden field sites. <i>Atmospheric Environment</i> , 2007, 41, 5162-5177.	4.2	17
147	Improved albedo formulation for chemistry transport models based on satellite observations and assimilated snow data and its impact on tropospheric photochemistry. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	16
148	Seasonal and Diurnal Variations of Total Gaseous Mercury in Urban Houston, TX, USA. <i>Atmosphere</i> , 2014, 5, 399-419.	2.3	16
149	Overview of surface measurements and spatial characterization of submicrometer particulate matter during the DISCOVER-AQ 2013 campaign in Houston, TX. <i>Journal of the Air and Waste Management Association</i> , 2017, 67, 854-872.	2.1	16
150	Comparison of airborne NO ₂ photolysis frequency measurements during PEM-Tropics B. <i>Journal of Geophysical Research</i> , 2001, 106, 32645-32656.	3.3	15
151	Inorganic and black carbon aerosols in the Los Angeles Basin during CalNex. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 1777-1803.	3.3	15
152	Photochemistry in the Arctic Free Troposphere: Ozone Budget and Its Dependence on Nitrogen Oxides and the Production Rate of Free Radicals. <i>Journal of Atmospheric Chemistry</i> , 2004, 47, 107-138.	3.2	14
153	A Balloon Sounding Technique for Measuring SO ₂ Plumes. <i>Journal of Atmospheric and Oceanic Technology</i> , 2010, 27, 1318-1330.	1.1	14
154	Quantitative measurements and modeling of industrial formaldehyde emissions in the Greater Houston area during campaigns in 2009 and 2011. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 4303-4322.	3.3	14
155	Differences in BVOC oxidation and SOA formation above and below the forest canopy. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 1805-1828.	5.0	14
156	Measurement of NO ₂ by the photolysis conversion technique during the Transport and Chemical Evolution Over the Pacific (TRACE-P) campaign. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	13
157	Impacts of heterogeneous HONO formation on radical sources and ozone chemistry in Houston, Texas. <i>Atmospheric Environment</i> , 2015, 112, 344-355.	4.2	13
158	Space-Borne Monitoring of NO _x Emissions from Cement Kilns in South Korea. <i>Atmosphere</i> , 2020, 11, 881.	2.3	13
159	Implementation and refinement of a surface model for heterogeneous HONO formation in a 3-D chemical transport model. <i>Atmospheric Environment</i> , 2015, 112, 356-368.	4.2	12
160	Measurements of sulfur dioxide during GASIE with the mist chamber technique. <i>Journal of Geophysical Research</i> , 1997, 102, 16273-16278.	3.3	11
161	Simulating the Weekly Cycle of NO _x + VOC + HO _x + O ₃ Photochemical System in the South Coast of California During CalNex 2010 Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 3532-3555.	3.3	10
162	Identifying the Transcriptional Response of Cancer and Inflammation-Related Genes in Lung Cells in Relation to Ambient Air Chemical Mixtures in Houston, Texas. <i>Environmental Science & Technology</i> , 2020, 54, 13807-13816.	10.5	10

#	ARTICLE	IF	CITATIONS
163	Parameterization of Ozone Photolysis Frequency in the Lower Troposphere Using Data from Photodiode Array Detector Spectrometers. <i>Journal of Atmospheric Chemistry</i> , 2006, 54, 67-87.	3.2	9
164	Atmospheric Mercury in the Barnett Shale Area, Texas: Implications for Emissions from Oil and Gas Processing. <i>Environmental Science & Technology</i> , 2015, 49, 10692-10700.	10.5	9
165	Ozone production by corona discharges during a convective event in DISCOVER-AQ Houston. <i>Atmospheric Environment</i> , 2017, 161, 13-17.	4.2	9
166	Measurements of Total OH Reactivity During CalNexâ€LA. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD032988.	3.3	8
167	Apportioned primary and secondary organic aerosol during pollution events of DISCOVER-AQ Houston. <i>Atmospheric Environment</i> , 2021, 244, 117954.	4.2	7
168	Column ozone and aerosol optical properties retrieved from direct solar irradiance measurements during SOLVE II. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 611-622.	5.0	6
169	Overview of the 2007 and 2008 campaigns conducted as part of the Greenland Summit Halogen-HO<sub>x</sub> Experiment (GSHOX). <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 10833-10839.	5.0	6
170	From the Field to the Laboratory: Air Pollutant-Induced Genomic Effects in Lung Cells. <i>Environmental Health Insights</i> , 2015, 9s4, EHI.S15656.	1.7	6
171	Hyperreactivity of coronary vasculature in platelet-perfused hearts from diabetic rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1983, 245, H640-H645.	3.4	4
172	Ultraviolet aerosol optical properties retrieved during the 2006 MIRAGE-Mex experiment: initial results. , 2006, 6362, 25.		0
173	Modeling the Impacts of Volatile Chemical Product Emissions on Atmospheric Photochemistry and Ozone Formation in Los Angeles. <i>Journal of Geophysical Research D: Atmospheres</i> , 2024, 129, .	3.3	0