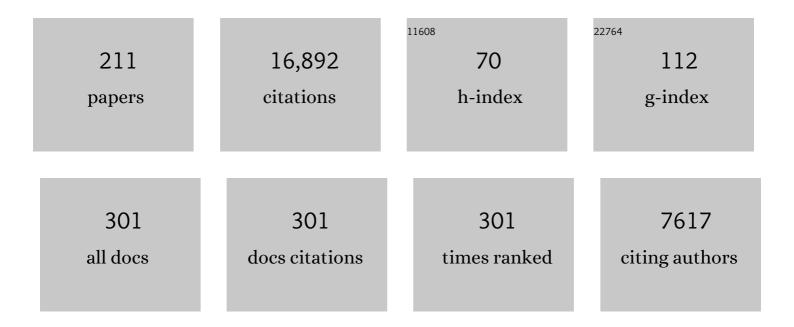
## William H Brune

List of Publications by Year in descending order

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WILLIAM H ROLINE

#	Article	IF	CITATIONS
1	Effects of aging on organic aerosol from open biomass burning smoke in aircraft and laboratory studies. Atmospheric Chemistry and Physics, 2011, 11, 12049-12064.	1.9	520
2	Missing OH Reactivity in a Forest: Evidence for Unknown Reactive Biogenic VOCs. Science, 2004, 304, 722-725.	6.0	431
3	Free Radicals Within the Antarctic Vortex: The Role of CFCs in Antarctic Ozone Loss. Science, 1991, 251, 39-46.	6.0	375
4	Laboratory studies of the chemical composition and cloud condensation nuclei (CCN) activity of secondary organic aerosol (SOA) and oxidized primary organic aerosol (OPOA). Atmospheric Chemistry and Physics, 2011, 11, 8913-8928.	1.9	307
5	Characterization of aerosol photooxidation flow reactors: heterogeneous oxidation, secondary organic aerosol formation and cloud condensation nuclei activity measurements. Atmospheric Measurement Techniques, 2011, 4, 445-461.	1.2	298
6	Airborne measurement of OH reactivity during INTEX-B. Atmospheric Chemistry and Physics, 2009, 9, 163-173.	1.9	293
7	Air quality in North America's most populous city – overview of the MCMA-2003 campaign. Atmospheric Chemistry and Physics, 2007, 7, 2447-2473.	1.9	286
8	OH and HO2 Chemistry in the urban atmosphere of New York City. Atmospheric Environment, 2003, 37, 3639-3651.	1.9	283
9	Introducing the concept of Potential Aerosol Mass (PAM). Atmospheric Chemistry and Physics, 2007, 7, 5727-5744.	1.9	269
10	Relationship between Oxidation Level and Optical Properties of Secondary Organic Aerosol. Environmental Science & Technology, 2013, 47, 6349-6357.	4.6	265
11	Relationship between aerosol oxidation level and hygroscopic properties of laboratory generated secondary organic aerosol (SOA) particles. Geophysical Research Letters, 2010, 37, .	1.5	257
12	Chemistry and transport of pollution over the Gulf of Mexico and the Pacific: spring 2006 INTEX-B campaign overview and first results. Atmospheric Chemistry and Physics, 2009, 9, 2301-2318.	1.9	237
13	Overview of the summer 2004 Intercontinental Chemical Transport Experiment–North America (INTEX-A). Journal of Geophysical Research, 2006, 111, .	3.3	233
14	Chemistry of hydrogen oxide radicals (HO <sub>x</sub> ) in the Arctic troposphere in spring. Atmospheric Chemistry and Physics, 2010, 10, 5823-5838.	1.9	220
15	Secondary organic aerosol formation and primary organic aerosol oxidation from biomass-burning smoke in a flow reactor during FLAME-3. Atmospheric Chemistry and Physics, 2013, 13, 11551-11571.	1.9	218
16	Atmospheric oxidation capacity in the summer of Houston 2006: Comparison with summer measurements in other metropolitan studies. Atmospheric Environment, 2010, 44, 4107-4115.	1.9	214
17	Chemistry of HOx radicals in the upper troposphere. Atmospheric Environment, 2001, 35, 469-489.	1.9	211
18	DOAS measurement of glyoxal as an indicator for fast VOC chemistry in urban air. Geophysical Research Letters, 2005, 32, .	1.5	211

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19	Insights into hydroxyl measurements and atmospheric oxidation in a California forest. Atmospheric Chemistry and Physics, 2012, 12, 8009-8020.	1.9	211
20	Ozone production rates as a function of NOxabundances and HOxproduction rates in the Nashville urban plume. Journal of Geophysical Research, 2002, 107, ACH 7-1.	3.3	207
21	Emissions of black carbon, organic, and inorganic aerosols from biomass burning in North America and Asia in 2008. Journal of Geophysical Research, 2011, 116, .	3.3	206
22	Atmospheric oxidation in the Mexico City Metropolitan Area (MCMA) during April 2003. Atmospheric Chemistry and Physics, 2006, 6, 2753-2765.	1.9	204
23	Kinetics of O <sub>3</sub> destruction by ClO and BrO within the Antarctic vortex: An analysis based on in situ ERâ€2 data. Journal of Geophysical Research, 1989, 94, 11480-11520.	3.3	199
24	Ozone destruction by chlorine radicals within the Antarctic vortex: The spatial and temporal evolution of ClOâ€O <sub>3</sub> anticorrelation based on in situ ERâ€2 data. Journal of Geophysical Research, 1989, 94, 11465-11479.	3.3	183
25	A Laser-induced Fluorescence Instrument for Detecting Tropospheric OH and HO2: Characteristics and Calibration. Journal of Atmospheric Chemistry, 2004, 47, 139-167.	1.4	182
26	Transitions from Functionalization to Fragmentation Reactions of Laboratory Secondary Organic Aerosol (SOA) Generated from the OH Oxidation of Alkane Precursors. Environmental Science & Technology, 2012, 46, 5430-5437.	4.6	181
27	Atmospheric fates of Criegee intermediates in the ozonolysis of isoprene. Physical Chemistry Chemical Physics, 2016, 18, 10241-10254.	1.3	179
28	Effect of oxidant concentration, exposure time, and seed particles on secondary organic aerosol chemical composition and yield. Atmospheric Chemistry and Physics, 2015, 15, 3063-3075.	1.9	177
29	OH and HO2concentrations, sources, and loss rates during the Southern Oxidants Study in Nashville, Tennessee, summer 1999. Journal of Geophysical Research, 2003, 108, .	3.3	174
30	Photochemistry of HOxin the upper troposphere at northern midlatitudes. Journal of Geophysical Research, 2000, 105, 3877-3892.	3.3	173
31	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
32	The Deep Convective Clouds and Chemistry (DC3) Field Campaign. Bulletin of the American Meteorological Society, 2015, 96, 1281-1309.	1.7	165
33	HO <sub><i>x</i></sub> chemistry during INTEXâ€A 2004: Observation, model calculation, and comparison with previous studies. Journal of Geophysical Research, 2008, 113, .	3.3	163
34	Behavior of OH and HO2 in the winter atmosphere in New York City. Atmospheric Environment, 2006, 40, 252-263.	1.9	154
35	Hydroxyl radicals from secondary organic aerosol decomposition in water. Atmospheric Chemistry and Physics, 2016, 16, 1761-1771.	1.9	138
36	Real-time measurements of secondary organic aerosol formation and aging from ambient air in an oxidation flow reactor in the Los Angeles area. Atmospheric Chemistry and Physics, 2016, 16, 7411-7433.	1.9	137

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37	Impacts of Combustion Conditions and Photochemical Processing on the Light Absorption of Biomass Combustion Aerosol. Environmental Science & amp; Technology, 2015, 49, 14663-14671.	4.6	126
38	Modeling the Radical Chemistry in an Oxidation Flow Reactor: Radical Formation and Recycling, Sensitivities, and the OH Exposure Estimation Equation. Journal of Physical Chemistry A, 2015, 119, 4418-4432.	1.1	126
39	Measurement of tropospheric OH and HO2by laser-induced fluorescence at low pressure. Journal of Geophysical Research, 1994, 99, 3543.	3.3	125
40	Daytime HONO vertical gradients during SHARP 2009 in Houston, TX. Atmospheric Chemistry and Physics, 2012, 12, 635-652.	1.9	123
41	In situ secondary organic aerosol formation from ambient pine forest air using an oxidation flow reactor. Atmospheric Chemistry and Physics, 2016, 16, 2943-2970.	1.9	122
42	Atmospheric amines and ammonia measured with a chemical ionization mass spectrometer (CIMS). Atmospheric Chemistry and Physics, 2014, 14, 12181-12194.	1.9	121
43	Ultraviolet and visible complex refractive indices of secondary organic material produced by photooxidation of the aromatic compounds toluene and <i>m</i> -xylene. Atmospheric Chemistry and Physics, 2015, 15, 1435-1446.	1.9	121
44	Total OH Loss Rate Measurement. Journal of Atmospheric Chemistry, 2001, 39, 105-122.	1.4	118
45	HO <sub>x</sub> radical chemistry in oxidation flow reactors with low-pressure mercury lamps systematically examined by modeling. Atmospheric Measurement Techniques, 2015, 8, 4863-4890.	1.2	118
46	Global airborne sampling reveals a previously unobserved dimethyl sulfide oxidation mechanism in the marine atmosphere. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 4505-4510.	3.3	118
47	Non-OH chemistry in oxidation flow reactors for the study of atmospheric chemistry systematically examined by modeling. Atmospheric Chemistry and Physics, 2016, 16, 4283-4305.	1.9	117
48	The Potential for Ozone Depletion in the Arctic Polar Stratosphere. Science, 1991, 252, 1260-1266.	6.0	115
49	Large upper tropospheric ozone enhancements above midlatitude North America during summer: In situ evidence from the IONS and MOZAIC ozone measurement network. Journal of Geophysical Research, 2006, 111, .	3.3	113
50	Inter-comparison of laboratory smog chamber and flow reactor systems on organic aerosol yield and composition. Atmospheric Measurement Techniques, 2015, 8, 2315-2332.	1.2	110
51	In situ observations of ClO in the Arctic stratosphere: ERâ€2 aircraft results from 59°N TO 80°N latitude. Geophysical Research Letters, 1990, 17, 505-508.	1.5	109
52	Direct measurements of urban OH reactivity during Nashville SOS in summer 1999. Journal of Environmental Monitoring, 2003, 5, 68-74.	2.1	106
53	Secondary organic aerosol production from local emissions dominates the organic aerosol budget over Seoul, South Korea, during KORUS-AQ. Atmospheric Chemistry and Physics, 2018, 18, 17769-17800.	1.9	105
54	Dependence of SOA oxidation on organic aerosol mass concentration and OH exposure: experimental PAM chamber studies. Atmospheric Chemistry and Physics, 2011, 11, 1837-1852.	1.9	103

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55	Airborne in-situ OH and HO2observations in the cloud-free troposphere and lower stratosphere during SUCCESS. Geophysical Research Letters, 1998, 25, 1701-1704.	1.5	100
56	Deep convection as a source of new particles in the midlatitude upper troposphere. Journal of Geophysical Research, 2002, 107, AAC 6-1-AAC 6-10.	3.3	99
57	In situ observations of ClO in the Antarctic: ERâ€2 aircraft results from 54°S to 72°S latitude. Journal of Geophysical Research, 1989, 94, 16649-16663.	3.3	98
58	Sources of HOxand production of ozone in the upper troposphere over the United States. Geophysical Research Letters, 1998, 25, 1709-1712.	1.5	98
59	Isoprene and its oxidation products, methacrolein and methylvinyl ketone, at an urban forested site during the 1999 Southern Oxidants Study. Journal of Geophysical Research, 2001, 106, 8035-8046.	3.3	93
60	Atmospheric oxidation chemistry and ozone production: Results from SHARP 2009 in Houston, Texas. Journal of Geophysical Research D: Atmospheres, 2013, 118, 5770-5780.	1.2	92
61	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
62	Airborne observations of total RONO <sub>2</sub> : new constraints on the yield and lifetime of isoprene nitrates. Atmospheric Chemistry and Physics, 2009, 9, 1451-1463.	1.9	91
63	HO2/OH and RO2/HO2ratios during the Tropospheric OH Photochemistry Experiment: Measurement and theory. Journal of Geophysical Research, 1997, 102, 6379-6391.	3.3	90
64	OH, HO2, and OH reactivity during the PMTACS-NY Whiteface Mountain 2002 campaign: Observations and model comparison. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	90
65	Oxygenated volatile organic chemicals in the oceans: Inferences and implications based on atmospheric observations and air-sea exchange models. Geophysical Research Letters, 2003, 30, .	1.5	89
66	The Chemistry of Atmosphere-Forest Exchange (CAFE) Model – Part 2: Application to BEARPEX-2007 observations. Atmospheric Chemistry and Physics, 2011, 11, 1269-1294.	1.9	85
67	Characterization of Wintertime Reactive Oxygen Species Concentrations in Flushing, New York. Aerosol Science and Technology, 2007, 41, 97-111.	1.5	84
68	Exposure of Lung Epithelial Cells to Photochemically Aged Secondary Organic Aerosol Shows Increased Toxic Effects. Environmental Science and Technology Letters, 2018, 5, 424-430.	3.9	83
69	Influence of lateral and top boundary conditions on regional air quality prediction: A multiscale study coupling regional and global chemical transport models. Journal of Geophysical Research, 2007, 112, .	3.3	82
70	Volatility and lifetime against OH heterogeneous reaction of ambient isoprene-epoxydiols-derived secondary organic aerosol (IEPOX-SOA). Atmospheric Chemistry and Physics, 2016, 16, 11563-11580.	1.9	82
71	Peroxy radicals from photostationary state deviations and steady state calculations during the Tropospheric OH Photochemistry Experiment at Idaho Hill, Colorado, 1993. Journal of Geophysical Research, 1997, 102, 6369-6378.	3.3	79
72	Constraints on Aerosol Nitrate Photolysis as a Potential Source of HONO and NO <sub><i>x</i></sub> . Environmental Science & Technology, 2018, 52, 13738-13746.	4.6	79

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73	Laser magnetic resonance, resonance fluorescence, resonance absorption studies of the reaction kinetics of atomic oxygen + hydroxyl .fwdarw. atomic hydrogen + molecular oxygen, atomic oxygen + perhydroxyl .fwdarw. hydroxyl + molecular oxygen, atomic nitrogen + hydroxyl .fwdarw. atomic hydrogen + nitric oxide, atomic nitrogen + perhydroxyl .fwdarw. products at 300 K between 1 and 5	2.9	78
74	OH and HO2measurements using laser-induced fluorescence. Journal of Geophysical Research, 1997, 102, 6427-6436.	3.3	76
75	Observations of HOxand its relationship with NOxin the upper troposphere during SONEX. Journal of Geophysical Research, 2000, 105, 3771-3783.	3.3	76
76	Observations of total RONO <sub>2</sub> over the boreal forest: NO <sub>x</sub> sinks and HNO <sub>3</sub> sources. Atmospheric Chemistry and Physics, 2013, 13, 4543-4562.	1.9	76
77	Time-resolved characterization of primary particle emissions and secondary particle formation from a modern gasoline passenger car. Atmospheric Chemistry and Physics, 2016, 16, 8559-8570.	1.9	76
78	In situ observations of BrO over Antarctica: ERâ€2 aircraft results From 54°S to 72°S latitude. Journal of Geophysical Research, 1989, 94, 16639-16647.	3.3	75
79	Observation of isoprene hydroxynitrates in the southeastern United States and implications for the fate of NO <sub><i>x</i></sub> . Atmospheric Chemistry and Physics, 2015, 15, 11257-11272.	1.9	75
80	The lifetime of nitrogen oxides in an isoprene-dominated forest. Atmospheric Chemistry and Physics, 2016, 16, 7623-7637.	1.9	75
81	Comparison of OH reactivity measurements in the atmospheric simulation chamber SAPHIR. Atmospheric Measurement Techniques, 2017, 10, 4023-4053.	1.2	74
82	Kinetic and mechanistic investigations of fluorine atom + water/water-d2 and fluorine atom + hydrogen/deuterium over the temperature range 240-373 K. The Journal of Physical Chemistry, 1989, 93, 4068-4079.	2.9	73
83	A reevaluation of airborne HOxobservations from NASA field campaigns. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	72
84	Testing fast photochemical theory during TRACE-P based on measurements of OH, HO2, and CH2O. Journal of Geophysical Research, 2004, 109, .	3.3	71
85	In situ measurements of BrO in the Arctic stratosphere. Geophysical Research Letters, 1990, 17, 513-516.	1.5	70
86	Measurement of HO2NO2in the free troposphere during the Intercontinental Chemical Transport Experiment–North America 2004. Journal of Geophysical Research, 2007, 112, .	3.3	68
87	OH and HO2chemistry in the North Atlantic free troposphere. Geophysical Research Letters, 1999, 26, 3077-3080.	1.5	67
88	A comparison of chemical mechanisms based on TRAMP-2006 field data. Atmospheric Environment, 2010, 44, 4116-4125.	1.9	67
89	Kinetics of mercapto (SH) with nitrogen dioxide, ozone, molecular oxygen, and hydrogen peroxide. The Journal of Physical Chemistry, 1985, 89, 5505-5510.	2.9	65
90	Deciphering the Role of Radical Precursors during the Second Texas Air Quality Study. Journal of the Air and Waste Management Association, 2009, 59, 1258-1277.	0.9	65

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91	Seasonal differences in the photochemistry of the South Pacific: A comparison of observations and model results from PEM-Tropics A and B. Journal of Geophysical Research, 2001, 106, 32749-32766.	3.3	64
92	Measuring OH and HO2in the Troposphere by Laser-Induced Fluorescence at Low Pressure. Journals of the Atmospheric Sciences, 1995, 52, 3328-3336.	0.6	63
93	Effects of temperature-dependent NO <sub><i>x</i></sub> emissions on continental ozone production. Atmospheric Chemistry and Physics, 2018, 18, 2601-2614.	1.9	62
94	Hydroxyl and Peroxy Radical Chemistry in a Rural Area of Central Pennsylvania: Observations and Model Comparisons. Journal of Atmospheric Chemistry, 2005, 52, 231-257.	1.4	61
95	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
96	Interference Testing for Atmospheric HOxMeasurements by Laser-induced Fluorescence. Journal of Atmospheric Chemistry, 2004, 47, 169-190.	1.4	59
97	Evidence for a nitrous acid (HONO) reservoir at the ground surface in Bakersfield, CA, during CalNex 2010. Journal of Geophysical Research D: Atmospheres, 2014, 119, 9093-9106.	1.2	59
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	Reactive Oxygen Species Formed by Secondary Organic Aerosols in Water and Surrogate Lung Fluid. Environmental Science & Technology, 2018, 52, 11642-11651.	4.6	59
100	Ozone production chemistry in the presence of urban plumes. Faraday Discussions, 2016, 189, 169-189.	1.6	56
101	Influence of fuel ethanol content on primary emissions and secondary aerosol formation potential for a modern flex-fuel gasoline vehicle. Atmospheric Chemistry and Physics, 2017, 17, 5311-5329.	1.9	55
102	Testing Atmospheric Oxidation in an Alabama Forest. Journals of the Atmospheric Sciences, 2016, 73, 4699-4710.	0.6	54
103	In situ observations of midlatitude stratospheric ClO and BrO. Geophysical Research Letters, 1986, 13, 1391-1394.	1.5	53
104	Calculations of ozone destruction during the 1988/89 Arctic winter. Geophysical Research Letters, 1990, 17, 553-556.	1.5	53
105	Ozone production in the upper troposphere and the influence of aircraft during SONEX: approach of NOx-saturated conditions. Geophysical Research Letters, 1999, 26, 3081-3084.	1.5	53
106	Reactive oxygen species formed in aqueous mixtures of secondary organic aerosols and mineral dust influencing cloud chemistry and public health in the Anthropocene. Faraday Discussions, 2017, 200, 251-270.	1.6	51
107	Secondary organic aerosol from VOC mixtures in an oxidation flow reactor. Atmospheric Environment, 2017, 161, 210-220.	1.9	51
108	On the flux of oxygenated volatile organic compounds from organic aerosol oxidation. Geophysical Research Letters, 2006, 33, .	1.5	50

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109	Observations of elevated formaldehyde over a forest canopy suggest missing sources from rapid oxidation of arboreal hydrocarbons. Atmospheric Chemistry and Physics, 2010, 10, 8761-8781.	1.9	50
110	Gas and aerosol carbon in California: comparison of measurements and model predictions in Pasadena and Bakersfield. Atmospheric Chemistry and Physics, 2015, 15, 5243-5258.	1.9	48
111	Large-scale ozone and aerosol distributions, air mass characteristics, and ozone fluxes over the western Pacific Ocean in late winter/early spring. Journal of Geophysical Research, 2003, 108, .	3.3	46
112	Detailed comparisons of airborne formaldehyde measurements with box models during the 2006 INTEX-B and MILAGRO campaigns: potential evidence for significant impacts of unmeasured and multi-generation volatile organic carbon compounds. Atmospheric Chemistry and Physics, 2011, 11, 11867-11894.	1.9	46
113	Anthropogenic Sulfur Perturbations on Biogenic Oxidation: SO <sub>2</sub> Additions Impact Gas-Phase OH Oxidation Products of α- and β-Pinene. Environmental Science & Technology, 2016, 50, 1269-1279.	4.6	45
114	Experimental evidence for the importance of convected methylhydroperoxide as a source of hydrogen oxide (HOx) radicals in the tropical upper troposphere. Journal of Geophysical Research, 2001, 106, 32709-32716.	3.3	44
115	Peroxy radical behavior during the Transport and Chemical Evolution over the Pacific (TRACE-P) campaign as measured aboard the NASA P-3B aircraft. Journal of Geophysical Research, 2003, 108, .	3.3	44
116	Large-scale air mass characteristics observed over the remote tropical Pacific Ocean during March-April 1999: Results from PEM-Tropics B field experiment. Journal of Geophysical Research, 2001, 106, 32481-32501.	3.3	43
117	Nighttime isoprene trends at an urban forested site during the 1999 Southern Oxidant Study. Journal of Geophysical Research, 2002, 107, ACH 7-1.	3.3	43
118	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
119	Controlled nitric oxide production via O( <sup>1</sup> D) +â€`N <sub>2</sub> O reactions for use in oxidation flow reactor studies. Atmospheric Measurement Techniques, 2017, 10, 2283-2298.	1.2	42
120	In Situ Northern Mid-Latitude Observations of ClO, O3, and BrO in the Wintertime Lower Stratosphere. Science, 1988, 242, 558-562.	6.0	41
121	Photochemical modeling of glyoxal at a rural site: observations and analysis from BEARPEX 2007. Atmospheric Chemistry and Physics, 2011, 11, 8883-8897.	1.9	41
122	Balloonâ€borne in situ measurements of CLO and ozone: Implications for heterogeneous chemistry and midâ€latitude ozone loss. Geophysical Research Letters, 1993, 20, 1795-1798.	1.5	40
123	Measurement of Ozone Production Sensor. Atmospheric Measurement Techniques, 2010, 3, 545-555.	1.2	40
124	Changes in ozone production and VOC reactivity in the atmosphere of the Mexico City Metropolitan Area. Atmospheric Environment, 2020, 238, 117747.	1.9	39
125	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
126	Kinetics and mechanism of X + ClNO .fwdarw. XCl + NO (X = Cl, F, Br, OH, O, N) from 220 K to 450 K. Correlation of reactivity and activation energy with electron affinity of X. The Journal of Physical Chemistry, 1989, 93, 1022-1029.	2.9	38

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127	Factors controlling tropospheric O3, OH, NOxand SO2over the tropical Pacific during PEM-Tropics B. Journal of Geophysical Research, 2001, 106, 32733-32747.	3.3	38
128	Laboratory Studies on Secondary Organic Aerosol Formation from Crude Oil Vapors. Environmental Science & Technology, 2013, 47, 12566-12574.	4.6	38
129	Evaluation of simulated O3 production efficiency during the KORUS-AQ campaign: Implications for anthropogenic NOx emissions in Korea. Elementa, 2019, 7, .	1.1	38
130	Isoprene suppression of new particle formation: Potential mechanisms and implications. Journal of Geophysical Research D: Atmospheres, 2016, 121, 14,621.	1.2	37
131	Southeast Atmosphere Studies: learning from model-observation syntheses. Atmospheric Chemistry and Physics, 2018, 18, 2615-2651.	1.9	36
132	Constraining remote oxidation capacity with ATom observations. Atmospheric Chemistry and Physics, 2020, 20, 7753-7781.	1.9	36
133	In situ measurements of midlatitude ClO in winter. Geophysical Research Letters, 1991, 18, 21-24.	1.5	35
134	Role of convection in redistributing formaldehyde to the upper troposphere over North America and the North Atlantic during the summer 2004 INTEX campaign. Journal of Geophysical Research, 2008, 113,	3.3	35
135	Direct measurement of ozone production rates in Houston in 2009 and comparison with two estimation methods. Atmospheric Chemistry and Physics, 2012, 12, 1203-1212.	1.9	35
136	Summertime buildup and decay of lightning NO <sub>x</sub> and aged thunderstorm outflow above North America. Journal of Geophysical Research, 2009, 114, .	3.3	34
137	Urban measurements of atmospheric nitrous acid: A caveat on the interpretation of the HONO photostationary state. Journal of Geophysical Research D: Atmospheres, 2013, 118, 12,274.	1.2	34
138	Changes in ozone photochemical regime in Fresno, California from 1994 to 2018 deduced from changes in the weekend effect. Environmental Pollution, 2020, 263, 114380.	3.7	34
139	Intercomparison of peroxy radical measurements at a rural site using laser-induced fluorescence and Peroxy Radical Chemical Ionization Mass Spectrometer (PerCIMS) techniques. Journal of Geophysical Research, 2003, 108, .	3.3	33
140	Preface [to special section on Photochemistry of Ozone Loss in the Arctic Region in Summer (POLARIS)]. Journal of Geophysical Research, 1999, 104, 26481-26495.	3.3	32
141	Loss of isoprene and sources of nighttime OH radicals at a rural site in the United States: Results from photochemical models. Journal of Geophysical Research, 2002, 107, ACH 2-1-ACH 2-14.	3.3	30
142	Global sensitivity analysis of ozone production and O3–NOx–VOC limitation based on field data. Atmospheric Environment, 2012, 55, 288-296.	1.9	30
143	Bulk and molecular-level characterization of laboratory-aged biomass burning organic aerosol from oak leaf and heartwood fuels. Atmospheric Chemistry and Physics, 2018, 18, 2199-2224.	1.9	30
144	Performance evaluation of an air quality forecast modeling system for a summer and winter season – Photochemical oxidants and their precursors. Atmospheric Environment, 2008, 42, 8585-8599.	1.9	29

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145	Primary and Secondary Sources of Gas-Phase Organic Acids from Diesel Exhaust. Environmental Science & Technology, 2017, 51, 10872-10880.	4.6	29
146	Kinetics and mechanism of the hydroxyl + hydroperoxo reaction. The Journal of Physical Chemistry, 1989, 93, 1030-1035.	2.9	28
147	Airborne intercomparison of HO <sub>x</sub> measurements using laser-induced fluorescence and chemical ionization mass spectrometry during ARCTAS. Atmospheric Measurement Techniques, 2012, 5, 2025-2037.	1.2	28
148	Measuring atmospheric naphthalene with laser-induced fluorescence. Atmospheric Chemistry and Physics, 2004, 4, 563-569.	1.9	27
149	A laser induced fluorescence instrument for measuring tropospheric NO2. Review of Scientific Instruments, 1997, 68, 4253-4262.	0.6	26
150	An Atmospheric Constraint on the NO <sub>2</sub> Dependence of Daytime Near-Surface Nitrous Acid (HONO). Environmental Science & Technology, 2015, 49, 12774-12781.	4.6	26
151	Understanding isoprene photooxidation using observations and modeling over a subtropical forest in the southeastern US. Atmospheric Chemistry and Physics, 2016, 16, 7725-7741.	1.9	26
152	Model Evaluation of New Techniques for Maintaining High-NO Conditions in Oxidation Flow Reactors for the Study of OH-Initiated Atmospheric Chemistry. ACS Earth and Space Chemistry, 2018, 2, 72-86.	1.2	26
153	Direct ozone production rate measurements and their use in assessing ozone source and receptor regions for Houston in 2013. Atmospheric Environment, 2015, 114, 83-91.	1.9	25
154	Missing OH reactivity in the global marine boundary layer. Atmospheric Chemistry and Physics, 2020, 20, 4013-4029.	1.9	25
155	Modeling organic aerosol from the oxidation of α-pinene in a Potential Aerosol Mass (PAM) chamber. Atmospheric Chemistry and Physics, 2013, 13, 5017-5031.	1.9	24
156	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
157	Physical properties of secondary photochemical aerosol from OH oxidation of a cyclic siloxane. Atmospheric Chemistry and Physics, 2019, 19, 1649-1664.	1.9	24
158	The sunrise and sunset variation of ClO in the lower stratosphere. Geophysical Research Letters, 1990, 17, 509-512.	1.5	23
159	Heterogeneous chemistry on liquid sulfate aerosols: A comparison of in situ measurements with zeroâ€dimensional model calculations. Geophysical Research Letters, 1990, 17, 1283-1286.	1.5	23
160	Observational Constraints on the Oxidation of NOx in the Upper Troposphere. Journal of Physical Chemistry A, 2016, 120, 1468-1478.	1.1	23
161	Exploring Oxidation in the Remote Free Troposphere: Insights From Atmospheric Tomography (ATom). Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031685.	1.2	23
162	Measurements of ClO and O <sub>3</sub> from 21°N to 61°N in the lower stratosphere during February 1988: Implications for heterogeneous chemistry. Geophysical Research Letters, 1991, 18, 2273-2276.	1.5	22

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