Steven Brown

List of Publications by Year in descending order

231 papers	16,346 citations	10351 72 h-index	24915 109 g-index
251 all docs	251 docs citations	251 times ranked	7812 citing authors

#	Article	IF	Citations
1	The <i>Fires, Asian, and Stratospheric Transport</i>â€“Las Vegas Ozone Study (<i>FAST</i>-LVOS). Atmospheric Chemistry and Physics, 2022, 22, 1707-1737.	1.9	7
2	Nocturnal Atmospheric Oxidative Processes in the Indoâ€Gangetic Plain and Their Variation During the COVIDâ€19 Lockdowns. Geophysical Research Letters, 2022, 49, .	1.5	6
3	Complexity in the Evolution, Composition, and Spectroscopy of Brown Carbon in Aircraft Measurements of Wildfire Plumes. Geophysical Research Letters, 2022, 49, .	1.5	10
4	A Four Carbon Organonitrate as a Significant Product of Secondary Isoprene Chemistry. Geophysical Research Letters, 2022, 49, .	1.5	8
5	The global impacts of COVID-19 lockdowns on urban air pollution. Elementa, 2021, 9, .	1.1	94
6	Optical Properties of Secondary Organic Aerosol Produced by Nitrate Radical Oxidation of Biogenic Volatile Organic Compounds. Environmental Science & Technology, 2021, 55, 2878-2889.	4.6	35
7	Wintertime Formaldehyde: Airborne Observations and Source Apportionment Over the Eastern United States. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033518.	1.2	9
8	Gas-Particle Partitioning and SOA Yields of Organonitrate Products from NO₃-Initiated Oxidation of Isoprene under Varied Chemical Regimes. ACS Earth and Space Chemistry, 2021, 5, 785-800.	1.2	15
9	The role of coarse aerosol particles as a sink of HNO₃ in wintertime pollution events in the Salt Lake Valley. Atmospheric Chemistry and Physics, 2021, 21, 8111-8126.	1.9	9
10	Complex refractive indices in the ultraviolet and visible spectral region for highly absorbing non-spherical biomass burning aerosol. Atmospheric Chemistry and Physics, 2021, 21, 7235-7252.	1.9	11
11	Coupled Air Quality and Boundary-Layer Meteorology in Western U.S. Basins during Winter: Design and Rationale for a Comprehensive Study. Bulletin of the American Meteorological Society, 2021, 102, E2012-E2033.	1.7	14
12	Quantifying Methane and Ozone Precursor Emissions from Oil and Gas Production Regions across the Contiguous US. Environmental Science & Technology, 2021, 55, 9129-9139.	4.6	23
13	Measurements of Total OH Reactivity During CalNexâ€LA. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD032988.	1.2	5
14	Variability and Time of Day Dependence of Ozone Photochemistry in Western Wildfire Plumes. Environmental Science & Technology, 2021, 55, 10280-10290.	4.6	31
15	Molecular composition and volatility of multi-generation products formed from isoprene oxidation by nitrate radical. Atmospheric Chemistry and Physics, 2021, 21, 10799-10824.	1.9	19
16	Validation of a new cavity ring-down spectrometer for measuring tropospheric gaseous hydrogen chloride. Atmospheric Measurement Techniques, 2021, 14, 5859-5871.	1.2	7
17	Volatile chemical product emissions enhance ozone and modulate urban chemistry. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	103
18	Reactions of NO₃ with aromatic aldehydes: gas-phase kinetics and insights into the mechanism of the reaction. Atmospheric Chemistry and Physics, 2021, 21, 13537-13551.	1.9	7

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19	Theoretical and experimental study of peroxy and alkoxy radicals in the NO₃-initiated oxidation of isoprene. Physical Chemistry Chemical Physics, 2021, 23, 5496-5515.	1.3	22
20	Scattering and absorption cross sections of atmospheric gases in the ultravioletâ€“visible wavelength range (307â€“725â€‰nm). Atmospheric Chemistry and Physics, 2021, 21, 14927-14940.	1.9	13
21	Nighttime and daytime dark oxidation chemistry in wildfire plumes: an observation and model analysis of FIREX-AQ aircraft data. Atmospheric Chemistry and Physics, 2021, 21, 16293-16317.	1.9	34
22	Novel Analysis to Quantify Plume Crosswind Heterogeneity Applied to Biomass Burning Smoke. Environmental Science & Technology, 2021, 55, 15646-15657.	4.6	11
23	Ozone chemistry in western U.S. wildfire plumes. Science Advances, 2021, 7, eabl3648.	4.7	45
24	Large contribution of biomass burning emissions to ozone throughout the global remote troposphere. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	51
25	Formaldehyde evolution in US wildfire plumes during the Fire Influence on Regional to Global Environments and Air Quality experiment (FIREX-AQ). Atmospheric Chemistry and Physics, 2021, 21, 18319-18331.	1.9	24
26	Formation of Secondary Brown Carbon in Biomass Burning Aerosol Proxies through NO₃ Radical Reactions. Environmental Science & Technology, 2020, 54, 1395-1405.	4.6	96
27	Laboratory Insights into the Diel Cycle of Optical and Chemical Transformations of Biomass Burning Brown Carbon Aerosols. Environmental Science & Technology, 2020, 54, 11827-11837.	4.6	28
28	Heterogeneous N₂O₅ reactions on atmospheric aerosols at four Chinese sites: improving model representation of uptake parameters. Atmospheric Chemistry and Physics, 2020, 20, 4367-4378.	1.9	33
29	Single-photon laser-induced fluorescence detection of nitric oxide at sub-parts-per-trillion mixing ratios. Atmospheric Measurement Techniques, 2020, 13, 2425-2439.	1.2	18
30	No Evidence for a Significant Impact of Heterogeneous Chemistry on Radical Concentrations in the North China Plain in Summer 2014. Environmental Science & Technology, 2020, 54, 5973-5979.	4.6	67
31	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
32	Characterizing sources of high surface ozone events in the southwestern US with intensive field measurements and two global models. Atmospheric Chemistry and Physics, 2020, 20, 10379-10400.	1.9	15
33	Evolution of NO₃ reactivity during the oxidation of isoprene. Atmospheric Chemistry and Physics, 2020, 20, 10459-10475.	1.9	10
34	The nitrogen budget of laboratory-simulated western US wildfires during the FIREX 2016 Fire Lab study. Atmospheric Chemistry and Physics, 2020, 20, 8807-8826.	1.9	45
35	Observational Constraints on the Formation of Cl₂ From the Reactive Uptake of ClNO₂ on Aerosols in the Polluted Marine Boundary Layer. Journal of Geophysical Research D: Atmospheres, 2019, 124, 8851-8869.	1.2	19
36	Comparison of Airborne Reactive Nitrogen Measurements During WINTER. Journal of Geophysical Research D: Atmospheres, 2019, 124, 10483-10502.	1.2	7

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37	Biomass Burning Markers and Residential Burning in the WINTER Aircraft Campaign. Journal of Geophysical Research D: Atmospheres, 2019, 124, 1846-1861.	1.2	30
38	On the sources and sinks of atmospheric VOCs: an integrated analysis of recent aircraft campaigns over North America. Atmospheric Chemistry and Physics, 2019, 19, 9097-9123.	1.9	32
39	On the contribution of nocturnal heterogeneous reactive nitrogen chemistry to particulate matter formation during wintertime pollution events in Northern Utah. Atmospheric Chemistry and Physics, 2019, 19, 9287-9308.	1.9	33
40	Sulfate and Carboxylate Suppress the Formation of ClNO2 at Atmospheric Interfaces. ACS Earth and Space Chemistry, 2019, 3, 1987-1997.	1.2	18
41	Nighttime Chemical Transformation in Biomass Burning Plumes: A Box Model Analysis Initialized with Aircraft Observations. Environmental Science & Technology, 2019, 53, 2529-2538.	4.6	68
42	Rates of Wintertime Atmospheric SO₂ Oxidation based on Aircraft Observations during Clearâ€Sky Conditions over the Eastern United States. Journal of Geophysical Research D: Atmospheres, 2019, 124, 6630-6649.	1.2	12
43	Hydrocarbon Removal in Power Plant Plumes Shows Nitrogen Oxide Dependence of Hydroxyl Radicals. Geophysical Research Letters, 2019, 46, 7752-7760.	1.5	9
44	Role of Criegee Intermediates in Secondary Sulfate Aerosol Formation in Nocturnal Power Plant Plumes in the Southeast US. ACS Earth and Space Chemistry, 2019, 3, 748-759.	1.2	16
45	An Odd Oxygen Framework for Wintertime Ammonium Nitrate Aerosol Pollution in Urban Areas: NO_x and VOC Control as Mitigation Strategies. Geophysical Research Letters, 2019, 46, 4971-4979.	1.5	80
46	Kinetics of the reactions of NO3 radical with alkanes. Physical Chemistry Chemical Physics, 2019, 21, 4246-4257.	1.3	12
47	Simulating the Weekly Cycle of NO x â€VOCâ€HO x â€O 3 Photochemical System in the South Coast of California During CalNexâ€2010 Campaign. Journal of Geophysical Research D: Atmospheres, 2019, 124, 3532-3555.	1.2	8
48	A broadband cavity-enhanced spectrometer for atmospheric trace gas measurements and Rayleigh scattering cross sections in the cyan region (470â€“540â€‰nm). Atmospheric Measurement Techniques, 2019, 12, 1277-1293.	1.2	21
49	Widespread Pollution From Secondary Sources of Organic Aerosols During Winter in the Northeastern United States. Geophysical Research Letters, 2019, 46, 2974-2983.	1.5	25
50	OH chemistry of non-methane organic gases (NMOGs) emitted from laboratory and ambient biomass burning smoke: evaluating the influence of furans and oxygenated aromatics on ozone and secondary NMOG formation. Atmospheric Chemistry and Physics, 2019, 19, 14875-14899.	1.9	92
51	Wintertime spatial distribution of ammonia and its emission sources in the Great Salt Lake region. Atmospheric Chemistry and Physics, 2019, 19, 15691-15709.	1.9	15
52	Atmospheric loss of nitrous oxide (N₂O) is not influenced by its potential reactions with OH and NO₃radicals. Physical Chemistry Chemical Physics, 2019, 21, 24592-24600.	1.3	4
53	Isotopic characterization of nitrogen oxides (NO_{<i>x</i>}), nitrous acid (HONO), and nitrate (<i>p</i>NO₃^{â^'} from laboratory biomass burning during FIREX. Atmospheric Measurement Techniques, 2019, 12, 6303-6317.	1.2	27
54	Anthropogenic Control Over Wintertime Oxidation of Atmospheric Pollutants. Geophysical Research Letters, 2019, 46, 14826-14835.	1.5	28

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55	Evolution of the Complex Refractive Index of Secondary Organic Aerosols during Atmospheric Aging. Environmental Science & Technology, 2018, 52, 3456-3465.	4.6	40
56	Heterogeneous N₂O₅ Uptake During Winter: Aircraft Measurements During the 2015 WINTER Campaign and Critical Evaluation of Current Parameterizations. Journal of Geophysical Research D: Atmospheres, 2018, 123, 4345-4372.	1.2	103
57	Wintertime Overnight NO_x Removal in a Southeastern United States Coalâ€fired Power Plant Plume: A Model for Understanding Winter NO_x Processing and its Implications. Journal of Geophysical Research D: Atmospheres, 2018, 123, 1412-1425.	1.2	14
58	Synthesis of the Southeast Atmosphere Studies: Investigating Fundamental Atmospheric Chemistry Questions. Bulletin of the American Meteorological Society, 2018, 99, 547-567.	1.7	62
59	Southeast Atmosphere Studies: learning from model-observation syntheses. Atmospheric Chemistry and Physics, 2018, 18, 2615-2651.	1.9	36
60	Non-methane organic gas emissions from biomass burning: identification, quantification, and emission factors from PTR-ToF during the FIREX 2016 laboratory experiment. Atmospheric Chemistry and Physics, 2018, 18, 3299-3319.	1.9	233
61	Primary emissions of glyoxal and methylglyoxal from laboratory measurements of open biomass burning. Atmospheric Chemistry and Physics, 2018, 18, 15451-15470.	1.9	28
62	Airborne and ground-based observations of ammonium-nitrate-dominated aerosols in a shallow boundary layer during intense winter pollution episodes in northern Utah. Atmospheric Chemistry and Physics, 2018, 18, 17259-17276.	1.9	33
63	ClNO₂ Yields From Aircraft Measurements During the 2015 WINTER Campaign and Critical Evaluation of the Current Parameterization. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,994.	1.2	31
64	High- and low-temperature pyrolysis profiles describe volatile organic compound emissions from western US wildfire fuels. Atmospheric Chemistry and Physics, 2018, 18, 9263-9281.	1.9	102
65	Nitrogen Oxides Emissions, Chemistry, Deposition, and Export Over the Northeast United States During the WINTER Aircraft Campaign. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,368.	1.2	49
66	Wintertime Gasâ€Particle Partitioning and Speciation of Inorganic Chlorine in the Lower Troposphere Over the Northeast United States and Coastal Ocean. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,897.	1.2	21
67	Airborne Observations of Reactive Inorganic Chlorine and Bromine Species in the Exhaust of Coalâ€Fired Power Plants. Journal of Geophysical Research D: Atmospheres, 2018, 123, 11225-11237.	1.2	33
68	Measurement of NO₃ and N₂O₅ in a Residential Kitchen. Environmental Science and Technology Letters, 2018, 5, 595-599.	3.9	44
69	Topâ€Down Estimates of NO_x and CO Emissions From Washington, D.C.â€Baltimore During the WINTER Campaign. Journal of Geophysical Research D: Atmospheres, 2018, 123, 7705-7724.	1.2	35
70	Chemical feedbacks weaken the wintertime response of particulate sulfate and nitrate to emissions reductions over the eastern United States. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8110-8115.	3.3	118
71	Flight Deployment of a Highâ€Resolution Timeâ€ofâ€Flight Chemical Ionization Mass Spectrometer: Observations of Reactive Halogen and Nitrogen Oxide Species. Journal of Geophysical Research D: Atmospheres, 2018, 123, 7670-7686.	1.2	39
72	Secondary organic aerosol (SOA) yields from NO₃ radical + isoprene based on nighttime aircraft power plant plume transects. Atmospheric Chemistry and Physics, 2018, 18, 11663-11682.	1.9	47

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73	Sources and Secondary Production of Organic Aerosols in the Northeastern United States during WINTER. Journal of Geophysical Research D: Atmospheres, 2018, 123, 7771-7796.	1.2	71
74	NO_x Lifetime and NO_y Partitioning During WINTER. Journal of Geophysical Research D: Atmospheres, 2018, 123, 9813-9827.	1.2	52
75	Cavity enhanced spectroscopy for measurement of nitrogen oxides in the Anthropocene: results from the Seoul tower during MAPS 2015. Faraday Discussions, 2017, 200, 529-557.	1.6	27
76	Broadband optical properties of biomassâ€burning aerosol and identification of brown carbon chromophores. Journal of Geophysical Research D: Atmospheres, 2017, 122, 5441-5456.	1.2	96
77	Kinetics of the Reactions of NO3 Radical with Methacrylate Esters. Journal of Physical Chemistry A, 2017, 121, 4464-4474.	1.1	22
78	Coupling between Chemical and Meteorological Processes under Persistent Cold-Air Pool Conditions: Evolution of Wintertime PM_{2.5} Pollution Events and N₂O₅ Observations in Utahâ€™s Salt Lake Valley. Environmental Science & Technology, 2017, 51, 5941-5950.	4.6	78
79	The Potential Role of Criegee Intermediates in Nighttime Atmospheric Chemistry. A Modeling Study. ACS Earth and Space Chemistry, 2017, 1, 288-298.	1.2	9
80	Emissions of Glyoxal and Other Carbonyl Compounds from Agricultural Biomass Burning Plumes Sampled by Aircraft. Environmental Science & Technology, 2017, 51, 11761-11770.	4.6	38
81	Atmospheric chemistry and the biosphere: general discussion. Faraday Discussions, 2017, 200, 195-228.	1.6	1
82	Atmospheric chemistry processes: general discussion. Faraday Discussions, 2017, 200, 353-378.	1.6	0
83	The air we breathe: Past, present, and future: general discussion. Faraday Discussions, 2017, 200, 501-527.	1.6	1
84	New tools for atmospheric chemistry: general discussion. Faraday Discussions, 2017, 200, 663-691.	1.6	0
85	Transition from high- to low-NOx control of night-time oxidation in the southeastern US. Nature Geoscience, 2017, 10, 490-495.	5.4	56
86	On-road measurements of vehicle NO 2 /NO x emission ratios in Denver, Colorado, USA. Atmospheric Environment, 2017, 148, 182-189.	1.9	63
87	OH reactivity at a rural site (Wangdu) in the North China Plain: contributions from OH reactants and experimental OH budget. Atmospheric Chemistry and Physics, 2017, 17, 645-661.	1.9	63
88	Nitrate radicals and biogenic volatile organic compounds: oxidation, mechanisms, and organic aerosol. Atmospheric Chemistry and Physics, 2017, 17, 2103-2162.	1.9	307
89	Higher measured than modeled ozone production at increased NO_{<i>x</i>} levels in the Colorado Front Range. Atmospheric Chemistry and Physics, 2017, 17, 11273-11292.	1.9	18
90	Secondary organic aerosol formation from in situ OH, O₃, and NO₃ oxidation of ambient forest air in an oxidation flow reactor. Atmospheric Chemistry and Physics, 2017, 17, 5331-5354.	1.9	57

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91	Glyoxal yield from isoprene oxidation and relation to formaldehyde: chemical mechanism, constraints from SENEX aircraft observations, and interpretation of OMI satellite data. Atmospheric Chemistry and Physics, 2017, 17, 8725-8738.	1.9	72
92	Quantifying TOLNet ozone lidar accuracy during the 2014 DISCOVER-AQ and FRAPPÃ‰ campaigns. Atmospheric Measurement Techniques, 2017, 10, 3865-3876.	1.2	21
93	Observations of VOC emissions and photochemical products over US oil- and gas-producing regions using high-resolution H₃O⁺ CIMS (PTR-ToF-MS). Atmospheric Measurement Techniques, 2017, 10, 2941-2968.	1.2	44
94	Evaluation of the accuracy of thermal dissociation CRDS and LIF techniques for atmospheric measurement of reactive nitrogen species. Atmospheric Measurement Techniques, 2017, 10, 1911-1926.	1.2	18
95	A broadband cavity enhanced absorption spectrometer for aircraft measurements of glyoxal, methylglyoxal, nitrous acid, nitrogen dioxide, and water vapor. Atmospheric Measurement Techniques, 2016, 9, 423-440.	1.2	93
96	Instrumentation and measurement strategy for the NOAA SENEX aircraft campaign as part of the Southeast Atmosphere Study 2013. Atmospheric Measurement Techniques, 2016, 9, 3063-3093.	1.2	58
97	Broadband cavity-enhanced absorption spectroscopy in the ultraviolet spectral region for measurements of nitrogen dioxide and formaldehyde. Atmospheric Measurement Techniques, 2016, 9, 41-52.	1.2	44
98	Nighttime chemistry at a high altitude site above Hong Kong. Journal of Geophysical Research D: Atmospheres, 2016, 121, 2457-2475.	1.2	78
99	Contribution of human-related sources to indoor volatile organic compounds in a university classroom. Indoor Air, 2016, 26, 925-938.	2.0	91
100	Observational constraints on glyoxal production from isoprene oxidation and its contribution to organic aerosol over the Southeast United States. Journal of Geophysical Research D: Atmospheres, 2016, 121, 9849-9861.	1.2	48
101	Modeling the weekly cycle of NO_x and CO emissions and their impacts on O₃ in the Los Angelesâ€South Coast Air Basin during the CalNex 2010 field campaign. Journal of Geophysical Research D: Atmospheres, 2016, 121, 1340-1360.	1.2	51
102	Fine particle pH and the partitioning of nitric acid during winter in the northeastern United States. Journal of Geophysical Research D: Atmospheres, 2016, 121, 10,355.	1.2	176
103	Measurements of hydroxyl and hydroperoxy radicals during CalNexâ€LA: Model comparisons and radical budgets. Journal of Geophysical Research D: Atmospheres, 2016, 121, 4211-4232.	1.2	81
104	Testing Atmospheric Oxidation in an Alabama Forest. Journals of the Atmospheric Sciences, 2016, 73, 4699-4710.	0.6	54
105	Influence of oil and gas emissions on summertime ozone in the Colorado Northern Front Range. Journal of Geophysical Research D: Atmospheres, 2016, 121, 8712-8729.	1.2	86
106	Observations of nitryl chloride and modeling its source and effect on ozone in the planetary boundary layer of southern China. Journal of Geophysical Research D: Atmospheres, 2016, 121, 2476-2489.	1.2	118
107	HONO emission and production determined from airborne measurements over the Southeast U.S.. Journal of Geophysical Research D: Atmospheres, 2016, 121, 9237-9250.	1.2	46
108	Secondary formation of nitrated phenols: insights from observations during the Uintah Basin Winter Ozone Study (UBWOS) 2014. Atmospheric Chemistry and Physics, 2016, 16, 2139-2153.	1.9	85

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109	Reactive nitrogen partitioning and its relationship to winter ozone events in Utah. Atmospheric Chemistry and Physics, 2016, 16, 573-583.	1.9	24
110	The lifetime of nitrogen oxides in an isoprene-dominated forest. Atmospheric Chemistry and Physics, 2016, 16, 7623-7637.	1.9	75
111	Evaluating N₂O₅ heterogeneous hydrolysis parameterizations for CalNex 2010. Journal of Geophysical Research D: Atmospheres, 2016, 121, 5051-5070.	1.2	33
112	Atmospheric fates of Criegee intermediates in the ozonolysis of isoprene. Physical Chemistry Chemical Physics, 2016, 18, 10241-10254.	1.3	179
113	Highly functionalized organic nitrates in the southeast United States: Contribution to secondary organic aerosol and reactive nitrogen budgets. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1516-1521.	3.3	269
114	A new cavity ring-down instrument for airborne monitoring of N2O5, NO3, NO2 and O3 in the upper troposphere lower stratosphere. , 2016, , .		1
115	Reassessing the ratio of glyoxal to formaldehyde as an indicator of hydrocarbon precursor speciation. Atmospheric Chemistry and Physics, 2015, 15, 7571-7583.	1.9	55
116	Investigation of secondary formation of formic acid: urban environment vs. oil and gas producing region. Atmospheric Chemistry and Physics, 2015, 15, 1975-1993.	1.9	57
117	Ozone distributions over southern Lake Michigan: comparisons between ferry-based observations, shoreline-based DOAS observations and model forecasts. Atmospheric Chemistry and Physics, 2015, 15, 5109-5122.	1.9	26
118	Peroxynitric acid (HO₂NO₂) measurements during the UBWOS 2013 and 2014 studies using iodide ion chemical ionization mass spectrometry. Atmospheric Chemistry and Physics, 2015, 15, 8101-8114.	1.9	33
119	Particulate organic nitrates observed in an oil and natural gas production region during wintertime. Atmospheric Chemistry and Physics, 2015, 15, 9313-9325.	1.9	14
120	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
121	Photochemical aging of volatile organic compounds associated with oil and natural gas extraction in the Uintah Basin, UT, during a wintertime ozone formation event. Atmospheric Chemistry and Physics, 2015, 15, 5727-5741.	1.9	33
122	Biomass burning dominates brown carbon absorption in the rural southeastern United States. Geophysical Research Letters, 2015, 42, 653-664.	1.5	212
123	Tropospheric Halogen Chemistry: Sources, Cycling, and Impacts. Chemical Reviews, 2015, 115, 4035-4062.	23.0	344
124	Airborne measurements of the atmospheric emissions from a fuel ethanol refinery. Journal of Geophysical Research D: Atmospheres, 2015, 120, 4385-4397.	1.2	16
125	An Atmospheric Constraint on the NO₂ Dependence of Daytime Near-Surface Nitrous Acid (HONO). Environmental Science & Technology, 2015, 49, 12774-12781.	4.6	26
126	Nocturnal loss and daytime source of nitrous acid through reactive uptake and displacement. Nature Geoscience, 2015, 8, 55-60.	5.4	89

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127	Cavity ring-down spectroscopy sensor for detection of hydrogen chloride. Atmospheric Measurement Techniques, 2014, 7, 345-357.	1.2	16
128	Secondary Organic Aerosol Formation and Organic Nitrate Yield from NO₃ Oxidation of Biogenic Hydrocarbons. Environmental Science & Technology, 2014, 48, 11944-11953.	4.6	178
129	High winter ozone pollution from carbonyl photolysis in an oil and gas basin. Nature, 2014, 514, 351-354.	13.7	265
130	Complex refractive indices in the near-ultraviolet spectral region of biogenic secondary organic aerosol aged with ammonia. Physical Chemistry Chemical Physics, 2014, 16, 10629-10642.	1.3	98
131	A Measurement of Total Reactive Nitrogen, NO_y, together with NO₂, NO, and O₃ via Cavity Ring-down Spectroscopy. Environmental Science & Technology, 2014, 48, 9609-9615.	4.6	75
132	The primary and recycling sources of OH during the NACHTTâ€2011 campaign: HONO as an important OH primary source in the wintertime. Journal of Geophysical Research D: Atmospheres, 2014, 119, 6886-6896.	1.2	66
133	Trends in sulfate and organic aerosol mass in the Southeast U.S.: Impact on aerosol optical depth and radiative forcing. Geophysical Research Letters, 2014, 41, 7701-7709.	1.5	77
134	Chlorine as a primary radical: evaluation of methods to understand its role in initiation of oxidative cycles. Atmospheric Chemistry and Physics, 2014, 14, 3427-3440.	1.9	90
135	Volatile organic compound emissions from the oil and natural gas industry in the Uintah Basin, Utah: oil and gas well pad emissions compared to ambient air composition. Atmospheric Chemistry and Physics, 2014, 14, 10977-10988.	1.9	98
136	An MCM modeling study of nitryl chloride (ClNO₂) impacts on oxidation, ozone production and nitrogen oxide partitioning in polluted continental outflow. Atmospheric Chemistry and Physics, 2014, 14, 3789-3800.	1.9	87
137	N₂O₅ uptake coefficients and nocturnal NO₂ removal rates determined from ambient wintertime measurements. Journal of Geophysical Research D: Atmospheres, 2013, 118, 9331-9350.	1.2	87
138	Understanding the role of the ground surface in HONO vertical structure: High resolution vertical profiles during NACHTTâ€11. Journal of Geophysical Research D: Atmospheres, 2013, 118, 10,155.	1.2	111
139	WRF-Chem simulation of NOx and O3 in the L.A. basin during CalNex-2010. Atmospheric Environment, 2013, 81, 421-432.	1.9	34
140	Top-down estimate of surface flux in the Los Angeles Basin using a mesoscale inverse modeling technique: assessing anthropogenic emissions of CO, NO_x and CO₂ and their impacts. Atmospheric Chemistry and Physics, 2013, 13, 3661-3677.	1.9	142
141	Ozone photochemistry in an oil and natural gas extraction region during winter: simulations of a snow-free season in the Uintah Basin, Utah. Atmospheric Chemistry and Physics, 2013, 13, 8955-8971.	1.9	100
142	Biogenic VOC oxidation and organic aerosol formation in an urban nocturnal boundary layer: aircraft vertical profiles in Houston, TX. Atmospheric Chemistry and Physics, 2013, 13, 11317-11337.	1.9	51
143	Observations of gas- and aerosol-phase organic nitrates at BEACHON-RoMBAS 2011. Atmospheric Chemistry and Physics, 2013, 13, 8585-8605.	1.9	150
144	Nitrogen, Aerosol Composition, and Halogens on a Tall Tower (NACHTT): Overview of a wintertime air chemistry field study in the front range urban corridor of Colorado. Journal of Geophysical Research D: Atmospheres, 2013, 118, 8067-8085.	1.2	68

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145	Chlorine activation within urban or power plant plumes: Vertically resolved ClNO₂ and Cl₂ measurements from a tall tower in a polluted continental setting. Journal of Geophysical Research D: Atmospheres, 2013, 118, 8702-8715.	1.2	94
146	Spatial and diurnal variability in reactive nitrogen oxide chemistry as reflected in the isotopic composition of atmospheric nitrate: Results from the CalNex 2010 field study. Journal of Geophysical Research D: Atmospheres, 2013, 118, 10,567.	1.2	33
147	Vertically resolved chemical characteristics and sources of submicron aerosols measured on a Tall Tower in a suburban area near Denver, Colorado in winter. Journal of Geophysical Research D: Atmospheres, 2013, 118, 13,591.	1.2	18
148	Intercomparison of NO₃ radical detection instruments in the atmosphere simulation chamber SAPHIR. Atmospheric Measurement Techniques, 2013, 6, 1111-1140.	1.2	49
149	Broadband measurements of aerosol extinction in the ultraviolet spectral region. Atmospheric Measurement Techniques, 2013, 6, 861-877.	1.2	105
150	Heterogeneous Atmospheric Chemistry of Nitrogen Oxides: New Insights from Recent Field Measurements. NATO Science for Peace and Security Series C: Environmental Security, 2013, , 125-138.	0.1	0
151	Comparison of N₂O₅ mixing ratios during NO3Comp 2007 in SAPHIR. Atmospheric Measurement Techniques, 2012, 5, 2763-2777.	1.2	21
152	Cavity-Enhanced Measurements of Hydrogen Peroxide Absorption Cross Sections from 353 to 410 nm. Journal of Physical Chemistry A, 2012, 116, 5941-5947.	1.1	34
153	Vertically Resolved Measurements of Nighttime Radical Reservoirs in Los Angeles and Their Contribution to the Urban Radical Budget. Environmental Science & Technology, 2012, 46, 10965-10973.	4.6	127
154	Nighttime radical observations and chemistry. Chemical Society Reviews, 2012, 41, 6405.	18.7	388
155	Nitryl Chloride and Molecular Chlorine in the Coastal Marine Boundary Layer. Environmental Science & Technology, 2012, 46, 10463-10470.	4.6	177
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