Ronald C Cohen

List of Publications by Year
in descending order

283	22,821	5896 81	16650 123
papers	citations	h-index	g-index

423	423	423	12170
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Energetics of Hydrogen Bond Network Rearrangements in Liquid Water. Science, 2004, 306, 851-853.	12.6	476
2	Removal of Stratospheric O3 by Radicals: In Situ Measurements of OH, HO2, NO, NO2, ClO, and BrO. Science, 1994, 266, 398-404.	12.6	384
3	Unified description of temperature-dependent hydrogen-bond rearrangements in liquid water. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 14171-14174.	7.1	369
4	Transpacific transport of ozone pollution and the effect of recent Asian emission increases on air quality in North America: an integrated analysis using satellite, aircraft, ozonesonde, and surface observations. Atmospheric Chemistry and Physics, 2008, 8, 6117-6136.	4.9	369
5	Isotopic fractionation of water during evaporation. Journal of Geophysical Research, 2003, 108, .	3.3	365
6	Steps towards a mechanistic model of global soil nitric oxide emissions: implementation and space based-constraints. Atmospheric Chemistry and Physics, 2012, 12, 7779-7795.	4.9	326
7	Why do models overestimate surface ozone in the Southeast United States?. Atmospheric Chemistry and Physics, 2016, 16, 13561-13577.	4.9	320
8	Nitrate radicals and biogenic volatile organic compounds: oxidation, mechanisms, and organic aerosol. Atmospheric Chemistry and Physics, 2017, 17, 2103-2162.	4.9	307
9	Airborne measurement of OH reactivity during INTEX-B. Atmospheric Chemistry and Physics, 2009, 9, 163-173.	4.9	293
10	Surface and lightning sources of nitrogen oxides over the United States: Magnitudes, chemical evolution, and outflow. Journal of Geophysical Research, 2007, 112, .	3.3	279
11	Organic nitrate and secondary organic aerosol yield from NO₃ oxidation of Î²-pinene evaluated using a gas-phase kinetics/aerosol partitioning model. Atmospheric Chemistry and Physics, 2009, 9, 1431-1449.	4.9	277
12	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.	7.1	269
13	Trends in OMI NO₂ observations over the United States: effects of emission control technology and the economic recession. Atmospheric Chemistry and Physics, 2012, 12, 12197-12209.	4.9	267
14	Evidence for NO _x Control over Nighttime SOA Formation. Science, 2012, 337, 1210-1212.	12.6	266
15	A thermal dissociation laser-induced fluorescence instrument for in situ detection of NO2, peroxy nitrates, alkyl nitrates, and HNO3. Journal of Geophysical Research, 2002, 107, ACH 4-1-ACH 4-14.	3.3	242
16	Tropospheric emissions: Monitoring of pollution (TEMPO). Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 186, 17-39.	2.3	239
17	Atmospheric NO2:Â In Situ Laser-Induced Fluorescence Detection at Parts per Trillion Mixing Ratios. Analytical Chemistry, 2000, 72, 528-539.	6.5	237
18	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.	4.9	234

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19	Chemistry of hydrogen oxide radicals (HO_x) in the Arctic troposphere in spring. Atmospheric Chemistry and Physics, 2010, 10, 5823-5838.	4.9	220
20	Ozone and organic nitrates over the eastern United States: Sensitivity to isoprene chemistry. Journal of Geophysical Research D: Atmospheres, 2013, 118, 11,256.	3.3	213
21	Biomass burning dominates brown carbon absorption in the rural southeastern United States. Geophysical Research Letters, 2015, 42, 653-664.	4.0	212
22	Insights into hydroxyl measurements and atmospheric oxidation in a California forest. Atmospheric Chemistry and Physics, 2012, 12, 8009-8020.	4.9	211
23	An Observational Perspective on the Atmospheric Impacts of Alkyl and Multifunctional Nitrates on Ozone and Secondary Organic Aerosol. Chemical Reviews, 2013, 113, 5848-5870.	47.7	211
24	Isoprene oxidation by nitrate radical: alkyl nitrate and secondary organic aerosol yields. Atmospheric Chemistry and Physics, 2009, 9, 6685-6703.	4.9	208
25	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
26	Observational constraints on the chemistry of isoprene nitrates over the eastern United States. Journal of Geophysical Research, 2007, 112, .	3.3	200
27	The 2010 California Research at the Nexus of Air Quality and Climate Change (CalNex) field study. Journal of Geophysical Research D: Atmospheres, 2013, 118, 5830-5866.	3.3	199
28	Determination of an improved intermolecular global potential energy surface for Arâ€“H2O from vibrationâ€“rotationâ€“tunneling spectroscopy. Journal of Chemical Physics, 1993, 98, 6007-6030.	3.0	181
29	Evaluation of space-based constraints on global nitrogen oxide emissions with regional aircraft measurements over and downwind of eastern North America. Journal of Geophysical Research, 2006, 111, .	3.3	181
30	Secondary Organic Aerosol Formation and Organic Nitrate Yield from NO₃ Oxidation of Biogenic Hydrocarbons. Environmental Science & Technology, 2014, 48, 11944-11953.	10.0	178
31	Temperature and Recent Trends in the Chemistry of Continental Surface Ozone. Chemical Reviews, 2015, 115, 3898-3918.	47.7	176
32	A Preliminary Synthesis of Modeled Climate Change Impacts on U.S. Regional Ozone Concentrations. Bulletin of the American Meteorological Society, 2009, 90, 1843-1864.	3.3	175
33	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.	4.9	173
34	Experimental determination of dipole moments for molecular ions: Improved measurements for ArH+. Journal of Chemical Physics, 1989, 90, 1358-1361.	3.0	168
35	The Deep Convective Clouds and Chemistry (DC3) Field Campaign. Bulletin of the American Meteorological Society, 2015, 96, 1281-1309.	3.3	165
36	HO_x chemistry during INTEXâ€A 2004: Observation, model calculation, and comparison with previous studies. Journal of Geophysical Research, 2008, 113, .	3.3	163

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37	The weekend effect within and downwind of Sacramento â€“ Part 1: Observations of ozone, nitrogen oxides, and VOC reactivity. Atmospheric Chemistry and Physics, 2007, 7, 5327-5339.	4.9	161
38	Influence of future climate and emissions on regional air quality in California. Journal of Geophysical Research, 2006, 111, .	3.3	160
39	Effects of Alkali Metal Halide Salts on the Hydrogen Bond Network of Liquid Water. Journal of Physical Chemistry B, 2005, 109, 7046-7052.	2.6	159
40	On the observed response of ozone to NO_x and VOC reactivity reductions in San Joaquin Valley California 1995â€“present. Atmospheric Chemistry and Physics, 2012, 12, 8323-8339.	4.9	155
41	Raman Thermometry Measurements of Free Evaporation from Liquid Water Droplets. Journal of the American Chemical Society, 2006, 128, 12892-12898.	13.7	150
42	Observations of gas- and aerosol-phase organic nitrates at BEACHON-RoMBAS 2011. Atmospheric Chemistry and Physics, 2013, 13, 8585-8605.	4.9	150
43	Effects of model resolution on the interpretation of satellite NO₂ observations. Atmospheric Chemistry and Physics, 2011, 11, 11647-11655.	4.9	142
44	A high spatial resolution retrieval of NO₂ column densities from OMI: method and evaluation. Atmospheric Chemistry and Physics, 2011, 11, 8543-8554.	4.9	133
45	Pollution influences on atmospheric composition and chemistry at high northern latitudes: Boreal and California forest fire emissions. Atmospheric Environment, 2010, 44, 4553-4564.	4.1	131
46	Vibration-rotation-tunneling spectroscopy of the van der Waals bond: a new look at intermolecular forces. The Journal of Physical Chemistry, 1992, 96, 1024-1040.	2.9	127
47	Direct observation of changing NO _x lifetime in North American cities. Science, 2019, 366, 723-727.	12.6	126
48	Organic nitrate aerosol formation via NO₃ + biogenic volatile organic compounds in the southeastern United States. Atmospheric Chemistry and Physics, 2015, 15, 13377-13392.	4.9	124
49	SOA from limonene: role of NO₃ in its generation and degradation. Atmospheric Chemistry and Physics, 2011, 11, 3879-3894.	4.9	123
50	Comparison of tropospheric NO₂ from in situ aircraft measurements with nearâ€realâ€time and standard product data from OMI. Journal of Geophysical Research, 2008, 113, .	3.3	122
51	Characterization of selective binding of alkali cations with carboxylate by x-ray absorption spectroscopy of liquid microjets. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 6809-6812.	7.1	121
52	Effects of Cations on the Hydrogen Bond Network of Liquid Water:Â New Results from X-ray Absorption Spectroscopy of Liquid Microjets. Journal of Physical Chemistry B, 2006, 110, 5301-5309.	2.6	119
53	Direct Measurements of the Convective Recycling of the Upper Troposphere. Science, 2007, 315, 816-820.	12.6	114
54	Chemical evolution of the Sacramento urban plume: Transport and oxidation. Journal of Geophysical Research, 2002, 107, ACH 3-1-ACH 3-15.	3.3	113

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55	On alkyl nitrates, O3, and the â€œmissing NOyâ€. Journal of Geophysical Research, 2003, 108, .	3.3	113
56	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
57	Observational Insights into Aerosol Formation from Isoprene. Environmental Science & Technology, 2013, 47, 11403-11413.	10.0	113
58	Tunable far infrared laser spectroscopy of van der Waals bonds: Vibrationâ€“rotationâ€“tunneling spectra of Arâ€“H2O. Journal of Chemical Physics, 1988, 89, 4494-4504.	3.0	112
59	Thermodynamic characterization of Mexico City aerosol during MILAGRO 2006. Atmospheric Chemistry and Physics, 2009, 9, 2141-2156.	4.9	108
60	Space-based Constraints on Spatial and Temporal Patterns of NO_x Emissions in California, 2005â˜2008. Environmental Science & Technology, 2010, 44, 3608-3615.	10.0	108
61	Comparison of MkIV balloon and ER-2 aircraft measurements of atmospheric trace gases. Journal of Geophysical Research, 1999, 104, 26779-26790.	3.3	106
62	Understanding the impact of recent advances in isoprene photooxidation on simulations of regional air quality. Atmospheric Chemistry and Physics, 2013, 13, 8439-8455.	4.9	106
63	Multidimensional Intermolecular Potential Surfaces From Vibration-Rotation-Tunneling (VRT) Spectra of Van Der Waals Complexes. Annual Review of Physical Chemistry, 1991, 42, 369-392.	10.8	105
64	Closing the peroxy acetyl nitrate budget: observations of acyl peroxy nitrates (PAN, PPN, and MPAN) during BEARPEX 2007. Atmospheric Chemistry and Physics, 2009, 9, 7623-7641.	4.9	105
65	Variations of OH radical in an urban plume inferred from NO₂ column measurements. Geophysical Research Letters, 2013, 40, 1856-1860.	4.0	105
66	Measurement of the perpendicular rotationâ€tunneling spectrum of the water dimer by tunable far infrared laser spectroscopy in a planar supersonic jet. Journal of Chemical Physics, 1989, 90, 3937-3943.	3.0	104
67	Tunable far-IR laser spectroscopy of jet-cooled carbon clusters: the nu 2 bending vibration of C3. Science, 1990, 249, 897-900.	12.6	104
68	Space and time variation of Î´18O andÎ´D in precipitation: Can paleotemperature be estimated from ice cores?. Global Biogeochemical Cycles, 2000, 14, 851-861.	4.9	104
69	Testing and improving OMI DOMINO tropospheric NO₂ using observations from the DANDELIONS and INTEXâ€B validation campaigns. Journal of Geophysical Research, 2010, 115, .	3.3	103
70	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.	3.3	103
71	Reactive nitrogen distribution and partitioning in the North American troposphere and lowermost stratosphere. Journal of Geophysical Research, 2007, 112, .	3.3	102
72	On Rates and Mechanisms of OH and O₃ Reactions with Isoprene-Derived Hydroxy Nitrates. Journal of Physical Chemistry A, 2014, 118, 1622-1637.	2.5	102

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73	Extending the collocation method to multidimensional molecular dynamics: direct determination of the intermolecular potential of argon-water from tunable far-infrared laser spectroscopy. The Journal of Physical Chemistry, 1990, 94, 7991-8000.	2.9	100
74	Multidimensional hydrogen tunneling dynamics in the ground vibrational state of the ammonia dimer. Journal of Chemical Physics, 1992, 97, 4727-4749.	3.0	99
75	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.	4.9	99
76	The Berkeley tunable far infrared laser spectrometers. Review of Scientific Instruments, 1991, 62, 1701-1716.	1.3	98
77	Aircraftâ€borne, laserâ€induced fluorescence instrument for the in situ detection of hydroxyl and hydroperoxyl radicals. Review of Scientific Instruments, 1994, 65, 1858-1876.	1.3	98
78	Validating novel air pollution sensors to improve exposure estimates for epidemiological analyses and citizen science. Environmental Research, 2017, 158, 286-294.	7.5	96
79	Total Peroxy Nitrates (Î£PNs) in the atmosphere: the Thermal Dissociation-Laser Induced Fluorescence (TD-LIF) technique and comparisons to speciated PAN measurements. Atmospheric Measurement Techniques, 2010, 3, 593-607.	3.1	95
80	Observations of HNO₃, Î£AN, Î£PN and NO₂ fluxes: evidence for rapid HO_x chemistry within a pine forest canopy. Atmospheric Chemistry and Physics, 2008, 8, 3899-3917.	4.9	94
81	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.	4.9	93
82	Tunable far infrared laser spectrometers. Review of Scientific Instruments, 1991, 62, 1693-1700.	1.3	92
83	pH Dependence of the Electronic Structure of Glycine. Journal of Physical Chemistry B, 2005, 109, 5375-5382.	2.6	92
84	Eddy covariance fluxes of acyl peroxy nitrates (PAN, PPN and MPAN) above a Ponderosa pine forest. Atmospheric Chemistry and Physics, 2009, 9, 615-634.	4.9	92
85	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.	4.9	92
86	Probing the Local Structure of Liquid Water by X-ray Absorption Spectroscopyâ€. Journal of Physical Chemistry B, 2006, 110, 20038-20045.	2.6	91
87	Airborne observations of total RONO₂: new constraints on the yield and lifetime of isoprene nitrates. Atmospheric Chemistry and Physics, 2009, 9, 1451-1463.	4.9	91
88	Using satellite observations of tropospheric NO₂ columns to infer long-term trends in US NO_{<i>x</i>} emissions:Âthe importance of accounting for the free tropospheric NO₂ background. Atmospheric Chemistry and Physics, 2019, 19, 8863-8878.	4.9	89
89	A product study of the isoprene+NO₃ reaction. Atmospheric Chemistry and Physics, 2009, 9, 4945-4956.	4.9	88
90	Interannual variability in soil nitric oxide emissions over the United States as viewed from space. Atmospheric Chemistry and Physics, 2010, 10, 9943-9952.	4.9	87

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91	Real Time In Situ Detection of Organic Nitrates in Atmospheric Aerosols. Environmental Science & Technology, 2010, 44, 5540-5545.	10.0	87
92	Summertime influence of Asian pollution in the free troposphere over North America. Journal of Geophysical Research, 2007, 112, .	3.3	86
93	Effects of biogenic nitrate chemistry on the NO_x lifetime in remote continental regions. Atmospheric Chemistry and Physics, 2012, 12, 11917-11932.	4.9	86
94	Twilight observations suggest unknown sources of HOx. Geophysical Research Letters, 1999, 26, 1373-1376.	4.0	85
95	The Chemistry of Atmosphere-Forest Exchange (CAFE) Model â€“ Part 2: Application to BEARPEX-2007 observations. Atmospheric Chemistry and Physics, 2011, 11, 1269-1294.	4.9	85
96	Tunable far infrared laser spectroscopy of van der Waals bonds: Extended measurements on the lowest Î£ bend of ArHCl. Journal of Chemical Physics, 1988, 89, 1268-1276.	3.0	84
97	Application of thermal-dissociation laser induced fluorescence (TD-LIF) to measurement of HNO₃, Î£alkyl nitrates, Î£peroxy nitrates, and NO₂ fluxes using eddy covariance. Atmospheric Chemistry and Physics, 2006, 6, 3471-3486.	4.9	84
98	Tunable far infrared laser spectroscopy of van der Waals bonds: The intermolecular stretching vibration and effective radial potentials for Arâ€“H2O. Journal of Chemical Physics, 1990, 92, 169-177.	3.0	83
99	Spectroscopic determination of the intermolecular potential energy surface for Arâ€“NH3. Journal of Chemical Physics, 1994, 101, 146-173.	3.0	83
100	Characterization of wildfire NO_x emissions using MODIS fire radiative power and OMI tropospheric NO₂ columns. Atmospheric Chemistry and Physics, 2011, 11, 5839-5851.	4.9	83
101	Satellite measurements of daily variations in soil NOxemissions. Geophysical Research Letters, 2005, 32, .	4.0	82
102	The BErkeley Atmospheric CO₂ Observation Network: initial evaluation. Atmospheric Chemistry and Physics, 2016, 16, 13449-13463.	4.9	81
103	Tunable farâ€infrared laser spectroscopy of hydrogen bonds: The Ka =0(u)â†'1(g) rotationâ€“tunneling spectrum of the HCl dimer. Journal of Chemical Physics, 1988, 89, 6577-6587.	3.0	79
104	Observations of total alkyl nitrates during Texas Air Quality Study 2000: Implications for O3and alkyl nitrate photochemistry. Journal of Geophysical Research, 2004, 109, .	3.3	79
105	Constraints on Aerosol Nitrate Photolysis as a Potential Source of HONO and NO_x. Environmental Science & Technology, 2018, 52, 13738-13746.	10.0	79
106	Impact of organic nitrates on urban ozone production. Atmospheric Chemistry and Physics, 2011, 11, 4085-4094.	4.9	78
107	Intercomparison of measurements of NO₂ concentrations in the atmosphere simulation chamber SAPHIR during the NO3Comp campaign. Atmospheric Measurement Techniques, 2010, 3, 21-37.	3.1	77
108	The diurnal variation of hydrogen, nitrogen, and chlorine radicals: Implications for the heterogeneous production of HNO2. Geophysical Research Letters, 1994, 21, 2551-2554.	4.0	76

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109	A relaxed eddy accumulation system for measuring vertical fluxes of nitrous acid. Atmospheric Measurement Techniques, 2011, 4, 2093-2103.	3.1	76
110	Observations of total RONO₂ over the boreal forest: NO_x sinks and HNO₃ sources. Atmospheric Chemistry and Physics, 2013, 13, 4543-4562.	4.9	76
111	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	75
112	The lifetime of nitrogen oxides in an isoprene-dominated forest. Atmospheric Chemistry and Physics, 2016, 16, 7623-7637.	4.9	75
113	Multidimensional intermolecular dynamics from tunable farâ€infrared laser spectroscopy: Angularâ€radial coupling in the intermolecular potential of argonâ€“H2O. Journal of Chemical Physics, 1991, 95, 7891-7906.	3.0	74
114	Observations of the diurnal and seasonal trends in nitrogen oxides in the western Sierra Nevada. Atmospheric Chemistry and Physics, 2006, 6, 5321-5338.	4.9	73
115	Prototype for In Situ Detection of Atmospheric NO3and N2O5via Laser-Induced Fluorescence. Environmental Science & Technology, 2003, 37, 5732-5738.	10.0	71
116	Measurement of HO2NO2in the free troposphere during the Intercontinental Chemical Transport Experimentâ€“North America 2004. Journal of Geophysical Research, 2007, 112, .	3.3	68
117	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.	4.0	67
118	Lightningâ€generated NO_x seen by the Ozone Monitoring Instrument during NASA's Tropical Composition, Cloud and Climate Coupling Experiment (TC⁴). Journal of Geophysical Research, 2010, 115, .	3.3	65
119	Photochemical Production and Release of Gaseous NO2from Nitrate-Doped Water Ice. Journal of Physical Chemistry A, 2005, 109, 8520-8525.	2.5	64
120	A double peak in the seasonality of California's photosynthesis as observed from space. Biogeosciences, 2020, 17, 405-422.	3.3	64
121	Determination of the dipole moment ofArH+from the rotational Zeeman effect by tunable far infrared laser spectroscopy. Physical Review Letters, 1987, 58, 996-999.	7.8	63
122	Far infrared vibrationâ€rotationâ€tunneling spectroscopy and internal dynamics of methaneâ€“water: A prototypical hydrophobic system. Journal of Chemical Physics, 1994, 100, 863-876.	3.0	63
123	Kinetics of NO and NO2Evolution from Illuminated Frozen Nitrate Solutions. Journal of Physical Chemistry A, 2006, 110, 3578-3583.	2.5	63
124	Nature of the Aqueous Hydroxide Ion Probed by X-ray Absorption Spectroscopy. Journal of Physical Chemistry A, 2007, 111, 4776-4785.	2.5	63
125	Elemental analysis of aerosol organic nitrates with electron ionization high-resolution mass spectrometry. Atmospheric Measurement Techniques, 2010, 3, 301-310.	3.1	63
126	Cation-cation contact pairing in water: Guanidinium. Journal of Chemical Physics, 2013, 139, 035104.	3.0	62

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127	The POLARCAT Model Intercomparison Project (POLMIP): overview and evaluation with observations. Atmospheric Chemistry and Physics, 2015, 15, 6721-6744.	4.9	62
128	Effects of temperature-dependent NO_{<i>x</i>} emissions on continental ozone production. Atmospheric Chemistry and Physics, 2018, 18, 2601-2614.	4.9	62
129	Synthesis of the Southeast Atmosphere Studies: Investigating Fundamental Atmospheric Chemistry Questions. Bulletin of the American Meteorological Society, 2018, 99, 547-567.	3.3	62
130	A comparison of observations and model simulations of NOx/NOyin the lower stratosphere. Geophysical Research Letters, 1999, 26, 1153-1156.	4.0	61
131	Laser-induced fluorescence detection of atmospheric NO_2 with a commercial diode laser and a supersonic expansion. Applied Optics, 2002, 41, 6950.	2.1	61
132	VOC reactivity in central California: comparing an air quality model to ground-based measurements. Atmospheric Chemistry and Physics, 2008, 8, 351-368.	4.9	61
133	The production and persistence of Î£RONO₂ in the Mexico City plume. Atmospheric Chemistry and Physics, 2010, 10, 7215-7229.	4.9	61
134	The BErkeley Atmospheric CO₂ Observation Network: field calibration and evaluation of low-cost air quality sensors. Atmospheric Measurement Techniques, 2018, 11, 1937-1946.	3.1	61
135	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.	4.9	60
136	Anionic, Cationic, and Nonionic Surfactants in Atmospheric Aerosols from the Baltic Coast at AskÃ¶, Sweden: Implications for Cloud Droplet Activation. Environmental Science & Technology, 2016, 50, 2974-2982.	10.0	60
137	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.	3.3	59
138	Farâ€infrared vibrationâ€“rotationâ€tunneling spectroscopy of Arâ€“NH3: Intermolecular vibrations and effective angular potential energy surface. Journal of Chemical Physics, 1991, 95, 9-21.	3.0	57
139	Chemical feedback effects on the spatial patterns of the NO_x weekend effect: a sensitivity analysis. Atmospheric Chemistry and Physics, 2014, 14, 1-9.	4.9	57
140	A comprehensive organic nitrate chemistry: insights into the lifetime of atmospheric organic nitrates. Atmospheric Chemistry and Physics, 2018, 18, 15419-15436.	4.9	57
141	Observed Impacts of COVIDâ€19 on Urban CO₂ Emissions. Geophysical Research Letters, 2020, 47, e2020GL090037.	4.0	57
142	Ozone production chemistry in the presence of urban plumes. Faraday Discussions, 2016, 189, 169-189.	3.2	56
143	Lightning NO_x Emissions: Reconciling Measured and Modeled Estimates With Updated NO_x Chemistry. Geophysical Research Letters, 2017, 44, 9479-9488.	4.0	56
144	Measurements of N₂O₅, NO₂, and O₃ east of the San Francisco Bay. Atmospheric Chemistry and Physics, 2005, 5, 483-491.	4.9	55

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145	Measurement of atmospheric nitrous acid at Bodgett Forest during BEARPEX2007. Atmospheric Chemistry and Physics, 2010, 10, 6283-6294.	4.9	55
146	Network design for quantifying urban CO₂ emissions: assessing trade-offs between precision and network density. Atmospheric Chemistry and Physics, 2016, 16, 13465-13475.	4.9	55
147	Comparisons of in situ and long path measurements of NO2in urban plumes. Journal of Geophysical Research, 2003, 108, .	3.3	54
148	Testing Atmospheric Oxidation in an Alabama Forest. Journals of the Atmospheric Sciences, 2016, 73, 4699-4710.	1.7	54
149	On the effectiveness of nitrogen oxide reductions as a control over ammonium nitrate aerosol. Atmospheric Chemistry and Physics, 2016, 16, 2575-2596.	4.9	53
150	Ab initio potential energy surface and dynamics of Heâ€“CO. Journal of Chemical Physics, 1994, 101, 8680-8686.	3.0	52
151	Global and regional effects of the photochemistry of CH₃O₂NO₂ evidence from ARCTAS. Atmospheric Chemistry and Physics, 2011, 11, 4209-4219.	4.9	52
152	NO_x Lifetime and NO_y Partitioning During WINTER. Journal of Geophysical Research D: Atmospheres, 2018, 123, 9813-9827.	3.3	52
153	Local Hydration Environments of Amino Acids and Dipeptides Studied by X-ray Spectroscopy of Liquid Microjets. Journal of Physical Chemistry B, 2005, 109, 21640-21646.	2.6	51
154	Gas/particle partitioning of total alkyl nitrates observed with TDâ€LIF in Bakersfield. Journal of Geophysical Research D: Atmospheres, 2013, 118, 6651-6662.	3.3	51
155	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.	4.9	50
156	Hydroxy nitrate production in the OH-initiated oxidation of alkenes. Atmospheric Chemistry and Physics, 2015, 15, 4297-4316.	4.9	50
157	Measurements of the sum of HO₂NO₂ and CH₃O₂NO₂ in the remote troposphere. Atmospheric Chemistry and Physics, 2004, 4, 377-384.	4.9	49
158	Isotope Fractionation of Water during Evaporation without Condensation. Journal of Physical Chemistry B, 2005, 109, 24391-24400.	2.6	49
159	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.	3.3	49
160	Trans-Pacific transport of reactive nitrogen and ozone to Canada during spring. Atmospheric Chemistry and Physics, 2010, 10, 8353-8372.	4.9	48
161	Effects of daily meteorology on the interpretation of space-based remote sensing of NO₂. Atmospheric Chemistry and Physics, 2016, 16, 15247-15264.	4.9	48
162	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.	4.9	46

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163	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.	4.0	44
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