

Ronald C Cohen

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

347
papers

18,560
citations

80
h-index

120
g-index

423
ext. papers

20,939
ext. citations

7.3
avg, IF

6.44
L-index

#	Paper	IF	Citations
347	Energetics of hydrogen bond network rearrangements in liquid water. <i>Science</i> , 2004 , 306, 851-3	33.3	420
346	Removal of Stratospheric O ₃ by Radicals: In Situ Measurements of OH, HO ₂ , NO, NO ₂ , ClO, and BrO. <i>Science</i> , 1994 , 266, 398-404	33.3	336
345	Unified description of temperature-dependent hydrogen-bond rearrangements in liquid water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 14171-4	11.5	323
344	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. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 6117-6136	6.8	312
343	Isotopic fractionation of water during evaporation. <i>Journal of Geophysical Research</i> , 2003 , 108,		308
342	Surface and lightning sources of nitrogen oxides over the United States: Magnitudes, chemical evolution, and outflow. <i>Journal of Geophysical Research</i> , 2007 , 112,		257
341	Why do Models Overestimate Surface Ozone in the Southeastern United States?. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 13561-13577	6.8	239
340	Steps towards a mechanistic model of global soil nitric oxide emissions: implementation and space based-constraints. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 7779-7795	6.8	236
339	Airborne measurement of OH reactivity during INTEX-B. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 16361-3	6.8	225
338	Organic nitrate and secondary organic aerosol yield from NO ₂ ; oxidation of pinene evaluated using a gas-phase kinetics/aerosol partitioning model. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 1431-1449	6.8	218
337	Trends in OMI NO ₂ ; observations over the United States: effects of emission control technology and the economic recession. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 12197-12209	6.8	214
336	Atmospheric NO ₂ : in situ laser-induced fluorescence detection at parts per trillion mixing ratios. <i>Analytical Chemistry</i> , 2000 , 72, 528-39	7.8	211
335	A thermal dissociation laser-induced fluorescence instrument for in situ detection of NO ₂ , peroxy nitrates, alkyl nitrates, and HNO ₃ . <i>Journal of Geophysical Research</i> , 2002 , 107, ACH 4-1-ACH 4-14		209
334	Nitrate radicals and biogenic volatile organic compounds: oxidation, mechanisms, and organic aerosol. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 2103-2162	6.8	206
333	Evidence for NO(x) control over nighttime SOA formation. <i>Science</i> , 2012 , 337, 1210-2	33.3	200
332	Highly functionalized organic nitrates in the southeast United States: Contribution to secondary organic aerosol and reactive nitrogen budgets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 1516-21	11.5	195
331	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. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 9739-9760	6.8	188

330	Chemistry of hydrogen oxide radicals (HO _x) in the Arctic troposphere in spring. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 5823-5838	6.8	184
329	Ozone and organic nitrates over the eastern United States: Sensitivity to isoprene chemistry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 11,256-11,268	4.4	182
328	The 2010 California Research at the Nexus of Air Quality and Climate Change (CalNex) field study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 5830-5866	4.4	178
327	Ozone production rates as a function of NO _x abundances and HO _x production rates in the Nashville urban plume. <i>Journal of Geophysical Research</i> , 2002 , 107, ACH 7-1		178
326	Insights into hydroxyl measurements and atmospheric oxidation in a California forest. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 8009-8020	6.8	175
325	Observational constraints on the chemistry of isoprene nitrates over the eastern United States. <i>Journal of Geophysical Research</i> , 2007 , 112,		174
324	Biomass burning dominates brown carbon absorption in the rural southeastern United States. <i>Geophysical Research Letters</i> , 2015 , 42, 653-664	4.9	173
323	Isoprene oxidation by nitrate radical: alkyl nitrate and secondary organic aerosol yields. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 6685-6703	6.8	168
322	Determination of an improved intermolecular global potential energy surface for ArH ₂ O from vibration-rotation tunneling spectroscopy. <i>Journal of Chemical Physics</i> , 1993 , 98, 6007-6030	3.9	166
321	Tropospheric Emissions: Monitoring of Pollution (TEMPO). <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 186, 17-39	2.1	163
320	Evaluation of space-based constraints on global nitrogen oxide emissions with regional aircraft measurements over and downwind of eastern North America. <i>Journal of Geophysical Research</i> , 2006 , 111,		159
319	A Preliminary Synthesis of Modeled Climate Change Impacts on U.S. Regional Ozone Concentrations. <i>Bulletin of the American Meteorological Society</i> , 2009 , 90, 1843-1864	6.1	153
318	Effects of alkali metal halide salts on the hydrogen bond network of liquid water. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 7046-52	3.4	149
317	An observational perspective on the atmospheric impacts of alkyl and multifunctional nitrates on ozone and secondary organic aerosol. <i>Chemical Reviews</i> , 2013 , 113, 5848-70	68.1	147
316	HO _x chemistry during INTEX-A 2004: Observation, model calculation, and comparison with previous studies. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		142
315	The Deep Convective Clouds and Chemistry (DC3) Field Campaign. <i>Bulletin of the American Meteorological Society</i> , 2015 , 96, 1281-1309	6.1	140
314	Influence of future climate and emissions on regional air quality in California. <i>Journal of Geophysical Research</i> , 2006 , 111,		139
313	Secondary organic aerosol formation and organic nitrate yield from NO ₃ oxidation of biogenic hydrocarbons. <i>Environmental Science & Technology</i> , 2014 , 48, 11944-53	10.3	134

312	Organic nitrate chemistry and its implications for nitrogen budgets in an isoprene- and monoterpene-rich atmosphere: constraints from aircraft (SEACRS) and ground-based (SOAS) observations in the Southeast US. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 5969-5991	6.8	129
311	The weekend effect within and downwind of Sacramento [Part 1: Observations of ozone, nitrogen oxides, and VOC reactivity. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 5327-5339	6.8	125
310	Raman thermometry measurements of free evaporation from liquid water droplets. <i>Journal of the American Chemical Society</i> , 2006 , 128, 12892-8	16.4	124
309	Observations of gas- and aerosol-phase organic nitrates at BEACHON-RoMBAS 2011. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 8585-8605	6.8	123
308	Pollution influences on atmospheric composition and chemistry at high northern latitudes: Boreal and California forest fire emissions. <i>Atmospheric Environment</i> , 2010 , 44, 4553-4564	5.3	116
307	Vibration-rotation-tunneling spectroscopy of the van der Waals bond: a new look at intermolecular forces. <i>The Journal of Physical Chemistry</i> , 1992 , 96, 1024-1040		116
306	Effects of model resolution on the interpretation of satellite NO ₂ observations. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 11647-11655	6.8	115
305	A high spatial resolution retrieval of NO ₂ column densities from OMI: method and evaluation. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 8543-8554	6.8	113
304	Characterization of selective binding of alkali cations with carboxylate by x-ray absorption spectroscopy of liquid microjets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 6809-12	11.5	112
303	On the observed response of ozone to NO _x and VOC reactivity reductions in San Joaquin Valley California 1995-present. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 8323-8339	6.8	108
302	Comparison of tropospheric NO ₂ from in situ aircraft measurements with near-real-time and standard product data from OMI. <i>Journal of Geophysical Research</i> , 2008 , 113,		108
301	Effects of cations on the hydrogen bond network of liquid water: new results from X-ray absorption spectroscopy of liquid microjets. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 5301-9	3.4	105
300	Experimental determination of dipole moments for molecular ions: Improved measurements for ArH ⁺ . <i>Journal of Chemical Physics</i> , 1989 , 90, 1358-1361	3.9	105
299	Temperature and recent trends in the chemistry of continental surface ozone. <i>Chemical Reviews</i> , 2015 , 115, 3898-918	68.1	102
298	Large upper tropospheric ozone enhancements above midlatitude North America during summer: In situ evidence from the IONS and MOZAIC ozone measurement network. <i>Journal of Geophysical Research</i> , 2006 , 111,		102
297	SOA from limonene: role of NO ₃ in its generation and degradation. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 3879-3894	6.8	101
296	Space-based constraints on spatial and temporal patterns of NO(x) emissions in California, 2005-2008. <i>Environmental Science & Technology</i> , 2010 , 44, 3608-15	10.3	101
295	Direct measurements of the convective recycling of the upper troposphere. <i>Science</i> , 2007 , 315, 816-20	33.3	101

294	On alkyl nitrates, O ₃ , and the missing NO _y . <i>Journal of Geophysical Research</i> , 2003 , 108,		100
293	Measurement of the perpendicular rotation-tunneling spectrum of the water dimer by tunable far infrared laser spectroscopy in a planar supersonic jet. <i>Journal of Chemical Physics</i> , 1989 , 90, 3937-3943	3.9	99
292	Tunable far-IR laser spectroscopy of jet-cooled carbon clusters: the nu ₂ bending vibration of C ₃ . <i>Science</i> , 1990 , 249, 897-900	33.3	98
291	Observational insights into aerosol formation from isoprene. <i>Environmental Science & Technology</i> , 2013 , 47, 11403-13	10.3	95
290	Extending the collocation method to multidimensional molecular dynamics: direct determination of the intermolecular potential of argon-water from tunable far-infrared laser spectroscopy. <i>The Journal of Physical Chemistry</i> , 1990 , 94, 7991-8000		95
289	Tunable far infrared laser spectroscopy of van der Waals bonds: Vibration-rotation-tunneling spectra of Ar@C ₂ O. <i>Journal of Chemical Physics</i> , 1988 , 89, 4494-4504	3.9	95
288	Chemical evolution of the Sacramento urban plume: Transport and oxidation. <i>Journal of Geophysical Research</i> , 2002 , 107, ACH 3-1-ACH 3-15		94
287	Multidimensional Intermolecular Potential Surfaces From Vibration-Rotation-Tunneling (VRT) Spectra of Van Der Waals Complexes. <i>Annual Review of Physical Chemistry</i> , 1991 , 42, 369-392	15.7	94
286	Space and time variation of δ ¹⁸ O and δ ² D in precipitation: Can paleotemperature be estimated from ice cores?. <i>Global Biogeochemical Cycles</i> , 2000 , 14, 851-861	5.9	92
285	Comparison of MkIV balloon and ER-2 aircraft measurements of atmospheric trace gases. <i>Journal of Geophysical Research</i> , 1999 , 104, 26779-26790		91
284	Organic nitrate aerosol formation via NO ₃ + biogenic volatile organic compounds in the southeastern United States. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 13377-13392	6.8	90
283	Testing and improving OMI DOMINO tropospheric NO ₂ using observations from the DANDELIONS and INTEX-B validation campaigns. <i>Journal of Geophysical Research</i> , 2010 , 115,		90
282	Observations of heterogeneous reactions between Asian pollution and mineral dust over the Eastern North Pacific during INTEX-B. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 8283-8308	6.8	89
281	Reactive nitrogen distribution and partitioning in the North American troposphere and lowermost stratosphere. <i>Journal of Geophysical Research</i> , 2007 , 112,		89
280	Probing the local structure of liquid water by X-ray absorption spectroscopy. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 20038-45	3.4	89
279	Multidimensional hydrogen tunneling dynamics in the ground vibrational state of the ammonia dimer. <i>Journal of Chemical Physics</i> , 1992 , 97, 4727-4749	3.9	89
278	On rates and mechanisms of OH and O ₃ reactions with isoprene-derived hydroxy nitrates. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 1622-37	2.8	88
277	Importance of biogenic precursors to the budget of organic nitrates: observations of multifunctional organic nitrates by CIMS and TD-LIF during BEARPEX 2009. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 5773-5785	6.8	88

276	Aircraft-borne, laser-induced fluorescence instrument for the in situ detection of hydroxyl and hydroperoxyl radicals. <i>Review of Scientific Instruments</i> , 1994 , 65, 1858-1876	1.7	88
275	The Berkeley tunable far infrared laser spectrometers. <i>Review of Scientific Instruments</i> , 1991 , 62, 1701-1716	1.7	88
274	Closing the peroxy acetyl nitrate budget: observations of acyl peroxy nitrates (PAN, PPN, and MPAN) during BEARPEX 2007. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 7623-7641	6.8	87
273	Thermodynamic characterization of Mexico City aerosol during MILAGRO 2006. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 2141-2156	6.8	86
272	Understanding the impact of recent advances in isoprene photooxidation on simulations of regional air quality. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 8439-8455	6.8	84
271	pH dependence of the electronic structure of glycine. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 5375-82	3.4	84
270	Tunable far infrared laser spectrometers. <i>Review of Scientific Instruments</i> , 1991 , 62, 1693-1700	1.7	83
269	Eddy covariance fluxes of acyl peroxy nitrates (PAN, PPN and MPAN) above a Ponderosa pine forest. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 615-634	6.8	80
268	Airborne observations of total RONO ₂ : new constraints on the yield and lifetime of isoprene nitrates. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 1451-1463	6.8	80
267	Observations of HNO ₃ , PAN, PN and NO ₂ fluxes: evidence for rapid HO _x chemistry within a pine forest canopy. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 3899-3917	6.8	80
266	Spectroscopic determination of the intermolecular potential energy surface for ArNH ₃ . <i>Journal of Chemical Physics</i> , 1994 , 101, 146-173	3.9	78
265	Tunable far infrared laser spectroscopy of van der Waals bonds: Extended measurements on the lowest bend of ArHCl. <i>Journal of Chemical Physics</i> , 1988 , 89, 1268-1276	3.9	78
264	Variations of OH radical in an urban plume inferred from NO ₂ column measurements. <i>Geophysical Research Letters</i> , 2013 , 40, 1856-1860	4.9	77
263	Tunable far infrared laser spectroscopy of van der Waals bonds: The intermolecular stretching vibration and effective radial potentials for ArH ₂ O. <i>Journal of Chemical Physics</i> , 1990 , 92, 169-177	3.9	77
262	Direct observation of changing NO lifetime in North American cities. <i>Science</i> , 2019 , 366, 723-727	33.3	76
261	Twilight observations suggest unknown sources of HO _x . <i>Geophysical Research Letters</i> , 1999 , 26, 1373-1376	1.6	76
260	Validating novel air pollution sensors to improve exposure estimates for epidemiological analyses and citizen science. <i>Environmental Research</i> , 2017 , 158, 286-294	7.9	74
259	Real time in situ detection of organic nitrates in atmospheric aerosols. <i>Environmental Science & Technology</i> , 2010 , 44, 5540-5	10.3	74

258	A product study of the isoprene+NO ₃ reaction. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 4945-4956	6.8	74
257	Total Peroxy Nitrates (PNs) in the atmosphere: the Thermal Dissociation-Laser Induced Fluorescence (TD-LIF) technique and comparisons to speciated PAN measurements. <i>Atmospheric Measurement Techniques</i> , 2010 , 3, 593-607	4	72
256	Summertime influence of Asian pollution in the free troposphere over North America. <i>Journal of Geophysical Research</i> , 2007 , 112,		72
255	Application of thermal-dissociation laser induced fluorescence (TD-LIF) to measurement of HNO ₃ , alkyl nitrates, peroxy nitrates, and NO ₂ fluxes using eddy covariance. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 3471-3486	6.8	71
254	Observations of total alkyl nitrates during Texas Air Quality Study 2000: Implications for O ₃ and alkyl nitrate photochemistry. <i>Journal of Geophysical Research</i> , 2004 , 109,		71
253	Interannual variability in soil nitric oxide emissions over the United States as viewed from space. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 9943-9952	6.8	70
252	Satellite measurements of daily variations in soil NO _x emissions. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	70
251	Heterogeneous N ₂ O ₅ Uptake During Winter: Aircraft Measurements During the 2015 WINTER Campaign and Critical Evaluation of Current Parameterizations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 4345-4372	4.4	69
250	The diurnal variation of hydrogen, nitrogen, and chlorine radicals: Implications for the heterogeneous production of HNO ₂ . <i>Geophysical Research Letters</i> , 1994 , 21, 2551-2554	4.9	69
249	Characterization of wildfire NO _x emissions using MODIS fire radiative power and OMI tropospheric NO ₂ columns. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 5839-5851	6.8	68
248	Tunable far-infrared laser spectroscopy of hydrogen bonds: The Ka = 0(u)-j(l) rotation-tunneling spectrum of the HCl dimer. <i>Journal of Chemical Physics</i> , 1988 , 89, 6577-6587	3.9	68
247	The Chemistry of Atmosphere-Forest Exchange (CAFE) Model [Part 2: Application to BEARPEX-2007 observations. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 1269-1294	6.8	67
246	Observations of the diurnal and seasonal trends in nitrogen oxides in the western Sierra Nevada. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 5321-5338	6.8	67
245	Ozone depletion events observed in the high latitude surface layer during the TOPSE aircraft program. <i>Journal of Geophysical Research</i> , 2003 , 108, TOP 4-1		67
244	Multidimensional intermolecular dynamics from tunable far-infrared laser spectroscopy: Angular-radial coupling in the intermolecular potential of argon-H ₂ O. <i>Journal of Chemical Physics</i> , 1991 , 95, 7891-7906	3.9	67
243	Impact of organic nitrates on urban ozone production. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 4085-4094	6.6	66
242	Effects of biogenic nitrate chemistry on the NO _x lifetime in remote continental regions. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 11917-11932	6.8	66
241	A relaxed eddy accumulation system for measuring vertical fluxes of nitrous acid. <i>Atmospheric Measurement Techniques</i> , 2011 , 4, 2093-2103	4	65

240	Intercomparison of measurements of NO ₂ concentrations in the atmosphere simulation chamber SAPHIR during the NO ₃ Comp campaign. <i>Atmospheric Measurement Techniques</i> , 2010 , 3, 21-37	4	63
239	Nature of the aqueous hydroxide ion probed by X-ray absorption spectroscopy. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 4776-85	2.8	62
238	The distribution of hydrogen, nitrogen, and chlorine radicals in the lower stratosphere: Implications for changes in O ₃ due to emission of NO _y from supersonic aircraft. <i>Geophysical Research Letters</i> , 1994 , 21, 2547-2550	4.9	62
237	On the temperature dependence of organic reactivity, nitrogen oxides, ozone production, and the impact of emission controls in San Joaquin Valley, California. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 3373-3395	6.8	61
236	Measurement of HO ₂ NO ₂ in the free troposphere during the Intercontinental Chemical Transport Experiment-North America 2004. <i>Journal of Geophysical Research</i> , 2007 , 112,		60
235	Kinetics of NO and NO ₂ evolution from illuminated frozen nitrate solutions. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 3578-83	2.8	60
234	Observations of total RONO ₂ over the boreal forest: NO _x sinks and HNO ₃ sources. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 4543-4562	6.8	57
233	Lightning-generated NO _x seen by the Ozone Monitoring Instrument during NASA's Tropical Composition, Cloud and Climate Coupling Experiment (TC4). <i>Journal of Geophysical Research</i> , 2010 , 115,		57
232	Far infrared vibration-rotation-tunneling spectroscopy and internal dynamics of methane-water: A prototypical hydrophobic system. <i>Journal of Chemical Physics</i> , 1994 , 100, 863-876	3.9	57
231	Prototype for in situ detection of atmospheric NO ₃ and N ₂ O ₅ via laser-induced fluorescence. <i>Environmental Science & Technology</i> , 2003 , 37, 5732-8	10.3	56
230	Using satellite observations of tropospheric NO ₂ columns to infer long-term trends in US NO _x emissions: the importance of accounting for the free tropospheric NO ₂ background. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 8863-8878	6.8	55
229	Cation-cation contact pairing in water: guanidinium. <i>Journal of Chemical Physics</i> , 2013 , 139, 035104	3.9	55
228	Photochemical production and release of gaseous NO ₂ from nitrate-doped water ice. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 8520-5	2.8	55
227	A comparison of observations and model simulations of NO _x /NO _y in the lower stratosphere. <i>Geophysical Research Letters</i> , 1999 , 26, 1153-1156	4.9	55
226	Determination of the dipole moment of ArH ⁺ from the rotational Zeeman effect by tunable far infrared laser spectroscopy. <i>Physical Review Letters</i> , 1987 , 58, 996-999	7.4	55
225	Evidence for a nitrous acid (HONO) reservoir at the ground surface in Bakersfield, CA, during CalNex 2010. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 9093-9106	4.4	54
224	The BERkeley Atmospheric CO ₂ Observation Network: initial evaluation. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 13449-13463	6.8	53
223	The POLARCAT Model Intercomparison Project (POLMIP): overview and evaluation with observations. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 6721-6744	6.8	52

222	Measurement of atmospheric nitrous acid at Bodgett Forest during BEARPEX2007. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 6283-6294	6.8	52
221	The production and persistence of RONO_2 in the Mexico City plume. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 7215-7229	6.8	51
220	Synthesis of the Southeast Atmosphere Studies: Investigating Fundamental Atmospheric Chemistry Questions. <i>Bulletin of the American Meteorological Society</i> , 2018 , 99, 547-567	6.1	50
219	Laser-induced fluorescence detection of atmospheric NO_2 with a commercial diode laser and a supersonic expansion. <i>Applied Optics</i> , 2002 , 41, 6950-6	1.7	50
218	Ab initio potential energy surface and dynamics of HeHCO . <i>Journal of Chemical Physics</i> , 1994 , 101, 8680-8686	3.9	50
217	Far-infrared vibration-rotation-tunneling spectroscopy of ArNH_3 : Intermolecular vibrations and effective angular potential energy surface. <i>Journal of Chemical Physics</i> , 1991 , 95, 9-21	3.9	50
216	The lifetime of nitrogen oxides in an isoprene-dominated forest. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 7623-7637	6.8	49
215	Elemental analysis of aerosol organic nitrates with electron ionization high-resolution mass spectrometry. <i>Atmospheric Measurement Techniques</i> , 2010 , 3, 301-310	4	49
214	VOC reactivity in central California: comparing an air quality model to ground-based measurements. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 351-368	6.8	49
213	Chemical feedback effects on the spatial patterns of the NO_x weekend effect: a sensitivity analysis. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 1-9	6.8	48
212	Local hydration environments of amino acids and dipeptides studied by X-ray spectroscopy of liquid microjets. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 21640-6	3.4	47
211	Comparisons of in situ and long path measurements of NO_2 in urban plumes. <i>Journal of Geophysical Research</i> , 2003 , 108,		47
210	Measurements of N_2O_5 , NO_2 , and O_3 east of the San Francisco Bay. <i>Atmospheric Chemistry and Physics</i> , 2005 , 5, 483-491	6.8	46
209	Sensitivity to grid resolution in the ability of a chemical transport model to simulate observed oxidant chemistry under high-isoprene conditions. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 4369-4378	6.8	45
208	Gas/particle partitioning of total alkyl nitrates observed with TD-LIF in Bakersfield. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 6651-6662	4.4	44
207	Observations of elevated formaldehyde over a forest canopy suggest missing sources from rapid oxidation of arboreal hydrocarbons. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 8761-8781	6.8	44
206	Hydroxy nitrate production in the OH-initiated oxidation of alkenes. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 4297-4316	6.8	43
205	Isotope fractionation of water during evaporation without condensation. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 24391-400	3.4	43

204	Measurements of the sum of HO ₂ and NO ₂ and CH ₃ O ₂ and NO ₂ in the remote troposphere. <i>Atmospheric Chemistry and Physics</i> , 2004 , 4, 377-384	6.8	43
203	Constraints on Aerosol Nitrate Photolysis as a Potential Source of HONO and NO. <i>Environmental Science & Technology</i> , 2018 , 52, 13738-13746	10.3	43
202	Testing Atmospheric Oxidation in an Alabama Forest. <i>Journals of the Atmospheric Sciences</i> , 2016 , 73, 4699-4710	2.1	42
201	Effects of daily meteorology on the interpretation of space-based remote sensing of NO ₂ . <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 15247-15264	6.8	41
200	On the effectiveness of nitrogen oxide reductions as a control over ammonium nitrate aerosol. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 2575-2596	6.8	41
199	Anionic, Cationic, and Nonionic Surfactants in Atmospheric Aerosols from the Baltic Coast at Askö Sweden: Implications for Cloud Droplet Activation. <i>Environmental Science & Technology</i> , 2016 , 50, 2974-82	10.3	41
198	Global and regional effects of the photochemistry of CH ₃ O ₂ and NO ₂ : evidence from ARCTAS. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 4209-4219	6.8	41
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42	Observations of heterogeneous reactions between Asian pollution and mineral dust over the Eastern North Pacific during INTEX-B		2
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40	Evaluation of version 3.0B of the BEHR OMI NO ₂ product		2
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21	Low temperatures enhance organic nitrate formation: evidence from observations in the 2012 Uintah Basin Winter Ozone Study	1
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19	Determination of the evaporation coefficient of D_2O	1
18	Closing the peroxy acetyl (PA) radical budget: observations of acyl peroxy nitrates (PAN, PPN, and MPAN) during BEARPEX 2007	1
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10	Observations of atmosphere-biosphere exchange of total and speciated peroxy nitrates: nitrogen fluxes and biogenic sources of peroxy nitrates	1
9	Space-Borne Estimation of Volcanic Sulfate Aerosol Lifetime. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD033883	4-4 1
8	Network design for quantifying urban CO_2 emissions: Assessing trade-offs between precision and network density 2016 ,	1
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6	The Lifetime of Nitrogen Oxides in an Isoprene Dominated Forest 2016 ,		1
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