

Joost de Gouw

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2579085/publications.pdf>

Version: 2024-02-01

333
papers

32,080
citations

2963

93
h-index

7931

149
g-index

484
all docs

484
docs citations

484
times ranked

14045
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurements of volatile organic compounds in the earth's atmosphere using proton-transfer-reaction mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2007, 26, 223-257.	2.8	1,017
2	Volatile chemical products emerging as largest petrochemical source of urban organic emissions. <i>Science</i> , 2018, 359, 760-764.	6.0	716
3	Budget of organic carbon in a polluted atmosphere: Results from the New England Air Quality Study in 2002. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	689
4	The Indian Ocean Experiment: Widespread Air Pollution from South and Southeast Asia. <i>Science</i> , 2001, 291, 1031-1036.	6.0	687
5	A study of secondary organic aerosol formation in the anthropogenic-influenced southeastern United States. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	517
6	Effects of anthropogenic emissions on aerosol formation from isoprene and monoterpenes in the southeastern United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 37-42.	3.3	496
7	Measurement of the mixing state, mass, and optical size of individual black carbon particles in urban and biomass burning emissions. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	388
8	Organic Aerosols in the Earth's Atmosphere. <i>Environmental Science & Technology</i> , 2009, 43, 7614-7618.	4.6	374
9	Review of Urban Secondary Organic Aerosol Formation from Gasoline and Diesel Motor Vehicle Emissions. <i>Environmental Science & Technology</i> , 2017, 51, 1074-1093.	4.6	348
10	Chemical and physical transformations of organic aerosol from the photo-oxidation of open biomass burning emissions in an environmental chamber. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 7669-7686.	1.9	329
11	Source Signature of Volatile Organic Compounds from Oil and Natural Gas Operations in Northeastern Colorado. <i>Environmental Science & Technology</i> , 2013, 47, 1297-1305.	4.6	305
12	Sensitivity and specificity of atmospheric trace gas detection by proton-transfer-reaction mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2003, 223-224, 365-382.	0.7	289
13	Biomass burning in Siberia and Kazakhstan as an important source for haze over the Alaskan Arctic in April 2008. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	289
14	Proton-Transfer-Reaction Mass Spectrometry: Applications in Atmospheric Sciences. <i>Chemical Reviews</i> , 2017, 117, 13187-13229.	23.0	282
15	Global atmospheric budget of acetaldehyde: 3-D model analysis and constraints from in-situ and satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 3405-3425.	1.9	278
16	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, 1516-1521.	3.3	269
17	Importance of secondary sources in the atmospheric budgets of formic and acetic acids. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 1989-2013.	1.9	266
18	Coupling field and laboratory measurements to estimate the emission factors of identified and unidentified trace gases for prescribed fires. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 89-116.	1.9	266

#	ARTICLE	IF	CITATIONS
19	High winter ozone pollution from carbonyl photolysis in an oil and gas basin. <i>Nature</i> , 2014, 514, 351-354.	13.7	265
20	Global budget of methanol: Constraints from atmospheric observations. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	263
21	Characteristics, sources, and transport of aerosols measured in spring 2008 during the aerosol, radiation, and cloud processes affecting Arctic Climate (ARCPAC) Project. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 2423-2453.	1.9	259
22	Chemical data quantify <i>Deepwater Horizon</i> hydrocarbon flow rate and environmental distribution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20246-20253.	3.3	258
23	Determination of urban volatile organic compound emission ratios and comparison with an emissions database. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	254
24	Validation of Atmospheric VOC Measurements by Proton-Transfer- Reaction Mass Spectrometry Using a Gas-Chromatographic Preseparation Method. <i>Environmental Science & Technology</i> , 2003, 37, 2494-2501.	4.6	248
25	Non-methane organic gas emissions from biomass burning: identification, quantification, and emission factors from PTR-ToF during the FIREX 2016 laboratory experiment. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 3299-3319.	1.9	233
26	Organic aerosol composition and sources in Pasadena, California, during the 2010 CalNex campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 9233-9257.	1.2	231
27	Organic aerosol formation in urban and industrial plumes near Houston and Dallas, Texas. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	230
28	Intermediate-Volatility Organic Compounds: A Large Source of Secondary Organic Aerosol. <i>Environmental Science & Technology</i> , 2014, 48, 13743-13750.	4.6	221
29	Reduced emissions of CO_2 , NO_x , and SO_2 from U.S. power plants owing to switch from coal to natural gas with combined cycle technology. <i>Earth's Future</i> , 2014, 2, 75-82.	2.4	219
30	Validation of proton transfer reaction-mass spectrometry (PTR-MS) measurements of gas-phase organic compounds in the atmosphere during the New England Air Quality Study (NEAQS) in 2002. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	218
31	Laboratory measurements of trace gas emissions from biomass burning of fuel types from the southeastern and southwestern United States. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 11115-11130.	1.9	218
32	Secondary organic aerosol formation and primary organic aerosol oxidation from biomass-burning smoke in a flow reactor during FLAME-3. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 11551-11571.	1.9	218
33	Emission ratios of anthropogenic volatile organic compounds in northern mid-latitude megacities: Observations versus emission inventories in Los Angeles and Paris. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 2041-2057.	1.2	210
34	Volatile organic compounds (VOCs) in urban air: How chemistry affects the interpretation of positive matrix factorization (PMF) analysis. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	207
35	Proton-Transfer-Reaction Mass Spectrometry as a New Tool for Real Time Analysis of Root-Secreted Volatile Organic Compounds in Arabidopsis. <i>Plant Physiology</i> , 2004, 135, 47-58.	2.3	204
36	Contribution of isoprene-derived organosulfates to free tropospheric aerosol mass. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 21360-21365.	3.3	203

#	ARTICLE	IF	CITATIONS
37	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.	1.2	199
38	A large and ubiquitous source of atmospheric formic acid. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 6283-6304.	1.9	197
39	A volatility basis set model for summertime secondary organic aerosols over the eastern United States in 2006. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	195
40	Development of negative-ion proton-transfer chemical-ionization mass spectrometry (NI-PT-CIMS) for the measurement of gas-phase organic acids in the atmosphere. <i>International Journal of Mass Spectrometry</i> , 2008, 274, 48-55.	0.7	193
41	Gasoline emissions dominate over diesel in formation of secondary organic aerosol mass. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	189
42	Monoterpenes are the largest source of summertime organic aerosol in the southeastern United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2038-2043.	3.3	186
43	Characterization of a real-time tracer for isoprene epoxydiols-derived secondary organic aerosol (IEPOX-SOA) from aerosol mass spectrometer measurements. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 11807-11833.	1.9	185
44	Multiyear trends in volatile organic compounds in Los Angeles, California: Five decades of decreasing emissions. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	183
45	Emission sources and ocean uptake of acetonitrile (CH ₃ CN) in the atmosphere. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	179
46	Airborne measurements of carbonaceous aerosol soluble in water over northeastern United States: Method development and an investigation into water-soluble organic carbon sources. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	179
47	Atmospheric fates of Criegee intermediates in the ozonolysis of isoprene. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 10241-10254.	1.3	179
48	Nitryl Chloride and Molecular Chlorine in the Coastal Marine Boundary Layer. <i>Environmental Science & Technology</i> , 2012, 46, 10463-10470.	4.6	177
49	Biomass burning emissions and potential air quality impacts of volatile organic compounds and other trace gases from fuels common in the US. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 13915-13938.	1.9	177
50	Sources of particulate matter in the northeastern United States in summer: 1. Direct emissions and secondary formation of organic matter in urban plumes. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	173
51	In-situ ambient quantification of monoterpenes, sesquiterpenes, and related oxygenated compounds during BEARPEX 2007: implications for gas- and particle-phase chemistry. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 5505-5518.	1.9	172
52	An important contribution to springtime Arctic aerosol from biomass burning in Russia. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	172
53	A case study of transpacific warm conveyor belt transport: Influence of merging airstreams on trace gas import to North America. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	169
54	Evaluation of a New Reagent-Ion Source and Focusing Ion-Molecule Reactor for Use in Proton-Transfer-Reaction Mass Spectrometry. <i>Analytical Chemistry</i> , 2018, 90, 12011-12018.	3.2	168

#	ARTICLE	IF	CITATIONS
55	Quantifying sources of methane using light alkanes in the Los Angeles basin, California. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 4974-4990.	1.2	167
56	Isocyanic acid in the atmosphere and its possible link to smoke-related health effects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 8966-8971.	3.3	166
57	Volatile organic compounds composition of merged and aged forest fire plumes from Alaska and western Canada. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	165
58	Quantifying atmospheric methane emissions from the Haynesville, Fayetteville, and northeastern Marcellus shale gas production regions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 2119-2139.	1.2	164
59	Organic Aerosol Formation Downwind from the Deepwater Horizon Oil Spill. <i>Science</i> , 2011, 331, 1295-1299.	6.0	162
60	Correlation of secondary organic aerosol with odd oxygen in Mexico City. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	161
61	Measurements of gas-phase inorganic and organic acids from biomass fires by negative-ion proton-transfer chemical-ionization mass spectrometry. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	161
62	New constraints on terrestrial and oceanic sources of atmospheric methanol. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 6887-6905.	1.9	160
63	Black carbon lofts wildfire smoke high into the stratosphere to form a persistent plume. <i>Science</i> , 2019, 365, 587-590.	6.0	159
64	Understanding high wintertime ozone pollution events in an oil- and natural gas-producing region of the western US. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 411-429.	1.9	154
65	Primary and secondary sources of formaldehyde in urban atmospheres: Houston Texas region. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 3273-3288.	1.9	153
66	Measurement of HONO, HNCO, and other inorganic acids by negative-ion proton-transfer chemical-ionization mass spectrometry (NI-PT-CIMS): application to biomass burning emissions. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 981-990.	1.2	152
67	Comparison of daytime and nighttime oxidation of biogenic and anthropogenic VOCs along the New England coast in summer during New England Air Quality Study 2002. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	144
68	Effects of mixing on evolution of hydrocarbon ratios in the troposphere. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	140
69	Modeling the formation and aging of secondary organic aerosols in Los Angeles during CalNex 2010. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 5773-5801.	1.9	139
70	Evaluating simulated primary anthropogenic and biomass burning organic aerosols during MILAGRO: implications for assessing treatments of secondary organic aerosols. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 6191-6215.	1.9	138
71	Real-time measurements of secondary organic aerosol formation and aging from ambient air in an oxidation flow reactor in the Los Angeles area. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7411-7433.	1.9	137
72	Emissions of volatile organic compounds from cut grass and clover are enhanced during the drying process. <i>Geophysical Research Letters</i> , 1999, 26, 811-814.	1.5	133

#	ARTICLE	IF	CITATIONS
73	Gasoline cars produce more carbonaceous particulate matter than modern filter-equipped diesel cars. <i>Scientific Reports</i> , 2017, 7, 4926.	1.6	133
74	Chemical evolution of volatile organic compounds in the outflow of the Mexico City Metropolitan area. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 2353-2375.	1.9	131
75	Nocturnal isoprene oxidation over the Northeast United States in summer and its impact on reactive nitrogen partitioning and secondary organic aerosol. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 3027-3042.	1.9	128
76	Organosulfates as Tracers for Secondary Organic Aerosol (SOA) Formation from 2-Methyl-3-Buten-2-ol (MBO) in the Atmosphere. <i>Environmental Science & Technology</i> , 2012, 46, 9437-9446.	4.6	128
77	Nighttime removal of NO _x in the summer marine boundary layer. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	127
78	Biomass-burning particle measurements: Characteristic composition and chemical processing. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	127
79	Measurements of volatile organic compounds at a suburban ground site (T1) in Mexico City during the MILAGRO 2006 campaign: measurement comparison, emission ratios, and source attribution. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 2399-2421.	1.9	127
80	Vertically Resolved Measurements of Nighttime Radical Reservoirs in Los Angeles and Their Contribution to the Urban Radical Budget. <i>Environmental Science & Technology</i> , 2012, 46, 10965-10973.	4.6	127
81	Impacts of sources and aging on submicrometer aerosol properties in the marine boundary layer across the Gulf of Maine. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	126
82	Modeling the Radical Chemistry in an Oxidation Flow Reactor: Radical Formation and Recycling, Sensitivities, and the OH Exposure Estimation Equation. <i>Journal of Physical Chemistry A</i> , 2015, 119, 4418-4432.	1.1	126
83	Organic nitrate aerosol formation via NO ₂ + biogenic volatile organic compounds in the southeastern United States. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 13377-13392.	1.9	124
84	Formaldehyde production from isoprene oxidation across different regimes. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 2597-2610.	1.9	124
85	Comparison of air pollutant emissions among mega-cities. <i>Atmospheric Environment</i> , 2009, 43, 6435-6441.	1.9	123
86	VOC identification and inter-comparison from laboratory biomass burning using PTR-MS and PIT-MS. <i>International Journal of Mass Spectrometry</i> , 2011, 303, 6-14.	0.7	123
87	Atmospheric amines and ammonia measured with a chemical ionization mass spectrometer (CIMS). <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 12181-12194.	1.9	121
88	Identification and Quantification of 4-Nitrocatechol Formed from OH and NO ₃ Radical-Initiated Reactions of Catechol in Air in the Presence of NO _x : Implications for Secondary Organic Aerosol Formation from Biomass Burning. <i>Environmental Science & Technology</i> , 2018, 52, 1981-1989.	4.6	116
89	Emission and chemistry of organic carbon in the gas and aerosol phase at a sub-urban site near Mexico City in March 2006 during the MILAGRO study. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 3425-3442.	1.9	114
90	Observational Insights into Aerosol Formation from Isoprene. <i>Environmental Science & Technology</i> , 2013, 47, 11403-11413.	4.6	113

#	ARTICLE	IF	CITATIONS
91	Concentrations and sources of organic carbon aerosols in the free troposphere over North America. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	111
92	Understanding the role of the ground surface in HONO vertical structure: High resolution vertical profiles during NACHTTâ€1. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 10,155.	1.2	111
93	Atmospheric emissions from the Deepwater Horizon spill constrain air-water partitioning, hydrocarbon fate, and leak rate. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	107
94	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.	1.9	105
95	Secondary organic aerosol production from local emissions dominates the organic aerosol budget over Seoul, South Korea, during KORUS-AQ. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 17769-17800.	1.9	105
96	Ozone variability and halogen oxidation within the Arctic and sub-Arctic springtime boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 10223-10236.	1.9	104
97	Disjunct eddy covariance measurements of oxygenated volatile organic compounds fluxes from an alfalfa field before and after cutting. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 6-1.	3.3	103
98	Measurements of volatile organic compounds during the 2006 TexAQ/GoMACCS campaign: Industrial influences, regional characteristics, and diurnal dependencies of the OH reactivity. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	103
99	Aerosol optical properties and trace gas emissions by PAX and OP-FTIR for laboratory-simulated western US wildfires during FIREX. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2929-2948.	1.9	103
100	High- and low-temperature pyrolysis profiles describe volatile organic compound emissions from western US wildfire fuels. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 9263-9281.	1.9	102
101	Calculation of the sensitivity of proton-transfer-reaction mass spectrometry (PTR-MS) for organic trace gases using molecular properties. <i>International Journal of Mass Spectrometry</i> , 2017, 421, 71-94.	0.7	101
102	Ozone photochemistry in an oil and natural gas extraction region during winter: simulations of a snow-free season in the Uintah Basin, Utah. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 8955-8971.	1.9	100
103	Effects of gasâ€wall partitioning in Teflon tubing and instrumentation on time-resolved measurements of gas-phase organic compounds. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 4687-4696.	1.2	100
104	The glyoxal budget and its contribution to organic aerosol for Los Angeles, California, during CalNex 2010. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	99
105	Conversion of hydroperoxides to carbonyls in field and laboratory instrumentation: Observational bias in diagnosing pristine versus anthropogenically controlled atmospheric chemistry. <i>Geophysical Research Letters</i> , 2014, 41, 8645-8651.	1.5	99
106	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. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 10977-10988.	1.9	98
107	Airborne and groundâ€based observations of a weekend effect in ozone, precursors, and oxidation products in the California South Coast Air Basin. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	97
108	Volatile and intermediate volatility organic compounds in suburban Paris: variability, origin and importance for SOA formation. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 10439-10464.	1.9	97

#	ARTICLE	IF	CITATIONS
109	Proton-Transfer Chemical-Ionization Mass Spectrometry Allows Real-Time Analysis of Volatile Organic Compounds Released from Cutting and Drying of Crops. <i>Environmental Science & Technology</i> , 2000, 34, 2640-2648.	4.6	94
110	Total observed organic carbon (TOOC) in the atmosphere: a synthesis of North American observations. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 2007-2025.	1.9	94
111	Disjunct eddy covariance technique for trace gas flux measurements. <i>Geophysical Research Letters</i> , 2001, 28, 3139-3142.	1.5	93
112	Source Identification of Reactive Hydrocarbons and Oxygenated VOCs in the Summertime in Beijing. <i>Environmental Science & Technology</i> , 2009, 43, 75-81.	4.6	92
113	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. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 14875-14899.	1.9	92
114	Contribution of human-related sources to indoor volatile organic compounds in a university classroom. <i>Indoor Air</i> , 2016, 26, 925-938.	2.0	91
115	Chemical composition of air masses transported from Asia to the U.S. West Coast during ITCT 2K2: Fossil fuel combustion versus biomass-burning signatures. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	89
116	Biogenic emission measurement and inventories determination of biogenic emissions in the eastern United States and Texas and comparison with biogenic emission inventories. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	89
117	Evidence of rapid production of organic acids in an urban air mass. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	89
118	Time-Resolved Measurements of Indoor Chemical Emissions, Deposition, and Reactions in a University Art Museum. <i>Environmental Science & Technology</i> , 2019, 53, 4794-4802.	4.6	89
119	Reactive uptake of ozone by liquid organic compounds. <i>Geophysical Research Letters</i> , 1998, 25, 931-934.	1.5	88
120	The impact of monsoon outflow from India and Southeast Asia in the upper troposphere over the eastern Mediterranean. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 1589-1608.	1.9	86
121	Particle characteristics following cloud-modified transport from Asia to North America. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	86
122	Influence of oil and gas emissions on summertime ozone in the Colorado Northern Front Range. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 8712-8729.	1.2	86
123	Evaluations of NO _x and highly reactive VOC emission inventories in Texas and their implications for ozone plume simulations during the Texas Air Quality Study 2006. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 11361-11386.	1.9	85
124	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.	1.9	85
125	Secondary formation of nitrated phenols: insights from observations during the Uintah Basin Winter Ozone Study (UBWOS) 2014. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 2139-2153.	1.9	85
126	Deep convective injection of boundary layer air into the lowermost stratosphere at midlatitudes. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 739-745.	1.9	84

#	ARTICLE	IF	CITATIONS
127	Development of proton-transfer ion trap-mass spectrometry: on-line detection and identification of volatile organic compounds in air. <i>Journal of the American Society for Mass Spectrometry</i> , 2005, 16, 1316-1324.	1.2	84
128	Biomass burning and anthropogenic sources of CO over New England in the summer 2004. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	83
129	Emission factor ratios, SOA mass yields, and the impact of vehicular emissions on SOA formation. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 2383-2397.	1.9	83
130	Volatility and lifetime against OH heterogeneous reaction of ambient isoprene-epoxydiols-derived secondary organic aerosol (IEPOX-SOA). <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 11563-11580.	1.9	82
131	Origins and composition of fine atmospheric carbonaceous aerosol in the Sierra Nevada Mountains, California. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 10219-10241.	1.9	81
132	Measurements of hydroxyl and hydroperoxy radicals during CalNexâ€LA: Model comparisons and radical budgets. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 4211-4232.	1.2	81
133	Gas-phase chemical characteristics of Asian emission plumes observed during ITCT 2K2 over the eastern North Pacific Ocean. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	80
134	Airborne formaldehyde measurements using PTR-MS: calibration, humidity dependence, inter-comparison and initial results. <i>Atmospheric Measurement Techniques</i> , 2011, 4, 2345-2358.	1.2	80
135	An Odd Oxygen Framework for Wintertime Ammonium Nitrate Aerosol Pollution in Urban Areas: NO _x and VOC Control as Mitigation Strategies. <i>Geophysical Research Letters</i> , 2019, 46, 4971-4979.	1.5	80
136	Air quality implications of the <i>Deepwater Horizon</i> oil spill. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20280-20285.	3.3	79
137	A high-resolution time-of-flight chemical ionization mass spectrometer utilizing hydronium ions (H ₃ O ⁺ ; ToF-CIMS) for measurements of volatile organic compounds in the atmosphere. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 2735-2752.	1.2	79
138	Emissions of nitrogenâ€containing organic compounds from the burning of herbaceous and arboraceous biomass: Fuel composition dependence and the variability of commonly used nitrile tracers. <i>Geophysical Research Letters</i> , 2016, 43, 9903-9912.	1.5	79
139	Airborne measurements of HCHO and HCOOH during the New England Air Quality Study 2004 using a pulsed quantum cascade laser spectrometer. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	78
140	Anthropogenic enhancements to production of highly oxygenated molecules from autoxidation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 6641-6646.	3.3	78
141	VOC species and emission inventory from vehicles and their SOA formation potentials estimation in Shanghai, China. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 11081-11096.	1.9	77
142	Daily Satellite Observations of Methane from Oil and Gas Production Regions in the United States. <i>Scientific Reports</i> , 2020, 10, 1379.	1.6	76
143	Nocturnal odd-oxygen budget and its implications for ozone loss in the lower troposphere. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	75
144	Vertical profiles in NO ₃ and N ₂ O ₅ measured from an aircraft: Results from the NOAA Pâ€3 and surface platforms during the New England Air Quality Study 2004. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	75

#	ARTICLE	IF	CITATIONS
145	Observation of isoprene hydroxynitrates in the southeastern United States and implications for the fate of NO _x . Atmospheric Chemistry and Physics, 2015, 15, 11257-11272.	1.9	75
146	The lifetime of nitrogen oxides in an isoprene-dominated forest. Atmospheric Chemistry and Physics, 2016, 16, 7623-7637.	1.9	75
147	Qualitative and quantitative analysis of atmospheric organosulfates in Centreville, Alabama. Atmospheric Chemistry and Physics, 2017, 17, 1343-1359.	1.9	75
148	Quantifying Methane and Ethane Emissions to the Atmosphere From Central and Western U.S. Oil and Natural Gas Production Regions. Journal of Geophysical Research D: Atmospheres, 2018, 123, 7725-7740.	1.2	74
149	Droplet activation properties of organic aerosols observed at an urban site during CalNex ^{LA} . Journal of Geophysical Research D: Atmospheres, 2013, 118, 2903-2917.	1.2	73
150	Diurnal Variability and Emission Pattern of Decamethylcyclopentasiloxane (D ₅) from the Application of Personal Care Products in Two North American Cities. Environmental Science & Technology, 2018, 52, 5610-5618.	4.6	72
151	Oxygenated Aromatic Compounds are Important Precursors of Secondary Organic Aerosol in Biomass-Burning Emissions. Environmental Science & Technology, 2020, 54, 8568-8579.	4.6	72
152	Aircraft observations of daytime NO ₃ and N ₂ O ₅ and their implications for tropospheric chemistry. Journal of Photochemistry and Photobiology A: Chemistry, 2005, 176, 270-278.	2.0	70
153	Absorbing aerosol in the troposphere of the Western Arctic during the 2008 ARCTAS/ARCPAC airborne field campaigns. Atmospheric Chemistry and Physics, 2011, 11, 7561-7582.	1.9	70
154	An evaluation of real-time air quality forecasts and their urban emissions over eastern Texas during the summer of 2006 Second Texas Air Quality Study field study. Journal of Geophysical Research, 2009, 114, .	3.3	69
155	Detailed chemical characterization of unresolved complex mixtures in atmospheric organics: Insights into emission sources, atmospheric processing, and secondary organic aerosol formation. Journal of Geophysical Research D: Atmospheres, 2013, 118, 6783-6796.	1.2	69
156	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
157	A Library of Proton-Transfer Reactions of H ₃ O ⁺ Ions Used for Trace Gas Detection. Journal of the American Society for Mass Spectrometry, 2019, 30, 1330-1335.	1.2	68
158	Secondary organic aerosol formation from the laboratory oxidation of biomass burning emissions. Atmospheric Chemistry and Physics, 2019, 19, 12797-12809.	1.9	67
159	Heterogeneous formation of nitryl chloride and its role as a nocturnal NO _x reservoir species during CalNex ^{LA} 2010. Journal of Geophysical Research D: Atmospheres, 2013, 118, 10,638.	1.2	65
160	Modeling Ozone in the Eastern U.S. using a Fuel-Based Mobile Source Emissions Inventory. Environmental Science & Technology, 2018, 52, 7360-7370.	4.6	64
161	Measurements of delays of gas-phase compounds in a wide variety of tubing materials due to gas-wall interactions. Atmospheric Measurement Techniques, 2019, 12, 3453-3461.	1.2	64
162	Measurement of peroxy-carboxylic nitric anhydrides (PANs) during the ITCT 2K2 aircraft intensive experiment. Journal of Geophysical Research, 2004, 109, .	3.3	63

#	ARTICLE	IF	CITATIONS
163	Budgets for nocturnal VOC oxidation by nitrate radicals aloft during the 2006 Texas Air Quality Study. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	63
164	Effects of temperature-dependent NO _x emissions on continental ozone production. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2601-2614.	1.9	62
165	Synthesis of the Southeast Atmosphere Studies: Investigating Fundamental Atmospheric Chemistry Questions. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 547-567.	1.7	62
166	Chemical characteristics assigned to trajectory clusters during the MINOS campaign. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 459-468.	1.9	61
167	Development and validation of a portable gas phase standard generation and calibration system for volatile organic compounds. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 683-691.	1.2	61
168	Online Volatile Organic Compound Measurements Using a Newly Developed Proton-Transfer Ion-Trap Mass Spectrometry Instrument during New England Air Quality Study/Intercontinental Transport and Chemical Transformation 2004: Performance, Intercomparison, and Compound Identification. <i>Environmental Science & Technology</i> , 2005, 39, 5390-5397.	4.6	60
169	Empirical correlations between black carbon aerosol and carbon monoxide in the lower and middle troposphere. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	60
170	Secondary organic aerosols from anthropogenic volatile organic compounds contribute substantially to air pollution mortality. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 11201-11224.	1.9	60
171	Emissions of organic carbon and methane from petroleum and dairy operations in California's San Joaquin Valley. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 4955-4978.	1.9	59
172	Speciation of OH reactivity above the canopy of an isoprene-dominated forest. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 9349-9359.	1.9	59
173	Overview of the trace gas measurements on board the Citation aircraft during the intensive field phase of INDOEX. <i>Journal of Geophysical Research</i> , 2001, 106, 28453-28467.	3.3	58
174	Senescing grass crops as regional sources of reactive volatile organic compounds. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	58
175	Aerosol and gas re-distribution by shallow cumulus clouds: An investigation using airborne measurements. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	58
176	Instrumentation and measurement strategy for the NOAA SENEX aircraft campaign as part of the Southeast Atmosphere Study 2013. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 3063-3093.	1.2	58
177	Airborne Measurements of Ethene from Industrial Sources Using Laser Photo-Acoustic Spectroscopy. <i>Environmental Science & Technology</i> , 2009, 43, 2437-2442.	4.6	57
178	Investigation of secondary formation of formic acid: urban environment vs. oil and gas producing region. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 1975-1993.	1.9	57
179	Formaldehyde over the eastern Mediterranean during MINOS: Comparison of airborne in-situ measurements with 3D-model results. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 851-861.	1.9	56
180	Airborne flux measurements of methane and volatile organic compounds over the Haynesville and Marcellus shale gas production regions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 6271-6289.	1.2	56

#	ARTICLE	IF	CITATIONS
181	Transition from high- to low-NO _x control of night-time oxidation in the southeastern US. <i>Nature Geoscience</i> , 2017, 10, 490-495.	5.4	56
182	Reassessing the ratio of glyoxal to formaldehyde as an indicator of hydrocarbon precursor speciation. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7571-7583.	1.9	55
183	Observational constraints on the global atmospheric budget of ethanol. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 5361-5370.	1.9	54
184	Evolution of aerosol properties impacting visibility and direct climate forcing in an ammonia-rich urban environment. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	54
185	The sea breeze/land breeze circulation in Los Angeles and its influence on nitryl chloride production in this region. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	54
186	Photochemical aging of volatile organic compounds in the Los Angeles basin: Weekday-weekend effect. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 5018-5028.	1.2	54
187	Testing Atmospheric Oxidation in an Alabama Forest. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 4699-4710.	0.6	54
188	An improved, automated whole air sampler and gas chromatography mass spectrometry analysis system for volatile organic compounds in the atmosphere. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 291-313.	1.2	54
189	No evidence for acid-catalyzed secondary organic aerosol formation in power plant plumes over metropolitan Atlanta, Georgia. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	53
190	On the gas-particle partitioning of soluble organic aerosol in two urban atmospheres with contrasting emissions: 1. Bulk water-soluble organic carbon. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	53
191	Emissions of volatile organic compounds (VOCs) from concentrated animal feeding operations (CAFOs): chemical compositions and separation of sources. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 4945-4956.	1.9	53
192	Satellite isoprene retrievals constrain emissions and atmospheric oxidation. <i>Nature</i> , 2020, 585, 225-233.	13.7	53
193	Methyl chavicol: characterization of its biogenic emission rate, abundance, and oxidation products in the atmosphere. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 2061-2074.	1.9	52
194	Biological cycling of volatile organic carbon by phytoplankton and bacterioplankton. <i>Limnology and Oceanography</i> , 2017, 62, 2650-2661.	1.6	52
195	Biogenic VOC oxidation and organic aerosol formation in an urban nocturnal boundary layer: aircraft vertical profiles in Houston, TX. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 11317-11337.	1.9	51
196	Fine-scale simulation of ammonium and nitrate over the South Coast Air Basin and San Joaquin Valley of California during CalNex-2010. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 3600-3614.	1.2	51
197	In situ vertical profiles of aerosol extinction, mass, and composition over the southeast United States during SENEX and SEAC<sup>4</sup</sup>RS: observations of a modest aerosol enhancement aloft. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7085-7102.	1.9	50
198	Enhanced formation of isoprene-derived organic aerosol in sulfur-rich power plant plumes during Southeast Nexus. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 11,137.	1.2	50

#	ARTICLE	IF	CITATIONS
199	Fine aerosol bulk composition measured on WP-3D research aircraft in vicinity of the Northeastern United States – results from NEAQS. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 3231-3247.	1.9	49
200	Measurements of PANs during the New England Air Quality Study 2002. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	49
201	Evaluation of the role of heterogeneous oxidation of alkenes in the detection of atmospheric acetaldehyde. <i>Atmospheric Environment</i> , 2004, 38, 6017-6028.	1.9	48
202	Sources of particulate matter in the northeastern United States in summer: 2. Evolution of chemical and microphysical properties. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	48
203	Lagrangian analysis of low altitude anthropogenic plume processing across the North Atlantic. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 7737-7754.	1.9	48
204	Gas and aerosol carbon in California: comparison of measurements and model predictions in Pasadena and Bakersfield. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 5243-5258.	1.9	48
205	Evaluation of NO ₃ ⁺ reagent ion chemistry for online measurements of atmospheric volatile organic compounds. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 2909-2925.	1.2	48
206	Observational constraints on glyoxal production from isoprene oxidation and its contribution to organic aerosol over the Southeast United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 9849-9861.	1.2	48
207	On the gas–particle partitioning of soluble organic aerosol in two urban atmospheres with contrasting emissions: 2. Gas and particle phase formic acid. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	47
208	Secondary organic aerosol (SOA) yields from NO ₃ radical + isoprene based on nighttime aircraft power plant plume transects. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 11663-11682.	1.9	47
209	Mass Spectral Analysis of Organic Aerosol Formed Downwind of the Deepwater Horizon Oil Spill: Field Studies and Laboratory Confirmations. <i>Environmental Science & Technology</i> , 2012, 46, 8025-8034.	4.6	45
210	Effects of gas–wall interactions on measurements of semivolatile compounds and small polar molecules. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 3137-3149.	1.2	45
211	The nitrogen budget of laboratory-simulated western US wildfires during the FIREX 2016 Fire Lab study. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 8807-8826.	1.9	45
212	Characterization of NO _x , SO ₂ , ethene, and propene from industrial emission sources in Houston, Texas. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	44
213	Emissions of C ₆ –C ₈ aromatic compounds in the United States: Constraints from tall tower and aircraft measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 826-842.	1.2	44
214	Observations of VOC emissions and photochemical products over US oil- and gas-producing regions using high-resolution H ₃ O ⁺ CIMS (PTR-ToF-MS). <i>Atmospheric Measurement Techniques</i> , 2017, 10, 2941-2968.	1.2	44
215	Chemistry of Volatile Organic Compounds in the Los Angeles Basin: Formation of Oxygenated Compounds and Determination of Emission Ratios. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 2298-2319.	1.2	43
216	Mixing between a stratospheric intrusion and a biomass burning plume. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 4229-4235.	1.9	42

#	ARTICLE	IF	CITATIONS
217	Interpretation of volatile organic compound measurements by proton-transfer-reaction mass spectrometry over the deepwater horizon oil spill. <i>International Journal of Mass Spectrometry</i> , 2014, 358, 43-48.	0.7	42
218	Societal shifts due to COVID-19 reveal large-scale complexities and feedbacks between atmospheric chemistry and climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	42
219	Emissions and photochemistry of oxygenated VOCs in urban plumes in the Northeastern United States. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 7081-7096.	1.9	41
220	Photochemical modeling of glyoxal at a rural site: observations and analysis from BEARPEX 2007. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 8883-8897.	1.9	41
221	Increasing atmospheric burden of ethanol in the United States. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	41
222	Biomass-burning-derived particles from a wide variety of fuels “ Part 2: Effects of photochemical aging on particle optical and chemical properties. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 8511-8532.	1.9	41
223	The role of benzene photolysis in Titan haze formation. <i>Icarus</i> , 2014, 233, 233-241.	1.1	40
224	Cluster Analysis of the Organic Peaks in Bulk Mass Spectra Obtained During the 2002 New England Air Quality Study with an Aerodyne Aerosol Mass Spectrometer. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 5649-5666.	1.9	39
225	Tropospheric methanol observations from space: retrieval evaluation and constraints on the seasonality of biogenic emissions. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 5897-5912.	1.9	39
226	Inter-comparison between airborne measurements of methanol, acetonitrile and acetone using two differently configured PTR-MS instruments. <i>International Journal of Mass Spectrometry</i> , 2004, 239, 129-137.	0.7	38
227	Observations of ozone transport from the free troposphere to the Los Angeles basin. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	38
228	Laboratory Studies on Secondary Organic Aerosol Formation from Crude Oil Vapors. <i>Environmental Science & Technology</i> , 2013, 47, 12566-12574.	4.6	38
229	Biosphere-atmosphere exchange of volatile organic compounds over C4 biofuel crops. <i>Atmospheric Environment</i> , 2013, 66, 161-168.	1.9	37
230	Isoprene suppression of new particle formation: Potential mechanisms and implications. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 14,621.	1.2	37
231	Chemistry of Volatile Organic Compounds in the Los Angeles basin: Nighttime Removal of Alkenes and Determination of Emission Ratios. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 11,843.	1.2	37
232	Laboratory investigations of Titan haze formation: In situ measurement of gas and particle composition. <i>Icarus</i> , 2018, 301, 136-151.	1.1	37
233	Budgets of Organic Carbon Composition and Oxidation in Indoor Air. <i>Environmental Science & Technology</i> , 2019, 53, 13053-13063.	4.6	37
234	Quantifying global terrestrial methanol emissions using observations from the TES satellite sensor. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 2555-2570.	1.9	36

#	ARTICLE	IF	CITATIONS
235	Southeast Atmosphere Studies: learning from model-observation syntheses. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2615-2651.	1.9	36
236	Automated single-ion peak fitting as an efficient approach for analyzing complex chromatographic data. <i>Journal of Chromatography A</i> , 2017, 1529, 81-92.	1.8	35
237	Analysis of the isoprene chemistry observed during the New England Air Quality Study (NEAQS) 2002 intensive experiment. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	34
238	Measurement of Aerosol Organic Compounds Using a Novel Collection/Thermal-Desorption PTR-ITMS Instrument. <i>Aerosol Science and Technology</i> , 2009, 43, 486-501.	1.5	34
239	Characteristics of black carbon aerosol from a surface oil burn during the Deepwater Horizon oil spill. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	34
240	WRF-Chem simulation of NO _x and O ₃ in the L.A. basin during CalNex-2010. <i>Atmospheric Environment</i> , 2013, 81, 421-432.	1.9	34
241	New insights into atmospheric sources and sinks of isocyanic acid, HNCO, from recent urban and regional observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 1060-1072.	1.2	34
242	Low temperatures enhance organic nitrate formation: evidence from observations in the 2012 Uintah Basin Winter Ozone Study. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 12441-12454.	1.9	34
243	Resonant Auger spectra of the 2p-1n _l states of argon. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1995, 28, 2127-2141.	0.6	33
244	Charge-transfer rate constants for N ₂ ⁺ (¹ / ₂ = 0) with Ar at thermal energies. <i>Chemical Physics Letters</i> , 1996, 256, 305-311.	1.2	33
245	Radicals in the marine boundary layer during NEAQS 2004: a model study of day-time and night-time sources and sinks. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 3075-3093.	1.9	33
246	Peroxynitric acid (HO ₂ NO ₂) measurements during the UBWOS 2013 and 2014 studies using iodide ion chemical ionization mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 8101-8114.	1.9	33
247	Photochemical aging of volatile organic compounds associated with oil and natural gas extraction in the Uintah Basin, UT, during a wintertime ozone formation event. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 5727-5741.	1.9	33
248	Impact of evolving isoprene mechanisms on simulated formaldehyde: An inter-comparison supported by in situ observations from SENEX. <i>Atmospheric Environment</i> , 2017, 164, 325-336.	1.9	33
249	Model analysis of trace gas measurements and pollution impact during INDOEX. <i>Journal of Geophysical Research</i> , 2001, 106, 28469-28480.	3.3	32
250	On the relationship between acetone and carbon monoxide in different air masses. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 1709-1723.	1.9	32
251	A study of organic nitrates formation in an urban plume using a Master Chemical Mechanism. <i>Atmospheric Environment</i> , 2008, 42, 5771-5786.	1.9	32
252	Continued emissions of carbon tetrachloride from the United States nearly two decades after its phaseout for dispersive uses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 2880-2885.	3.3	32

#	ARTICLE	IF	CITATIONS
253	Investigating diesel engines as an atmospheric source of isocyanic acid in urban areas. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 8959-8970.	1.9	32
254	On the sources and sinks of atmospheric VOCs: an integrated analysis of recent aircraft campaigns over North America. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 9097-9123.	1.9	32
255	Quantification and source characterization of volatile organic compounds from exercising and application of chlorine-based cleaning products in a university athletic center. <i>Indoor Air</i> , 2021, 31, 1323-1339.	2.0	32
256	Nitrogen Oxide Emissions from U.S. Oil and Gas Production: Recent Trends and Source Attribution. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085866.	1.5	31
257	An in situ gas chromatograph with automatic detector switching between PTR- and EI-TOF-MS: isomer-resolved measurements of indoor air. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 133-152.	1.2	31
258	Volatile organic compound emissions from switchgrass cultivars used as biofuel crops. <i>Atmospheric Environment</i> , 2011, 45, 3333-3337.	1.9	30
259	Chemistry-turbulence interactions and mesoscale variability influence the cleansing efficiency of the atmosphere. <i>Geophysical Research Letters</i> , 2015, 42, 10,894.	1.5	30
260	Ethene, propene, butene and isoprene emissions from a ponderosa pine forest measured by relaxed eddy accumulation. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 13417-13438.	1.9	30
261	PTR-QMS versus PTR-TOF comparison in a region with oil and natural gas extraction industry in the Uintah Basin in 2013. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 411-420.	1.2	29
262	Methyl chloride and other chlorocarbons in polluted air during INDOEX. <i>Journal of Geophysical Research</i> , 2002, 107, INX2 14-1.	3.3	28
263	Variation among different genotypes of hybrid poplar with regard to leaf volatile organic compound emissions. <i>Ecological Applications</i> , 2012, 22, 1865-1875.	1.8	28
264	Primary emissions of glyoxal and methylglyoxal from laboratory measurements of open biomass burning. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 15451-15470.	1.9	28
265	Measurements and modeling of absorptive partitioning of volatile organic compounds to painted surfaces. <i>Indoor Air</i> , 2020, 30, 745-756.	2.0	27
266	Measurements of hydrogen sulfide (H ₂ S) using PTR-MS: calibration, humidity dependence, inter-comparison and results from field studies in an oil and gas production region. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 3597-3610.	1.2	26
267	Nocturnal loss of NO _x during the 2010 CalNex- <i>LA</i> study in the Los Angeles Basin. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 13,004.	1.2	26
268	GLOVOCS - Master compound assignment guide for proton transfer reaction mass spectrometry users. <i>Atmospheric Environment</i> , 2021, 244, 117929.	1.9	26
269	Analysis of local-scale background concentrations of methane and other gas-phase species in the Marcellus Shale. <i>Elementa</i> , 2017, 5, .	1.1	25
270	Insights into the significant increase in ozone during COVID-19 in a typical urban city of China. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 4853-4866.	1.9	25

#	ARTICLE	IF	CITATIONS
271	Reactive nitrogen partitioning and its relationship to winter ozone events in Utah. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 573-583.	1.9	24
272	Mobilities of Aromatic Ions Drifting in Helium. <i>The Journal of Physical Chemistry</i> , 1996, 100, 14908-14913.	2.9	23
273	Two additional advantages of proton-transfer ion trap mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 133-134.	0.7	23
274	Quantifying Methane and Ozone Precursor Emissions from Oil and Gas Production Regions across the Contiguous US. <i>Environmental Science & Technology</i> , 2021, 55, 9129-9139.	4.6	23
275	Nitrous acid formation in a snow-free wintertime polluted rural area. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 1977-1996.	1.9	22
276	Intercomparison of OH and OH reactivity measurements in a high isoprene and low NO environment during the Southern Oxidant and Aerosol Study (SOAS). <i>Atmospheric Environment</i> , 2018, 174, 227-236.	1.9	22
277	Threshold effects in Auger spectra of photoionized argon. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1992, 25, 2007-2015.	0.6	21
278	Mobility and formation kinetics of $\text{NH}_4^+(\text{NH}_3)_n$ cluster ions ($n=0\text{--}3$) in helium and helium/ammonia mixtures. <i>Journal of Chemical Physics</i> , 1997, 106, 530-538.	1.2	21
279	Autoxidation of Limonene Emitted in a University Art Museum. <i>Environmental Science and Technology Letters</i> , 2019, 6, 520-524.	3.9	21
280	Estimation of Secondary Organic Aerosol Formation During a Photochemical Smog Episode in Shanghai, China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD032033.	1.2	21
281	Revisiting Acetonitrile as Tracer of Biomass Burning in Anthropogenic-Influenced Environments. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092322.	1.5	21
282	The mobilities of ions and cluster ions drifting in polar gases. <i>Journal of Chemical Physics</i> , 1997, 106, 5937-5942.	1.2	20
283	Analyses of firn gas samples from Dronning Maud Land, Antarctica: Study of nonmethane hydrocarbons and methyl chloride. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	20
284	Products and Secondary Organic Aerosol Yields from the OH and NO_3 Radical-Initiated Oxidation of Resorcinol. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1248-1259.	1.2	20
285	Cross sections and coherences for energy pooling reactions between two $\text{Na}^*(3p)$ atoms. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1992, 25, 2841-2861.	0.6	19
286	Coherence between the photoionization of different inner-shell vacancy states of argon. <i>Physical Review Letters</i> , 1993, 71, 2875-2878.	2.9	19
287	Development of a Fuel-Based Oil and Gas Inventory of Nitrogen Oxides Emissions. <i>Environmental Science & Technology</i> , 2018, 52, 10175-10185.	4.6	19
288	Assessment of Updated Fuel-Based Emissions Inventories Over the Contiguous United States Using TROPOMI NO_2 Retrievals. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035484.	1.2	18

#	ARTICLE	IF	CITATIONS
289	Vibrational energy dependence of the reaction $N_2^+(v) + H_2 \rightarrow N_2H^+ + H$ at thermal energies. <i>Chemical Physics Letters</i> , 1995, 240, 362-368.	1.2	17
290	The mobilities of $NO^+(CH_3CN)_n$ cluster ions ($n=0-3$) drifting in helium and in helium-acetonitrile mixtures. <i>Journal of Chemical Physics</i> , 1996, 105, 10398-10409.	1.2	17
291	Measured and calculated mobilities of cluster ions drifting in helium and in nitrogen. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997, 167-168, 281-289.	1.9	17
292	Regional variation of the dimethyl sulfide oxidation mechanism in the summertime marine boundary layer in the Gulf of Maine. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	17
293	Summertime tropospheric ozone enhancement associated with a cold front passage due to stratosphere-troposphere transport and biomass burning: Simultaneous ground-based lidar and airborne measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 1293-1311.	1.2	17
294	Airborne measurements of the atmospheric emissions from a fuel ethanol refinery. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 4385-4397.	1.2	16
295	Vibrational enhancement of the charge transfer rate constant of $N_2^+(v=0-4)$ with Kr at thermal energies. <i>Journal of Chemical Physics</i> , 1996, 105, 5455-5466.	1.2	15
296	Inorganic and black carbon aerosols in the Los Angeles Basin during CalNex. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 1777-1803.	1.2	15
297	Contrasting Reactive Organic Carbon Observations in the Southeast United States (SOAS) and Southern California (CalNex). <i>Environmental Science & Technology</i> , 2020, 54, 14923-14935.	4.6	15
298	Quantifying NO_x Emissions from U.S. Oil and Gas Production Regions Using TROPOMI NO_2 . <i>ACS Earth and Space Chemistry</i> , 2022, 6, 403-414.	1.2	15
299	Direct Measurement of the Rate Coefficient for the $CH_2C(CH_3)CO_2 + NO$ Reaction Using Chemical Ionization Mass Spectrometry. <i>Journal of Physical Chemistry A</i> , 1997, 101, 8662-8667.	1.1	14
300	Particulate organic nitrates observed in an oil and natural gas production region during wintertime. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 9313-9325.	1.9	14
301	Coupled Air Quality and Boundary-Layer Meteorology in Western U.S. Basins during Winter: Design and Rationale for a Comprehensive Study. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E2012-E2033.	1.7	14
302	Ozone production in remote oceanic and industrial areas derived from ship based measurements of peroxy radicals during TexAQS 2006. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 2471-2485.	1.9	13
303	Observation of coherence between the photoionization of different inner-shell vacancy states of argon and krypton. <i>Physical Review A</i> , 1994, 50, 4013-4024.	1.0	12
304	Threshold effects in the Auger decay of argon photoexcited below the $2p_{3/2}$ threshold. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1995, 28, 1761-1775.	0.6	12
305	Cloud droplets aid the production of formic acid in the atmosphere. <i>Nature</i> , 2021, 593, 198-199.	13.7	12
306	Drivers of cloud droplet number variability in the summertime in the southeastern United States. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 12163-12176.	1.9	12

#	ARTICLE	IF	CITATIONS
307	Measurements of Volatile Organic Compounds During the COVID-19 Lockdown in Changzhou, China. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095560.	1.5	12
308	Carbonyl sulfide as an inverse tracer for biogenic organic carbon in gas and aerosol phases. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	11
309	Modelled and measured concentrations of peroxy radicals and nitrate radical in the U.S. Gulf Coast region during TexAQS 2006. <i>Journal of Atmospheric Chemistry</i> , 2011, 68, 331-362.	1.4	11
310	Next-Generation Isoprene Measurements From Space: Detecting Daily Variability at High Resolution. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	11
311	Importance of biogenic volatile organic compounds to acyl peroxy nitrates (APN) production in the southeastern US during SOAS 2013. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 1867-1880.	1.9	10
312	Emission ratios of anthropogenic VOC in northern mid-latitude megacities: observations vs. emission inventories in Los Angeles and Paris.. <i>Journal of Geophysical Research</i> , 0, , .	3.3	10
313	Polarization dependence of energy pooling reactions between two Na* (3p) atoms. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1990, 23, L553-L557.	0.6	9
314	Hydrocarbon Removal in Power Plant Plumes Shows Nitrogen Oxide Dependence of Hydroxyl Radicals. <i>Geophysical Research Letters</i> , 2019, 46, 7752-7760.	1.5	9
315	Inter-comparison of Laser Photoacoustic Spectroscopy and Gas Chromatography Techniques for Measurements of Ethene in the Atmosphere. <i>Environmental Science & Technology</i> , 2005, 39, 4581-4585.	4.6	8
316	Simulating the Weekly Cycle of NO _x + VOC + HO _x + O ₃ Photochemical System in the South Coast of California During CalNex-2010 Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 3532-3555.	1.2	8
317	A portable and inexpensive method for quantifying ambient intermediate volatility organic compounds. <i>Atmospheric Environment</i> , 2014, 94, 126-133.	1.9	7
318	Sources of Gas-Phase Species in an Art Museum from Comprehensive Real-Time Measurements. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 2252-2267.	1.2	7
319	Correction for Roberts et al., Isocyanic acid in the atmosphere and its possible link to smoke-related health effects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 17234-17234.	3.3	6
320	Influence of Long-Range Transport of Siberian Biomass Burning at the Mt. Bachelor Observatory during the Spring of 2015. <i>Aerosol and Air Quality Research</i> , 2017, 17, 2751-2761.	0.9	6
321	Resonances in the photoionization of argon and krypton in the region of the inner-shell excited states. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1994, 27, 3915-3926.	0.6	5
322	Measurements of Total OH Reactivity During CalNex-LA. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD032988.	1.2	5
323	Teaching Instrumental Analysis during the Pandemic: Application of Handheld CO ₂ Monitors to Explore COVID-19 Transmission Risks. <i>Journal of Chemical Education</i> , 2022, 99, 1794-1801.	1.1	5
324	Seasonal cycles of nonmethane hydrocarbons and methyl chloride, as derived from firn air from Dronning Maud Land, Antarctica. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	4

#	ARTICLE	IF	CITATIONS
325	Impact of high-resolution a priori profiles on satellite-based formaldehyde retrievals. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 7639-7655.	1.9	2
326	Corrigendum to "In situ vertical profiles of aerosol extinction, mass, and composition over the southeast United States during SENEX and SEAC4RS: observations of a modest aerosol enhancement aloft" published in <i>Atmos. Chem. Phys.</i> , 15, 7085-7102, 2015. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 8455-8455.	1.9	1
327	Limited impact of sulfate-driven chemistry on black carbon aerosol aging in power plant plumes. <i>AIMS Environmental Science</i> , 2018, 5, 195-215.	0.7	1
328	Hydrogen chloride (HCl) at ground sites during CalNex 2010 and insight into its thermodynamic properties. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, 1-16.	1.2	1
329	It's a Gas in the Grass. <i>Science News</i> , 1999, 155, 403.	0.1	0
330	Improved time to publication in <i>Journal of Geophysical Research-Atmospheres</i> . <i>Eos</i> , 2012, 93, 253-253.	0.1	0
331	Editorial: Review Articles for "Journal of Geophysical Research" Atmospheres are Welcome. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, vi.	1.2	0
332	Coherence between the excitation of states with different energies. <i>European Physical Journal Special Topics</i> , 1993, 03, C6-207-C6-216.	0.2	0
333	In the Footsteps of My Countrymen: Atmospheric Chemistry in New England, Los Angeles, and the Southeast United States. <i>Perspectives of Earth and Space Scientists</i> , 2021, 2, .	0.2	0