

Frank F Flocke

List of Publications by Year in descending order

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142
papers

9,687
citations

31976

53
h-index

53230

85
g-index

166
all docs

166
docs citations

166
times ranked

5531
citing authors

#	ARTICLE	IF	CITATIONS
1	Emissions from biomass burning in the Yucatan. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 5785-5812.	4.9	433
2	Hydrogen Radicals, Nitrogen Radicals, and the Production of O ₃ in the Upper Troposphere. <i>Science</i> , 1998, 279, 49-53.	12.6	329
3	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.	4.9	278
4	Effect of petrochemical industrial emissions of reactive alkenes and NO _x on tropospheric ozone formation in Houston, Texas. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	263
5	A thermal dissociation-chemical ionization mass spectrometry (TD-CIMS) technique for the simultaneous measurement of peroxyacyl nitrates and dinitrogen pentoxide. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	259
6	Distribution and fate of selected oxygenated organic species in the troposphere and lower stratosphere over the Atlantic. <i>Journal of Geophysical Research</i> , 2000, 105, 3795-3805.	3.3	257
7	Chemistry and transport of pollution over the Gulf of Mexico and the Pacific: spring 2006 INTEX-B campaign overview and first results. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 2301-2318.	4.9	237
8	Effects of changing power plant NO _x emissions on ozone in the eastern United States: Proof of concept. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	226
9	Ozone production in transpacific Asian pollution plumes and implications for ozone air quality in California. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	197
10	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, .	3.3	181
11	Distributions of brominated organic compounds in the troposphere and lower stratosphere. <i>Journal of Geophysical Research</i> , 1999, 104, 21513-21535.	3.3	179
12	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
13	The Deep Convective Clouds and Chemistry (DC3) Field Campaign. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 1281-1309.	3.3	165
14	Observed OH and HO ₂ in the upper troposphere suggest a major source from convective injection of peroxides. <i>Geophysical Research Letters</i> , 1997, 24, 3181-3184.	4.0	160
15	On the origin of tropospheric ozone and NO _x over the tropical South Pacific. <i>Journal of Geophysical Research</i> , 1999, 104, 5829-5843.	3.3	140
16	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.	4.9	131
17	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.	4.9	128
18	Tropospheric hydroxyl and atomic chlorine concentrations, and mixing timescales determined from hydrocarbon and halocarbon measurements made over the Southern Ocean. <i>Journal of Geophysical Research</i> , 1999, 104, 21819-21828.	3.3	122

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19	A new interpretation of total column BrO during Arctic spring. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	116
20	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
21	Eddy covariance fluxes of peroxyacetyl nitrates (PANs) and NO _y to a coniferous forest. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	107
22	Comparison of MkIV balloon and ER-2 aircraft measurements of atmospheric trace gases. <i>Journal of Geophysical Research</i> , 1999, 104, 26779-26790.	3.3	106
23	High levels of molecular chlorine in the Arctic atmosphere. <i>Nature Geoscience</i> , 2014, 7, 91-94.	12.9	105
24	An investigation of the chemistry of ship emission plumes during ITCT 2002. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	103
25	Reactive nitrogen distribution and partitioning in the North American troposphere and lowermost stratosphere. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	102
26	First direct measurements of formaldehyde flux via eddy covariance: implications for missing in-canopy formaldehyde sources. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 10565-10578.	4.9	101
27	Quantification of organic aerosol and brown carbon evolution in fresh wildfire plumes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 29469-29477.	7.1	100
28	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.	4.9	99
29	Is the Arctic Surface Layer a Source and Sink of NO _x in Winter/Spring?. <i>Journal of Atmospheric Chemistry</i> , 2000, 36, 1-22.	3.2	94
30	Fast-response airborne in situ measurements of HNO ₃ during the Texas 2000 Air Quality Study. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 8-1.	3.3	94
31	Measurements of alkyl nitrates in rural and polluted air masses. <i>Atmospheric Environment Part A General Topics</i> , 1991, 25, 1951-1960.	1.3	89
32	Aircraft measurements of the latitudinal, vertical, and seasonal variations of NMHCs, methyl nitrate, methyl halides, and DMS during the First Aerosol Characterization Experiment (ACE 1). <i>Journal of Geophysical Research</i> , 1999, 104, 21803-21817.	3.3	88
33	Upper tropospheric ozone production from lightning NO _x impacted convection: Smoke ingestion case study from the DC3 campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 2505-2523.	3.3	88
34	Changes in the photochemical environment of the temperate North Pacific troposphere in response to increased Asian emissions. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	86
35	Measurements of bromine containing organic compounds at the tropical tropopause. <i>Geophysical Research Letters</i> , 1998, 25, 317-320.	4.0	84
36	Reactive nitrogen transport and photochemistry in urban plumes over the North Atlantic Ocean. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	83

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37	Coupled evolution of BrOx-ClOx-HOx-NOx chemistry during bromine-catalyzed ozone depletion events in the arctic boundary layer. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	82
38	Influence of lateral and top boundary conditions on regional air quality prediction: A multiscale study coupling regional and global chemical transport models. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	82
39	Latitudinal, vertical, and seasonal variations of C1-C4 alkyl nitrates in the troposphere over the Pacific Ocean during PEM-Tropics A and B: Oceanic and continental sources. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	80
40	Impacts of biomass burning in Southeast Asia on ozone and reactive nitrogen over the western Pacific in spring. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	80
41	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
42	Export of anthropogenic reactive nitrogen and sulfur compounds from the East Asia region in spring. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	78
43	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.	3.3	75
44	Synoptic-scale transport of reactive nitrogen over the western Pacific in spring. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	73
45	Testing fast photochemical theory during TRACE-P based on measurements of OH, HO ₂ , and CH ₂ O. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	71
46	Observations of inorganic bromine (HOBr, BrO, and Br ₂) speciation at Barrow, Alaska, in spring 2009. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	71
47	Nitrous acid (HONO) during polar spring in Barrow, Alaska: A net source of OH radicals?. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	69
48	Ground-based measurements of peroxyacetylic nitric anhydrides (PANs) during the 1999 Southern Oxidants Study Nashville Intensive. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 1-1-ACH 1-10.	3.3	68
49	On the Measurement of PANs by Gas Chromatography and Electron Capture Detection. <i>Journal of Atmospheric Chemistry</i> , 2005, 52, 19-43.	3.2	68
50	Long-term measurements of alkyl nitrates in southern Germany: 1. General behavior and seasonal and diurnal variation. <i>Journal of Geophysical Research</i> , 1998, 103, 5729-5746.	3.3	66
51	Seasonal variations of C ₂ -C ₄ nonmethane hydrocarbons and C ₁ -C ₄ alkyl nitrates at the Summit research station in Greenland. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	64
52	Characterization of a thermal decomposition chemical ionization mass spectrometer for the measurement of peroxy acyl nitrates (PANs) in the atmosphere. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 6529-6547.	4.9	64
53	Large-scale latitudinal and vertical distributions of NMHCs and selected halocarbons in the troposphere over the Pacific Ocean during the March-April 1999 Pacific Exploratory Mission (PEM-Tropics B). <i>Journal of Geophysical Research</i> , 2001, 106, 32627-32644.	3.3	63
54	Measurement of peroxyacetylic nitric anhydrides (PANs) during the ITCT 2K2 aircraft intensive experiment. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	63

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55	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
56	An examination of chemistry and transport processes in the tropical lower stratosphere using observations of long-lived and short-lived compounds obtained during STRAT and POLARIS. <i>Journal of Geophysical Research</i> , 1999, 104, 26625-26642.	3.3	62
57	Evaluation of HO ₂ sources and cycling using measurement-constrained model calculations in a 2-methyl-3-butene-2-ol (MBO) and monoterpene (MT) dominated ecosystem. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2031-2044.	4.9	62
58	Secondary organic aerosols from anthropogenic volatile organic compounds contribute substantially to air pollution mortality. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 11201-11224.	4.9	60
59	Ozone, aerosol, potential vorticity, and trace gas trends observed at high-latitudes over North America from February to May 2000. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	59
60	Influence of trans-Pacific pollution transport on acyl peroxy nitrate abundances and speciation at Mount Bachelor Observatory during INTEX-B. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 5309-5325.	4.9	58
61	Steady state free radical budgets and ozone photochemistry during TOPSE. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	57
62	Missing peroxy radical sources within a summertime ponderosa pine forest. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 4715-4732.	4.9	56
63	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.	3.3	56
64	Photochemistry in the arctic free troposphere: NO _x budget and the role of odd nitrogen reservoir recycling. <i>Atmospheric Environment</i> , 2003, 37, 3351-3364.	4.1	55
65	Emissions of Trace Organic Gases From Western U.S. Wildfires Based on WEA-CAN Aircraft Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033838.	3.3	54
66	Reactive nitrogen budget during the NASA SONEX Mission. <i>Geophysical Research Letters</i> , 1999, 26, 3057-3060.	4.0	53
67	Photochemical production and evolution of selected C ₂ -C ₅ alkyl nitrates in tropospheric air influenced by Asian outflow. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	53
68	Ozone dynamics and snow-atmosphere exchanges during ozone depletion events at Barrow, Alaska. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	52
69	Summary of measurement intercomparisons during TRACE-P. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	51
70	HONO Emissions from Western U.S. Wildfires Provide Dominant Radical Source in Fresh Wildfire Smoke. <i>Environmental Science & Technology</i> , 2020, 54, 5954-5963.	10.0	51
71	The seasonal evolution of NMHCs and light alkyl nitrates at middle to high northern latitudes during TOPSE. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	50
72	Springtime photochemistry at northern mid and high latitudes. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	49

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73	Long-term atmospheric measurements of C1–C5 alkyl nitrates in the Pearl River Delta region of southeast China. <i>Atmospheric Environment</i> , 2006, 40, 1619-1632.	4.1	49
74	Changes in ozone and precursors during two aged wildfire smoke events in the Colorado Front Range in summer 2015. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 10691-10707.	4.9	49
75	Evaluation of the role of heterogeneous oxidation of alkenes in the detection of atmospheric acetaldehyde. <i>Atmospheric Environment</i> , 2004, 38, 6017-6028.	4.1	48
76	Lagrangian analysis of low altitude anthropogenic plume processing across the North Atlantic. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 7737-7754.	4.9	48
77	Peroxy radical behavior during the Transport and Chemical Evolution over the Pacific (TRACE-P) campaign as measured aboard the NASA P-3B aircraft. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	44
78	Late-spring increase of trans-Pacific pollution transport in the upper troposphere. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	4.0	43
79	Tropospheric reactive odd nitrogen over the South Pacific in austral springtime. <i>Journal of Geophysical Research</i> , 2000, 105, 6681-6694.	3.3	42
80	Atmospheric Acetaldehyde: Importance of Air–Sea Exchange and a Missing Source in the Remote Troposphere. <i>Geophysical Research Letters</i> , 2019, 46, 5601-5613.	4.0	41
81	Emissions of Reactive Nitrogen From Western U.S. Wildfires During Summer 2018. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD032657.	3.3	41
82	Preparation of organic nitrates from alcohols and N ₂ O ₅ for species identification in atmospheric samples. <i>Journal of Atmospheric Chemistry</i> , 1993, 16, 349-359.	3.2	40
83	The effect of entrainment through atmospheric boundary layer growth on observed and modeled surface ozone in the Colorado Front Range. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 6075-6093.	3.3	39
84	A biomass burning source of C1-C4 alkyl nitrates. <i>Geophysical Research Letters</i> , 2002, 29, 21-1-21-4.	4.0	38
85	Assessing the regional impacts of Mexico City emissions on air quality and chemistry. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 3731-3743.	4.9	38
86	Fraction and composition of NO _y transported in air masses lofted from the North American continental boundary layer. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	37
87	Long-Term Measurements of Light Hydrocarbons (C ₂ –C ₅) at Schauinsland (Black Forest). <i>Journal of Atmospheric Chemistry</i> , 1997, 28, 135-171.	3.2	36
88	Observations of methyl nitrate in the lower stratosphere during STRAT: Implications for its gas phase production mechanisms. <i>Geophysical Research Letters</i> , 1998, 25, 1891-1894.	4.0	36
89	Relationship between photochemical ozone production and NO _x oxidation in Houston, Texas. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	36
90	Mercury Emission Ratios from Coal-Fired Power Plants in the Southeastern United States during NOMADSS. <i>Environmental Science & Technology</i> , 2015, 49, 10389-10397.	10.0	36

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91	Daytime Oxidized Reactive Nitrogen Partitioning in Western U.S. Wildfire Smoke Plumes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033484.	3.3	36
92	Observation and modeling of the evolution of Texas power plant plumes. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 455-468.	4.9	34
93	Using stable isotopes of hydrogen to quantify biogenic and thermogenic atmospheric methane sources: A case study from the Colorado Front Range. <i>Geophysical Research Letters</i> , 2016, 43, 11,462.	4.0	34
94	Nighttime and daytime dark oxidation chemistry in wildfire plumes: an observation and model analysis of FIREX-AQ aircraft data. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 16293-16317.	4.9	34
95	BrO and inferred Br and I profiles over the western Pacific: relevance of inorganic bromine sources and a minimum in the aged tropical tropopause layer. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 15245-15270.	4.9	33
96	Airborne Observations of Reactive Inorganic Chlorine and Bromine Species in the Exhaust of Coal-Fired Power Plants. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 11225-11237.	3.3	33
97	A study of organic nitrates formation in an urban plume using a Master Chemical Mechanism. <i>Atmospheric Environment</i> , 2008, 42, 5771-5786.	4.1	32
98	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.	4.9	32
99	Observations of APAN during TexAQS 2000. <i>Geophysical Research Letters</i> , 2001, 28, 4195-4198.	4.0	31
100	Variability and Time of Day Dependence of Ozone Photochemistry in Western Wildfire Plumes. <i>Environmental Science & Technology</i> , 2021, 55, 10280-10290.	10.0	31
101	Interactions of bromine, chlorine, and iodine photochemistry during ozone depletions in Barrow, Alaska. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 9651-9679.	4.9	29
102	Wet scavenging of soluble gases in DC3 deep convective storms using WRF-Chem simulations and aircraft observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 4233-4257.	3.3	29
103	Convective transport of formaldehyde to the upper troposphere and lower stratosphere and associated scavenging in thunderstorms over the central United States during the 2012 DC3 study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 7430-7460.	3.3	28
104	Air Quality in the Northern Colorado Front Range Metro Area: The Front Range Air Pollution and Photochemistry Experiment (FRAPP). <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031197.	3.3	28
105	Clouds and trace gas distributions during TRACE-P. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	27
106	Airborne quantification of upper tropospheric NO _x production from lightning in deep convective storms over the United States Great Plains. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 2002-2028.	3.3	25
107	Impacts of the Denver Cyclone on regional air quality and aerosol formation in the Colorado Front Range during FRAPP-2014. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 12039-12058.	4.9	24
108	The NO _x dependence of bromine chemistry in the Arctic atmospheric boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 10799-10809.	4.9	23

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109	Comparison between DC-8 and ER-2 species measurements in the tropical middle troposphere: NO, NO _y , O ₃ , CO ₂ , CH ₄ , and N ₂ O. <i>Journal of Geophysical Research</i> , 1998, 103, 22087-22096.	3.3	22
110	Intercontinental transport of pollution manifested in the variability and seasonal trend of springtime O ₃ at northern middle and high latitudes. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	22
111	Modeling ozone plumes observed downwind of New York City over the North Atlantic Ocean during the ICARTT field campaign. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 7375-7397.	4.9	22
112	Using Observations and Source-Specific Model Tracers to Characterize Pollutant Transport During FRAPP ₂₀₀₉ and DISCOVER ₂₀₀₉ . <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 10510-10538.	3.3	22
113	Evaluating the Impact of Chemical Complexity and Horizontal Resolution on Tropospheric Ozone Over the Conterminous US With a Global Variable Resolution Chemistry Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	3.8	20
114	Organic trace gases of oceanic origin observed at South Pole during ISCAT 2000. <i>Atmospheric Environment</i> , 2004, 38, 5463-5472.	4.1	19
115	Contribution of particulate nitrate to airborne measurements of total reactive nitrogen. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	18
116	Higher measured than modeled ozone production at increased NO _x levels in the Colorado Front Range. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 11273-11292.	4.9	18
117	Chemical Characteristics and Ozone Production in the Northern Colorado Front Range. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 13397-13419.	3.3	18
118	Observations and Modeling of NO _x Photochemistry and Fate in Fresh Wildfire Plumes. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 2652-2667.	2.7	17
119	Arctic springtime observations of volatile organic compounds during the OASIS ₂₀₀₉ campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 9789-9813.	3.3	16
120	Airborne measurements of BrO and the sum of HOBr and Br ₂ over the Tropical West Pacific from 1 to 15° km during the CONvective TRansport of Active Species in the Tropics (CONTRAST) experiment. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 12,560.	3.3	16
121	Chemical Tomography in a Fresh Wildland Fire Plume: A Large Eddy Simulation (LES) Study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035203.	3.3	16
122	Alkyl nitrate measurements during STERAO 1996 and NARE 1997: Intercomparison and survey of results. <i>Journal of Geophysical Research</i> , 2001, 106, 23043-23053.	3.3	15
123	Photochemistry in the Arctic Free Troposphere: Ozone Budget and Its Dependence on Nitrogen Oxides and the Production Rate of Free Radicals. <i>Journal of Atmospheric Chemistry</i> , 2004, 47, 107-138.	3.2	14
124	Observations of Acyl Peroxy Nitrates During the Front Range Air Pollution and Photochemistry Experiment (FRAPP ₂₀₀₉). <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 12,416.	3.3	14
125	Improving regional ozone modeling through systematic evaluation of errors using the aircraft observations during the International Consortium for Atmospheric Research on Transport and Transformation. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	13
126	Sources and characteristics of summertime organic aerosol in the Colorado Front Range: perspective from measurements and WRF-Chem modeling. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 8293-8312.	4.9	13

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127	Acyl Peroxy Nitrates Link Oil and Natural Gas Emissions to High Ozone Abundances in the Colorado Front Range During Summer 2015. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 2336-2350.	3.3	13
128	Aerosol optical extinction during the Front Range Air Pollution and Photochemistry Experiment (FRAPP) 2014 summertime field campaign, Colorado, USA. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 11207-11217.	4.9	12
129	Empirical Insights Into the Fate of Ammonia in Western U.S. Wildfire Smoke Plumes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033730.	3.3	12
130	Bromine atom production and chain propagation during springtime Arctic ozone depletion events in Barrow, Alaska. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 3401-3421.	4.9	11
131	Novel Analysis to Quantify Plume Crosswind Heterogeneity Applied to Biomass Burning Smoke. <i>Environmental Science & Technology</i> , 2021, 55, 15646-15657.	10.0	11
132	Impacts of physical parameterization on prediction of ethane concentrations for oil and gas emissions in WRF-Chem. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 16863-16883.	4.9	10
133	NO _y partitioning from measurements of nitrogen and hydrogen radicals in the upper troposphere. <i>Geophysical Research Letters</i> , 1999, 26, 51-54.	4.0	9
134	Using TES retrievals to investigate PAN in North American biomass burning plumes. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 5639-5653.	4.9	9
135	Evolution of Acyl Peroxynitrates (PANs) in Wildfire Smoke Plumes Detected by the Cross-track Infrared Sounder (CrIS) Over the Western U.S. During Summer 2018. <i>Geophysical Research Letters</i> , 2021, 48, .	4.0	9
136	Machine Learning Uncovers Aerosol Size Information From Chemistry and Meteorology to Quantify Potential Cloud-forming Particles. <i>Geophysical Research Letters</i> , 2021, 48, .	4.0	7
137	Spatially Resolved Photochemistry Impacts Emissions Estimates in Fresh Wildfire Plumes. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095443.	4.0	7
138	The CU Airborne Solar Occultation Flux Instrument: Performance Evaluation during BB-FLUX. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 582-596.	2.7	7
139	Measuring Photodissociation Product Quantum Yields Using Chemical Ionization Mass Spectrometry: A Case Study with Ketones. <i>Journal of Physical Chemistry A</i> , 2021, 125, 6836-6844.	2.5	6
140	The Role of Snow in Controlling Halogen Chemistry and Boundary Layer Oxidation During Arctic Spring: A 1D Modeling Case Study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	6
141	Wildfire-driven changes in the abundance of gas-phase pollutants in the city of Boise, ID during summer 2018. <i>Atmospheric Pollution Research</i> , 2022, 13, 101269.	3.8	5
142	Reply to "Comment on "Long-term atmospheric measurements of C1-C5 alkyl nitrates in the Pearl River Delta region of southeast China". <i>Atmospheric Environment</i> , 2007, 41, 7371-7372.	4.1	2