

Frank F Flocke

List of Publications by Citations

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152
papers

7,928
citations

53
h-index

84
g-index

166
ext. papers

8,828
ext. citations

6
avg, IF

4.78
L-index

#	Paper	IF	Citations
152	Emissions from biomass burning in the Yucatan. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 5785-5812	6.8	358
151	Hydrogen radicals, nitrogen radicals, and the production of O ₃ in the upper troposphere. <i>Science</i> , 1998 , 279, 49-53	33.3	300
150	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	6.8	234
149	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,		225
148	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		225
147	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,		224
146	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	6.8	206
145	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,		192
144	Ozone production in transpacific Asian pollution plumes and implications for ozone air quality in California. <i>Journal of Geophysical Research</i> , 2004 , 109,		170
143	Distributions of brominated organic compounds in the troposphere and lower stratosphere. <i>Journal of Geophysical Research</i> , 1999 , 104, 21513-21535		167
142	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
141	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,		148
140	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	4.9	143
139	The Deep Convective Clouds and Chemistry (DC3) Field Campaign. <i>Bulletin of the American Meteorological Society</i> , 2015 , 96, 1281-1309	6.1	140
138	On the origin of tropospheric ozone and NO _x over the tropical South Pacific. <i>Journal of Geophysical Research</i> , 1999 , 104, 5829-5843		123
137	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	6.8	114
136	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	6.8	112

135	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		110
134	A new interpretation of total column BrO during Arctic spring. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	102
133	Concentrations and sources of organic carbon aerosols in the free troposphere over North America. <i>Journal of Geophysical Research</i> , 2006 , 111,		97
132	Eddy covariance fluxes of peroxyacetyl nitrates (PANs) and NO _y to a coniferous forest. <i>Journal of Geophysical Research</i> , 2006 , 111,		94
131	Comparison of MkIV balloon and ER-2 aircraft measurements of atmospheric trace gases. <i>Journal of Geophysical Research</i> , 1999 , 104, 26779-26790		91
130	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
129	Reactive nitrogen distribution and partitioning in the North American troposphere and lowermost stratosphere. <i>Journal of Geophysical Research</i> , 2007 , 112,		89
128	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		89
127	Measurements of alkyl nitrates in rural and polluted air masses. <i>Atmospheric Environment Part A General Topics</i> , 1991 , 25, 1951-1960		86
126	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	6.8	85
125	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	82
124	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		80
123	High levels of molecular chlorine in the Arctic atmosphere. <i>Nature Geoscience</i> , 2014 , 7, 91-94	18.3	79
122	An investigation of the chemistry of ship emission plumes during ITCT 2002. <i>Journal of Geophysical Research</i> , 2005 , 110,		79
121	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,		74
120	Measurements of bromine containing organic compounds at the tropical tropopause. <i>Geophysical Research Letters</i> , 1998 , 25, 317-320	4.9	74
119	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,		73
118	Coupled evolution of BrO _x -ClO _x -HO _x -NO _x chemistry during bromine-catalyzed ozone depletion events in the arctic boundary layer. <i>Journal of Geophysical Research</i> , 2003 , 108,		72

117	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,	71
116	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,	71
115	Export of anthropogenic reactive nitrogen and sulfur compounds from the East Asia region in spring. <i>Journal of Geophysical Research</i> , 2003 , 108,	71
114	Reactive nitrogen transport and photochemistry in urban plumes over the North Atlantic Ocean. <i>Journal of Geophysical Research</i> , 2006 , 111,	70
113	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	68
112	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,	68
111	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
110	Synoptic-scale transport of reactive nitrogen over the western Pacific in spring. <i>Journal of Geophysical Research</i> , 2003 , 108,	63
109	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	60
108	Ground-based measurements of peroxy-carboxylic 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	59
107	Observations of inorganic bromine (HOBr, BrO, and Br ₂) speciation at Barrow, Alaska, in spring 2009. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a	58
106	Nitrous acid (HONO) during polar spring in Barrow, Alaska: A net source of OH radicals?. <i>Journal of Geophysical Research</i> , 2011 , 116,	58
105	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	58
104	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,	57
103	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	56
102	Measurement of peroxy-carboxylic nitric anhydrides (PANs) during the ITCT 2K2 aircraft intensive experiment. <i>Journal of Geophysical Research</i> , 2004 , 109,	54
101	On the Measurement of PANs by Gas Chromatography and Electron Capture Detection. <i>Journal of Atmospheric Chemistry</i> , 2005 , 52, 19-43	3.2 54
100	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	6.8 53

99	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,		52
98	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		50
97	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,		50
96	Reactive nitrogen budget during the NASA SONEX Mission. <i>Geophysical Research Letters</i> , 1999 , 26, 3057-3060		50
95	Evaluation of HO _x 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	6.8	49
94	Steady state free radical budgets and ozone photochemistry during TOPSE. <i>Journal of Geophysical Research</i> , 2003 , 108,		48
93	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	6.8	47
92	Photochemical production and evolution of selected C ₂₋₅ alkyl nitrates in tropospheric air influenced by Asian outflow. <i>Journal of Geophysical Research</i> , 2003 , 108,		47
91	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,		46
90	Summary of measurement intercomparisons during TRACE-P. <i>Journal of Geophysical Research</i> , 2003 , 108,		46
89	Missing peroxy radical sources within a summertime ponderosa pine forest. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 4715-4732	6.8	44
88	Ozone dynamics and snow-atmosphere exchanges during ozone depletion events at Barrow, Alaska. <i>Journal of Geophysical Research</i> , 2012 , 117,		42
87	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	5.3	42
86	Evaluation of the role of heterogeneous oxidation of alkenes in the detection of atmospheric acetaldehyde. <i>Atmospheric Environment</i> , 2004 , 38, 6017-6028	5.3	41
85	Lagrangian analysis of low altitude anthropogenic plume processing across the North Atlantic. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 7737-7754	6.8	40
84	Springtime photochemistry at northern mid and high latitudes. <i>Journal of Geophysical Research</i> , 2003 , 108,		40
83	Long-term atmospheric measurements of C ₁₋₅ alkyl nitrates in the Pearl River Delta region of southeast China. <i>Atmospheric Environment</i> , 2006 , 40, 1619-1632	5.3	39
82	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,		39

81	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	4.4	37
80	Tropospheric reactive odd nitrogen over the South Pacific in austral springtime. <i>Journal of Geophysical Research</i> , 2000 , 105, 6681-6694		36
79	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,		35
78	Assessing the regional impacts of Mexico City emissions on air quality and chemistry. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 3731-3743	6.8	33
77	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	6.8	32
76	Late-spring increase of trans-Pacific pollution transport in the upper troposphere. <i>Geophysical Research Letters</i> , 2006 , 33, n/a-n/a	4.9	32
75	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	4.9	32
74	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	11.5	31
73	A biomass burning source of C ₁ -C ₄ alkyl nitrates. <i>Geophysical Research Letters</i> , 2002 , 29, 21-1-21-4	4.9	31
72	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	31
71	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	30
70	Mercury Emission Ratios from Coal-Fired Power Plants in the Southeastern United States during NOMADSS. <i>Environmental Science & Technology</i> , 2015 , 49, 10389-97	10.3	29
69	Observation and modeling of the evolution of Texas power plant plumes. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 455-468	6.8	29
68	Relationship between photochemical ozone production and NO _x oxidation in Houston, Texas. <i>Journal of Geophysical Research</i> , 2009 , 114,		29
67	Atmospheric Acetaldehyde: Importance of Air-Sea Exchange and a Missing Source in the Remote Troposphere. <i>Geophysical Research Letters</i> , 2019 , 46, 5601-5613	4.9	28
66	HONO Emissions from Western U.S. Wildfires Provide Dominant Radical Source in Fresh Wildfire Smoke. <i>Environmental Science & Technology</i> , 2020 , 54, 5954-5963	10.3	26
65	Observations of APAN during TexAQ5 2000. <i>Geophysical Research Letters</i> , 2001 , 28, 4195-4198	4.9	26
64	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	4.4	24

63	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	4.4	24
62	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	4.4	24
61	Clouds and trace gas distributions during TRACE-P. <i>Journal of Geophysical Research</i> , 2003 , 108,		24
60	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	4.9	23
59	A study of organic nitrates formation in an urban plume using a Master Chemical Mechanism. <i>Atmospheric Environment</i> , 2008 , 42, 5771-5786	5.3	23
58	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	4.4	23
57	BrO and inferred Br_y profiles over the western Pacific: relevance of inorganic bromine sources and a Br_y minimum in the aged tropical tropopause layer. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 15245-15270	6.8	22
56	Interactions of bromine, chlorine, and iodine photochemistry during ozone depletions in Barrow, Alaska. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 9651-9679	6.8	22
55	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	4.4	21
54	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		20
53	Impacts of the Denver Cyclone on regional air quality and aerosol formation in the Colorado Front Range during FRAPP2014. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 12039-12058	6.8	19
52	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,		19
51	Using observations and source specific model tracers to characterize pollutant transport during FRAPP and DISCOVER-AQ. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 10510-10538	4.4	18
50	The NO_x dependence of bromine chemistry in the Arctic atmospheric boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 10799-10809	6.8	18
49	Daytime Oxidized Reactive Nitrogen Partitioning in Western U.S. Wildfire Smoke Plumes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD033484	4.4	18
48	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	6.8	17
47	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	6.8	17
46	Contribution of particulate nitrate to airborne measurements of total reactive nitrogen. <i>Journal of Geophysical Research</i> , 2005 , 110,		16

45	Organic trace gases of oceanic origin observed at South Pole during ISCAT 2000. <i>Atmospheric Environment</i> , 2004 , 38, 5463-5472	5.3	16
44	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, 12,560-12,578	4.4	15
43	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	6.8	15
42	Alkyl nitrate measurements during STERAO 1996 and NARE 1997: Intercomparison and survey of results. <i>Journal of Geophysical Research</i> , 2001 , 106, 23043-23053		15
41	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	4.4	14
40	Emissions of Reactive Nitrogen From Western U.S. Wildfires During Summer 2018. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD032657	4.4	14
39	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	13
38	Emissions of Trace Organic Gases From Western U.S. Wildfires Based on WE-CAN Aircraft Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD033838	4.4	13
37	Secondary organic aerosols from anthropogenic volatile organic compounds contribute substantially to air pollution mortality. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 11201-11224	6.8	12
36	Observations of Acyl Peroxy Nitrates During the Front Range Air Pollution and Photochemistry Experiment (FRAPP). <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 12,416-12,432	4.4	11
35	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,		11
34	Chemistry and transport of pollution over the Gulf of Mexico and the Pacific: Spring 2006 INTEX-B Campaign overview and first results		11
33	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	6.8	10
32	Arctic springtime observations of volatile organic compounds during the OASIS-2009 campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 9789-9813	4.4	10
31	Chemical Characteristics and Ozone Production in the Northern Colorado Front Range. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 13397-13419	4.4	9
30	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	6.8	9
29	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	6.8	9
28	Variability and Time of Day Dependence of Ozone Photochemistry in Western Wildfire Plumes. <i>Environmental Science & Technology</i> , 2021 , 55, 10280-10290	10.3	9

27	NO _y partitioning from measurements of nitrogen and hydrogen radicals in the upper troposphere. <i>Geophysical Research Letters</i> , 1999 , 26, 51-54	4.9	8
26	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	6.8	8
25	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	6.8	8
24	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	4.4	7
23	Using TES retrievals to investigate PAN in North American biomass burning plumes. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 5639-5653	6.8	5
22	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	4.4	5
21	Chemical evolution of volatile organic compounds in the outflow of the Mexico City Metropolitan area		4
20	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	4.4	4
19	The CU Airborne Solar Occultation Flux Instrument: Performance Evaluation during BB-FLUX. <i>ACS Earth and Space Chemistry</i> ,	3.2	3
18	Emissions from biomass burning in the Yucatan		3
17	The impact of aged wildfire smoke on atmospheric composition and ozone in the Colorado Front Range in summer 2015 2017 ,		2
16	Novel Analysis to Quantify Plume Crosswind Heterogeneity Applied to Biomass Burning Smoke. <i>Environmental Science & Technology</i> , 2021 , 55, 15646-15657	10.3	2
15	Impacts of the Denver Cyclone on Regional Air Quality and Aerosol Formation in the Colorado Front Range during FRAPP2014		2
14	First direct measurements of formaldehyde flux via eddy covariance: implications for missing in-canopy formaldehyde sources		2
13	The NO _x dependence of bromine chemistry in the Arctic atmospheric boundary layer		2
12	Observations of heterogeneous reactions between Asian pollution and mineral dust over the Eastern North Pacific during INTEX-B		2
11	Machine Learning Uncovers Aerosol Size Information From Chemistry and Meteorology to Quantify Potential Cloud-Forming Particles. <i>Geophysical Research Letters</i> , 2021 , 48,	4.9	1
10	Spatially Resolved Photochemistry Impacts Emissions Estimates in Fresh Wildfire Plumes. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL095443	4.9	1

9	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> ,	4.9	1
8	Interactions of bromine, chlorine, and iodine photochemistry during ozone depletions in Barrow, Alaska		1
7	Assessing the regional impacts of Mexico City emissions on air quality and chemistry		1
6	Global atmospheric budget of acetaldehyde: 3-D model analysis and constraints from in-situ and satellite observations		1
5	Missing peroxy radical sources within a rural forest canopy		1
4	Observations and Modeling of NO _x Photochemistry and Fate in Fresh Wildfire Plumes. <i>ACS Earth and Space Chemistry</i> ,	3.2	1
3	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	4.5	0
2	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	2.8	0
1	Reply to Comment on Long-term atmospheric measurements of C ₁₋₅ alkyl nitrates in the Pearl River Delta region of southeast China. <i>Atmospheric Environment</i> , 2007 , 41, 7371-7372	5.3	