

Jeff Peischl

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6855295/publications.pdf>

Version: 2024-02-01

149
papers

10,045
citations

28274

55
h-index

45317

90
g-index

241
all docs

241
docs citations

241
times ranked

8085
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of methane emissions from the U.S. oil and gas supply chain. <i>Science</i> , 2018, 361, 186-188.	12.6	519
2	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, .	4.0	388
3	Why do models overestimate surface ozone in the Southeast United States?. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 13561-13577.	4.9	320
4	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, .	4.0	289
5	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.	4.9	259
6	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.	7.1	258
7	Organic aerosol formation in urban and industrial plumes near Houston and Dallas, Texas. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	230
8	A large and ubiquitous source of atmospheric formic acid. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 6283-6304.	4.9	197
9	Airborne measurements of western U.S. wildfire emissions: Comparison with prescribed burning and air quality implications. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 6108-6129.	3.3	184
10	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
11	Methane emissions from the 2015 Aliso Canyon blowout in Los Angeles, CA. <i>Science</i> , 2016, 351, 1317-1320.	12.6	183
12	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.	3.3	167
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	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.	3.3	164
15	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.	4.9	154
16	Primary and secondary sources of formaldehyde in urban atmospheres: Houston Texas region. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 3273-3288.	4.9	153
17	Top-down estimate of surface flux in the Los Angeles Basin using a mesoscale inverse modeling technique: assessing anthropogenic emissions of CO, NO _x , and CO ₂ and their impacts. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 3661-3677.	4.9	142
18	Formaldehyde production from isoprene oxidation across regimes. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 2597-2610.	4.9	124

#	ARTICLE	IF	CITATIONS
19	Global airborne sampling reveals a previously unobserved dimethyl sulfide oxidation mechanism in the marine atmosphere. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 4505-4510.	7.1	118
20	Impact of Fuel Quality Regulation and Speed Reductions on Shipping Emissions: Implications for Climate and Air Quality. Environmental Science & Technology, 2011, 45, 9052-9060.	10.0	115
21	Atmospheric emissions from the Deepwater Horizon spill constrain air-water partitioning, hydrocarbon fate, and leak rate. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	107
22	Observations of hydroxyl and the sum of peroxy radicals at Summit, Greenland during summer 2003. Atmospheric Environment, 2007, 41, 5122-5137.	4.1	105
23	Volatile chemical product emissions enhance ozone and modulate urban chemistry. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	103
24	Bromine measurements in ozone depleted air over the Arctic Ocean. Atmospheric Chemistry and Physics, 2010, 10, 6503-6514.	4.9	101
25	Diurnal tracking of anthropogenic CO ₂ emissions in the Los Angeles basin megacity during spring 2010. Atmospheric Chemistry and Physics, 2013, 13, 4359-4372.	4.9	100
26	Ozone photochemistry in an oil and natural gas extraction region during winter: simulations of a snow-free season in the Uintah Basin, Utah. Atmospheric Chemistry and Physics, 2013, 13, 8955-8971.	4.9	100
27	Quantifying atmospheric methane emissions from oil and natural gas production in the Bakken shale region of North Dakota. Journal of Geophysical Research D: Atmospheres, 2016, 121, 6101-6111.	3.3	99
28	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. Atmospheric Chemistry and Physics, 2014, 14, 10977-10988.	4.9	98
29	Airborne and ground-based observations of a weekend effect in ozone, precursors, and oxidation products in the California South Coast Air Basin. Journal of Geophysical Research, 2012, 117, .	3.3	97
30	Airborne measurements of organosulfates over the continental U.S.. Journal of Geophysical Research D: Atmospheres, 2015, 120, 2990-3005.	3.3	96
31	The global impacts of COVID-19 lockdowns on urban air pollution. Elementa, 2021, 9, .	3.2	94
32	Agricultural fires in the southeastern U.S. during SEAC ⁴ RS: Emissions of trace gases and particles and evolution of ozone, reactive nitrogen, and organic aerosol. Journal of Geophysical Research D: Atmospheres, 2016, 121, 7383-7414.	3.3	93
33	Airborne observations of ammonia and ammonium nitrate formation over Houston, Texas. Journal of Geophysical Research, 2010, 115, .	3.3	91
34	Chlorine as a primary radical: evaluation of methods to understand its role in initiation of oxidative cycles. Atmospheric Chemistry and Physics, 2014, 14, 3427-3440.	4.9	90
35	Biogenic emission measurement and inventories determination of biogenic emissions in the eastern United States and Texas and comparison with biogenic emission inventories. Journal of Geophysical Research, 2010, 115, .	3.3	89
36	Upper tropospheric ozone production from lightning NO _x -impacted convection: Smoke ingestion case study from the DC3 campaign. Journal of Geophysical Research D: Atmospheres, 2015, 120, 2505-2523.	3.3	88

#	ARTICLE	IF	CITATIONS
37	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.	3.3	86
38	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.	4.9	85
39	Fugitive emissions from the Bakken shale illustrate role of shale production in global ethane shift. <i>Geophysical Research Letters</i> , 2016, 43, 4617-4623.	4.0	81
40	Air quality implications of the Deepwater Horizon oil spill. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20280-20285.	7.1	79
41	Emissions of nitrogen-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.	4.0	79
42	Evaluation of the airborne quantum cascade laser spectrometer (QCLS) measurements of the carbon and greenhouse gas suite "CO ₂ , CH ₄ , N ₂ O, and CO" during the CalNex and HIPPO campaigns. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 1509-1526.	3.1	75
43	Methane, Black Carbon, and Ethane Emissions from Natural Gas Flares in the Bakken Shale, North Dakota. <i>Environmental Science & Technology</i> , 2017, 51, 5317-5325.	10.0	74
44	Quantifying Methane and Ethane Emissions to the Atmosphere From Central and Western U.S. Oil and Natural Gas Production Regions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 7725-7740.	3.3	74
45	Diurnal Variability and Emission Pattern of Decamethylcyclopentasiloxane (D ₅) from the Application of Personal Care Products in Two North American Cities. <i>Environmental Science & Technology</i> , 2018, 52, 5610-5618.	10.0	72
46	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. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	69
47	Aircraft observations of enhancement and depletion of black carbon mass in the springtime Arctic. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 9667-9680.	4.9	68
48	Nighttime Chemical Transformation in Biomass Burning Plumes: A Box Model Analysis Initialized with Aircraft Observations. <i>Environmental Science & Technology</i> , 2019, 53, 2529-2538.	10.0	68
49	Modeling Ozone in the Eastern U.S. using a Fuel-Based Mobile Source Emissions Inventory. <i>Environmental Science & Technology</i> , 2018, 52, 7360-7370.	10.0	64
50	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
51	On-road measurements of vehicle NO ₂ /NO _x emission ratios in Denver, Colorado, USA. <i>Atmospheric Environment</i> , 2017, 148, 182-189.	4.1	63
52	Thunderstorms enhance tropospheric ozone by wrapping and shedding stratospheric air. <i>Geophysical Research Letters</i> , 2014, 41, 7785-7790.	4.0	62
53	The POLARCAT Model Intercomparison Project (POLMIP): overview and evaluation with observations. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 6721-6744.	4.9	62
54	A top-down analysis of emissions from selected Texas power plants during TexAQs 2000 and 2006. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	60

#	ARTICLE	IF	CITATIONS
55	Identifying Volatile Chemical Product Tracer Compounds in U.S. Cities. <i>Environmental Science & Technology</i> , 2021, 55, 188-199.	10.0	60
56	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
57	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.	4.9	59
58	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.	3.1	58
59	Mapping hydroxyl variability throughout the global remote troposphere via synthesis of airborne and satellite formaldehyde observations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11171-11180.	7.1	58
60	Observations Confirm that Volatile Chemical Products Are a Major Source of Petrochemical Emissions in U.S. Cities. <i>Environmental Science & Technology</i> , 2021, 55, 4332-4343.	10.0	57
61	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
62	Lightning NO _x Emissions: Reconciling Measured and Modeled Estimates With Updated NO _x Chemistry. <i>Geophysical Research Letters</i> , 2017, 44, 9479-9488.	4.0	56
63	Transition from high- to low-NO _x control of night-time oxidation in the southeastern US. <i>Nature Geoscience</i> , 2017, 10, 490-495.	12.9	56
64	Reassessing the ratio of glyoxal to formaldehyde as an indicator of hydrocarbon precursor speciation. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7571-7583.	4.9	55
65	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.	3.1	54
66	Quantifying sources and sinks of reactive gases in the lower atmosphere using airborne flux observations. <i>Geophysical Research Letters</i> , 2015, 42, 8231-8240.	4.0	53
67	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.	4.9	53
68	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.	4.9	51
69	Large contribution of biomass burning emissions to ozone throughout the global remote troposphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	51
70	Airborne observations of methane emissions from rice cultivation in the Sacramento Valley of California. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	50
71	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.	4.9	50
72	Black Carbon Emissions from the Bakken Oil and Gas Development Region. <i>Environmental Science and Technology Letters</i> , 2015, 2, 281-285.	8.7	49

#	ARTICLE	IF	CITATIONS
73	Characterization of Ammonia, Methane, and Nitrous Oxide Emissions from Concentrated Animal Feeding Operations in Northeastern Colorado. <i>Environmental Science & Technology</i> , 2016, 50, 10885-10893.	10.0	48
74	HONO emission and production determined from airborne measurements over the Southeast U.S.. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 9237-9250.	3.3	46
75	Ozone chemistry in western U.S. wildfire plumes. <i>Science Advances</i> , 2021, 7, eabl3648.	10.3	45
76	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
77	A new inversion method to calculate emission inventories without a prior at mesoscale: Application to the anthropogenic CO ₂ emission from Houston, Texas. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	44
78	Observations of VOC emissions and photochemical products over US oil- and gas-producing regions using high-resolution H ₂ O ₃ and O ₃ + CIMS (PTR-ToF-MS). <i>Atmospheric Measurement Techniques</i> , 2017, 10, 2941-2968.	3.1	44
79	Mixing between a stratospheric intrusion and a biomass burning plume. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 4229-4235.	4.9	42
80	Increasing atmospheric burden of ethanol in the United States. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	41
81	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
82	The NASA Atmospheric Tomography (ATom) Mission: Imaging the Chemistry of the Global Atmosphere. <i>Bulletin of the American Meteorological Society</i> , 2022, 103, E761-E790.	3.3	39
83	Top-down estimate of methane emissions in California using a mesoscale inverse modeling technique: The South Coast Air Basin. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 6698-6711.	3.3	38
84	Emissions of Glyoxal and Other Carbonyl Compounds from Agricultural Biomass Burning Plumes Sampled by Aircraft. <i>Environmental Science & Technology</i> , 2017, 51, 11761-11770.	10.0	38
85	Relationship between photochemical ozone production and NO _x oxidation in Houston, Texas. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	36
86	Constraining remote oxidation capacity with ATom observations. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 7753-7781.	4.9	36
87	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.	4.0	34
88	Observation and modeling of the evolution of Texas power plant plumes. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 455-468.	4.9	34
89	Observed NO/NO ₂ Ratios in the Upper Troposphere Imply Errors in NO ₂ →O ₃ Cycling Kinetics or an Unaccounted NO _x Reservoir. <i>Geophysical Research Letters</i> , 2018, 45, 4466-4474.	4.0	34
90	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

#	ARTICLE	IF	CITATIONS
91	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.	4.1	33
92	Methyl, Ethyl, and Propyl Nitrates: Global Distribution and Impacts on Reactive Nitrogen in Remote Marine Environments. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 12,429.	3.3	33
93	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
94	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
95	Global-scale distribution of ozone in the remote troposphere from the ATom and HIPPO airborne field missions. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 10611-10635.	4.9	31
96	Decadal changes in summertime reactive oxidized nitrogen and surface ozone over the Southeast United States. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2341-2361.	4.9	30
97	Radiative and chemical implications of the size and composition of aerosol particles in the existing or modified global stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 8915-8932.	4.9	29
98	Convective transport of formaldehyde to the upper troposphere and lower stratosphere and associated scavenging in thunderstorms over the central United States during the 2012â€œDC3 study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 7430-7460.	3.3	28
99	Injection of lightningâ€œproduced NO _x , water vapor, wildfire emissions, and stratospheric air to the UT/LS as observed from DC3 measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 6638-6668.	3.3	28
100	Rapid cloud removal of dimethyl sulfide oxidation products limits SO ₂ and cloud condensation nuclei production in the marine atmosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	28
101	Biomass burning nitrogen dioxide emissions derived from space with TROPOMI: methodology and validation. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 7929-7957.	3.1	27
102	Topâ€œdown estimate of methane emissions in California using a mesoscale inverse modeling technique: The San Joaquin Valley. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 3686-3699.	3.3	26
103	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
104	Analysis of local-scale background concentrations of methane and other gas-phase species in the Marcellus Shale. <i>Elementa</i> , 2017, 5, .	3.2	25
105	Missing OH reactivity in the global marine boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 4013-4029.	4.9	25
106	Convective transport and scavenging of peroxides by thunderstorms observed over the central U.S. during DC3. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 4272-4295.	3.3	24
107	Volatile organic compound emissions from solvent- and water-borne coatings â€œ compositional differences and tracer compound identifications. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 6005-6022.	4.9	24
108	Formaldehyde evolution in US wildfire plumes during the Fire Influence on Regional to Global Environments and Air Quality experiment (FIREX-AQ). <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 18319-18331.	4.9	24

#	ARTICLE	IF	CITATIONS
109	Observational Constraints on the Oxidation of NO _x in the Upper Troposphere. <i>Journal of Physical Chemistry A</i> , 2016, 120, 1468-1478.	2.5	23
110	Exploring Oxidation in the Remote Free Troposphere: Insights From Atmospheric Tomography (ATom). <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031685.	3.3	23
111	Variability of Ammonia and Methane Emissions from Animal Feeding Operations in Northeastern Colorado. <i>Environmental Science & Technology</i> , 2020, 54, 11015-11024.	10.0	23
112	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.	10.0	23
113	Extreme oxidant amounts produced by lightning in storm clouds. <i>Science</i> , 2021, 372, 711-715.	12.6	22
114	CO ₂ Transport, Variability, and Budget over the Southern California Air Basin Using the High-Resolution WRF-VPRM Model during the CalNex 2010 Campaign. <i>Journal of Applied Meteorology and Climatology</i> , 2018, 57, 1337-1352.	1.5	21
115	Characteristics and evolution of brown carbon in western United States wildfires. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 8009-8036.	4.9	21
116	Effects of NO _x control and plume mixing on nighttime chemical processing of plumes from coal-fired power plants. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	20
117	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
118	Development of a Fuel-Based Oil and Gas Inventory of Nitrogen Oxides Emissions. <i>Environmental Science & Technology</i> , 2018, 52, 10175-10185.	10.0	19
119	Open-Path Dual-Comb Spectroscopy for Multispecies Trace Gas Detection in the 4.5–5.5 μm Spectral Region. <i>Laser and Photonics Reviews</i> , 2021, 15, 2000583.	8.7	19
120	Monitoring Methane Emissions from Oil and Gas Operations. , 2022, 1, .		19
121	Atmospheric oxidation in the presence of clouds during the Deep Convective Clouds and Chemistry (DC3) study. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 14493-14510.	4.9	18
122	Inversion Estimates of Lognormally Distributed Methane Emission Rates From the Haynesville-Bossier Oil and Gas Production Region Using Airborne Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 3520-3531.	3.3	18
123	Single-photon laser-induced fluorescence detection of nitric oxide at sub-parts-per-trillion mixing ratios. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 2425-2439.	3.1	18
124	Heating rates and surface dimming due to black carbon aerosol absorption associated with a major U.S. city. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	17
125	Global Atmospheric Budget of Acetone: Air-Sea Exchange and the Contribution to Hydroxyl Radicals. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032553.	3.3	17
126	Ozone and alkyl nitrate formation from the Deepwater Horizon oil spill atmospheric emissions. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	16

#	ARTICLE	IF	CITATIONS
127	Airborne measurements of the atmospheric emissions from a fuel ethanol refinery. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 4385-4397.	3.3	16
128	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
129	Characterizing sources of high surface ozone events in the southwestern US with intensive field measurements and two global models. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 10379-10400.	4.9	15
130	Ambient aerosol properties in the remote atmosphere from global-scale in situ measurements. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 15023-15063.	4.9	15
131	Airborne Emission Rate Measurements Validate Remote Sensing Observations and Emission Inventories of Western U.S. Wildfires. <i>Environmental Science & Technology</i> , 2022, 56, 7564-7577.	10.0	15
132	New particle formation and sub-10-nm size distribution measurements during the A-LIFE field experiment in Paphos, Cyprus. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 5645-5656.	4.9	12
133	Errors in top-down estimates of emissions using a known source. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 11855-11868.	4.9	11
134	Novel Analysis to Quantify Plume Crosswind Heterogeneity Applied to Biomass Burning Smoke. <i>Environmental Science & Technology</i> , 2021, 55, 15646-15657.	10.0	11
135	UAS Chromatograph for Atmospheric Trace Species (UCATS) – a versatile instrument for trace gas measurements on airborne platforms. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 6795-6819.	3.1	9
136	Photochemical evolution of the 2013 California Rim Fire: synergistic impacts of reactive hydrocarbons and enhanced oxidants. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 4253-4275.	4.9	9
137	Methane emissions from oil and gas production on the North Slope of Alaska. <i>Atmospheric Environment</i> , 2019, 218, 116985.	4.1	8
138	Large hemispheric difference in nucleation mode aerosol concentrations in the lowermost stratosphere at mid- and high latitudes. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 9065-9088.	4.9	8
139	Investigating large methane enhancements in the U.S. San Juan Basin. <i>Elementa</i> , 2020, 8, .	3.2	8
140	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
141	The <i>FAST</i>-Las Vegas Ozone Study (<i>FAST</i>-LVOS). <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 1707-1737.	4.9	7
142	An aerosol particle containing enriched uranium encountered in the remote upper troposphere. <i>Journal of Environmental Radioactivity</i> , 2018, 184-185, 95-100.	1.7	6
143	A cavity-enhanced ultraviolet absorption instrument for high-precision, fast-time-response ozone measurements. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 6877-6887.	3.1	6
144	Vertical Transport, Entrainment, and Scavenging Processes Affecting Trace Gases in a Modeled and Observed SEAC 4 RS Case Study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031957.	3.3	5

#	ARTICLE	IF	CITATIONS
145	Impact of stratospheric air and surface emissions on tropospheric nitrous oxide during ATom. Atmospheric Chemistry and Physics, 2021, 21, 11113-11132.	4.9	5
146	Monitoring methane emissions from oil and gas operations<sup>â€‹i>/sup>. Optics Express, 2022, 30, 24326.	3.4	5
147	Heterogeneity and chemical reactivity of the remote troposphere defined by aircraft measurements. Atmospheric Chemistry and Physics, 2021, 21, 13729-13746.	4.9	4
148	Corrigendum to "In situ vertical profiles of aerosol extinction, mass, and composition over the southeast United States during SENEX and SEAC<sup>4</sup><sup>RS</sup>: observations of a modest aerosol enhancement aloft" published in Atmos. Chem. Phys., 15, 7085â€‹7102, 2015. Atmospheric Chemistry and Physics, 2015, 15, 8455-8455.	4.9	1
149	Measuring the Methane Leaks to the Air from Three Large Natural Gas Production Regions. Frontiers for Young Minds, 2016, 4, .	0.8	0