Jeff Peischl

List of Publications by Year
in descending order

176	10,843	23219	40098
papers	citations	57 h-index	92 g-index

308	308	308	9237
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Measurement of the mixing state, mass, and optical size of individual black carbon particles in urban and biomass burning emissions. Geophysical Research Letters, 2008, 35, .	3.9	399
2	Why do models overestimate surface ozone in the Southeast United States?. Atmospheric Chemistry and Physics, 2016, 16, 13561-13577.	4.9	334
3	Biomass burning in Siberia and Kazakhstan as an important source for haze over the Alaskan Arctic in April 2008. Geophysical Research Letters, 2009, 36, .	3.9	292
4	Chemical data quantify Deepwater Horizon hydrocarbon flow rate and environmental distribution. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20246-20253.	7.5	263
5	Characteristics, sources, and transport of aerosols measured in spring 2008 during the aerosol, radiation, and cloud processes affecting Arctic Climate (ARCPAC) Project. Atmospheric Chemistry and Physics, 2011, 11, 2423-2453.	4.9	262
6	Organic aerosol formation in urban and industrial plumes near Houston and Dallas, Texas. Journal of Geophysical Research, 2009, 114, .	3.2	238
7	A large and ubiquitous source of atmospheric formic acid. Atmospheric Chemistry and Physics, 2015, 15, 6283-6304.	4.9	211
8	Airborne measurements of western U.S. wildfire emissions: Comparison with prescribed burning and air quality implications. Journal of Geophysical Research D: Atmospheres, 2017, 122, 6108-6129.	3.3	196
9	Multiyear trends in volatile organic compounds in Los Angeles, California: Five decades of decreasing emissions. Journal of Geophysical Research, 2012, 117, .	3.2	192
10	Quantifying sources of methane using light alkanes in the Los Angeles basin, California. Journal of Geophysical Research D: Atmospheres, 2013, 118, 4974-4990.	3.3	170
11	Quantifying atmospheric methane emissions from the Haynesville, Fayetteville, and northeastern Marcellus shale gas production regions. Journal of Geophysical Research D: Atmospheres, 2015, 120, 2119-2139.	3.3	170
12	Primary and secondary sources of formaldehyde in urban atmospheres: Houston Texas region. Atmospheric Chemistry and Physics, 2012, 12, 3273-3288.	4.9	160
13	Understanding high wintertime ozone pollution events in an oil- and natural gas-producing region of the western US. Atmospheric Chemistry and Physics, 2015, 15, 411-429.	4.9	155
14	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 CO₂ and their impacts. Atmospheric Chemistry and Physics, 2013, 13, 3661-3677.	4.9	143
15	Formaldehyde production from isoprene oxidation acrossÂNO_{<i>x</i>}Âregimes. Atmospheric Chemistry and Physics, 2016, 16, 2597-2610.	4.9	138
16	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.	7.5	136
17	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, .	7.5	132
18	Impact of Fuel Quality Regulation and Speed Reductions on Shipping Emissions: Implications for Climate and Air Quality. Environmental Science & Technology, 2011, 45, 9052-9060.	10.3	117

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19	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.	3.9	107
20	Observations of hydroxyl and the sum of peroxy radicals at Summit, Greenland during summer 2003. Atmospheric Environment, 2007, 41, 5122-5137.	4.2	106
21	The global impacts of COVID-19 lockdowns on urban air pollution. Elementa, 2021, 9, .	3.2	105
22	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	102
23	Bromine measurements in ozone depleted air over the Arctic Ocean. Atmospheric Chemistry and Physics, 2010, 10, 6503-6514.	4.9	101
24	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	101
25	Airborne and groundâ€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, .	3.2	100
26	Diurnal tracking of anthropogenic CO₂ emissions in the Los Angeles basin megacity during spring 2010. Atmospheric Chemistry and Physics, 2013, 13, 4359-4372.	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	100
28	Airborne measurements of organosulfates over the continental U.S.. Journal of Geophysical Research D: Atmospheres, 2015, 120, 2990-3005.	3.3	98
29	Agricultural fires in the southeastern U.S. during SEAC⁴RS: 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	98
30	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	95
31	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, .	3.2	94
32	Airborne observations of ammonia and ammonium nitrate formation over Houston, Texas. Journal of Geophysical Research, 2010, 115, .	3.2	93
33	Upper tropospheric ozone production from lightning NO_xâ€impacted convection: Smoke ingestion case study from the DC3 campaign. Journal of Geophysical Research D: Atmospheres, 2015, 120, 2505-2523.	3.3	92
34	Influence of oil and gas emissions on summertime ozone in the Colorado Northern Front Range. Journal of Geophysical Research D: Atmospheres, 2016, 121, 8712-8729.	3.3	91
35	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. Atmospheric Chemistry and Physics, 2011, 11, 11361-11386.	4.9	87
36	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. Geophysical Research Letters, 2016, 43, 9903-9912.	3.9	85

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37	Fugitive emissions from the Bakken shale illustrate role of shale production in global ethane shift. Geophysical Research Letters, 2016, 43, 4617-4623.	3.9	83
38	Diurnal Variability and Emission Pattern of Decamethylcyclopentasiloxane (D₅) from the Application of Personal Care Products in Two North American Cities. Environmental Science & Technology, 2018, 52, 5610-5618.	10.3	83
39	Observations Confirm that Volatile Chemical Products Are a Major Source of Petrochemical Emissions in U.S. Cities. Environmental Science & Technology, 2021, 55, 4332-4343.	10.3	83
40	Methane, Black Carbon, and Ethane Emissions from Natural Gas Flares in the Bakken Shale, North Dakota. Environmental Science & Technology, 2017, 51, 5317-5325.	10.3	81
41	Air quality implications of theDeepwater Horizonoil spill. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20280-20285.	7.5	79
42	Nighttime Chemical Transformation in Biomass Burning Plumes: A Box Model Analysis Initialized with Aircraft Observations. Environmental Science & Technology, 2019, 53, 2529-2538.	10.3	78
43	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.	3.3	77
44	Identifying Volatile Chemical Product Tracer Compounds in U.S. Cities. Environmental Science & Technology, 2021, 55, 188-199.	10.3	77
45	Evaluation of the airborne quantum cascade laser spectrometer (QCLS) measurements of the carbon and greenhouse gas suite â€“ CO₂, CH₄, N₂O, and CO â€“ during the CalNex and HIPPO campaigns. Atmospheric Measurement Techniques, 2014, 7, 1509-1526.	3.1	76
46	An evaluation of realâ€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, .	3.2	72
47	Aircraft observations of enhancement and depletion of black carbon mass in the springtime Arctic. Atmospheric Chemistry and Physics, 2010, 10, 9667-9680.	4.9	68
48	Modeling Ozone in the Eastern U.S. using a Fuel-Based Mobile Source Emissions Inventory. Environmental Science & Technology, 2018, 52, 7360-7370.	10.3	68
49	Secondary organic aerosols from anthropogenic volatile organic compounds contribute substantially to air pollution mortality. Atmospheric Chemistry and Physics, 2021, 21, 11201-11224.	4.9	67
50	Budgets for nocturnal VOC oxidation by nitrate radicals aloft during the 2006 Texas Air Quality Study. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.2	66
51	Thunderstorms enhance tropospheric ozone by wrapping and shedding stratospheric air. Geophysical Research Letters, 2014, 41, 7785-7790.	3.9	65
52	On-road measurements of vehicle NO 2 /NO x emission ratios in Denver, Colorado, USA. Atmospheric Environment, 2017, 148, 182-189.	4.2	65
53	The POLARCAT Model Intercomparison Project (POLMIP): overview and evaluation with observations. Atmospheric Chemistry and Physics, 2015, 15, 6721-6744.	4.9	64
54	Mapping hydroxyl variability throughout the global remote troposphere via synthesis of airborne and satellite formaldehyde observations. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 11171-11180.	7.5	64

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55	Airborne flux measurements of methane and volatile organic compounds over the Haynesville and Marcellus shale gas production regions. Journal of Geophysical Research D: Atmospheres, 2015, 120, 6271-6289.	3.3	63
56	A topâ€€down analysis of emissions from selected Texas power plants during TexAQS 2000 and 2006. Journal of Geophysical Research, 2010, 115, .	3.2	62
57	Transition from high- to low-NOx control of night-time oxidation in the southeastern US. Nature Geoscience, 2017, 10, 490-495.	11.7	62
58	Instrumentation and measurement strategy for the NOAA SENEX aircraft campaign as part of the Southeast Atmosphere Study 2013. Atmospheric Measurement Techniques, 2016, 9, 3063-3093.	3.1	60
59	Lightning NO_x Emissions: Reconciling Measured and Modeled Estimates With Updated NO_x Chemistry. Geophysical Research Letters, 2017, 44, 9479-9488.	3.9	60
60	Emissions of organic carbon and methane from petroleum and dairy operations in California's San Joaquin Valley. Atmospheric Chemistry and Physics, 2014, 14, 4955-4978.	4.9	59
61	Large contribution of biomass burning emissions to ozone throughout the global remote troposphere. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.5	58
62	An improved, automated whole air sampler and gas chromatography mass spectrometry analysis system for volatile organic compounds in the atmosphere. Atmospheric Measurement Techniques, 2017, 10, 291-313.	3.1	57
63	Ozone chemistry in western U.S. wildfire plumes. Science Advances, 2021, 7, eabl3648.	10.8	57
64	Reassessing the ratio of glyoxal to formaldehyde as an indicator of hydrocarbon precursor speciation. Atmospheric Chemistry and Physics, 2015, 15, 7571-7583.	4.9	56
65	Quantifying sources and sinks of reactive gases in the lower atmosphere using airborne flux observations. Geophysical Research Letters, 2015, 42, 8231-8240.	3.9	54
66	Emissions of volatile organic compounds (VOCs) from concentrated animal feeding operations (CAFOs): chemical compositions and separation of sources. Atmospheric Chemistry and Physics, 2017, 17, 4945-4956.	4.9	54
67	Biogenic VOC oxidation and organic aerosol formation in an urban nocturnal boundary layer: aircraft vertical profiles in Houston, TX. Atmospheric Chemistry and Physics, 2013, 13, 11317-11337.	4.9	53
68	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. Atmospheric Chemistry and Physics, 2015, 15, 7085-7102.	4.9	52
69	Black Carbon Emissions from the Bakken Oil and Gas Development Region. Environmental Science and Technology Letters, 2015, 2, 281-285.	8.7	51
70	Characterization of Ammonia, Methane, and Nitrous Oxide Emissions from Concentrated Animal Feeding Operations in Northeastern Colorado. Environmental Science & Technology, 2016, 50, 10885-10893.	10.3	51
71	Airborne observations of methane emissions from rice cultivation in the Sacramento Valley of California. Journal of Geophysical Research, 2012, 117, .	3.2	50
72	HONO emission and production determined from airborne measurements over the Southeast U.S.. Journal of Geophysical Research D: Atmospheres, 2016, 121, 9237-9250.	3.3	49

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73	Characterization of NO_x, SO₂, ethene, and propene from industrial emission sources in Houston, Texas. Journal of Geophysical Research, 2010, 115, .	3.2	45
74	A new inversion method to calculate emission inventories without a prior at mesoscale: Application to the anthropogenic CO₂ emission from Houston, Texas. Journal of Geophysical Research, 2012, 117, .	3.2	44
75	Emissions of Glyoxal and Other Carbonyl Compounds from Agricultural Biomass Burning Plumes Sampled by Aircraft. Environmental Science & Technology, 2017, 51, 11761-11770.	10.3	44
76	Observations of VOC emissions and photochemical products over US oil- and gas-producing regions using high-resolution H₃O⁺ CIMS (PTR-ToF-MS). Atmospheric Measurement Techniques, 2017, 10, 2941-2968.	3.1	44
77	Mixing between a stratospheric intrusion and a biomass burning plume. Atmospheric Chemistry and Physics, 2007, 7, 4229-4235.	4.9	42
78	Increasing atmospheric burden of ethanol in the United States. Geophysical Research Letters, 2012, 39, .	3.9	42
79	Atmospheric Acetaldehyde: Importance of Airâ€Sea Exchange and a Missing Source in the Remote Troposphere. Geophysical Research Letters, 2019, 46, 5601-5613.	3.9	42
80	Topâ€down estimate of methane emissions in California using a mesoscale inverse modeling technique: The South Coast Air Basin. Journal of Geophysical Research D: Atmospheres, 2015, 120, 6698-6711.	3.3	41
81	Nighttime and daytime dark oxidation chemistry in wildfire plumes: an observation and model analysis of FIREX-AQ aircraft data. Atmospheric Chemistry and Physics, 2021, 21, 16293-16317.	4.9	40
82	Variability and Time of Day Dependence of Ozone Photochemistry in Western Wildfire Plumes. Environmental Science & Technology, 2021, 55, 10280-10290.	10.3	39
83	Constraining remote oxidation capacity with ATom observations. Atmospheric Chemistry and Physics, 2020, 20, 7753-7781.	4.9	39
84	Relationship between photochemical ozone production and NO_x oxidation in Houston, Texas. Journal of Geophysical Research, 2009, 114, .	3.2	38
85	Observed NO/NO₂ Ratios in the Upper Troposphere Imply Errors in NOâ€NO₂â€O₃ Cycling Kinetics or an Unaccounted NO_x Reservoir. Geophysical Research Letters, 2018, 45, 4466-4474.	3.9	38
86	Impact of evolving isoprene mechanisms on simulated formaldehyde: An inter-comparison supported by in situ observations from SENEX. Atmospheric Environment, 2017, 164, 325-336.	4.2	35
87	Characteristics of black carbon aerosol from a surface oil burn during the Deepwater Horizon oil spill. Geophysical Research Letters, 2011, 38, n/a-n/a.	3.9	34
88	Observation and modeling of the evolution of Texas power plant plumes. Atmospheric Chemistry and Physics, 2012, 12, 455-468.	4.9	34
89	Rapid cloud removal of dimethyl sulfide oxidation products limits SO ₂ and cloud condensation nuclei production in the marine atmosphere. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.5	34
90	Methyl, Ethyl, and Propyl Nitrates: Global Distribution and Impacts on Reactive Nitrogen in Remote Marine Environments. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,429.	3.3	33

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91	On the sources and sinks of atmospheric VOCs: an integrated analysis of recent aircraft campaigns over North America. Atmospheric Chemistry and Physics, 2019, 19, 9097-9123.	4.9	33
92	Decadal changes in summertime reactive oxidized nitrogen and surface ozone over the Southeast United States. Atmospheric Chemistry and Physics, 2018, 18, 2341-2361.	4.9	32
93	Radiative and chemical implications of the size and composition of aerosol particles in the existing or modified global stratosphere. Atmospheric Chemistry and Physics, 2021, 21, 8915-8932.	4.9	32
94	Global-scale distribution of ozone in the remote troposphere from the ATom and HIPPO airborne field missions. Atmospheric Chemistry and Physics, 2020, 20, 10611-10635.	4.9	32
95	Biomass burning nitrogen dioxide emissions derived from space with TROPOMI: methodology and validation. Atmospheric Measurement Techniques, 2021, 14, 7929-7957.	3.1	32
96	Convective transport of formaldehyde to the upper troposphere and lower stratosphere and associated scavenging in thunderstorms over the central United States during the 2012â€‰DC3 study. Journal of Geophysical Research D: Atmospheres, 2016, 121, 7430-7460.	3.3	30
97	Extreme oxidant amounts produced by lightning in storm clouds. Science, 2021, 372, 711-715.	19.8	30
98	Injection of lightningâ€produced NO_x, water vapor, wildfire emissions, and stratospheric air to the UT/LS as observed from DC3 measurements. Journal of Geophysical Research D: Atmospheres, 2016, 121, 6638-6668.	3.3	29
99	Volatile organic compound emissions from solvent- and water-borne coatings â€“ compositional differences and tracer compound identifications. Atmospheric Chemistry and Physics, 2021, 21, 6005-6022.	4.9	29
100	Formaldehyde evolution in US wildfire plumes during the Fire Influence on Regional to Global Environments and Air Quality experiment (FIREX-AQ). Atmospheric Chemistry and Physics, 2021, 21, 18319-18331.	4.9	29
101	Evaluating the Impact of Chemical Complexity and Horizontal Resolution on Tropospheric Ozone Over the Conterminous US With a Global Variable Resolution Chemistry Model. Journal of Advances in Modeling Earth Systems, 2022, 14, .	3.7	29
102	Airborne quantification of upper tropospheric NO_x production from lightning in deep convective storms over the United States Great Plains. Journal of Geophysical Research D: Atmospheres, 2016, 121, 2002-2028.	3.3	28
103	Missing OH reactivity in the global marine boundary layer. Atmospheric Chemistry and Physics, 2020, 20, 4013-4029.	4.9	28
104	Topâ€down estimate of methane emissions in California using a mesoscale inverse modeling technique: The San Joaquin Valley. Journal of Geophysical Research D: Atmospheres, 2017, 122, 3686-3699.	3.3	27
105	Characteristics and evolution of brown carbon in western United States wildfires. Atmospheric Chemistry and Physics, 2022, 22, 8009-8036.	4.9	27
106	Analysis of local-scale background concentrations of methane and other gas-phase species in the Marcellus Shale. Elementa, 2017, 5, .	3.2	26
107	Nitrogen oxides in the free troposphere: implications for tropospheric oxidants and the interpretation of satellite NO₂ measurements. Atmospheric Chemistry and Physics, 2023, 23, 1227-1257.	4.9	26
108	Exploring Oxidation in the Remote Free Troposphere: Insights From Atmospheric Tomography (ATom). Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031685.	3.3	25

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109	Variability of Ammonia and Methane Emissions from Animal Feeding Operations in Northeastern Colorado. Environmental Science & Technology, 2020, 54, 11015-11024.	10.3	25
110	Quantifying Methane and Ozone Precursor Emissions from Oil and Gas Production Regions across the Contiguous US. Environmental Science & Technology, 2021, 55, 9129-9139.	10.3	25
111	Convective transport and scavenging of peroxides by thunderstorms observed over the central U.S. during DC3. Journal of Geophysical Research D: Atmospheres, 2016, 121, 4272-4295.	3.3	24
112	Observational Constraints on the Oxidation of NO_x in the Upper Troposphere. Journal of Physical Chemistry A, 2016, 120, 1468-1478.	2.6	24
113	Openâ€Path Dualâ€Comb Spectroscopy for Multispecies Trace Gas Detection in the 4.5â€“5ÂÂµm Spectral Region. Laser and Photonics Reviews, 2021, 15, 2000583.	10.0	23
114	Influence of Wildfire on Urban Ozone: An Observationally Constrained Box Modeling Study at a Site in the Colorado Front Range. Environmental Science & Technology, 2023, 57, 1257-1267.	10.3	23
115	Development of a Fuel-Based Oil and Gas Inventory of Nitrogen Oxides Emissions. Environmental Science & Technology, 2018, 52, 10175-10185.	10.3	21
116	Effects of NO_xcontrol and plume mixing on nighttime chemical processing of plumes from coalâ€fired power plants. Journal of Geophysical Research, 2012, 117, .	3.2	20
117	Inversion Estimates of Lognormally Distributed Methane Emission Rates From the Haynesvilleâ€Bossier Oil and Gas Production Region Using Airborne Measurements. Journal of Geophysical Research D: Atmospheres, 2019, 124, 3520-3531.	3.3	20
118	Global Atmospheric Budget of Acetone: Airâ€Sea Exchange and the Contribution to Hydroxyl Radicals. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032553.	3.3	20
119	Single-photon laser-induced fluorescence detection of nitric oxide at sub-parts-per-trillion mixing ratios. Atmospheric Measurement Techniques, 2020, 13, 2425-2439.	3.1	20
120	Monitoring Methane Emissions from Oil and Gas Operations. , 2022, 1, .		20
121	Atmospheric oxidation in the presence of clouds during the Deep Convective Clouds and Chemistry (DC3) study. Atmospheric Chemistry and Physics, 2018, 18, 14493-14510.	4.9	19
122	Effects of Fire Diurnal Variation and Plume Rise on U.S. Air Quality During FIREXâ€AQ and WEâ€CAN Based on the Multiâ€Scale Infrastructure for Chemistry and Aerosols (MUSICAv0). Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	19
123	Comparison of airborne measurements of NO, NO₂, HONO, NO_y, and CO during FIREX-AQ. Atmospheric Measurement Techniques, 2022, 15, 4901-4930.	3.1	19
124	Heating rates and surface dimming due to black carbon aerosol absorption associated with a major U.S. city. Geophysical Research Letters, 2009, 36, .	3.9	17
125	Ozone and alkyl nitrate formation from the Deepwater Horizon oil spill atmospheric emissions. Journal of Geophysical Research, 2012, 117, .	3.2	17
126	Chemical Tomography in a Fresh Wildland Fire Plume: A Large Eddy Simulation (LES) Study. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035203.	3.3	17

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127	Ambient aerosol properties in the remote atmosphere from global-scale in situ measurements. Atmospheric Chemistry and Physics, 2021, 21, 15023-15063.	4.9	17
128	Airborne Emission Rate Measurements Validate Remote Sensing Observations and Emission Inventories of Western U.S. Wildfires. Environmental Science & Technology, 2022, 56, 7564-7577.	10.3	17
129	Airborne measurements of the atmospheric emissions from a fuel ethanol refinery. Journal of Geophysical Research D: Atmospheres, 2015, 120, 4385-4397.	3.3	16
130	Characterizing sources of high surface ozone events in the southwestern US with intensive field measurements and two global models. Atmospheric Chemistry and Physics, 2020, 20, 10379-10400.	4.9	16
131	Novel Analysis to Quantify Plume Crosswind Heterogeneity Applied to Biomass Burning Smoke. Environmental Science & Technology, 2021, 55, 15646-15657.	10.3	16
132	New particle formation and sub-10â€‰nm size distribution measurements during the A-LIFE field experiment in Paphos, Cyprus. Atmospheric Chemistry and Physics, 2020, 20, 5645-5656.	4.9	13
133	Errors in top-down estimates of emissions using a known source. Atmospheric Chemistry and Physics, 2020, 20, 11855-11868.	4.9	12
134	Emission factors and evolution of SO₂ measured from biomass burning in wildfires and agricultural fires. Atmospheric Chemistry and Physics, 2022, 22, 15603-15620.	4.9	12
135	Photochemical evolution of the 2013 California Rim Fire: synergistic impacts of reactive hydrocarbons and enhanced oxidants. Atmospheric Chemistry and Physics, 2022, 22, 4253-4275.	4.9	11
136	Large hemispheric difference in nucleation mode aerosol concentrations in the lowermost stratosphere at mid- and high latitudes. Atmospheric Chemistry and Physics, 2021, 21, 9065-9088.	4.9	10
137	UAS Chromatograph for Atmospheric Trace Species (UCATS) â€“ a versatile instrument for trace gas measurements on airborne platforms. Atmospheric Measurement Techniques, 2021, 14, 6795-6819.	3.1	10
138	The <i>Fires, Asian, and Stratospheric Transport</i>â€“Las Vegas Ozone Study (<i>FAST</i>-LVOS). Atmospheric Chemistry and Physics, 2022, 22, 1707-1737.	4.9	10
139	Pyrocumulonimbus affect average stratospheric aerosol composition. Science, 2023, 379, 815-820.	19.8	10
140	Methane emissions from oil and gas production on the North Slope of Alaska. Atmospheric Environment, 2019, 218, 116985.	4.2	9
141	Machine Learning Uncovers Aerosol Size Information From Chemistry and Meteorology to Quantify Potential Cloudâ€Forming Particles. Geophysical Research Letters, 2021, 48, .	3.9	9
142	Investigating large methane enhancements in the U.S. San Juan Basin. Elementa, 2020, 8, .	3.2	8
143	A cavity-enhanced ultraviolet absorption instrument for high-precision, fast-time-response ozone measurements. Atmospheric Measurement Techniques, 2020, 13, 6877-6887.	3.1	8
144	Arctic tropospheric ozone: assessment of current knowledge and model performance. Atmospheric Chemistry and Physics, 2023, 23, 637-661.	4.9	8

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145	An aerosol particle containing enriched uranium encountered in the remote upper troposphere. Journal of Environmental Radioactivity, 2018, 184-185, 95-100.	1.8	6
146	Impact of stratospheric air and surface emissions on tropospheric nitrous oxide during ATom. Atmospheric Chemistry and Physics, 2021, 21, 11113-11132.	4.9	6
147	Composition and reactivity of volatile organic compounds in the South Coast Air Basin and San Joaquin Valley of California. Atmospheric Chemistry and Physics, 2022, 22, 10937-10954.	4.9	6
148	Fuel-Type Independent Parameterization of Volatile Organic Compound Emissions from Western US Wildfires. Environmental Science & Technology, 2023, 57, 13193-13204.	10.3	6
149	Vertical Transport, Entrainment, and Scavenging Processes Affecting Trace Gases in a Modeled and Observed SEAC 4 RS Case Study. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031957.	3.3	5
150	Monitoring methane emissions from oil and gas operations^{â€¡}. Optics Express, 2022, 30, 24326.	3.3	5
151	An improved representation of fire non-methane organic gases (NMOGs) in models: emissions to reactivity. Atmospheric Chemistry and Physics, 2022, 22, 12093-12111.	4.9	5
152	Aerosol size distribution changes in FIREX-AQ biomass burning plumes: the impact of plume concentration on coagulation and OA condensation/evaporation. Atmospheric Chemistry and Physics, 2022, 22, 12803-12825.	4.9	5
153	An observation-based, reduced-form model for oxidation in the remote marine troposphere. Proceedings of the National Academy of Sciences of the United States of America, 2023, 120, .	7.5	5
154	Heterogeneity and chemical reactivity of the remote troposphere defined by aircraft measurements. Atmospheric Chemistry and Physics, 2021, 21, 13729-13746.	4.9	4
155	Using Multiscale Ethane/Methane Observations to Attribute Coal Mine Vent Emissions in the San Juan Basin From 2013 to 2021. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	4
156	Furoyl peroxynitrate (fur-PAN), a product of VOCâ€“NO_xphotochemistry from biomass burning emissions: photochemical synthesis, calibration, chemical characterization, and first atmospheric observations. Environmental Science Atmospheres, 2022, 2, 1087-1100.	2.1	3
157	Evaluation of the NAQFC driven by the NOAA Global Forecast System (version 16): comparison with the WRF-CMAQ during the summer 2019 FIREX-AQ campaign. Geoscientific Model Development, 2022, 15, 7977-7999.	3.7	3
158	Heterogeneity and chemical reactivity of the remote troposphere defined by aircraft measurements â€“ corrected. Atmospheric Chemistry and Physics, 2023, 23, 99-117.	4.9	3
159	Parameterizations of US wildfire and prescribed fire emission ratios and emission factors based on FIREX-AQ aircraft measurements. Atmospheric Chemistry and Physics, 2024, 24, 929-956.	4.9	3
160	Reply to Yang etÂal.: Biomass burning is an important tropospheric source of ozone in remote regions of the globe. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.5	2
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