# Jeff Peischl

List of Publications by Year
in descending order



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|---|---|---|---|
| 176 papers | 10,843 citations | 23219 57 h-index | 40098 92 g-index |
| 308 all docs | 308 docs citations | 308 times ranked | 9237 citing authors |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 1 | 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 |
| 2 | Airborne Observations Constrain Heterogeneous Nitrogen and Halogen Chemistry on Tropospheric and Stratospheric Biomass Burning Aerosol. Geophysical Research Letters, 2024, 51, . | 3.9 | 1 |
| 3 | Observations of cyanogen bromide (BrCN) in the global troposphere and their relation to polar surface O<sub>3</sub> destruction. Atmospheric Chemistry and Physics, 2024, 24, 3421-3443. | 4.9 | 0 |
| 4 | Contribution of cooking emissions to the urban volatile organic compounds in Las Vegas, NV. Atmospheric Chemistry and Physics, 2024, 24, 4289-4304. | 4.9 | 1 |
| 5 | A better representation of volatile organic compound chemistry in WRF-Chem and its impact on ozone over Los Angeles. Atmospheric Chemistry and Physics, 2024, 24, 5265-5286. | 4.9 | 1 |
| 6 | A Case Study Featuring the Time Evolution of a Fireâ€Induced Plume Jet Over the Rum Creek Fire: Mechanisms, Processes, and Dynamical Interplay. Journal of Geophysical Research D: Atmospheres, 2024, 129, . | 3.3 | 0 |
| 7 | OzoneÂFormation Sensitivity to Precursors and Lightning in the Tropical Troposphere Based on Airborne Observations. Journal of Geophysical Research D: Atmospheres, 2024, 129, . | 3.3 | 0 |
| 8 | An air quality and boundary layer dynamics analysis of the Los Angeles basin area during the Southwest Urban NO<sub><i>x</i></sub> and VOCs Experiment (SUNVEx). Atmospheric Chemistry and Physics, 2024, 24, 9277-9307. | 4.9 | 0 |
| 9 | Impact of Heatwaves and Declining NO<sub>x</sub> on Nocturnal Monoterpene Oxidation in the Urban Southeastern United States. Journal of Geophysical Research D: Atmospheres, 2024, 129, . | 3.3 | 0 |
| 10 | Tropical tropospheric ozone distribution and trends from in situ and satellite data. Atmospheric Chemistry and Physics, 2024, 24, 9975-10000. | 4.9 | 0 |
| 11 | Occurrence, abundance, and formation of atmospheric tarballs from a wide range of wildfires in the western US. Atmospheric Chemistry and Physics, 2024, 24, 10985-11004. | 4.9 | 0 |
| 12 | Arctic tropospheric ozone: assessment of current knowledge and model performance. Atmospheric Chemistry and Physics, 2023, 23, 637-661. | 4.9 | 8 |
| 13 | 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 |
| 14 | 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 |
| 15 | Nitrogen oxides in the free troposphere: implications for tropospheric oxidants and the interpretation of satellite NO<sub>2</sub> measurements. Atmospheric Chemistry and Physics, 2023, 23, 1227-1257. | 4.9 | 26 |
| 16 | Pyrocumulonimbus affect average stratospheric aerosol composition. Science, 2023, 379, 815-820. | 19.8 | 10 |
| 17 | Fuel-Type Independent Parameterization of Volatile Organic Compound Emissions from Western US Wildfires. Environmental Science & Technology, 2023, 57, 13193-13204. | 10.3 | 6 |
| 18 | Emission Factors for Crop Residue and Prescribed Fires in the Eastern US During FIREXâ€AQ. Journal of Geophysical Research D: Atmospheres, 2023, 128, . | 3.3 | 2 |

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| 19 | 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 |
| 20 | Application of the Multi-Scale Infrastructure for Chemistry and Aerosols version 0 (MUSICAv0) for air quality research in Africa. Geoscientific Model Development, 2023, 16, 6001-6028. | 3.7 | 1 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | Monitoring methane emissions from oil and gas operations<sup>â€¡</sup>. Optics Express, 2022, 30, 24326. | 3.3 | 5 |
| 25 | 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 |
| 26 | Monitoring Methane Emissions from Oil and Gas Operations. , 2022, 1, . |  | 20 |
| 27 | Characteristics and evolution of brown carbon in western United States wildfires. Atmospheric Chemistry and Physics, 2022, 22, 8009-8036. | 4.9 | 27 |
| 28 | Furoyl peroxynitrate (fur-PAN), a product of VOCâ€“NO<sub><i>x</i></sub>photochemistry from biomass burning emissions: photochemical synthesis, calibration, chemical characterization, and first atmospheric observations. Environmental Science Atmospheres, 2022, 2, 1087-1100. | 2.1 | 3 |
| 29 | 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 |
| 30 | 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 |
| 31 | Comparison of airborne measurements of NO, NO<sub>2</sub>, HONO, NO<sub><i>y</i></sub>, and CO during FIREX-AQ. Atmospheric Measurement Techniques, 2022, 15, 4901-4930. | 3.1 | 19 |
| 32 | 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 |
| 33 | 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 |
| 34 | Reply to Yang etÂ al.: 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 |
| 35 | 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 |
| 36 | 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 |

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| 37 | Emission factors and evolution of SO<sub>2</sub> measured from biomass burning in wildfires and agricultural fires. Atmospheric Chemistry and Physics, 2022, 22, 15603-15620. | 4.9 | 12 |
| 38 | Identifying Volatile Chemical Product Tracer Compounds in U.S. Cities. Environmental Science & Technology, 2021, 55, 188-199. | 10.3 | 77 |
| 39 | The global impacts of COVID-19 lockdowns on urban air pollution. Elementa, 2021, 9, . | 3.2 | 105 |
| 40 | 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 |
| 41 | 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 |
| 42 | Extreme oxidant amounts produced by lightning in storm clouds. Science, 2021, 372, 711-715. | 19.8 | 30 |
| 43 | 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 |
| 44 | 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 |
| 45 | 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 |
| 46 | 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 |
| 47 | Impact of stratospheric air and surface emissions on tropospheric nitrous oxide during ATom. Atmospheric Chemistry and Physics, 2021, 21, 11113-11132. | 4.9 | 6 |
| 48 | Variability and Time of Day Dependence of Ozone Photochemistry in Western Wildfire Plumes. Environmental Science & Technology, 2021, 55, 10280-10290. | 10.3 | 39 |
| 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 | 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 |
| 51 | 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 |
| 52 | Heterogeneity and chemical reactivity of the remote troposphere defined by aircraft measurements. Atmospheric Chemistry and Physics, 2021, 21, 13729-13746. | 4.9 | 4 |
| 53 | Ambient aerosol properties in the remote atmosphere from global-scale in situ measurements. Atmospheric Chemistry and Physics, 2021, 21, 15023-15063. | 4.9 | 17 |
| 54 | Rapid cloud removal of dimethyl sulfide oxidation products limits SO <sub>2</sub> 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 |

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| 55 | 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 |
| 56 | 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 |
| 57 | Machine Learning Uncovers Aerosol Size Information From Chemistry and Meteorology to Quantify Potential Cloudâ€Forming Particles. Geophysical Research Letters, 2021, 48, . | 3.9 | 9 |
| 58 | Novel Analysis to Quantify Plume Crosswind Heterogeneity Applied to Biomass Burning Smoke. Environmental Science & Technology, 2021, 55, 15646-15657. | 10.3 | 16 |
| 59 | Ozone chemistry in western U.S. wildfire plumes. Science Advances, 2021, 7, eabl3648. | 10.8 | 57 |
| 60 | 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 |
| 61 | 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 |
| 62 | Biomass burning nitrogen dioxide emissions derived from space with TROPOMI: methodology and validation. Atmospheric Measurement Techniques, 2021, 14, 7929-7957. | 3.1 | 32 |
| 63 | Exploring Oxidation in the Remote Free Troposphere: Insights From Atmospheric Tomography (ATom). Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031685. | 3.3 | 25 |
| 64 | 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 |
| 65 | 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 |
| 66 | Missing OH reactivity in the global marine boundary layer. Atmospheric Chemistry and Physics, 2020, 20, 4013-4029. | 4.9 | 28 |
| 67 | 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 |
| 68 | Variability of Ammonia and Methane Emissions from Animal Feeding Operations in Northeastern Colorado. Environmental Science & Technology, 2020, 54, 11015-11024. | 10.3 | 25 |
| 69 | 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 |
| 70 | Investigating large methane enhancements in the U.S. San Juan Basin. Elementa, 2020, 8, . | 3.2 | 8 |
| 71 | 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 |
| 72 | 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 |

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| 73 | 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 |
| 74 | Constraining remote oxidation capacity with ATom observations. Atmospheric Chemistry and Physics, 2020, 20, 7753-7781. | 4.9 | 39 |
| 75 | A cavity-enhanced ultraviolet absorption instrument for high-precision, fast-time-response ozone measurements. Atmospheric Measurement Techniques, 2020, 13, 6877-6887. | 3.1 | 8 |
| 76 | Errors in top-down estimates of emissions using a known source. Atmospheric Chemistry and Physics, 2020, 20, 11855-11868. | 4.9 | 12 |
| 77 | Methane emissions from oil and gas production on the North Slope of Alaska. Atmospheric Environment, 2019, 218, 116985. | 4.2 | 9 |
| 78 | 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 |
| 79 | 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 |
| 80 | 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 |
| 81 | 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 |
| 82 | 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 |
| 83 | Diurnal Variability and Emission Pattern of Decamethylcyclopentasiloxane (D<sub>5</sub>) from the Application of Personal Care Products in Two North American Cities. Environmental Science & Technology, 2018, 52, 5610-5618. | 10.3 | 83 |
| 84 | An aerosol particle containing enriched uranium encountered in the remote upper troposphere. Journal of Environmental Radioactivity, 2018, 184-185, 95-100. | 1.8 | 6 |
| 85 | 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 |
| 86 | 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 |
| 87 | 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 |
| 88 | Development of a Fuel-Based Oil and Gas Inventory of Nitrogen Oxides Emissions. Environmental Science & Technology, 2018, 52, 10175-10185. | 10.3 | 21 |
| 89 | Observed NO/NO<sub>2</sub> Ratios in the Upper Troposphere Imply Errors in NOâ€NO<sub>2</sub>â€O<sub>3</sub> Cycling Kinetics or an Unaccounted NO<sub>x</sub> Reservoir. Geophysical Research Letters, 2018, 45, 4466-4474. | 3.9 | 38 |
| 90 | 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 |

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| 91 | 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 |
| 92 | 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 |
| 93 | 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 |
| 94 | 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 |
| 95 | Lightning NO<sub><i>x</i></sub> Emissions: Reconciling Measured and Modeled Estimates With Updated NO<sub><i>x</i></sub> Chemistry. Geophysical Research Letters, 2017, 44, 9479-9488. | 3.9 | 60 |
| 96 | Transition from high- to low-NOx control of night-time oxidation in the southeastern US. Nature Geoscience, 2017, 10, 490-495. | 11.7 | 62 |
| 97 | 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 |
| 98 | On-road measurements of vehicle NO 2 /NO x emission ratios in Denver, Colorado, USA. Atmospheric Environment, 2017, 148, 182-189. | 4.2 | 65 |
| 99 | 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 |
| 100 | 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 |
| 101 | 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 |
| 102 | Analysis of local-scale background concentrations of methane and other gas-phase species in the Marcellus Shale. Elementa, 2017, 5, . | 3.2 | 26 |
| 103 | Observations of VOC emissions and photochemical products over US oil- and gas-producing regions using high-resolution H<sub>3</sub>O<sup>+</sup> CIMS (PTR-ToF-MS). Atmospheric Measurement Techniques, 2017, 10, 2941-2968. | 3.1 | 44 |
| 104 | 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 |
| 105 | Measuring the Methane Leaks to the Air from Three Large Natural Gas Production Regions. Frontiers for Young Minds, 2016, 4, . | 0.8 | 0 |
| 106 | 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 |
| 107 | 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 |
| 108 | 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 |

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| 109 | 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 |
| 110 | Airborne quantification of upper tropospheric NO<i><sub>x</sub></i> 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 |
| 111 | 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 |
| 112 | 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 |
| 113 | Why do models overestimate surface ozone in the Southeast United States?. Atmospheric Chemistry and Physics, 2016, 16, 13561-13577. | 4.9 | 334 |
| 114 | Formaldehyde production from isoprene oxidation acrossÂNO<sub><i>x</i></sub>Âregimes. Atmospheric Chemistry and Physics, 2016, 16, 2597-2610. | 4.9 | 138 |
| 115 | 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 |
| 116 | Agricultural fires in the southeastern U.S. during SEAC<sup>4</sup>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 | 98 |
| 117 | Injection of lightningâ€produced NO<i><sub>x</sub></i>, 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 |
| 118 | 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 |
| 119 | Observational Constraints on the Oxidation of NO<sub><i>x</i></sub> in the Upper Troposphere. Journal of Physical Chemistry A, 2016, 120, 1468-1478. | 2.6 | 24 |
| 120 | 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 |
| 121 | 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 |
| 122 | Upper tropospheric ozone production from lightning NO<i><sub>x</sub></i>â€impacted convection: Smoke ingestion case study from the DC3 campaign. Journal of Geophysical Research D: Atmospheres, 2015, 120, 2505-2523. | 3.3 | 92 |
| 123 | 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 |
| 124 | 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 |
| 125 | A large and ubiquitous source of atmospheric formic acid. Atmospheric Chemistry and Physics, 2015, 15, 6283-6304. | 4.9 | 211 |
| 126 | The POLARCAT Model Intercomparison Project (POLMIP): overview and evaluation with observations. Atmospheric Chemistry and Physics, 2015, 15, 6721-6744. | 4.9 | 64 |

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| 127 | Corrigendum to "In situ vertical profiles of aerosol extinction, mass, and composition over the southeast United States during SENEX and SEAC<sup>4</sup>RS: 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 |
| 128 | In situ vertical profiles of aerosol extinction, mass, and composition over the southeast United States during SENEX and SEAC<sup>4</sup>RS: observations of a modest aerosol enhancement aloft. Atmospheric Chemistry and Physics, 2015, 15, 7085-7102. | 4.9 | 52 |
| 129 | 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 |
| 130 | Airborne measurements of organosulfates over the continental U.S.. Journal of Geophysical Research D: Atmospheres, 2015, 120, 2990-3005. | 3.3 | 98 |
| 131 | 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 |
| 132 | Black Carbon Emissions from the Bakken Oil and Gas Development Region. Environmental Science and Technology Letters, 2015, 2, 281-285. | 8.7 | 51 |
| 133 | Airborne measurements of the atmospheric emissions from a fuel ethanol refinery. Journal of Geophysical Research D: Atmospheres, 2015, 120, 4385-4397. | 3.3 | 16 |
| 134 | Evaluation of the airborne quantum cascade laser spectrometer (QCLS) measurements of the carbon and greenhouse gas suite â€“ CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, and CO â€“ during the CalNex and HIPPO campaigns. Atmospheric Measurement Techniques, 2014, 7, 1509-1526. | 3.1 | 76 |
| 135 | Thunderstorms enhance tropospheric ozone by wrapping and shedding stratospheric air. Geophysical Research Letters, 2014, 41, 7785-7790. | 3.9 | 65 |
| 136 | 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 |
| 137 | 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 |
| 138 | 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 |
| 139 | Top-down estimate of surface flux in the Los Angeles Basin using a mesoscale inverse modeling technique: assessing anthropogenic emissions of CO, NO<sub>x</sub> and CO<sub>2</sub> and their impacts. Atmospheric Chemistry and Physics, 2013, 13, 3661-3677. | 4.9 | 143 |
| 140 | Diurnal tracking of anthropogenic CO<sub>2</sub> emissions in the Los Angeles basin megacity during spring 2010. Atmospheric Chemistry and Physics, 2013, 13, 4359-4372. | 4.9 | 100 |
| 141 | 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 |
| 142 | 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 |
| 143 | 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 |
| 144 | Chemical data quantify <i>Deepwater Horizon</i> 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 |

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