

Michael A Shook

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

1,320
citations

394421

19
h-index

361022

35
g-index

83
all docs

83
docs citations

83
times ranked

1855
citing authors

#	ARTICLE	IF	CITATIONS
1	Biofuel blending reduces particle emissions from aircraft engines at cruise conditions. <i>Nature</i> , 2017, 543, 411-415.	27.8	219
2	The North Atlantic Aerosol and Marine Ecosystem Study (NAAMES): Science Motive and Mission Overview. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	111
3	Cleaner burning aviation fuels can reduce contrail cloudiness. <i>Communications Earth & Environment</i> , 2021, 2, .	6.8	92
4	New insights into the column CH ₂ O/NO ₂ ratio as an indicator of near-surface ozone sensitivity. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 8885-8907.	3.3	87
5	Influence of Jet Fuel Composition on Aircraft Engine Emissions: A Synthesis of Aerosol Emissions Data from the NASA APEX, AAFEX, and ACCESS Missions. <i>Energy & Fuels</i> , 2015, 29, 2591-2600.	5.1	71
6	Aerosol-Cloud-Meteorology Interaction Airborne Field Investigations: Using Lessons Learned from the U.S. West Coast in the Design of ACTIVATE off the U.S. East Coast. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 1511-1528.	3.3	51
7	Factors that influence surface PM _{2.5} values inferred from satellite observations: perspective gained for the US Baltimore-Washington metropolitan area during DISCOVER-AQ. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 2139-2153.	4.9	45
8	Investigation of factors controlling PM _{2.5} variability across the South Korean Peninsula during KORUS-AQ. <i>Elementa</i> , 2020, 8, .	3.2	44
9	Airborne observations of bioaerosol over the Southeast United States using a Wideband Integrated Bioaerosol Sensor. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 8506-8524.	3.3	40
10	Seasonal Differences and Variability of Concentrations, Chemical Composition, and Cloud Condensation Nuclei of Marine Aerosol Over the North Atlantic. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD033145.	3.3	36
11	Atmospheric Research Over the Western North Atlantic Ocean Region and North American East Coast: A Review of Past Work and Challenges Ahead. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031626.	3.3	35
12	High Temporal Resolution Satellite Observations of Fire Radiative Power Reveal Link Between Fire Behavior and Aerosol and Gas Emissions. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090707.	4.0	30
13	Diurnal Climatology of Planetary Boundary Layer Height Over the Contiguous United States Derived From AMDAR and Reanalysis Data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032803.	3.3	28
14	Sizing response of the Ultra-High Sensitivity Aerosol Spectrometer (UHSAS) and Laser Aerosol Spectrometer (LAS) to changes in submicron aerosol composition and refractive index. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 4517-4542.	3.1	28
15	Retrievals of cloud droplet size from the research scanning polarimeter data: Validation using in situ measurements. <i>Remote Sensing of Environment</i> , 2018, 210, 76-95.	11.0	26
16	Observational evidence for the convective transport of dust over the Central United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 1306-1319.	3.3	23
17	Measurement report: Long-range transport patterns into the tropical northwest Pacific during the CAMP ₂ Ex aircraft campaign: chemical composition, size distributions, and the impact of convection. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 3777-3802.	4.9	22
18	A Laboratory Experiment for the Statistical Evaluation of Aerosol Retrieval (STEAR) Algorithms. <i>Remote Sensing</i> , 2019, 11, 498.	4.0	21

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19	Cloud drop number concentrations over the western North Atlantic Ocean: seasonal cycle, aerosol interrelationships, and other influential factors. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 10499-10526.	4.9	20
20	Formaldehyde column density measurements as a suitable pathway to estimate near-surface ozone tendencies from space. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 13088-13112.	3.3	19
21	On Assessing ERA5 and MERRA2 Representations of Cold-Air Outbreaks Across the Gulf Stream. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094364.	4.0	19
22	An intercomparison of aerosol absorption measurements conducted during the SEAC ⁴ RS campaign. <i>Aerosol Science and Technology</i> , 2018, 52, 1012-1027.	3.1	17
23	Aerosol responses to precipitation along North American air trajectories arriving at Bermuda. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 16121-16141.	4.9	17
24	Take-off engine particle emission indices for in-service aircraft at Los Angeles International Airport. <i>Scientific Data</i> , 2017, 4, 170198.	5.3	15
25	Linking marine phytoplankton emissions, meteorological processes, and downwind particle properties with FLEXPART. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 831-851.	4.9	15
26	Atmospheric Carbon and Transport â€“ America (ACTâ€“America) Data Sets: Description, Management, and Delivery. <i>Earth and Space Science</i> , 2021, 8, e2020EA001634.	2.6	15
27	Spectral aerosol extinction (SpEx): a new instrument for in situ ambient aerosol extinction measurements across the UV/visible wavelength range. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 4755-4771.	3.1	14
28	Development and characterization of a high-efficiency, aircraft-based axial cyclone cloud water collector. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 5025-5048.	3.1	14
29	Aircraft engine particulate matter emissions from sustainable aviation fuels: Results from ground-based measurements during the NASA/DLR campaign ECLIF2/ND-MAX. <i>Fuel</i> , 2022, 325, 124764.	6.4	13
30	Total organic carbon and the contribution from speciated organics in cloud water: airborne data analysis from the CAMP<sup>2</sup>Ex field campaign. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 14109-14129.	4.9	10
31	Reconciling Assumptions in Bottomâ€“Up and Topâ€“Down Approaches for Estimating Aerosol Emission Rates From Wildland Fires Using Observations From FIREXâ€“AQ. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, .	3.3	10
32	Aircraft-engine particulate matter emissions from conventional and sustainable aviation fuel combustion: comparison of measurement techniques for mass, number, and size. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 3223-3242.	3.1	10
33	Case study of stratospheric intrusion above Hampton, Virginia: Lidar-observation and modeling analysis. <i>Atmospheric Environment</i> , 2021, 259, 118498.	4.1	9
34	Cold Air Outbreaks Promote New Particle Formation Off the U.S. East Coast. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	9
35	Seasonal updraft speeds change cloud droplet number concentrations in low-level clouds over the western North Atlantic. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 8299-8319.	4.9	9
36	Large-Eddy Simulations of Marine Boundary Layer Clouds Associated with Cold-Air Outbreaks during the ACTIVATE Campaign. Part I: Case Setup and Sensitivities to Large-Scale Forcings. <i>Journals of the Atmospheric Sciences</i> , 2022, 79, 73-100.	1.7	8

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37	New in situ aerosol hyperspectral optical measurements over 300–700 nm Part 1: Spectral Aerosol Extinction (SpEx) instrument field validation during the KORUS-OC cruise. Atmospheric Measurement Techniques, 2021, 14, 695-713.	3.1	6
38	Particulate Oxalate to Sulfate Ratio as an Aqueous Processing Marker: Similarity Across Field Campaigns and Limitations. Geophysical Research Letters, 2021, 48, e2021GL096520.	4.0	6
39	Dilution of Boundary Layer Cloud Condensation Nucleus Concentrations by Free Tropospheric Entrainment During Marine Cold Air Outbreaks. Geophysical Research Letters, 2022, 49, .	4.0	6
40	Coupling an online ion conductivity measurement with the particle-into-liquid sampler: Evaluation and modeling using laboratory and field aerosol data. Aerosol Science and Technology, 2020, 54, 1542-1555.	3.1	5
41	New in situ aerosol hyperspectral optical measurements over 300–700 nm Part 2: Extinction, total absorption, water- and methanol-soluble absorption observed during the KORUS-OC cruise. Atmospheric Measurement Techniques, 2021, 14, 715-736.	3.1	5
42	Above-aircraft cirrus cloud and aerosol optical depth from hyperspectral irradiances measured by a total-diffuse radiometer. Atmospheric Measurement Techniques, 2022, 15, 1373-1394.	3.1	5
43	Polarimeter + Lidar Derived Aerosol Particle Number Concentration. Frontiers in Remote Sensing, 2022, 3, .	3.5	5
44	North Atlantic Ocean SST-gradient-driven variations in aerosol and cloud evolution along Lagrangian cold-air outbreak trajectories. Atmospheric Chemistry and Physics, 2022, 22, 2795-2815.	4.9	4
45	Aircraft Engine Particulate Matter and Gaseous Emissions from Sustainable Aviation Fuels: Results from Ground-Based Measurements During the Nasa/Dlr Campaign Eclif2/Nd-Max. SSRN Electronic Journal, 0, , .	0.4	3
46	Relationships between supermicrometer particle concentrations and cloud water sea salt and dust concentrations: analysis of MONARC and ACTIVATE data. Environmental Science Atmospheres, 2022, 2, 738-752.	2.4	3