

# Fan Mei

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

2,006  
citations

279798

23  
h-index

265206

42  
g-index

89  
all docs

89  
docs citations

89  
times ranked

2938  
citing authors

#	ARTICLE	IF	CITATIONS
1	Substantial convection and precipitation enhancements by ultrafine aerosol particles. <i>Science</i> , 2018, 359, 411-418.	12.6	290
2	Release profile characteristics of biodegradable-polymer-coated drug particles fabricated by dual-capillary electrospray. <i>Journal of Controlled Release</i> , 2010, 145, 58-65.	9.9	137
3	The Green Ocean Amazon Experiment (GoAmazon2014/5) Observes Pollution Affecting Gases, Aerosols, Clouds, and Rainfall over the Rain Forest. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 981-997.	3.3	128
4	Amazon boundary layer aerosol concentration sustained by vertical transport during rainfall. <i>Nature</i> , 2016, 539, 416-419.	27.8	112
5	Overview of the 2010 Carbonaceous Aerosols and Radiative Effects Study (CARES). <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 7647-7687.	4.9	94
6	Long-term measurements of submicrometer aerosol chemistry at the Southern Great Plains (SGP) using an Aerosol Chemical Speciation Monitor (ACSM). <i>Atmospheric Environment</i> , 2015, 106, 43-55.	4.1	92
7	CCN activity of organic aerosols observed downwind of urban emissions during CARES. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 12155-12169.	4.9	88
8	Droplet activation properties of organic aerosols observed at an urban site during CalNex-LA. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 2903-2917.	3.3	73
9	The DOE ARM Aerial Facility. <i>Bulletin of the American Meteorological Society</i> , 2014, 95, 723-742.	3.3	51
10	Investigation of compound jet electrospray: Particle encapsulation. <i>Physics of Fluids</i> , 2007, 19, 103303.	4.0	50
11	A Bird's-Eye View: Development of an Operational ARM Unmanned Aerial Capability for Atmospheric Research in Arctic Alaska. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 1197-1212.	3.3	46
12	Influence of urban pollution on the production of organic particulate matter from isoprene epoxydiols in central Amazonia. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 6611-6629.	4.9	45
13	New particle formation in the remote marine boundary layer. <i>Nature Communications</i> , 2021, 12, 527.	12.8	45
14	Lung Cancer Inhibitory Effect of Epigallocatechin-3-Gallate Is Dependent on Its Presence in a Complex Mixture (Polyphenon E). <i>Cancer Prevention Research</i> , 2009, 2, 531-537.	1.5	44
15	Overview of the HI-SCALE Field Campaign: A New Perspective on Shallow Convective Clouds. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 821-840.	3.3	44
16	Cloud characteristics, thermodynamic controls and radiative impacts during the Observations and Modeling of the Green Ocean Amazon (GoAmazon2014/5) experiment. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 14519-14541.	4.9	38
17	Influences of upwind emission sources and atmospheric processing on aerosol chemistry and properties at a rural location in the Northeastern U.S.. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 6049-6065.	3.3	35
18	Cloud droplet activation of secondary organic aerosol is mainly controlled by molecular weight, not water solubility. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 941-954.	4.9	35

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19	The Two-Column Aerosol Project: Phase I Overview and impact of elevated aerosol layers on aerosol optical depth. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 336-361.	3.3	33
20	Aerosol and Cloud Experiments in the Eastern North Atlantic (ACE-ENA). <i>Bulletin of the American Meteorological Society</i> , 2022, 103, E619-E641.	3.3	33
21	Fluidization of fine particles in conical beds. <i>Powder Technology</i> , 2001, 118, 271-274.	4.2	30
22	Utilizing a Storm-Generating Hotspot to Study Convective Cloud Transitions: The CACTI Experiment. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E1597-E1620.	3.3	30
23	Impacts of the Manaus pollution plume on the microphysical properties of Amazonian warm-phase clouds in the wet season. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7029-7041.	4.9	29
24	Seven years of aerosol scattering hygroscopic growth measurements from SGP: Factors influencing water uptake. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 9451-9466.	3.3	26
25	Assessing the vertical structure of Arctic aerosols using balloon-borne measurements. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 1737-1757.	4.9	25
26	The observed influence of local anthropogenic pollution on northern Alaskan cloud properties. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 14709-14726.	4.9	24
27	The Impact of Variable Land-Atmosphere Coupling on Convective Cloud Populations Observed During the 2016 HI-SCALE Field Campaign. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 2629-2654.	3.8	22
28	Contrasting Scale Dependence of Entrainment-Mixing Mechanisms in Stratocumulus Clouds. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL086970.	4.0	21
29	Simultaneous retrieval of effective refractive index and density from size distribution and light-scattering data: weakly absorbing aerosol. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 3247-3261.	3.1	21
30	Aircraft measurements of aerosol and trace gas chemistry in the eastern North Atlantic. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 7983-8002.	4.9	19
31	Rapid growth of anthropogenic organic nanoparticles greatly alters cloud life cycle in the Amazon rainforest. <i>Science Advances</i> , 2022, 8, eabj0329.	10.3	19
32	Measuring cloud thermodynamic phase with shortwave infrared imaging spectroscopy. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 9174-9190.	3.3	17
33	Characteristics of Ice Nucleating Particles in and Around California Winter Storms. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 11530-11551.	3.3	17
34	Operational Modes of Dual-capillary Electrospraying and the Formation of the Stable Compound Cone-jet Mod. <i>Aerosol and Air Quality Research</i> , 2008, 8, 218-232.	2.1	17
35	Vertical profiles of trace gas and aerosol properties over the eastern North Atlantic: variations with season and synoptic condition. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 11079-11098.	4.9	14
36	Extraction Equilibria of Benzoic Acid with Tributyl Phosphate in Kerosene and 1-Octanol. <i>Journal of Chemical &amp; Engineering Data</i> , 2002, 47, 941-943.	1.9	12

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37	A cost-effective differential mobility analyzer (cDMA) for multiple DMA column applications. <i>Journal of Aerosol Science</i> , 2011, 42, 462-473.	3.8	12
38	Evaluation of ARM tethered-balloon system instrumentation for supercooled liquid water and distributed temperature sensing in mixed-phase Arctic clouds. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 6845-6864.	3.1	12
39	Comparison of aircraft measurements during GoAmazon2014/5 and ACRIDICON-CHUVA. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 661-684.	3.1	12
40	Atmospheric observations made at Oliktok Point, Alaska, as part of the Profiling at Oliktok Point to Enhance YOPP Experiments (POPEYE) campaign. <i>Earth System Science Data</i> , 2019, 11, 1349-1362.	9.9	12
41	Performance Assessment of Portable Optical Particle Spectrometer (POPS). <i>Sensors</i> , 2020, 20, 6294.	3.8	11
42	Impact of secondary droplet activation on the contrasting cloud microphysical relationships during the wet and dry seasons in the Amazon. <i>Atmospheric Research</i> , 2019, 230, 104648.	4.1	10
43	A New Approach for Simultaneous Estimation of Entrainment and Detrainment Rates in Non-Precipitating Shallow Cumulus. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093817.	4.0	10
44	Vertical Variations of Cloud Microphysical Relationships in Marine Stratocumulus Clouds Observed During the ACE-ENA Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, .	3.3	8
45	Observational Constraints on Warm Cloud Microphysical Processes Using Machine Learning and Optimization Techniques. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091236.	4.0	7
46	Identifying a regional aerosol baseline in the eastern North Atlantic using collocated measurements and a mathematical algorithm to mask high-submicron-number-concentration aerosol events. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 7553-7573.	4.9	7
47	Simulation-aided characterization of a versatile water-based condensation particle counter for atmospheric airborne research. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 7329-7340.	3.1	6
48	Fine-Scale Variability of Observed and Simulated Surface Albedo Over the Southern Great Plains. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD030559.	3.3	5
49	Molecular Characterization of Organosulfate-Dominated Aerosols over Agricultural Fields from the Southern Great Plains by High-Resolution Mass Spectrometry. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 1733-1741.	2.7	5
50	Measurement report: Cloud condensation nuclei activity and its variation with organic oxidation level and volatility observed during an aerosol life cycle intensive operational period (ALC-IOP). <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 13019-13029.	4.9	3
51	Earth System Model Aerosol-Cloud Diagnostics (ESMAC Diags) package, version 1: assessing E3SM aerosol predictions using aircraft, ship, and surface measurements. <i>Geoscientific Model Development</i> , 2022, 15, 4055-4076.	3.6	3
52	Improved particle plug valve for Geldart-D powders. <i>Powder Technology</i> , 2003, 131, 99-104.	4.2	2
53	Estimation of Aerosol Columnar Size Distribution from Spectral Extinction Data in Coastal and Maritime Environment. <i>Atmosphere</i> , 2021, 12, 1412.	2.3	2
54	Morphology transition in electrospinning polymers by a dual-capillary system. <i>Journal of Applied Polymer Science</i> , 2010, 115, 204-215.	2.6	0