# Fan Mei

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | Aerosol and Cloud Experiments in the Eastern North Atlantic (ACE-ENA). Bulletin of the American Meteorological Society, 2022, 103, E619-E641. | 3.3 | 33 |
| 2 | Rapid growth of anthropogenic organic nanoparticles greatly alters cloud life cycle in the Amazon rainforest. Science Advances, 2022, 8, eabj0329. | 10.3 | 19 |
| 3 | Molecular Characterization of Organosulfate-Dominated Aerosols over Agricultural Fields from the Southern Great Plains by High-Resolution Mass Spectrometry. ACS Earth and Space Chemistry, 2022, 6, 1733-1741. | 2.7 | 5 |
| 4 | Earth System Model Aerosolâ€“Cloud Diagnostics (ESMAC Diags) package, version 1: assessing E3SM aerosol predictions using aircraft, ship, and surface measurements. Geoscientific Model Development, 2022, 15, 4055-4076. | 3.6 | 3 |
| 5 | Assessing the vertical structure of Arctic aerosols using balloon-borne measurements. Atmospheric Chemistry and Physics, 2021, 21, 1737-1757. | 4.9 | 25 |
| 6 | Aircraft measurements of aerosol and trace gas chemistry in the eastern North Atlantic. Atmospheric Chemistry and Physics, 2021, 21, 7983-8002. | 4.9 | 19 |
| 7 | Vertical profiles of trace gas and aerosol properties over the eastern North Atlantic: variations with season and synoptic condition. Atmospheric Chemistry and Physics, 2021, 21, 11079-11098. | 4.9 | 14 |
| 8 | Utilizing a Storm-Generating Hotspot to Study Convective Cloud Transitions: The CACTI Experiment. Bulletin of the American Meteorological Society, 2021, 102, E1597-E1620. | 3.3 | 30 |
| 9 | A New Approach for Simultaneous Estimation of Entrainment and Detrainment Rates in Nonâ€Precipitating Shallow Cumulus. Geophysical Research Letters, 2021, 48, e2021GL093817. | 4.0 | 10 |
| 10 | 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). Atmospheric Chemistry and Physics, 2021, 21, 13019-13029. | 4.9 | 3 |
| 11 | Observational Constraints on Warm Cloud Microphysical Processes Using Machine Learning and Optimization Techniques. Geophysical Research Letters, 2021, 48, e2020GL091236. | 4.0 | 7 |
| 12 | New particle formation in the remote marine boundary layer. Nature Communications, 2021, 12, 527. | 12.8 | 45 |
| 13 | Estimation of Aerosol Columnar Size Distribution from Spectral Extinction Data in Coastal and Maritime Environment. Atmosphere, 2021, 12, 1412. | 2.3 | 2 |
| 14 | Vertical Variations of Cloud Microphysical Relationships in Marine Stratocumulus Clouds Observed During the ACEâ€ENA Campaign. Journal of Geophysical Research D: Atmospheres, 2021, 126, . | 3.3 | 8 |
| 15 | Simulation-aided characterization of a versatile water-based condensation particle counter for atmospheric airborne research. Atmospheric Measurement Techniques, 2021, 14, 7329-7340. | 3.1 | 6 |
| 16 | Performance Assessment of Portable Optical Particle Spectrometer (POPS). Sensors, 2020, 20, 6294. | 3.8 | 11 |
| 17 | Comparison of aircraft measurements during GoAmazon2014/5 and ACRIDICON-CHUVA. Atmospheric Measurement Techniques, 2020, 13, 661-684. | 3.1 | 12 |
| 18 | Fineâ€Scale Variability of Observed and Simulated Surface Albedo Over the Southern Great Plains. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD030559. | 3.3 | 5 |

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|---|---|---|---|
| 19 | Contrasting Scale Dependence of Entrainmentâ€Mixing Mechanisms in Stratocumulus Clouds. Geophysical Research Letters, 2020, 47, e2020GL086970. | 4.0 | 21 |
| 20 | 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. Atmospheric Chemistry and Physics, 2020, 20, 7553-7573. | 4.9 | 7 |
| 21 | Overview of the HI-SCALE Field Campaign: A New Perspective on Shallow Convective Clouds. Bulletin of the American Meteorological Society, 2019, 100, 821-840. | 3.3 | 44 |
| 22 | The Impact of Variable Landâ€Atmosphere Coupling on Convective Cloud Populations Observed During the 2016 HIâ€SCALE Field Campaign. Journal of Advances in Modeling Earth Systems, 2019, 11, 2629-2654. | 3.8 | 22 |
| 23 | Characteristics of Ice Nucleating Particles in and Around California Winter Storms. Journal of Geophysical Research D: Atmospheres, 2019, 124, 11530-11551. | 3.3 | 17 |
| 24 | Impact of secondary droplet activation on the contrasting cloud microphysical relationships during the wet and dry seasons in the Amazon. Atmospheric Research, 2019, 230, 104648. | 4.1 | 10 |
| 25 | Cloud droplet activation of secondary organic aerosol is mainly controlled by molecular weight, not water solubility. Atmospheric Chemistry and Physics, 2019, 19, 941-954. | 4.9 | 35 |
| 26 | Evaluation of ARM tethered-balloon system instrumentation for supercooled liquid water and distributed temperature sensing in mixed-phase Arctic clouds. Atmospheric Measurement Techniques, 2019, 12, 6845-6864. | 3.1 | 12 |
| 27 | Atmospheric observations made at Oliktok Point, Alaska, as part of the Profiling at Oliktok Point to Enhance YOPP Experiments (POPEYE) campaign. Earth System Science Data, 2019, 11, 1349-1362. | 9.9 | 12 |
| 28 | Substantial convection and precipitation enhancements by ultrafineaerosol particles. Science, 2018, 359, 411-418. | 12.6 | 290 |
| 29 | A Birdâ€™s-Eye View: Development of an Operational ARM Unmanned Aerial Capability for Atmospheric Research in Arctic Alaska. Bulletin of the American Meteorological Society, 2018, 99, 1197-1212. | 3.3 | 46 |
| 30 | Seven years of aerosol scattering hygroscopic growth measurements from SGP: Factors influencing water uptake. Journal of Geophysical Research D: Atmospheres, 2017, 122, 9451-9466. | 3.3 | 26 |
| 31 | The Green Ocean Amazon Experiment (GoAmazon2014/5) Observes Pollution Affecting Gases, Aerosols, Clouds, and Rainfall over the Rain Forest. Bulletin of the American Meteorological Society, 2017, 98, 981-997. | 3.3 | 128 |
| 32 | The observed influence of local anthropogenic pollution on northern Alaskan cloud properties. Atmospheric Chemistry and Physics, 2017, 17, 14709-14726. | 4.9 | 24 |
| 33 | Influence of urban pollution on the production of organic particulate matter from isoprene epoxydiols in central Amazonia. Atmospheric Chemistry and Physics, 2017, 17, 6611-6629. | 4.9 | 45 |
| 34 | Cloud characteristics, thermodynamic controls and radiative impacts during the Observations and Modeling of the Green Ocean Amazon (GoAmazon2014/5) experiment. Atmospheric Chemistry and Physics, 2017, 17, 14519-14541. | 4.9 | 38 |
| 35 | Influences of upwind emission sources and atmospheric processing on aerosol chemistry and properties at a rural location in the Northeastern U.S.. Journal of Geophysical Research D: Atmospheres, 2016, 121, 6049-6065. | 3.3 | 35 |
| 36 | The Twoâ€Column Aerosol Project: Phase Iâ€”Overview and impact of elevated aerosol layers on aerosol optical depth. Journal of Geophysical Research D: Atmospheres, 2016, 121, 336-361. | 3.3 | 33 |

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|---|---|---|---|
| 37 | Amazon boundary layer aerosol concentration sustained by vertical transport during rainfall. Nature, 2016, 539, 416-419. | 27.8 | 112 |
| 38 | Impacts of the Manaus pollution plume on the microphysical properties of Amazonian warm-phase clouds in the wet season. Atmospheric Chemistry and Physics, 2016, 16, 7029-7041. | 4.9 | 29 |
| 39 | Measuring cloud thermodynamic phase with shortwave infrared imaging spectroscopy. Journal of Geophysical Research D: Atmospheres, 2016, 121, 9174-9190. | 3.3 | 17 |
| 40 | Long-term measurements of submicrometer aerosol chemistry at the Southern Great Plains (SGP) using an Aerosol Chemical Speciation Monitor (ACSM). Atmospheric Environment, 2015, 106, 43-55. | 4.1 | 92 |
| 41 | The DOE ARM Aerial Facility. Bulletin of the American Meteorological Society, 2014, 95, 723-742. | 3.3 | 51 |
| 42 | Simultaneous retrieval of effective refractive index and density from size distribution and light-scattering data: weakly absorbing aerosol. Atmospheric Measurement Techniques, 2014, 7, 3247-3261. | 3.1 | 21 |
| 43 | Droplet activation properties of organic aerosols observed at an urban site during CalNexâ€LA. Journal of Geophysical Research D: Atmospheres, 2013, 118, 2903-2917. | 3.3 | 73 |
| 44 | CCN activity of organic aerosols observed downwind of urban emissions during CARES. Atmospheric Chemistry and Physics, 2013, 13, 12155-12169. | 4.9 | 88 |
| 45 | Overview of the 2010 Carbonaceous Aerosols and Radiative Effects Study (CARES). Atmospheric Chemistry and Physics, 2012, 12, 7647-7687. | 4.9 | 94 |
| 46 | A cost-effective differential mobility analyzer (cDMA) for multiple DMA column applications. Journal of Aerosol Science, 2011, 42, 462-473. | 3.8 | 12 |
| 47 | Release profile characteristics of biodegradable-polymer-coated drug particles fabricated by dual-capillary electrospray. Journal of Controlled Release, 2010, 145, 58-65. | 9.9 | 137 |
| 48 | Morphology transition in electrospinning polymers by a dualâ€capillary system. Journal of Applied Polymer Science, 2010, 115, 204-215. | 2.6 | 0 |
| 49 | Lung Cancer Inhibitory Effect of Epigallocatechin-3-Gallate Is Dependent on Its Presence in a Complex Mixture (Polyphenon E). Cancer Prevention Research, 2009, 2, 531-537. | 1.5 | 44 |
| 50 | Operational Modes of Dual-capillary Electrospraying and the Formation of the Stable Compound Cone-jet Mod. Aerosol and Air Quality Research, 2008, 8, 218-232. | 2.1 | 17 |
| 51 | Investigation of compound jet electrospray: Particle encapsulation. Physics of Fluids, 2007, 19, 103303. | 4.0 | 50 |
| 52 | Improved particle plug valve for Geldart-D powders. Powder Technology, 2003, 131, 99-104. | 4.2 | 2 |
| 53 | Extraction Equilibria of Benzoic Acid with Tributyl Phosphate in Kerosene and 1-Octanol. Journal of Chemical & Engineering Data, 2002, 47, 941-943. | 1.9 | 12 |
| 54 | Fluidization of fine particles in conical beds. Powder Technology, 2001, 118, 271-274. | 4.2 | 30 |