

Minghui Diao

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

2,038
citations

623734
14
h-index

552781
26
g-index

40
all docs

40
docs citations

40
times ranked

3470
citing authors

#	ARTICLE	IF	CITATIONS
1	Clarifying the Dominant Sources and Mechanisms of Cirrus Cloud Formation. <i>Science</i> , 2013, 340, 1320-1324.	12.6	442
2	Calibration of the Total Carbon Column Observing Network using aircraft profile data. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 1351-1362.	3.1	441
3	HIAPER Pole-to-Pole Observations (HIPPO): fine-grained, global-scale measurements of climatically important atmospheric gases and aerosols. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 2073-2086.	3.4	351
4	Use of zero-valent iron nanoparticles in inactivating microbes. <i>Water Research</i> , 2009, 43, 5243-5251.	11.3	289
5	Atmospheric observations of Arctic Ocean methane emissions up to 82° north. <i>Nature Geoscience</i> , 2012, 5, 318-321.	12.9	124
6	Methods, availability, and applications of PM _{2.5} exposure estimates derived from ground measurements, satellite, and atmospheric models. <i>Journal of the Air and Waste Management Association</i> , 2019, 69, 1391-1414.	1.9	73
7	Cloud Phase and Relative Humidity Distributions over the Southern Ocean in Austral Summer Based on In Situ Observations and CAM5 Simulations. <i>Journal of Climate</i> , 2019, 32, 2781-2805.	3.2	30
8	The O ₂ /N ₂ Ratio and CO ₂ Airborne Southern Ocean Study. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 381-402.	3.3	28
9	Validation of AIRS/AMSU water vapor and temperature data with in situ aircraft observations from the surface to UT/LS from 87°N–67°S. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 6816-6836.	3.3	25
10	A multi-analysis approach for estimating regional health impacts from the 2017 Northern California wildfires. <i>Journal of the Air and Waste Management Association</i> , 2021, 71, 791-814.	1.9	25
11	Satellite Monitoring for Air Quality and Health. <i>Annual Review of Biomedical Data Science</i> , 2021, 4, 417-447.	6.5	25
12	Impacts of Representing Heterogeneous Distribution of Cloud Liquid and Ice on Phase Partitioning of Arctic Mixed-Phase Clouds with NCAR CAM5. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 13071-13090.	3.3	24
13	Evolution of ice crystal regions on the microscale based on in situ observations. <i>Geophysical Research Letters</i> , 2013, 40, 3473-3478.	4.0	23
14	Cloud-scale ice-supersaturated regions spatially correlate with high water vapor heterogeneities. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 2639-2656.	4.9	23
15	Distributions of ice supersaturation and ice crystals from airborne observations in relation to upper tropospheric dynamical boundaries. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 5101-5121.	3.3	15
16	Hemispheric comparison of cirrus cloud evolution using in situ measurements in HIAPER Pole-to-Pole Observations. <i>Geophysical Research Letters</i> , 2014, 41, 4090-4099.	4.0	13
17	Direct comparisons of ice cloud macro- and microphysical properties simulated by the Community Atmosphere Model version 5 with HIPPO aircraft observations. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 4731-4749.	4.9	13
18	Effects of thermodynamics, dynamics and aerosols on cirrus clouds based on in situ observations and NCAR CAM6. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 1835-1859.	4.9	12

#	ARTICLE	IF	CITATIONS
19	Ice Nucleation Parameterization and Relative Humidity Distribution in Idealized Squall-Line Simulations. <i>Journals of the Atmospheric Sciences</i> , 2017, 74, 2761-2787.	1.7	9
20	Dynamical conditions of ice supersaturation and ice nucleation in convective systems: A comparative analysis between in situ aircraft observations and WRF simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 2844-2866.	3.3	9
21	Aerosol Indirect Effects on Cirrus Clouds Based on Global Aircraft Observations. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086550.	4.0	9
22	Ice and Supercooled Liquid Water Distributions Over the Southern Ocean Based on In Situ Observations and Climate Model Simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, .	3.3	9
23	An assessment of the radiative effects of ice supersaturation based on in situ observations. <i>Geophysical Research Letters</i> , 2016, 43, 11,039.	4.0	8
24	The University of Washington Iceâ€“Liquid Discriminator (UWILD) improves single-particle phase classifications of hydrometeors within Southern Ocean clouds using machine learning. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 7079-7101.	3.1	6
25	Evaluation of the CAM6 Climate Model Using Cloud Observations at McMurdo Station, Antarctica. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD034653.	3.3	5
26	Cirrus cloud formation and the role of heterogeneous ice nuclei. , 2013, , .		3
27	Measured Constraints on Cloud Top Entrainment to Reduce Uncertainty of Nonprecipitating Stratocumulus Shortwave Radiative Forcing in the Southern Ocean. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090513.	4.0	3