

Baike Xi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

81
papers

1,790
citations

24
h-index

39
g-index

99
ext. papers

2,069
ext. citations

4.3
avg, IF

4.91
L-index

#	Paper	IF	Citations
81	Environmental effects on aerosol-cloud interaction in non-precipitating marine boundary layer (MBL) clouds over the eastern North Atlantic. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 335-354	6.8	2
80	New Observational Constraints on Warm Rain Processes and Their Climate Implications. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL091836	4.9	3
79	Maritime Cloud and Drizzle Microphysical Properties Retrieved From Ship-Based Observations During MAGIC. <i>Earth and Space Science</i> , 2021 , 8, e2020EA001588	3.1	0
78	Summertime low clouds mediate the impact of the large-scale circulation on Arctic sea ice. <i>Communications Earth & Environment</i> , 2021 , 2,	6.1	4
77	Integrative Monsoon Frontal Rainfall Experiment (IMFRE-I): A Mid-Term Review. <i>Advances in Atmospheric Sciences</i> , 2021 , 38, 357-374	2.9	0
76	Retrieving high-resolution surface photosynthetically active radiation from the MODIS and GOES-16 ABI data. <i>Remote Sensing of Environment</i> , 2021 , 260, 112436	13.2	4
75	The climate response to increased cloud liquid water over the Arctic in CESM1: a sensitivity study of Wegener-Bergeron-Findeisen process. <i>Climate Dynamics</i> , 2021 , 56, 3373-3394	4.2	3
74	Statistical Characteristics of Raindrop Size Distributions and Parameters in Central China During the Meiyu Seasons. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD031954	4.4	5
73	Comparative Study of Cloud Liquid Water and Rain Liquid Water Obtained From Microwave Radiometer and Micro Rain Radar Observations Over Central China During the Monsoon. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2020JD032456	4.4	4
72	Characteristics of Ice Cloud Precipitation of Warm Season Mesoscale Convective Systems over the Great Plains. <i>Journal of Hydrometeorology</i> , 2020 , 21, 317-334	3.7	1
71	Profiles of MBL Cloud and Drizzle Microphysical Properties Retrieved From Ground-Based Observations and Validated by Aircraft In Situ Measurements Over the Azores. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD032205	4.4	9
70	Investigation of aerosol-cloud interactions under different absorptive aerosol regimes using Atmospheric Radiation Measurement (ARM) southern Great Plains (SGP) ground-based measurements. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 3483-3501	6.8	9
69	Cloud and Precipitation Properties of MCSs Along the Meiyu Frontal Zone in Central and Southern China and Their Associated Large-Scale Environments. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD031601	4.4	11
68	Vertical Distributions of Raindrops and Z-R Relationships Using Micro Rain Radar and 2-D-Video Distrometer Measurements During the Integrative Monsoon Frontal Rainfall Experiment (IMFRE). <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD031108	4.4	11
67	Can the GPM IMERG Final Product Accurately Represent MCSs Precipitation Characteristics over the Central and Eastern United States?. <i>Journal of Hydrometeorology</i> , 2020 , 21, 39-57	3.7	22
66	A Climatology of Marine Boundary Layer Cloud and Drizzle Properties Derived from Ground-Based Observations over the Azores. <i>Journal of Climate</i> , 2020 , 33, 10133-10148	4.4	5
65	Impacts of long-range transport of aerosols on marine-boundary-layer clouds in the eastern North Atlantic. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 14741-14755	6.8	6

64	Quantifying Long-Term Seasonal and Regional Impacts of North American Fire Activity on Continental Boundary Layer Aerosols and Cloud Condensation Nuclei. <i>Earth and Space Science</i> , 2020 , 7, e2020EA001113	3.1	1
63	Spatial Distribution and Impacts of Aerosols on Clouds Under Meiyu Frontal Weather Background Over Central China Based on Aircraft Observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD031915	4.4	5
62	Thicker Clouds and Accelerated Arctic Sea Ice Decline: The Atmosphere-Sea Ice Interactions in Spring. <i>Geophysical Research Letters</i> , 2019 , 46, 6980-6989	4.9	23
61	Understanding Ice Cloud-Precipitation Properties of Three Modes of Mesoscale Convective Systems During PECAN. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 4121-4140	4.4	6
60	A Regime-Based Evaluation of Southern and Northern Great Plains Warm-Season Precipitation Events in WRF. <i>Weather and Forecasting</i> , 2019 , 34, 805-831	2.1	8
59	A global record of single-layered ice cloud properties and associated radiative heating rate profiles from an A-Train perspective. <i>Climate Dynamics</i> , 2019 , 53, 3069-3088	4.2	4
58	Estimation of liquid water path below the melting layer in stratiform precipitation systems using radar measurements during MC3E. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 3743-3759	4	3
57	A survey of the atmospheric physical processes key to the onset of Arctic sea ice melt in spring. <i>Climate Dynamics</i> , 2019 , 52, 4907-4922	4.2	9
56	Comparisons of Ice Water Path in Deep Convective Systems Among Ground-Based, GOES, and CERES-MODIS Retrievals. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 1708-1723	4.4	11
55	Aerosol properties and their impacts on surface CCN at the ARM Southern Great Plains site during the 2011 Midlatitude Continental Convective Clouds Experiment. <i>Advances in Atmospheric Sciences</i> , 2018 , 35, 224-233	2.9	13
54	Comparison of Daytime Low-Level Cloud Properties Derived From GOES and ARM SGP Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 8221	4.4	5
53	Evaluation of autoconversion and accretion enhancement factors in general circulation model warm-rain parameterizations using ground-based measurements over the Azores. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 17405-17420	6.8	15
52	Influence of Wind Direction on Thermodynamic Properties and Arctic Mixed-Phase Clouds in Autumn at Utqiaġik, Alaska. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 9589-9603	4.4	4
51	Investigation of Liquid Cloud Microphysical Properties of Deep Convective Systems: 2. Parameterization of Raindrop Size Distribution and its Application for Convective Rain Estimation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 11,637-11,651	4.4	7
50	Using AIRS and ARM SGP Clear-Sky Observations to Evaluate Meteorological Reanalyses: A Hyperspectral Radiance Closure Approach. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 11,720-11,734	4.4	2
49	Evaluation of NASA GISS post-CMIP5 single column model simulated clouds and precipitation using ARM Southern Great Plains observations. <i>Advances in Atmospheric Sciences</i> , 2017 , 34, 306-320	2.9	5
48	Inter-comparisons of marine boundary layer cloud properties from the ARM CAP-MBL campaign and two MODIS cloud products. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , Volume 122, 2351-2365	4.4	12
47	The footprints of 16 year trends of Arctic springtime cloud and radiation properties on September sea ice retreat. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 2179-2193	4.4	13

46	Effects of environment forcing on marine boundary layer cloud-drizzle processes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 4463-4478	4.4	12
45	Quantifying the Uncertainties of Reanalyzed Arctic Cloud and Radiation Properties Using Satellite Surface Observations. <i>Journal of Climate</i> , 2017 , 30, 8007-8029	4.4	24
44	Evaluation of Reanalyzed Precipitation Variability and Trends Using the Gridded Gauge-Based Analysis over the CONUS. <i>Journal of Hydrometeorology</i> , 2017 , 18, 2227-2248	3.7	12
43	Evaluation and intercomparison of clouds, precipitation, and radiation budgets in recent reanalyses using satellite-surface observations. <i>Climate Dynamics</i> , 2016 , 46, 2123-2144	4.2	39
42	Investigation of liquid cloud microphysical properties of deep convective systems: 1. Parameterization raindrop size distribution and its application for stratiform rain estimation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 10,739	4.4	17
41	Determining the Best Method for Estimating the Observed Level of Maximum Detrainment Based on Radar Reflectivity. <i>Monthly Weather Review</i> , 2016 , 144, 2915-2926	2.4	4
40	A quantitative assessment of precipitation associated with the ITCZ in the CMIP5 GCM simulations. <i>Climate Dynamics</i> , 2016 , 47, 1863-1880	4.2	26
39	Cloud fraction at the ARM SGP site: reducing uncertainty with self-organizing maps. <i>Theoretical and Applied Climatology</i> , 2016 , 124, 43-54	3	11
38	Improving Satellite Quantitative Precipitation Estimation Using GOES-Retrieved Cloud Optical Depth. <i>Journal of Hydrometeorology</i> , 2016 , 17, 557-570	3.7	14
37	Comparison of the GPCP 1DD Precipitation Product and NEXRAD Q2 Precipitation Estimates over the Continental United States. <i>Journal of Hydrometeorology</i> , 2016 , 17, 1837-1853	3.7	4
36	A clear-sky radiation closure study using a one-dimensional radiative transfer model and collocated satellite-surface-reanalysis data sets. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 13,698-13,714 ³	4.4	13
35	Retrievals of ice cloud microphysical properties of deep convective systems using radar measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 10,820	4.4	10
34	A radiation closure study of Arctic stratus cloud microphysical properties using the collocated satellite-surface data and Fu-Liou radiative transfer model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 10,175-10,198	4.4	12
33	Assessment of NASA GISS CMIP5 and Post-CMIP5 Simulated Clouds and TOA Radiation Budgets Using Satellite Observations. Part II: TOA Radiation Budget and CREs. <i>Journal of Climate</i> , 2015 , 28, 1842-1864	4.4	15
32	Evaluation of CMIP5 simulated clouds and TOA radiation budgets using NASA satellite observations. <i>Climate Dynamics</i> , 2015 , 44, 2229-2247	4.2	71
31	Investigation of ice cloud microphysical properties of DCSs using aircraft in situ measurements during MC3E over the ARM SGP site. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 3533-3552	4.4	24
30	Comparison of atmospheric profiles between microwave radiometer retrievals and radiosonde soundings. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 10,313	4.4	25
29	Investigation of the marine boundary layer cloud and CCN properties under coupled and decoupled conditions over the Azores. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 6179-6191	4.4	24

28	Characterizing Arctic mixed-phase cloud structure and its relationship with humidity and temperature inversion using ARM NSA observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 7737-7746	4.4	14
27	Marine boundary layer drizzle properties and their impact on cloud property retrieval. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 3555-3562	4	13
26	Critical mechanisms for the formation of extreme arctic sea-ice extent in the summers of 2007 and 1996. <i>Climate Dynamics</i> , 2014 , 43, 53-70	4.2	15
25	Comparison of marine boundary layer cloud properties from CERES-MODIS Edition 4 and DOE ARM AMF measurements at the Azores. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 9509-9529	4.4	20
24	Aerosol properties and their influences on marine boundary layer cloud condensation nuclei at the ARM mobile facility over the Azores. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 4859-4872	4.4	33
23	Assessment of NASA GISS CMIP5 and Post-CMIP5 Simulated Clouds and TOA Radiation Budgets Using Satellite Observations. Part I: Cloud Fraction and Properties. <i>Journal of Climate</i> , 2014 , 27, 4189-4208	4.4	37
22	Investigation of the Diurnal Variation of Marine Boundary Layer Cloud Microphysical Properties at the Azores. <i>Journal of Climate</i> , 2014 , 27, 8827-8835	4.4	25
21	Assessment of SCA-MPR and NEXRAD Q2 Precipitation Estimates Using Oklahoma Mesonet Observations. <i>Journal of Hydrometeorology</i> , 2014 , 15, 2484-2500	3.7	11
20	Cloud fraction at the ARM SGP site. <i>Theoretical and Applied Climatology</i> , 2014 , 115, 91-105	3	14
19	A 19-Month Record of Marine Aerosol Cloud Radiation Properties Derived from DOE ARM Mobile Facility Deployment at the Azores. Part I: Cloud Fraction and Single-Layered MBL Cloud Properties. <i>Journal of Climate</i> , 2014 , 27, 3665-3682	4.4	40
18	Impacts of microphysical scheme on convective and stratiform characteristics in two high precipitation squall line events. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 11,119-11,135	4.4	39
17	A Comparison of the Mineral Dust Absorptive Properties between Two Asian Dust Events. <i>Atmosphere</i> , 2013 , 4, 1-16	2.7	7
16	Evaluation and Intercomparison of Cloud Fraction and Radiative Fluxes in Recent Reanalyses over the Arctic Using BSRN Surface Observations. <i>Journal of Climate</i> , 2012 , 25, 2291-2305	4.4	76
15	Life cycle of midlatitude deep convective systems in a Lagrangian framework. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		47
14	Investigation of the 2006 drought and 2007 flood extremes at the Southern Great Plains through an integrative analysis of observations. <i>Journal of Geophysical Research</i> , 2011 , 116,		54
13	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011 , 49, 4401-4430	8.1	95
12	Top-of-atmosphere radiation budget of convective core/stratiform rain and anvil clouds from deep convective systems. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		47
11	A Comparison of MERRA and NARR Reanalyses with the DOE ARM SGP Data. <i>Journal of Climate</i> , 2011 , 24, 4541-4557	4.4	115

10	Evaluation of the NASA GISS Single-Column Model Simulated Clouds Using Combined Surface and Satellite Observations. <i>Journal of Climate</i> , 2010 , 23, 5175-5192	4.4	24
9	A 10 year climatology of cloud fraction and vertical distribution derived from both surface and GOES observations over the DOE ARM SPG site. <i>Journal of Geophysical Research</i> , 2010 , 115,		61
8	A 10 year climatology of Arctic cloud fraction and radiative forcing at Barrow, Alaska. <i>Journal of Geophysical Research</i> , 2010 , 115,		113
7	A study of Asian dust plumes using satellite, surface, and aircraft measurements during the INTEX-B field experiment. <i>Journal of Geophysical Research</i> , 2010 , 115,		26
6	A Method to Merge WSR-88D Data with ARM SGP Millimeter Cloud Radar Data by Studying Deep Convective Systems. <i>Journal of Atmospheric and Oceanic Technology</i> , 2009 , 26, 958-971	2	10
5	Comparison of CERES-MODIS stratus cloud properties with ground-based measurements at the DOE ARM Southern Great Plains site. <i>Journal of Geophysical Research</i> , 2008 , 113,		77
4	Using observations of deep convective systems to constrain atmospheric column absorption of solar radiation in the optically thick limit. <i>Journal of Geophysical Research</i> , 2008 , 113,		14
3	A Climatology of Midlatitude Continental Clouds from the ARM SGP Central Facility. Part II: Cloud Fraction and Surface Radiative Forcing. <i>Journal of Climate</i> , 2006 , 19, 1765-1783	4.4	93
2	Observational evidence of changes in water vapor, clouds, and radiation at the ARM SGP site. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	11
1	A Climatology of Midlatitude Continental Clouds from the ARM SGP Central Facility: Part I: Low-Level Cloud Macrophysical, Microphysical, and Radiative Properties. <i>Journal of Climate</i> , 2005 , 18, 1391-1410	4.4	66