# Baike Xi

## List of Publications by Year in descending order

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|---|---|---|---|
| 84 papers | 2,333 citations | 249298 26 h-index | 274796 44 g-index |
| 99 all docs | 99 docs citations | 99 times ranked | 2937 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A 10 year climatology of Arctic cloud fraction and radiative forcing at Barrow, Alaska. Journal of Geophysical Research, 2010, 115, . | 3.3 | 142 |
| 2 | A Comparison of MERRA and NARR Reanalyses with the DOE ARM SGP Data. Journal of Climate, 2011, 24, 4541-4557. | 1.2 | 124 |
| 3 | CERES Edition-2 Cloud Property Retrievals Using TRMM VIRS and Terra and Aqua MODIS Dataâ€”Part II: Examples of Average Results and Comparisons With Other Data. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 4401-4430. | 2.7 | 123 |
| 4 | A Climatology of Midlatitude Continental Clouds from the ARM SGP Central Facility. Part II: Cloud Fraction and Surface Radiative Forcing. Journal of Climate, 2006, 19, 1765-1783. | 1.2 | 104 |
| 5 | Evaluation of CMIP5 simulated clouds and TOA radiation budgets using NASA satellite observations. Climate Dynamics, 2015, 44, 2229-2247. | 1.7 | 91 |
| 6 | Evaluation and Intercomparison of Cloud Fraction and Radiative Fluxes in Recent Reanalyses over the Arctic Using BSRN Surface Observations. Journal of Climate, 2012, 25, 2291-2305. | 1.2 | 82 |
| 7 | Comparison of CERESâ€MODIS stratus cloud properties with groundâ€based measurements at the DOE ARM Southern Great Plains site. Journal of Geophysical Research, 2008, 113, . | 3.3 | 80 |
| 8 | A Climatology of Midlatitude Continental Clouds from the ARM SGP Central Facility: Part I: Low-Level Cloud Macrophysical, Microphysical, and Radiative Properties. Journal of Climate, 2005, 18, 1391-1410. | 1.2 | 76 |
| 9 | A 10 year climatology of cloud fraction and vertical distribution derived from both surface and GOES observations over the DOE ARM SPG site. Journal of Geophysical Research, 2010, 115, . | 3.3 | 71 |
| 10 | Investigation of the 2006 drought and 2007 flood extremes at the Southern Great Plains through an integrative analysis of observations. Journal of Geophysical Research, 2011, 116, . | 3.3 | 64 |
| 11 | Life cycle of midlatitude deep convective systems in a Lagrangian framework. Journal of Geophysical Research, 2012, 117, . | 3.3 | 61 |
| 12 | Can the GPM IMERG Final Product Accurately Represent MCSsâ€™ Precipitation Characteristics over the Central and Eastern United States?. Journal of Hydrometeorology, 2020, 21, 39-57. | 0.7 | 57 |
| 13 | Top-of-atmosphere radiation budget of convective core/stratiform rain and anvil clouds from deep convective systems. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 56 |
| 14 | A 19-Month Record of Marine Aerosolâ€“Cloudâ€“Radiation Properties Derived from DOE ARM Mobile Facility Deployment at the Azores. Part I: Cloud Fraction and Single-Layered MBL Cloud Properties. Journal of Climate, 2014, 27, 3665-3682. | 1.2 | 56 |
| 15 | Impacts of microphysical scheme on convective and stratiform characteristics in two high precipitation squall line events. Journal of Geophysical Research D: Atmospheres, 2013, 118, 11,119. | 1.2 | 49 |
| 16 | Thicker Clouds and Accelerated Arctic Sea Ice Decline: The Atmosphereâ€Sea Ice Interactions in Spring. Geophysical Research Letters, 2019, 46, 6980-6989. | 1.5 | 47 |
| 17 | Evaluation and intercomparison of clouds, precipitation, and radiation budgets in recent reanalyses using satellite-surface observations. Climate Dynamics, 2016, 46, 2123-2144. | 1.7 | 45 |
| 18 | Aerosol properties and their influences on marine boundary layer cloud condensation nuclei at the ARM mobile facility over the Azores. Journal of Geophysical Research D: Atmospheres, 2014, 119, 4859-4872. | 1.2 | 43 |

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|---|---|---|---|
| 19 | Assessment of NASA GISS CMIP5 and Post-CMIP5 Simulated Clouds and TOA Radiation Budgets Using Satellite Observations. Part I: Cloud Fraction and Properties. Journal of Climate, 2014, 27, 4189-4208. | 1.2 | 39 |
| 20 | Comparison of atmospheric profiles between microwave radiometer retrievals and radiosonde soundings. Journal of Geophysical Research D: Atmospheres, 2015, 120, 10,313. | 1.2 | 38 |
| 21 | Investigation of the marine boundary layer cloud and CCN properties under coupled and decoupled conditions over the Azores. Journal of Geophysical Research D: Atmospheres, 2015, 120, 6179-6191. | 1.2 | 37 |
| 22 | A quantitative assessment of precipitation associated with the ITCZ in the CMIP5 GCM simulations. Climate Dynamics, 2016, 47, 1863-1880. | 1.7 | 33 |
| 23 | Investigation of the Diurnal Variation of Marine Boundary Layer Cloud Microphysical Properties at the Azores. Journal of Climate, 2014, 27, 8827-8835. | 1.2 | 31 |
| 24 | Quantifying the Uncertainties of Reanalyzed Arctic Cloud and Radiation Properties Using Satellite Surface Observations. Journal of Climate, 2017, 30, 8007-8029. | 1.2 | 31 |
| 25 | Investigation of ice cloud microphysical properties of DCSs using aircraft in situ measurements during MC3E over the ARM SGP site. Journal of Geophysical Research D: Atmospheres, 2015, 120, 3533-3552. | 1.2 | 28 |
| 26 | Evaluation of the NASA GISS Single-Column Model Simulated Clouds Using Combined Surface and Satellite Observations. Journal of Climate, 2010, 23, 5175-5192. | 1.2 | 27 |
| 27 | A study of Asian dust plumes using satellite, surface, and aircraft measurements during the INTEXâ€B field experiment. Journal of Geophysical Research, 2010, 115, . | 3.3 | 27 |
| 28 | Profiles of MBL Cloud and Drizzle Microphysical Properties Retrieved From Groundâ€Based Observations and Validated by Aircraft In Situ Measurements Over the Azores. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD032205. | 1.2 | 26 |
| 29 | Comparison of marine boundary layer cloud properties from CERESâ€MODIS Edition 4 and DOE ARM AMF measurements at the Azores. Journal of Geophysical Research D: Atmospheres, 2014, 119, 9509-9529. | 1.2 | 22 |
| 30 | Assessment of NASA GISS CMIP5 and Post-CMIP5 Simulated Clouds and TOA Radiation Budgets Using Satellite Observations. Part II: TOA Radiation Budget and CREs. Journal of Climate, 2015, 28, 1842-1864. | 1.2 | 21 |
| 31 | Evaluation of autoconversion and accretion enhancement factors in general circulation model warm-rain parameterizations using ground-based measurements over the Azores. Atmospheric Chemistry and Physics, 2018, 18, 17405-17420. | 1.9 | 21 |
| 32 | Impacts of long-range transport of aerosols on marine-boundary-layer clouds in the eastern North Atlantic. Atmospheric Chemistry and Physics, 2020, 20, 14741-14755. | 1.9 | 21 |
| 33 | The footprints of 16â€‰year trends of Arctic springtime cloud and radiation properties on September sea ice retreat. Journal of Geophysical Research D: Atmospheres, 2017, 122, 2179-2193. | 1.2 | 20 |
| 34 | Cloud and Precipitation Properties of MCSs Along the Meiyu Frontal Zone in Central and Southern China and Their Associated Largeâ€Scale Environments. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031601. | 1.2 | 20 |
| 35 | Marine boundary layer drizzle properties and their impact on cloud property retrieval. Atmospheric Measurement Techniques, 2015, 8, 3555-3562. | 1.2 | 19 |
| 36 | Statistical Characteristics of Raindrop Size Distributions and Parameters in Central China During the Meiyu Seasons. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031954. | 1.2 | 19 |

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| 37 | Characterizing Arctic mixedâ€phase cloud structure and its relationship with humidity and temperature inversion using ARM NSA observations. Journal of Geophysical Research D: Atmospheres, 2015, 120, 7737-7746. | 1.2 | 18 |
| 38 | Investigation of liquid cloud microphysical properties of deep convective systems: 1. Parameterization raindrop size distribution and its application for stratiform rain estimation. Journal of Geophysical Research D: Atmospheres, 2016, 121, 10,739. | 1.2 | 18 |
| 39 | Evaluation of Reanalyzed Precipitation Variability and Trends Using the Gridded Gauge-Based Analysis over the CONUS. Journal of Hydrometeorology, 2017, 18, 2227-2248. | 0.7 | 18 |
| 40 | Investigation of aerosolâ€“cloud interactions under different absorptive aerosol regimes using Atmospheric Radiation Measurement (ARM) southern Great Plains (SGP) ground-based measurements. Atmospheric Chemistry and Physics, 2020, 20, 3483-3501. | 1.9 | 18 |
| 41 | Summertime low clouds mediate the impact of the large-scale circulation on Arctic sea ice. Communications Earth & Environment, 2021, 2, . | 2.6 | 18 |
| 42 | Retrievals of ice cloud microphysical properties of deep convective systems using radar measurements. Journal of Geophysical Research D: Atmospheres, 2016, 121, 10,820. | 1.2 | 16 |
| 43 | Intercomparisons of marine boundary layer cloud properties from the ARM CAPâ€MBL campaign and two MODIS cloud products. Journal of Geophysical Research D: Atmospheres, 2017, 122, 2351-2365. | 1.2 | 16 |
| 44 | Vertical Distributions of Raindrops and Zâ€R Relationships Using Microrain Radar and 2â€Dâ€Video Distrometer Measurements During the Integrative Monsoon Frontal Rainfall Experiment (IMFRE). Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031108. | 1.2 | 16 |
| 45 | Cloud fraction at the ARM SGP site. Theoretical and Applied Climatology, 2014, 115, 91-105. | 1.3 | 15 |
| 46 | Critical mechanisms for the formation of extreme arctic sea-ice extent in the summers of 2007 and 1996. Climate Dynamics, 2014, 43, 53-70. | 1.7 | 15 |
| 47 | Improving Satellite Quantitative Precipitation Estimation Using GOES-Retrieved Cloud Optical Depth. Journal of Hydrometeorology, 2016, 17, 557-570. | 0.7 | 15 |
| 48 | Effects of environment forcing on marine boundary layer cloudâ€drizzle processes. Journal of Geophysical Research D: Atmospheres, 2017, 122, 4463-4478. | 1.2 | 15 |
| 49 | Comparisons of Ice Water Path in Deep Convective Systems Among Groundâ€Based, GOES, and CERESâ€MODIS Retrievals. Journal of Geophysical Research D: Atmospheres, 2018, 123, 1708-1723. | 1.2 | 15 |
| 50 | A Regime-Based Evaluation of Southern and Northern Great Plains Warm-Season Precipitation Events in WRF. Weather and Forecasting, 2019, 34, 805-831. | 0.5 | 15 |
| 51 | Using observations of deep convective systems to constrain atmospheric column absorption of solar radiation in the optically thick limit. Journal of Geophysical Research, 2008, 113, . | 3.3 | 14 |
| 52 | A radiation closure study of Arctic stratus cloud microphysical properties using the collocated satellite-surface data and Fu-Liou radiative transfer model. Journal of Geophysical Research D: Atmospheres, 2016, 121, 10,175-10,198. | 1.2 | 14 |
| 53 | Aerosol properties and their impacts on surface CCN at the ARM Southern Great Plains site during the 2011 Midlatitude Continental Convective Clouds Experiment. Advances in Atmospheric Sciences, 2018, 35, 224-233. | 1.9 | 14 |
| 54 | A survey of the atmospheric physical processes key to the onset of Arctic sea ice melt in spring. Climate Dynamics, 2019, 52, 4907-4922. | 1.7 | 13 |

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| 55 | A Climatology of Marine Boundary Layer Cloud and Drizzle Properties Derived from Ground-Based Observations over the Azores. Journal of Climate, 2020, 33, 10133-10148. | 1.2 | 13 |
| 56 | Assessment of SCaMPR and NEXRAD Q2 Precipitation Estimates Using Oklahoma Mesonet Observations. Journal of Hydrometeorology, 2014, 15, 2484-2500. | 0.7 | 12 |
| 57 | Cloud fraction at the ARM SGP site: reducing uncertainty with self-organizing maps. Theoretical and Applied Climatology, 2016, 124, 43-54. | 1.3 | 12 |
| 58 | 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. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032456. | 1.2 | 12 |
| 59 | Observational evidence of changes in water vapor, clouds, and radiation at the ARM SGP site. Geophysical Research Letters, 2006, 33, . | 1.5 | 11 |
| 60 | A Method to Merge WSR-88D Data with ARM SGP Millimeter Cloud Radar Data by Studying Deep Convective Systems. Journal of Atmospheric and Oceanic Technology, 2009, 26, 958-971. | 0.5 | 11 |
| 61 | Environmental effects on aerosolâ€“cloud interaction in non-precipitating marine boundary layer (MBL) clouds over the eastern North Atlantic. Atmospheric Chemistry and Physics, 2022, 22, 335-354. | 1.9 | 11 |
| 62 | Understanding Ice Cloudâ€Precipitation Properties of Three Modes of Mesoscale Convective Systems During PECAN. Journal of Geophysical Research D: Atmospheres, 2019, 124, 4121-4140. | 1.2 | 10 |
| 63 | Retrieving high-resolution surface photosynthetically active radiation from the MODIS and GOES-16 ABI data. Remote Sensing of Environment, 2021, 260, 112436. | 4.6 | 10 |
| 64 | Spatial Distribution and Impacts of Aerosols on Clouds Under Meiyu Frontal Weather Background Over Central China Based on Aircraft Observations. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031915. | 1.2 | 9 |
| 65 | A Comparison of the Mineral Dust Absorptive Properties between Two Asian Dust Events. Atmosphere, 2013, 4, 1-16. | 1.0 | 8 |
| 66 | Evaluation of NASA GISS post-CMIP5 single column model simulated clouds and precipitation using ARM Southern Great Plains observations. Advances in Atmospheric Sciences, 2017, 34, 306-320. | 1.9 | 8 |
| 67 | Investigation of Liquid Cloud Microphysical Properties of Deep Convective Systems: 2. Parameterization of Raindrop Size Distribution and its Application for Convective Rain Estimation. Journal of Geophysical Research D: Atmospheres, 2018, 123, 11,637. | 1.2 | 8 |
| 68 | The climate response to increased cloud liquid water over the Arctic in CESM1: a sensitivity study of Wegenerâ€“Bergeronâ€“Findeisen process. Climate Dynamics, 2021, 56, 3373-3394. | 1.7 | 8 |
| 69 | A global record of single-layered ice cloud properties and associated radiative heating rate profiles from an A-Train perspective. Climate Dynamics, 2019, 53, 3069-3088. | 1.7 | 7 |
| 70 | Influence of Wind Direction on Thermodynamic Properties and Arctic Mixedâ€Phase Clouds in Autumn at UtqiaÄ¡vik, Alaska. Journal of Geophysical Research D: Atmospheres, 2018, 123, 9589-9603. | 1.2 | 6 |
| 71 | Comparison of Daytime Lowâ€Level Cloud Properties Derived From GOES and ARM SGP Measurements. Journal of Geophysical Research D: Atmospheres, 2018, 123, 8221-8237. | 1.2 | 6 |
| 72 | New Observational Constraints on Warm Rain Processes and Their Climate Implications. Geophysical Research Letters, 2021, 48, e2020GL091836. | 1.5 | 6 |

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| 73 | A clearâ€sky radiation closure study using a oneâ€dimensional radiative transfer model and collocated satelliteâ€surfaceâ€reanalysis data sets. Journal of Geophysical Research D: Atmospheres, 2016, 121, 13,698. | 1.2 | 5 |
| 74 | Estimation of liquid water path below the melting layer in stratiform precipitation systems using radar measurements during MC3E. Atmospheric Measurement Techniques, 2019, 12, 3743-3759. | 1.2 | 5 |
| 75 | Comparison of the GPCP 1DD Precipitation Product and NEXRAD Q2 Precipitation Estimates over the Continental United States. Journal of Hydrometeorology, 2016, 17, 1837-1853. | 0.7 | 4 |
| 76 | Determining the Best Method for Estimating the Observed Level of Maximum Detrainment Based on Radar Reflectivity. Monthly Weather Review, 2016, 144, 2915-2926. | 0.5 | 4 |
| 77 | Using AIRS and ARM SGP Clearâ€Sky Observations to Evaluate Meteorological Reanalyses: A Hyperspectral Radiance Closure Approach. Journal of Geophysical Research D: Atmospheres, 2018, 123, 11,720. | 1.2 | 3 |
| 78 | Characteristics of Ice Cloudâ€“Precipitation of Warm Season Mesoscale Convective Systems over the Great Plains. Journal of Hydrometeorology, 2020, 21, 317-334. | 0.7 | 2 |
| 79 | Integrative Monsoon Frontal Rainfall Experiment (IMFRE-I): A Mid-Term Review. Advances in Atmospheric Sciences, 2021, 38, 357-374. | 1.9 | 2 |
| 80 | Maritime Cloud and Drizzle Microphysical Properties Retrieved From Shipâ€Based Observations During MAGIC. Earth and Space Science, 2021, 8, e2020EA001588. | 1.1 | 2 |
| 81 | Correction to â€œA 10 year climatology of cloud fraction and vertical distribution derived from both surface and GOES observations over the DOE ARM SPG siteâ€. Journal of Geophysical Research, 2010, 115, . | 3.3 | 1 |
| 82 | Quantifying Longâ€Term Seasonal and Regional Impacts of North American Fire Activity on Continental Boundary Layer Aerosols and Cloud Condensation Nuclei. Earth and Space Science, 2020, 7, e2020EA001113. | 1.1 | 1 |
| 83 | Cloud phase and macrophysical properties over the Southern Ocean during the MARCUS field campaign. Atmospheric Measurement Techniques, 2022, 15, 3761-3777. | 1.2 | 1 |
| 84 | Maritime Aerosol and CCN Profiles Derived From Shipâ€Based Measurements Over Eastern North Pacific During MAGIC. Earth and Space Science, 2022, 9, . | 1.1 | 0 |