Qinghong Zhang

List of Publications by Year
in descending order

55 papers	1,145 citations	394421 19 h-index	434195 31 g-index
57 all docs	57 docs citations	57 times ranked	811 citing authors

#	Article	IF	Citations
1	Numerical Simulations of Spatial Distributions and Diurnal Variations of Low-Level Jets in China during Early Summer. Journal of Climate, 2014, 27, 5747-5767.	3.2	96
2	Climatology of Hail in China: 1961–2005. Journal of Applied Meteorology and Climatology, 2008, 47, 795-804.	1.5	76
3	Trends in hail in China during 1960–2005. Geophysical Research Letters, 2008, 35, .	4.0	58
4	Understanding Hail in the Earth System. Reviews of Geophysics, 2020, 58, e2019RG000665.	23.0	58
5	The effects of climate change on hailstorms. Nature Reviews Earth & Environment, 2021, 2, 213-226.	29.7	57
6	Decreasing trend in severe weather occurrence over China during the past 50 years. Scientific Reports, 2017, 7, 42310.	3.3	52
7	Characteristics of Low-level Jets in Shanghai during the 2008-2009 Warm Seasons as Inferred from Wind Profiler Radar Data. Journal of the Meteorological Society of Japan, 2012, 90, 891-903.	1.8	46
8	Hail Day Frequency Trends and Associated Atmospheric Circulation Patterns over China during 1960–2012. Journal of Climate, 2016, 29, 7027-7044.	3.2	46
9	Observed Characteristics of Hail Size in Four Regions in China during 1980–2005. Journal of Climate, 2010, 23, 4973-4982.	3.2	45
10	Numerical Simulations of the Boundary Layer Jet off the Southeastern Coast of China. Monthly Weather Review, 2015, 143, 1212-1231.	1.4	40
11	On the Detection of Hail Using Satellite Passive Microwave Radiometers and Precipitation Radar. Journal of Applied Meteorology and Climatology, 2017, 56, 2693-2709.	1.5	40
12	2021: A Year of Unprecedented Climate Extremes in Eastern Asia, North America, and Europe. Advances in Atmospheric Sciences, 2022, 39, 1598-1607.	4.3	31
13	Climatology of Hail Frequency and Size in China, 1980–2015. Journal of Applied Meteorology and Climatology, 2018, 57, 875-887.	1.5	28
14	Objective analysis of circulation extremes during the 21 July 2012 torrential rain in Beijing. Journal of Meteorological Research, 2013, 27, 626-635.	1.0	27
15	Characteristics of mesoscale convective systems in central East China and their reliance on atmospheric circulation patterns. International Journal of Climatology, 2017, 37, 3276-3290.	3.5	26
16	Observing Strategy and Observation Targeting for Tropical Cyclones Using Ensemble-Based Sensitivity Analysis and Data Assimilation. Monthly Weather Review, 2013, 141, 1437-1453.	1.4	25
17	Increasing the value of weather-related warnings. Science Bulletin, 2019, 64, 647-649.	9.0	25
18	Influence of Synoptic Pattern and Low-Level Wind Speed on Intensity and Diurnal Variations of Orographic Convection in Summer Over Pearl River Delta, South China. Journal of Geophysical Research D: Atmospheres, 2019, 124, 6157-6179.	3.3	23

#	ARTICLE	IF	CITATIONS
19	The role of initial cloud condensation nuclei concentration in hail using the WRF NSSL 2-moment microphysics scheme. Advances in Atmospheric Sciences, 2017, 34, 1106-1120.	4.3	22
20	Initiation and Evolution of Elevated Convection in a Nocturnal Squall Line Along the Meiyu Front. Journal of Geophysical Research D: Atmospheres, 2018, 123, 7292-7310.	3.3	22
21	A Modeling Study on Tropical Cyclone Structural Changes in Response to Ambient Moisture Variations. Journal of the Meteorological Society of Japan, 2012, 90, 755-770.	1.8	21
22	Advances in low-level jet research and future prospects. Journal of Meteorological Research, 2014, 28, 57-75.	1.0	19
23	Predictability of an Advection Fog Event over North China. Part I: Sensitivity to Initial Condition Differences. Monthly Weather Review, 2014, 142, 1803-1822.	1.4	18
24	Responses of Hail and Storm Days to Climate Change in the Tibetan Plateau. Geophysical Research Letters, 2018, 45, 4485-4493.	4.0	18
25	Association between ambient temperature and childhood respiratory hospital visits in Beijing, China: a time-series study (2013â€"2017). Environmental Science and Pollution Research, 2021, 28, 29445-29454.	5.3	18
26	Decreased hail size in China since 1980. Scientific Reports, 2017, 7, 10913.	3.3	17
27	Impact of landfalling tropical cyclones in mainland China. Science China Earth Sciences, 2010, 53, 1559-1564.	5.2	15
28	The contribution of mesoscale convective systems to intense hourly precipitation events during the warm seasons over central East China. Advances in Atmospheric Sciences, 2016, 33, 1233-1239.	4.3	14
29	A Statistical Analysis of Hail Events and Their Environmental Conditions in China during 2008â€"15. Journal of Applied Meteorology and Climatology, 2018, 57, 2817-2833.	1.5	14
30	Changes in Hourly Extreme Precipitation Over Eastern China From 1970 to 2019 Dominated by Synopticâ€Scale Precipitation. Geophysical Research Letters, 2021, 48, e2020GL090620.	4.0	14
31	Assessing the Impact of Surface and Wind Profiler Data on Fog Forecasting Using WRF 3DVAR: An OSSE Study on a Dense Fog Event over North China. Journal of Applied Meteorology and Climatology, 2017, 56, 1059-1081.	1.5	13
32	Initiation of an Elevated Mesoscale Convective System With the Influence of Complex Terrain During Meiyu Season. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033416.	3.3	10
33	Properties of hail storms over China and the United States from the Tropical Rainfall Measuring Mission. Journal of Geophysical Research D: Atmospheres, 2016, 121, 12031-12044.	3.3	9
34	Impacts of the North Atlantic subtropical high on interannual variation of summertime heat stress over the conterminous United States. Climate Dynamics, 2019, 53, 3345-3359.	3.8	8
35	Characteristics of Coastal Lowâ€Level Jets Over Beibu Gulf, China, During the Early Warm Season. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031918.	3.3	8
36	Smartphone pressure data: quality control and impact on atmospheric analysis. Atmospheric Measurement Techniques, 2021, 14, 785-801.	3.1	8

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37	How Many Types of Severe Hailstorm Environments Are There Globally?. Geophysical Research Letters, 2021, 48, e2021GL095485.	4.0	8
38	Climatology and trends of tropical cyclone high wind in mainland China: 1959â€"2011. Journal of Geophysical Research D: Atmospheres, 2015, 120, 12378-12393.	3.3	7
39	Nonlinear response of hail precipitation rate to environmental moisture content: A real case modeling study of an episodic midlatitude severe convective event. Journal of Geophysical Research D: Atmospheres, 2017, 122, 6729-6747.	3.3	7
40	Characteristics of Coastal Lowâ€Level Jets in the Bohai Sea, China, During the Early Warm Season. Journal of Geophysical Research D: Atmospheres, 2018, 123, 13,763.	3.3	7
41	Lessons Learned from the Tragedy during the 100 km Ultramarathon Race in Baiyin, Gansu Province on 22 May 2021. Advances in Atmospheric Sciences, 2021, 38, 1803-1810.	4.3	7
42	Contribution of Thunderstorms to Changes in Hourly Extreme Precipitation over China from 1980 to 2011. Journal of Climate, 2022, 35, 4485-4498.	3.2	7
43	Water-soluble ions in hailstones in northern and southwestern China. Science Bulletin, 2018, 63, 1177-1179.	9.0	6
44	Near-equatorial typhoon development: Climatology and numerical simulations. Advances in Atmospheric Sciences, 2010, 27, 1014-1024.	4.3	5
45	Notable Contributions of Aerosols to the Predictability of Hail Precipitation. Geophysical Research Letters, 2021, 48, e2020GL091712.	4.0	5
46	Comparison of Lightning Detection Between the FYâ€4A Lightning Mapping Imager and the ISS Lightning Imaging Sensor. Earth and Space Science, 2021, 8, e2020EA001099.	2.6	5
47	Sensitivity of Hail Precipitation to Ensembles of Uncertainties of Representative Initial Environmental Conditions From ECMWF. Journal of Geophysical Research D: Atmospheres, 2019, 124, 6929.	3.3	4
48	A Climatology and Extreme Value Analysis of Large Hail in China. Monthly Weather Review, 2020, 148, 1431-1447.	1.4	4
49	Chemical composition of a hailstone: evidence for tracking hailstone trajectory in deep convection. Science Bulletin, 2020, 65, 1337-1339.	9.0	2
50	Features of ocean surface winds observed by the QuikSCAT satellite before tropical cyclogenesis over the South China Sea. Journal of Ocean University of China, 2008, 7, 241-245.	1.2	1
51	Computational properties of vertical grids for a nonhydrostatic anelastic model. International Journal of Computational Fluid Dynamics, 2008, 22, 193-200.	1.2	1
52	Impact of high-frequency observations on fog forecasting: a case study of OSSE. Tellus, Series A: Dynamic Meteorology and Oceanography, 2017, 69, 1396182.	1.7	1
53	Effects of weather conditions on the public demand for weather information via smartphone in multiple regions of China. Weather, Climate, and Society, 2022, , .	1.1	1
54	A four-dimensional variational system for skillful operational prediction of convective storms. Advances in Atmospheric Sciences, 2016, 33, 1102-1103.	4.3	0

#	ARTICLE	IF	CITATIONS
55	Model Predictability of Hail Precipitation with a Moderate Hailstorm Case: Part I. Impact of Improved Initial Condition by Assimilating High-Density Observations. Monthly Weather Review, 2022, , .	1.4	0