

# Zhihong Jiang

## List of Publications by Year in descending order

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84  
papers

3,232  
citations

159585

30  
h-index

168389

53  
g-index

85  
all docs

85  
docs citations

85  
times ranked

2782  
citing authors

#	ARTICLE	IF	CITATIONS
1	Can Global Warming Strengthen the East Asian Summer Monsoon?. Journal of Climate, 2010, 23, 6696-6705.	3.2	233
2	Extreme Precipitation Indices over China in CMIP5 Models. Part I: Model Evaluation. Journal of Climate, 2015, 28, 8603-8619.	3.2	207
3	Does CMIP6 Inspire More Confidence in Simulating Climate Extremes over China?. Advances in Atmospheric Sciences, 2020, 37, 1119-1132.	4.3	182
4	Extreme climate events in China: IPCC-AR4 model evaluation and projection. Climatic Change, 2012, 110, 385-401.	3.6	163
5	Probabilistic Projections of Climate Change over China under the SRES A1B Scenario Using 28 AOGCMs. Journal of Climate, 2011, 24, 4741-4756.	3.2	146
6	Modulation of the Tibetan Plateau Snow Cover on the ENSO Teleconnections: From the East Asian Summer Monsoon Perspective. Journal of Climate, 2012, 25, 2481-2489.	3.2	134
7	The day-to-day monitoring of the 2011 severe drought in China. Climate Dynamics, 2014, 43, 1-9.	3.8	100
8	Possible association of the western Tibetan Plateau snow cover with the decadal to interdecadal variations of northern China heatwave frequency. Climate Dynamics, 2012, 39, 2393-2402.	3.8	98
9	Predictable climate dynamics of abnormal East Asian winter monsoon: once-in-a-century snowstorms in 2007/2008 winter. Climate Dynamics, 2011, 37, 1661-1669.	3.8	92
10	Changes in temperature extremes over China under 1.5°C and 2°C global warming targets. Advances in Climate Change Research, 2018, 9, 120-129.	5.1	92
11	Temperature dataset of CMIP6 models over China: evaluation, trend and uncertainty. Climate Dynamics, 2021, 57, 17-35.	3.8	91
12	Projection of climate extremes in China, an incremental exercise from CMIP5 to CMIP6. Science Bulletin, 2021, 66, 2528-2537.	9.0	88
13	Additional risk in extreme precipitation in China from 1.5°C to 2.0°C global warming levels. Science Bulletin, 2018, 63, 228-234.	9.0	78
14	Impact of moisture source variation on decadal-scale changes of precipitation in North China from 1951 to 2010. Journal of Geophysical Research D: Atmospheres, 2017, 122, 600-613.	3.3	71
15	Simulation of temperature extremes in the Tibetan Plateau from CMIP5 models and comparison with gridded observations. Climate Dynamics, 2018, 51, 355-369.	3.8	68
16	Extreme Precipitation Indices over China in CMIP5 Models. Part II: Probabilistic Projection. Journal of Climate, 2016, 29, 8989-9004.	3.2	63
17	Occurrence of droughts and floods during the normal summer monsoons in the mid- and lower reaches of the Yangtze River. Geophysical Research Letters, 2006, 33, .	4.0	62
18	Three Gorges Dam affects regional precipitation. Geophysical Research Letters, 2006, 33, .	4.0	54

#	ARTICLE	IF	CITATIONS
19	Tibetan Plateau amplification of climate extremes under global warming of 1.5°C, 2°C and 3°C. <i>Global and Planetary Change</i> , 2020, 192, 103261.	3.5	54
20	Simulation of regional climate change under the IPCC A2 scenario in southeast China. <i>Climate Dynamics</i> , 2011, 36, 491-507.	3.8	53
21	Future Changes in Extreme High Temperature over China at 1.5°C–5°C Global Warming Based on CMIP6 Simulations. <i>Advances in Atmospheric Sciences</i> , 2021, 38, 253-267.	4.3	52
22	Large-scale atmospheric singularities and summer long-cycle droughts-floods abrupt alternation in the middle and lower reaches of the Yangtze River. <i>Science Bulletin</i> , 2006, 51, 2027-2034.	1.7	48
23	Changes of summer precipitation in China: The dominance of frequency and intensity and linkage with changes in moisture and air temperature. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 12,575.	3.3	42
24	A Lagrangian Analysis of Water Vapor Sources and Pathways for Precipitation in East China in Different Stages of the East Asian Summer Monsoon. <i>Journal of Climate</i> , 2020, 33, 977-992.	3.2	42
25	Climate effect of the northeast cold vortex and its influences on Meiyu. <i>Science Bulletin</i> , 2007, 52, 671-679.	1.7	41
26	On the Emergence of Anthropogenic Signal in Extreme Precipitation Change Over China. <i>Geophysical Research Letters</i> , 2018, 45, 9179-9185.	4.0	40
27	Contribution of Global warming and Urbanization to Changes in Temperature Extremes in Eastern China. <i>Geophysical Research Letters</i> , 2019, 46, 11426-11434.	4.0	40
28	Revisiting the Relationship between Observed Warming and Surface Pressure in the Tibetan Plateau. <i>Journal of Climate</i> , 2017, 30, 1721-1737.	3.2	38
29	Bias correction and projection of surface air temperature in LMDZ multiple simulation over central and eastern China. <i>Advances in Climate Change Research</i> , 2018, 9, 81-92.	5.1	35
30	Biases and improvements in three dynamical downscaling climate simulations over China. <i>Climate Dynamics</i> , 2016, 47, 3235-3251.	3.8	34
31	Risk changes of compound temperature and precipitation extremes in China under 1.5°C and 2°C global warming. <i>Atmospheric Research</i> , 2021, 264, 105838.	4.1	33
32	Detection of urbanization signals in extreme winter minimum temperature changes over Northern China. <i>Climatic Change</i> , 2014, 122, 595-608.	3.6	29
33	Changes in extreme temperature over China when global warming stabilized at 1.5°C and 2.0°C. <i>Scientific Reports</i> , 2019, 9, 14982.	3.3	29
34	How does coldwave frequency in china respond to a warming climate?. <i>Climate Dynamics</i> , 2012, 39, 2487-2496.	3.8	28
35	Changes of precipitation intensity spectra in different regions of mainland China during 1961–2006. <i>Journal of Meteorological Research</i> , 2014, 28, 1085-1098.	2.4	28
36	Impact of Chinese Urbanization and Aerosol Emissions on the East Asian Summer Monsoon. <i>Journal of Climate</i> , 2017, 30, 1019-1039.	3.2	28

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37	Evaluation of Near-Surface Wind Speed Changes during 1979 to 2011 over China Based on Five Reanalysis Datasets. <i>Atmosphere</i> , 2019, 10, 804.	2.3	28
38	PVâ€Q Perspective of Cyclogenesis and Vertical Velocity Development Downstream of the Tibetan Plateau. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD030912.	3.3	26
39	Effects of urban land-use change in East China on the East Asian summer monsoon based on the CAM5.1 model. <i>Climate Dynamics</i> , 2016, 46, 2977-2989.	3.8	24
40	Hand-eye servo and impedance control for manipulator arm to capture target satellite safely. <i>Robotica</i> , 2015, 33, 848-864.	1.9	23
41	A newly-discovered GPD-GEV relationship together with comparing their models of extreme precipitation in summer. <i>Advances in Atmospheric Sciences</i> , 2008, 25, 507-516.	4.3	20
42	Characteristics of extreme temperature event and its response to regional warming in Northwest China in past 45 years. <i>Chinese Geographical Science</i> , 2008, 18, 70-76.	3.0	19
43	Statistical estimation of high-resolution surface air temperature from MODIS over the Yangtze River Delta, China. <i>Journal of Meteorological Research</i> , 2017, 31, 448-454.	2.4	19
44	Risks of temperature extremes over China under 1.5Â° and 2Â° global warming. <i>Advances in Climate Change Research</i> , 2020, 11, 172-184.	5.1	18
45	Numerical study of the effect of anthropogenic aerosols on spring persistent rain over Eastern China. <i>Journal of Meteorological Research</i> , 2014, 28, 341-353.	2.4	17
46	How well do climate models simulate regional atmospheric circulation over East Asia?. <i>International Journal of Climatology</i> , 2020, 40, 220-234.	3.5	17
47	Machine learning to optimize climate projection over China with multi-model ensemble simulations. <i>Environmental Research Letters</i> , 2021, 16, 094028.	5.2	17
48	China coldwave duration in a warming winter: change of the leading mode. <i>Theoretical and Applied Climatology</i> , 2012, 110, 65-75.	2.8	16
49	Projected precipitation changes over China for global warming levels at 1.5Â° and 2Â° in an ensemble of regional climate simulations: impact of bias correction methods. <i>Climatic Change</i> , 2020, 162, 623-643.	3.6	16
50	Projection and possible causes of summer precipitation in eastern China using self-organizing map. <i>Climate Dynamics</i> , 2020, 54, 2815-2830.	3.8	16
51	Association of North Atlantic Oscillations with Aksu River runoff in China. <i>Journal of Chinese Geography</i> , 2009, 19, 12-24.	3.9	15
52	Precipitation and precipitable water: Their temporalâ€spatial behaviors and use in determining monsoon onset/retreat and monsoon regions. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	15
53	Diurnal temperature range in CMIP5 models and observations on the Tibetan Plateau. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017, 143, 1978-1989.	2.7	15
54	Multi-Model Ensemble Projection of Precipitation Changes over China under Global Warming of 1.5 and 2Â° with Consideration of Model Performance and Independence. <i>Journal of Meteorological Research</i> , 2021, 35, 184-197.	2.4	14

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55	Uncertainties of the global-to-regional temperature and precipitation simulations in CMIP5 models for past and future 100 years. <i>Theoretical and Applied Climatology</i> , 2015, 122, 259-270.	2.8	12
56	Projection of summer precipitation over the Yangtze-Huaihe River basin using multimodel statistical downscaling based on canonical correlation analysis. <i>Journal of Meteorological Research</i> , 2016, 30, 867-880.	2.4	12
57	Impact of Surface Potential Vorticity Density Forcing over the Tibetan Plateau on the South China Extreme Precipitation in January 2008. Part I: Data Analysis. <i>Journal of Meteorological Research</i> , 2019, 33, 400-415.	2.4	11
58	Vegetation Greening Offsets Urbanization-Induced Fast Warming in Guangdong, Hong Kong, and Macao Region (GHMR). <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095217.	4.0	11
59	The nonlinear relationship between summer precipitation in China and the sea surface temperature in preceding seasons: A statistical demonstration. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 12,027.	3.3	10
60	Performance of CMIP5 models in the simulation of climate characteristics of synoptic patterns over East Asia. <i>Journal of Meteorological Research</i> , 2015, 29, 594-607.	2.4	9
61	Unexpected large-scale atmospheric response to urbanization in East China. <i>Climate Dynamics</i> , 2019, 52, 4293-4303.	3.8	9
62	Divergent Responses of Summer Precipitation in China to 1.5°C Global Warming in Transient and Stabilized Scenarios. <i>Earth's Future</i> , 2021, 9, e2020EF001832.	6.3	9
63	Use of SSU/MSU Satellite Observations to Validate Upper Atmospheric Temperature Trends in CMIP5 Simulations. <i>Remote Sensing</i> , 2016, 8, 13.	4.0	8
64	Downscaling and projection of summer rainfall in Eastern China using a nonhomogeneous hidden Markov model. <i>International Journal of Climatology</i> , 2019, 39, 1319-1330.	3.5	8
65	Future changes in the frequency of extreme droughts over China based on two large ensemble simulations. <i>Journal of Climate</i> , 2021, , 1.	3.2	8
66	Statistical modeling of CMIP5 projected changes in extreme wet spells over China in the late 21st century. <i>Journal of Meteorological Research</i> , 2017, 31, 678-693.	2.4	7
67	Design of a Robot for Inspecting the Multishape Pipeline Systems. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022, 27, 4608-4618.	5.8	7
68	The impact of the direct effects of sulfate and black carbon aerosols on the subseasonal march of the East Asian subtropical summer monsoon. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 2610-2625.	3.3	6
69	Impact of urban land-use change in eastern China on the East Asian subtropical monsoon: A numerical study. <i>Journal of Meteorological Research</i> , 2016, 30, 203-216.	2.4	6
70	A Hierarchical Safety Control Strategy for Exoskeleton Robot Based on Maximum Correntropy Kalman Filter and Bounding Box. <i>Robotica</i> , 2019, 37, 2165-2175.	1.9	6
71	Interannual variability of the summer wind energy over China: A comparison of multiple datasets. <i>Wind Energy</i> , 2020, 23, 1726-1738.	4.2	6
72	On the Optimal Design of Field Significance Tests for Changes in Climate Extremes. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092831.	4.0	6

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73	Target-tools recognition method based on an image feature library for space station cabin service robots. <i>Robotica</i> , 2016, 34, 925-941.	1.9	5
74	Trends in upper tropospheric water vapour over the Tibetan Plateau from remote sensing. <i>International Journal of Climatology</i> , 2016, 36, 4862-4872.	3.5	5
75	Using a Hidden Markov Model to Analyze the Flood-Season Rainfall Pattern and Its Temporal Variation over East China. <i>Journal of Meteorological Research</i> , 2018, 32, 410-420.	2.4	5
76	Multi-sliding time windows based changing trend of mean temperature and its association with the global-warming hiatus. <i>Journal of Meteorological Research</i> , 2016, 30, 232-241.	2.4	4
77	The January 2021 Cold Air Outbreak over Eastern China: Is There a Human Fingerprint?. <i>Bulletin of the American Meteorological Society</i> , 2022, 103, S50-S54.	3.3	4
78	Impedance control with force signal compensation on space manipulator-assisted docking mission. , 2014, , .		2
79	Response of Temperature-Related Rice Disaster to Different Warming Levels Under an RCP8.5 Emission Scenario in a Major Rice Production Region of China. <i>Frontiers in Climate</i> , 2022, 3, .	2.8	2
80	An improved, downscaled, fine model for simulation of daily weather states. <i>Advances in Atmospheric Sciences</i> , 2011, 28, 1357-1366.	4.3	1
81	Responses of the leading mode of coldwave intensity in China to a warming climate. <i>Journal of Meteorological Research</i> , 2013, 27, 673-683.	1.0	1
82	Increase of Future Summer Rainfall in the Middle and Lower Reach of the Yangtze River Basin Projected With a Nonhomogeneous Hidden Markov Model. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	1
83	Numerical simulation of the impact of land cover change on Urban Heat Island effect in Nanjing. , 2011, , .		0
84	A kind of modified Kalman filter for visual tracking in capturing noncooperation target aircrafts. , 2014, , .		0