

Panmao Zhai

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.

122
papers

8,203
citations

35
h-index

90
g-index

124
ext. papers

9,741
ext. citations

4.6
avg. IF

6.06
L-index

#	Paper	IF	Citations
122	Understanding human influence on climate change in China.. <i>National Science Review</i> , 2022 , 9, nwab113	10.8	10
121	Detection and Attribution of Changes in Summer Compound Hot and Dry Events over Northeastern China with CMIP6 Models. <i>Journal of Meteorological Research</i> , 2022 , 36, 37-48	2.3	0
120	CMIP6 Projections of the Warming-Wetting Trend in Northwest China and Related Extreme Events Based on Observational Constraints. <i>Journal of Meteorological Research</i> , 2022 , 36, 239-250	2.3	2
119	An Updated Review of Event Attribution Approaches. <i>Journal of Meteorological Research</i> , 2022 , 36, 227-238	2.3	0
118	An objective approach to predict the spatial property of anomalous rain-belt of Meiyu. <i>Weather and Climate Extremes</i> , 2022 , 100466	6	
117	Anomalous Features of Extreme Meiyu in 2020 over the Yangtze-Huai River Basin and Attribution to Large-Scale Circulations. <i>Journal of Meteorological Research</i> , 2021 , 35, 799-814	2.3	2
116	Investigation of near-global daytime boundary layer height using high-resolution radiosondes: first results and comparison with ERA5, MERRA-2, JRA-55, and NCEP-2 reanalyses. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 17079-17097	6.8	20
115	Detectable Increases in Sequential Flood-Heatwave Events Across China During 1961-2018. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL092549	4.9	12
114	Divergent responses of ecosystem water use efficiency to drought timing over Northern Eurasia. <i>Environmental Research Letters</i> , 2021 , 16, 045016	6.2	3
113	On the Optimal Design of Field Significance Tests for Changes in Climate Extremes. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL092831	4.9	1
112	Changes in Summer Persistent Precipitation over the Middle-Lower Reaches of the Yangtze River and Associated Atmospheric Circulation Patterns. <i>Journal of Meteorological Research</i> , 2021 , 35, 393-401	2.3	1
111	Warming amplification over the Arctic Pole and Third Pole: Trends, mechanisms and consequences. <i>Earth-Science Reviews</i> , 2021 , 217, 103625	10.2	25
110	Hourly extreme precipitation changes under the influences of regional and urbanization effects in Beijing. <i>International Journal of Climatology</i> , 2021 , 41, 1179-1189	3.5	6
109	An updated evaluation of the global mean land surface air temperature and surface temperature trends based on CLSAT and CMST. <i>Climate Dynamics</i> , 2021 , 56, 635-650	4.2	11
108	The Assessment of Global Surface Temperature Change from 1850s: The C-LSAT2.0 Ensemble and the CMST-Interim Datasets. <i>Advances in Atmospheric Sciences</i> , 2021 , 38, 875-888	2.9	6
107	Detectable Intensification of Hourly and Daily Scale Precipitation Extremes across Eastern China. <i>Journal of Climate</i> , 2021 , 34, 1185-1201	4.4	8
106	Detectable anthropogenic changes in daily-scale circulations driving summer rainfall shifts over eastern China. <i>Environmental Research Letters</i> , 2021 , 16, 074044	6.2	1

105	Performance of the CRA-40/Land, CMFD, and ERA-Interim Datasets in Reflecting Changes in Surface Air Temperature over the Tibetan Plateau. <i>Journal of Meteorological Research</i> , 2021 , 35, 663-672 ²⁻³	3
104	Synergistic Effect of the 25-30-day Tropical and Midlatitude Intraseasonal Oscillations on the Persistently Severe Yangtze Floods. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL095129	4.9 0
103	Growing Threats From Unprecedented Sequential Flood-Hot Extremes Across China. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094505	4.9 6
102	Application of an Improved Analog-Based Heavy Precipitation Forecast Model to the Yangtze-Huai River Valley and Its Performance in June-July 2020. <i>Journal of Meteorological Research</i> , 2021 , 35, 987-997	2.3 0
101	Effects of Dynamic Vegetation on Global Climate Simulation Using the NCEP GFS and SSiB4/TRIFFID. <i>Journal of Meteorological Research</i> , 2021 , 35, 1041-1056	2.3 0
100	The response of warm-season precipitation extremes in China to global warming: an observational perspective from radiosonde measurements. <i>Climate Dynamics</i> , 2020 , 54, 3977-3989	4.2 15
99	The influence of soil moisture and solar altitude on surface spectral albedo in arid area. <i>Environmental Research Letters</i> , 2020 , 15, 035010	6.2 3
98	Assessing Multidomain Overlaps and Grand Ensemble Generation in CORDEX Regional Projections. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL086799	4.9 6
97	Anthropogenically-driven increases in the risks of summertime compound hot extremes. <i>Nature Communications</i> , 2020 , 11, 528	17.4 49
96	Differing mechanisms for the 2008 and 2016 wintertime cold events in southern China. <i>International Journal of Climatology</i> , 2020 , 40, 4944-4955	3.5 3
95	The Climatology of Lower Tropospheric Temperature Inversions in China from Radiosonde Measurements: Roles of Black Carbon, Local Meteorology, and Large-Scale Subsidence. <i>Journal of Climate</i> , 2020 , 33, 9327-9350	4.4 23
94	Contribution of Changes in Synoptic-Scale Circulation Patterns to the Past Summer Precipitation Regime Shift in Eastern China. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL087728	4.9 12
93	Changes in compound drought and hot extreme events in summer over populated eastern China. <i>Weather and Climate Extremes</i> , 2020 , 30, 100295	6 9
92	More frequent and widespread persistent compound drought and heat event observed in China. <i>Scientific Reports</i> , 2020 , 10, 14576	4.9 17
91	Shift in the Temporal Trend of Boundary Layer Height in China Using Long-Term (1979-2016) Radiosonde Data. <i>Geophysical Research Letters</i> , 2019 , 46, 6080-6089	4.9 83
90	Pronounced extended duration of tropical cyclone quiescent periods over the western North Pacific in the super El Niño decaying years. <i>International Journal of Climatology</i> , 2019 , 39, 2544-2555	3.5 0
89	Persistent precipitation extremes in the Yangtze River Valley prolonged by opportune configuration among atmospheric teleconnections. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019 , 145, 2603-2626	6.4 14
88	Precipitation From Persistent Extremes is Increasing in Most Regions and Globally. <i>Geophysical Research Letters</i> , 2019 , 46, 6041-6049	4.9 39

87	Tropopause trend across China from 1979 to 2016: A revisit with updated radiosonde measurements. <i>International Journal of Climatology</i> , 2019 , 39, 1117-1127	3.5	7
86	Mesoscale Convective Systems in the Asian Monsoon Region From Advanced Himawari Imager: Algorithms and Preliminary Results. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 2210-2234	4.4	27
85	Contrasting Influence of Gobi and Taklimakan Deserts on the Dust Aerosols in Western North America. <i>Geophysical Research Letters</i> , 2019 , 46, 9064-9071	4.9	10
84	The Trend Reversal of Dust Aerosol Over East Asia and the North Pacific Ocean Attributed to Large-Scale Meteorology, Deposition, and Soil Moisture. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 10450-10466	4.4	13
83	Declining Summertime Local-Scale Precipitation Frequency Over China and the United States, 1981-2012: The Disparate Roles of Aerosols. <i>Geophysical Research Letters</i> , 2019 , 46, 13281-13289	4.9	34
82	Half-a-Degree Matters for Reducing and Delaying Global Land Exposure to Combined Daytime-Nighttime Hot Extremes. <i>Earth's Future</i> , 2019 , 7, 953-966	7.9	5
81	Climate change and sustainable development for cities. <i>Chinese Science Bulletin</i> , 2019 , 64, 1995-2001	2.9	15
80	Coincidence of increasingly volatile winters in China with Arctic sea-ice loss during 1980-2018. <i>Environmental Research Letters</i> , 2019 , 14, 124076	6.2	0
79	Synoptic patterns and sounding-derived parameters associated with summertime heavy rainfall in Beijing. <i>International Journal of Climatology</i> , 2019 , 39, 1476-1489	3.5	11
78	Characteristics of summer extreme precipitation in the Huai River basin and their relationship with East Asia summer monsoon during 1960-2014. <i>International Journal of Climatology</i> , 2019 , 39, 1555-1570	3.5	6
77	Projected changes of thermal growing season over Northern Eurasia in a 1.5 °C and 2 °C warming world. <i>Environmental Research Letters</i> , 2018 , 13, 035004	6.2	12
76	The Climatology of Low-Level Jet in Beijing and Guangzhou, China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 2816-2830	4.4	21
75	Comparative Assessment of Two Objective Forecast Models for Cases of Persistent Extreme Precipitation Events in the Yangtze-Huai River Valley in Summer 2016. <i>Weather and Forecasting</i> , 2018 , 33, 221-238	2.1	5
74	Facing climate change-related extreme events in megacities of China in the context of 1.5 °C global warming. <i>Current Opinion in Environmental Sustainability</i> , 2018 , 30, 75-81	7.2	9
73	Potential Influence of the East Asia-Pacific Teleconnection Pattern on Persistent Precipitation in South China: Implications of Atypical Yangtze River Valley Cases. <i>Weather and Forecasting</i> , 2018 , 33, 267-282	2.1	7
72	A new integrated and homogenized global monthly land surface air temperature dataset for the period since 1900. <i>Climate Dynamics</i> , 2018 , 50, 2513-2536	4.2	35
71	Implications of differential effects between 1.5 and 2 °C global warming on temperature and precipitation extremes in China's urban agglomerations. <i>International Journal of Climatology</i> , 2018 , 38, 2374-2385	3.5	28
70	On the Summertime Planetary Boundary Layer with Different Thermodynamic Stability in China: A Radiosonde Perspective. <i>Journal of Climate</i> , 2018 , 31, 1451-1465	4.4	69

69	Declining hailstorm frequency in China during 1961–2015 and its potential influential factors. <i>International Journal of Climatology</i> , 2018 , 38, 4116-4126	3.5	5
68	Aerosol-induced changes in the vertical structure of precipitation: a perspective of TRMM precipitation radar. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 13329-13343	6.8	62
67	A Review of Climate Change Attribution Studies. <i>Journal of Meteorological Research</i> , 2018 , 32, 671-692	2.3	26
66	Recent Progress and Emerging Topics on Weather and Climate Extremes Since the Fifth Assessment Report of the Intergovernmental Panel on Climate Change. <i>Annual Review of Environment and Resources</i> , 2018 , 43, 35-59	17.2	30
65	Detectable Impacts of the Past Half-Degree Global Warming on Summertime Hot Extremes in China. <i>Geophysical Research Letters</i> , 2018 , 45, 7130-7139	4.9	12
64	Atmospheric circulation patterns associated with persistent wet-freezing events over southern China. <i>International Journal of Climatology</i> , 2018 , 38, 3976-3990	3.5	2
63	Low-frequency oscillations of East Asia/Pacific teleconnection and simultaneous weather anomalies/extremes over eastern Asia. <i>International Journal of Climatology</i> , 2017 , 37, 276-295	3.5	5
62	Upper-ocean dynamical features and prediction of the super El Niño in 2015/16: A comparison with the cases in 1982/83 and 1997/98. <i>Journal of Meteorological Research</i> , 2017 , 31, 278-294	2.3	22
61	Changes in temporal concentration property of summer precipitation in China during 1961–2010 based on a new index. <i>Journal of Meteorological Research</i> , 2017 , 31, 336-349	2.3	5
60	Revisiting summertime hot extremes in China during 1961–2015: Overlooked compound extremes and significant changes. <i>Geophysical Research Letters</i> , 2017 , 44, 5096-5103	4.9	50
59	Simultaneous modulations of precipitation and temperature extremes in Southern parts of China by the boreal summer intraseasonal oscillation. <i>Climate Dynamics</i> , 2017 , 49, 3363-3381	4.2	30
58	Impact of diurnal variability and meteorological factors on the PM - AOD relationship: Implications for PM remote sensing. <i>Environmental Pollution</i> , 2017 , 221, 94-104	9.3	128
57	Trans-Pacific transport of dust aerosols from East Asia: Insights gained from multiple observations and modeling. <i>Environmental Pollution</i> , 2017 , 230, 1030-1039	9.3	78
56	Warming effect of dust aerosols modulated by overlapping clouds below. <i>Atmospheric Environment</i> , 2017 , 166, 393-402	5.3	17
55	Changes in classified precipitation in the urban, suburban, and mountain areas of Beijing. <i>Advances in Climate Change Research</i> , 2017 , 8, 279-285	4.1	6
54	Teleconnection patterns impacting on the summer consecutive extreme rainfall in Central-Eastern China. <i>International Journal of Climatology</i> , 2017 , 37, 3367-3380	3.5	11
53	Comparisons of Time Series of Annual Mean Surface Air Temperature for China since the 1900s: Observations, Model Simulations, and Extended Reanalysis. <i>Bulletin of the American Meteorological Society</i> , 2017 , 98, 699-711	6.1	40
52	Declining frequency of summertime local-scale precipitation over eastern China from 1970 to 2010 and its potential link to aerosols. <i>Geophysical Research Letters</i> , 2017 , 44, 5700-5708	4.9	92

51	Persisting and strong warming hiatus over eastern China during the past two decades. <i>Environmental Research Letters</i> , 2017 , 12, 104010	6.2	12
50	Classification of summertime synoptic patterns in Beijing and their associations with boundary layer structure affecting aerosol pollution. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 3097-3110	6.8	149
49	The strong El Niño of 2015/16 and its dominant impacts on global and China's climate. <i>Journal of Meteorological Research</i> , 2016 , 30, 283-297	2.3	85
48	The climatology of planetary boundary layer height in China derived from radiosonde and reanalysis data. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 13309-13319	6.8	277
47	Planetary boundary layer height from CALIOP compared to radiosonde over China. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 9951-9963	6.8	60
46	Mechanisms for concurrent low-latitude circulation anomalies responsible for persistent extreme precipitation in the Yangtze River Valley. <i>Climate Dynamics</i> , 2016 , 47, 989-1006	4.2	41
45	Impact of various emission control schemes on air quality using WRF-Chem during APEC China 2014. <i>Atmospheric Environment</i> , 2016 , 140, 311-319	5.3	71
44	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	2.3	4
43	A New Forecast Model Based on the Analog Method for Persistent Extreme Precipitation. <i>Weather and Forecasting</i> , 2016 , 31, 1325-1341	2.1	13
42	A comprehensive classification of anomalous circulation patterns responsible for persistent precipitation extremes in South China. <i>Journal of Meteorological Research</i> , 2016 , 30, 483-495	2.3	6
41	Delaying precipitation and lightning by air pollution over the Pearl River Delta. Part I: Observational analyses. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 6472-6488	4.4	162
40	Low-frequency oscillations of the East Asia-Pacific teleconnection pattern and their impacts on persistent heavy precipitation in the Yangtze-Huai River valley. <i>Journal of Meteorological Research</i> , 2016 , 30, 459-471	2.3	9
39	Synoptic-scale precursors of the East Asia/Pacific teleconnection pattern responsible for persistent extreme precipitation in the Yangtze River Valley. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015 , 141, 1389-1403	6.4	55
38	Evaluation of Forecast Performance of Asian Summer Monsoon Low-Level Winds Using the TIGGE Dataset. <i>Weather and Forecasting</i> , 2015 , 30, 455-470	2.1	3
37	Dominant Large-Scale Atmospheric Circulation Systems for the Extreme Precipitation over the Western Sichuan Basin in Summer 2013. <i>Advances in Meteorology</i> , 2015 , 2015, 1-10	1.7	3
36	An assessment of the predictability of the East Asian Subtropical Westerly Jet based on TIGGE data. <i>Advances in Atmospheric Sciences</i> , 2015 , 32, 401-412	2.9	3
35	Changes in climate regionalization indices in China during 1961-2010. <i>Advances in Atmospheric Sciences</i> , 2014 , 31, 374-384	2.9	7
34	Cold-wet spells in mainland China during 1951-2011. <i>Natural Hazards</i> , 2014 , 74, 931-946	3	10

33	Precipitation and air pollution at mountain and plain stations in northern China: Insights gained from observations and modeling. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 4793-4807	4.4	54
32	Changing structure of wet periods across southwest China during 1961-2012. <i>Climate Research</i> , 2014 , 61, 123-131	1.6	18
31	Two types of typical circulation pattern for persistent extreme precipitation in Central-Eastern China. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2014 , 140, 1467-1478	6.4	57
30	Diurnal variation and the influential factors of precipitation from surface and satellite measurements in Tibet. <i>International Journal of Climatology</i> , 2014 , 34, 2940-2956	3.5	52
29	Changes of precipitation intensity spectra in different regions of mainland China during 1961-2006. <i>Journal of Meteorological Research</i> , 2014 , 28, 1085-1098	2.3	23
28	Precursor Circulation Features for Persistent Extreme Precipitation in Central-Eastern China. <i>Weather and Forecasting</i> , 2014 , 29, 226-240	2.1	27
27	Updated analyses of temperature and precipitation extreme indices since the beginning of the twentieth century: The HadEX2 dataset. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 2098-2118	4.4	79 ¹
26	Construction of the OKJ teleconnection index. <i>Theoretical and Applied Climatology</i> , 2013 , 114, 303-314	3	3
25	Changes in persistent and non-persistent flood season precipitation over South China during 1961-2010. <i>Journal of Meteorological Research</i> , 2013 , 27, 788-798		2
24	Synoptic verification of medium-extended-range forecasts of the northwest pacific subtropical high and South Asian high based on multi-center TIGGE data. <i>Journal of Meteorological Research</i> , 2013 , 27, 725-741		5
23	Comparison of the structure and evolution of intraseasonal oscillations before and after onset of the Asian summer monsoon. <i>Journal of Meteorological Research</i> , 2013 , 27, 684-700		2
22	Spatial Distributions and Seasonal Variations of Tropospheric Water Vapor Content over the Tibetan Plateau. <i>Journal of Climate</i> , 2013 , 26, 5637-5654	4.4	27
21	Persistent extreme precipitation events in China during 1951-2010. <i>Climate Research</i> , 2013 , 57, 143-155	1.6	97
20	Study on forest fire danger over Northern China during the recent 50 years. <i>Climatic Change</i> , 2012 , 111, 723-736	4.5	11
19	Validation of daily precipitation from two high-resolution satellite precipitation datasets over the Tibetan Plateau and the regions to its east. <i>Journal of Meteorological Research</i> , 2012 , 26, 735-745		22
18	Applicability of AIRS Monthly Mean Atmospheric Water Vapor Profiles over the Tibetan Plateau Region. <i>Journal of Atmospheric and Oceanic Technology</i> , 2012 , 29, 1617-1628	2	5
17	Research on the Relationship of ENSO and the Frequency of Extreme Precipitation Events in China. <i>Advances in Climate Change Research</i> , 2011 , 2, 101-107	4.1	29
16	Interannual to decadal variability of the winter Aleutian Low intensity during 1900-2004. <i>Journal of Meteorological Research</i> , 2011 , 25, 710-724		2

15	Temporal and spatial characteristics of extreme hourly precipitation over eastern China in the warm season. <i>Advances in Atmospheric Sciences</i> , 2011 , 28, 1177-1183	2.9	68
14	Variations in extratropical cyclone activity in northern East Asia. <i>Advances in Atmospheric Sciences</i> , 2009 , 26, 471-479	2.9	35
13	The impact of tropical cyclones on Hainan Island's extreme and total precipitation. <i>International Journal of Climatology</i> , 2007 , 27, 1059-1064	3.5	50
12	Climatology and trends of wet spells in China. <i>Theoretical and Applied Climatology</i> , 2007 , 88, 139-148	3	45
11	Global observed changes in daily climate extremes of temperature and precipitation. <i>Journal of Geophysical Research</i> , 2006 , 111,		2250
10	Variations in droughts over China: 1951-2003. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.9	245
9	Change in mean temperature as a predictor of extreme temperature change in the Asia-Pacific region. <i>International Journal of Climatology</i> , 2005 , 25, 1301-1330	3.5	167
8	Trends in Total Precipitation and Frequency of Daily Precipitation Extremes over China. <i>Journal of Climate</i> , 2005 , 18, 1096-1108	4.4	984
7	Data Rescue in the Southeast Asia and South Pacific Region: Challenges and Opportunities. <i>Bulletin of the American Meteorological Society</i> , 2004 , 85, 1483-1490	6.1	31
6	Trends in temperature extremes during 1951-1999 in China. <i>Geophysical Research Letters</i> , 2003 , 30, n/a-n/a	4.9	271
5	Changes of Climate Extremes in China. <i>Climatic Change</i> , 1999 , 42, 203-218	4.5	324
4	Atmospheric Water Vapor over China. <i>Journal of Climate</i> , 1997 , 10, 2643-2652	4.4	148
3	Analyses of Inhomogeneities in Radiosonde Temperature and Humidity Time Series. <i>Journal of Climate</i> , 1996 , 9, 884-894	4.4	45
2	Anthropogenic emissions and urbanization increase risk of compound hot extremes in cities. <i>Nature Climate Change</i> ,	21.4	14
1	Vegetation Greening offsets Urbanization Induced Fast Warming in Guangdong, Hong Kong, and Macao region (GHMR). <i>Geophysical Research Letters</i> , e2021GL095217	4.9	2