

# Panmao Zhai

## List of Publications by Citations

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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	Global observed changes in daily climate extremes of temperature and precipitation. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		2250
121	Trends in Total Precipitation and Frequency of Daily Precipitation Extremes over China. <i>Journal of Climate</i> , <b>2005</b> , 18, 1096-1108	4.4	984
120	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> , <b>2013</b> , 118, 2098-2118	4.4	791
119	Changes of Climate Extremes in China. <i>Climatic Change</i> , <b>1999</b> , 42, 203-218	4.5	324
118	The climatology of planetary boundary layer height in China derived from radiosonde and reanalysis data. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 13309-13319	6.8	277
117	Trends in temperature extremes during 1951-1999 in China. <i>Geophysical Research Letters</i> , <b>2003</b> , 30, n/a-n/a	4.9	271
116	Variations in droughts over China: 1951-2003. <i>Geophysical Research Letters</i> , <b>2005</b> , 32, n/a-n/a	4.9	245
115	Change in mean temperature as a predictor of extreme temperature change in the Asia-Pacific region. <i>International Journal of Climatology</i> , <b>2005</b> , 25, 1301-1330	3.5	167
114	Delaying precipitation and lightning by air pollution over the Pearl River Delta. Part I: Observational analyses. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 6472-6488	4.4	162
113	Classification of summertime synoptic patterns in Beijing and their associations with boundary layer structure affecting aerosol pollution. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 3097-3110	6.8	149
112	Atmospheric Water Vapor over China. <i>Journal of Climate</i> , <b>1997</b> , 10, 2643-2652	4.4	148
111	Impact of diurnal variability and meteorological factors on the PM - AOD relationship: Implications for PM remote sensing. <i>Environmental Pollution</i> , <b>2017</b> , 221, 94-104	9.3	128
110	Persistent extreme precipitation events in China during 1951-2010. <i>Climate Research</i> , <b>2013</b> , 57, 143-155	1.6	97
109	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> , <b>2017</b> , 44, 5700-5708	4.9	92
108	The strong El Niño of 2015/16 and its dominant impacts on global and China's climate. <i>Journal of Meteorological Research</i> , <b>2016</b> , 30, 283-297	2.3	85
107	Shift in the Temporal Trend of Boundary Layer Height in China Using Long-Term (1979-2016) Radiosonde Data. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 6080-6089	4.9	83
106	Trans-Pacific transport of dust aerosols from East Asia: Insights gained from multiple observations and modeling. <i>Environmental Pollution</i> , <b>2017</b> , 230, 1030-1039	9.3	78

105	Impact of various emission control schemes on air quality using WRF-Chem during APEC China 2014. <i>Atmospheric Environment</i> , <b>2016</b> , 140, 311-319	5.3	71
104	On the Summertime Planetary Boundary Layer with Different Thermodynamic Stability in China: A Radiosonde Perspective. <i>Journal of Climate</i> , <b>2018</b> , 31, 1451-1465	4.4	69
103	Temporal and spatial characteristics of extreme hourly precipitation over eastern China in the warm season. <i>Advances in Atmospheric Sciences</i> , <b>2011</b> , 28, 1177-1183	2.9	68
102	Aerosol-induced changes in the vertical structure of precipitation: a perspective of TRMM precipitation radar. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 13329-13343	6.8	62
101	Planetary boundary layer height from CALIOP compared to radiosonde over China. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 9951-9963	6.8	60
100	Two types of typical circulation pattern for persistent extreme precipitation in Central-Eastern China. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2014</b> , 140, 1467-1478	6.4	57
99	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> , <b>2015</b> , 141, 1389-1403	6.4	55
98	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> , <b>2014</b> , 119, 4793-4807	4.4	54
97	Diurnal variation and the influential factors of precipitation from surface and satellite measurements in Tibet. <i>International Journal of Climatology</i> , <b>2014</b> , 34, 2940-2956	3.5	52
96	Revisiting summertime hot extremes in China during 1961-2015: Overlooked compound extremes and significant changes. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 5096-5103	4.9	50
95	The impact of tropical cyclones on Hainan Island's extreme and total precipitation. <i>International Journal of Climatology</i> , <b>2007</b> , 27, 1059-1064	3.5	50
94	Anthropogenically-driven increases in the risks of summertime compound hot extremes. <i>Nature Communications</i> , <b>2020</b> , 11, 528	17.4	49
93	Climatology and trends of wet spells in China. <i>Theoretical and Applied Climatology</i> , <b>2007</b> , 88, 139-148	3	45
92	Analyses of Inhomogeneities in Radiosonde Temperature and Humidity Time Series. <i>Journal of Climate</i> , <b>1996</b> , 9, 884-894	4.4	45
91	Mechanisms for concurrent low-latitude circulation anomalies responsible for persistent extreme precipitation in the Yangtze River Valley. <i>Climate Dynamics</i> , <b>2016</b> , 47, 989-1006	4.2	41
90	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> , <b>2017</b> , 98, 699-711	6.1	40
89	Precipitation From Persistent Extremes is Increasing in Most Regions and Globally. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 6041-6049	4.9	39
88	A new integrated and homogenized global monthly land surface air temperature dataset for the period since 1900. <i>Climate Dynamics</i> , <b>2018</b> , 50, 2513-2536	4.2	35

87	Variations in extratropical cyclone activity in northern East Asia. <i>Advances in Atmospheric Sciences</i> , <b>2009</b> , 26, 471-479	2.9	35
86	Declining Summertime Local-Scale Precipitation Frequency Over China and the United States, 1981-2012: The Disparate Roles of Aerosols. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 13281-13289	4.9	34
85	Data Rescue in the Southeast Asia and South Pacific Region: Challenges and Opportunities. <i>Bulletin of the American Meteorological Society</i> , <b>2004</b> , 85, 1483-1490	6.1	31
84	Simultaneous modulations of precipitation and temperature extremes in Southern parts of China by the boreal summer intraseasonal oscillation. <i>Climate Dynamics</i> , <b>2017</b> , 49, 3363-3381	4.2	30
83	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> , <b>2018</b> , 43, 35-59	17.2	30
82	Research on the Relationship of ENSO and the Frequency of Extreme Precipitation Events in China. <i>Advances in Climate Change Research</i> , <b>2011</b> , 2, 101-107	4.1	29
81	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> , <b>2018</b> , 38, 2374-2385	3.5	28
80	Mesoscale Convective Systems in the Asian Monsoon Region From Advanced Himawari Imager: Algorithms and Preliminary Results. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 2210-2234	4.4	27
79	Precursor Circulation Features for Persistent Extreme Precipitation in Central-Eastern China. <i>Weather and Forecasting</i> , <b>2014</b> , 29, 226-240	2.1	27
78	Spatial Distributions and Seasonal Variations of Tropospheric Water Vapor Content over the Tibetan Plateau. <i>Journal of Climate</i> , <b>2013</b> , 26, 5637-5654	4.4	27
77	A Review of Climate Change Attribution Studies. <i>Journal of Meteorological Research</i> , <b>2018</b> , 32, 671-692	2.3	26
76	Warming amplification over the Arctic Pole and Third Pole: Trends, mechanisms and consequences. <i>Earth-Science Reviews</i> , <b>2021</b> , 217, 103625	10.2	25
75	Changes of precipitation intensity spectra in different regions of mainland China during 1961-2006. <i>Journal of Meteorological Research</i> , <b>2014</b> , 28, 1085-1098	2.3	23
74	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> , <b>2020</b> , 33, 9327-9350	4.4	23
73	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> , <b>2017</b> , 31, 278-294	2.3	22
72	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> , <b>2012</b> , 26, 735-745		22
71	The Climatology of Low-Level Jet in Beijing and Guangzhou, China. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 2816-2830	4.4	21
70	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> , <b>2021</b> , 21, 17079-17097	6.8	20

69	Changing structure of wet periods across southwest China during 1961-2012. <i>Climate Research</i> , <b>2014</b> , 61, 123-131	1.6	18
68	Warming effect of dust aerosols modulated by overlapping clouds below. <i>Atmospheric Environment</i> , <b>2017</b> , 166, 393-402	5.3	17
67	More frequent and widespread persistent compound drought and heat event observed in China. <i>Scientific Reports</i> , <b>2020</b> , 10, 14576	4.9	17
66	The response of warm-season precipitation extremes in China to global warming: an observational perspective from radiosonde measurements. <i>Climate Dynamics</i> , <b>2020</b> , 54, 3977-3989	4.2	15
65	Climate change and sustainable development for cities. <i>Chinese Science Bulletin</i> , <b>2019</b> , 64, 1995-2001	2.9	15
64	Persistent precipitation extremes in the Yangtze River Valley prolonged by opportune configuration among atmospheric teleconnections. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2019</b> , 145, 2603-2626	6.4	14
63	Anthropogenic emissions and urbanization increase risk of compound hot extremes in cities. <i>Nature Climate Change</i> ,	21.4	14
62	A New Forecast Model Based on the Analog Method for Persistent Extreme Precipitation. <i>Weather and Forecasting</i> , <b>2016</b> , 31, 1325-1341	2.1	13
61	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> , <b>2019</b> , 124, 10450-10466	4.4	13
60	Projected changes of thermal growing season over Northern Eurasia in a 1.5 °C and 2 °C warming world. <i>Environmental Research Letters</i> , <b>2018</b> , 13, 035004	6.2	12
59	Persisting and strong warming hiatus over eastern China during the past two decades. <i>Environmental Research Letters</i> , <b>2017</b> , 12, 104010	6.2	12
58	Contribution of Changes in Synoptic-Scale Circulation Patterns to the Past Summer Precipitation Regime Shift in Eastern China. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL087728	4.9	12
57	Detectable Increases in Sequential Flood-Heatwave Events Across China During 1961-2018. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL092549	4.9	12
56	Detectable Impacts of the Past Half-Degree Global Warming on Summertime Hot Extremes in China. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 7130-7139	4.9	12
55	Study on forest fire danger over Northern China during the recent 50 years. <i>Climatic Change</i> , <b>2012</b> , 111, 723-736	4.5	11
54	Teleconnection patterns impacting on the summer consecutive extreme rainfall in Central-Eastern China. <i>International Journal of Climatology</i> , <b>2017</b> , 37, 3367-3380	3.5	11
53	Synoptic patterns and sounding-derived parameters associated with summertime heavy rainfall in Beijing. <i>International Journal of Climatology</i> , <b>2019</b> , 39, 1476-1489	3.5	11
52	An updated evaluation of the global mean land surface air temperature and surface temperature trends based on CLSAT and CMST. <i>Climate Dynamics</i> , <b>2021</b> , 56, 635-650	4.2	11

51	Contrasting Influence of Gobi and Taklimakan Deserts on the Dust Aerosols in Western North America. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 9064-9071	4.9	10
50	ColdWet spells in mainland China during 1951–2011. <i>Natural Hazards</i> , <b>2014</b> , 74, 931-946	3	10
49	Understanding human influence on climate change in China.. <i>National Science Review</i> , <b>2022</b> , 9, nwab113 10.8	10.8	10
48	Facing climate change-related extreme events in megacities of China in the context of 1.5 ℃ global warming. <i>Current Opinion in Environmental Sustainability</i> , <b>2018</b> , 30, 75-81	7.2	9
47	Changes in compound drought and hot extreme events in summer over populated eastern China. <i>Weather and Climate Extremes</i> , <b>2020</b> , 30, 100295	6	9
46	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> , <b>2016</b> , 30, 459-471	2.3	9
45	Detectable Intensification of Hourly and Daily Scale Precipitation Extremes across Eastern China. <i>Journal of Climate</i> , <b>2021</b> , 34, 1185-1201	4.4	8
44	Tropopause trend across China from 1979 to 2016: A revisit with updated radiosonde measurements. <i>International Journal of Climatology</i> , <b>2019</b> , 39, 1117-1127	3.5	7
43	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> , <b>2018</b> , 33, 267-282	2.1	7
42	Changes in climate regionalization indices in China during 1961–2010. <i>Advances in Atmospheric Sciences</i> , <b>2014</b> , 31, 374-384	2.9	7
41	Assessing Multidomain Overlaps and Grand Ensemble Generation in CORDEX Regional Projections. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2019GL086799	4.9	6
40	Changes in classified precipitation in the urban, suburban, and mountain areas of Beijing. <i>Advances in Climate Change Research</i> , <b>2017</b> , 8, 279-285	4.1	6
39	A comprehensive classification of anomalous circulation patterns responsible for persistent precipitation extremes in South China. <i>Journal of Meteorological Research</i> , <b>2016</b> , 30, 483-495	2.3	6
38	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> , <b>2019</b> , 39, 1555-1570	3.5	6
37	Hourly extreme precipitation changes under the influences of regional and urbanization effects in Beijing. <i>International Journal of Climatology</i> , <b>2021</b> , 41, 1179-1189	3.5	6
36	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> , <b>2021</b> , 38, 875-888	2.9	6
35	Growing Threats From Unprecedented Sequential Flood-Hot Extremes Across China. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL094505	4.9	6
34	Low-frequency oscillations of East Asia/Pacific teleconnection and simultaneous weather anomalies/extremes over eastern Asia. <i>International Journal of Climatology</i> , <b>2017</b> , 37, 276-295	3.5	5

33	Changes in temporal concentration property of summer precipitation in China during 1961-2010 based on a new index. <i>Journal of Meteorological Research</i> , <b>2017</b> , 31, 336-349	2.3	5
32	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> , <b>2018</b> , 33, 221-238	2.1	5
31	Half-a-Degree Matters for Reducing and Delaying Global Land Exposure to Combined Daytime-Nighttime Hot Extremes. <i>Earth's Future</i> , <b>2019</b> , 7, 953-966	7.9	5
30	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> , <b>2013</b> , 27, 725-741		5
29	Applicability of AIRS Monthly Mean Atmospheric Water Vapor Profiles over the Tibetan Plateau Region. <i>Journal of Atmospheric and Oceanic Technology</i> , <b>2012</b> , 29, 1617-1628	2	5
28	Declining hailstorm frequency in China during 1961-2015 and its potential influential factors. <i>International Journal of Climatology</i> , <b>2018</b> , 38, 4116-4126	3.5	5
27	Impact of urban land-use change in eastern China on the East Asian subtropical monsoon: A numerical study. <i>Journal of Meteorological Research</i> , <b>2016</b> , 30, 203-216	2.3	4
26	Evaluation of Forecast Performance of Asian Summer Monsoon Low-Level Winds Using the TIGGE Dataset. <i>Weather and Forecasting</i> , <b>2015</b> , 30, 455-470	2.1	3
25	The influence of soil moisture and solar altitude on surface spectral albedo in arid area. <i>Environmental Research Letters</i> , <b>2020</b> , 15, 035010	6.2	3
24	Differing mechanisms for the 2008 and 2016 wintertime cold events in southern China. <i>International Journal of Climatology</i> , <b>2020</b> , 40, 4944-4955	3.5	3
23	Construction of the OKJ teleconnection index. <i>Theoretical and Applied Climatology</i> , <b>2013</b> , 114, 303-314	3	3
22	Dominant Large-Scale Atmospheric Circulation Systems for the Extreme Precipitation over the Western Sichuan Basin in Summer 2013. <i>Advances in Meteorology</i> , <b>2015</b> , 2015, 1-10	1.7	3
21	An assessment of the predictability of the East Asian Subtropical Westerly Jet based on TIGGE data. <i>Advances in Atmospheric Sciences</i> , <b>2015</b> , 32, 401-412	2.9	3
20	Divergent responses of ecosystem water use efficiency to drought timing over Northern Eurasia. <i>Environmental Research Letters</i> , <b>2021</b> , 16, 045016	6.2	3
19	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> , <b>2021</b> , 35, 663-672	2.3	3
18	Changes in persistent and non-persistent flood season precipitation over South China during 1961-2010. <i>Journal of Meteorological Research</i> , <b>2013</b> , 27, 788-798		2
17	Comparison of the structure and evolution of intraseasonal oscillations before and after onset of the Asian summer monsoon. <i>Journal of Meteorological Research</i> , <b>2013</b> , 27, 684-700		2
16	Interannual to decadal variability of the winter Aleutian Low intensity during 1900-2004. <i>Journal of Meteorological Research</i> , <b>2011</b> , 25, 710-724		2

15	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> , <b>2021</b> , 35, 799-814	2.3	2
14	Atmospheric circulation patterns associated with persistent wet-freezing events over southern China. <i>International Journal of Climatology</i> , <b>2018</b> , 38, 3976-3990	3.5	2
13	Vegetation Greening offsets Urbanization Induced Fast Warming in Guangdong, Hong Kong, and Macao region (GHMR). <i>Geophysical Research Letters</i> , e2021GL095217	4.9	2
12	CMIP6 Projections of the "Warming-Wetting" Trend in Northwest China and Related Extreme Events Based on Observational Constraints. <i>Journal of Meteorological Research</i> , <b>2022</b> , 36, 239-250	2.3	2
11	On the Optimal Design of Field Significance Tests for Changes in Climate Extremes. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL092831	4.9	1
10	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> , <b>2021</b> , 35, 393-401	2.3	1
9	Detectable anthropogenic changes in daily-scale circulations driving summer rainfall shifts over eastern China. <i>Environmental Research Letters</i> , <b>2021</b> , 16, 074044	6.2	1
8	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> , <b>2019</b> , 39, 2544-2555	3.5	0
7	Coincidence of increasingly volatile winters in China with Arctic sea-ice loss during 1980-2018. <i>Environmental Research Letters</i> , <b>2019</b> , 14, 124076	6.2	0
6	Synergistic Effect of the 25-30-day Tropical and Midlatitude Intraseasonal Oscillations on the Persistently Severe Yangtze Floods. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL095129	4.9	0
5	Detection and Attribution of Changes in Summer Compound Hot and Dry Events over Northeastern China with CMIP6 Models. <i>Journal of Meteorological Research</i> , <b>2022</b> , 36, 37-48	2.3	0
4	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> , <b>2021</b> , 35, 987-997	2.3	0
3	Effects of Dynamic Vegetation on Global Climate Simulation Using the NCEP GFS and SSiB4/TRIFFID. <i>Journal of Meteorological Research</i> , <b>2021</b> , 35, 1041-1056	2.3	0
2	An Updated Review of Event Attribution Approaches. <i>Journal of Meteorological Research</i> , <b>2022</b> , 36, 227-238	2.3	0
1	An objective approach to predict the spatial property of anomalous rain-belt of Meiyu. <i>Weather and Climate Extremes</i> , <b>2022</b> , 100466		6