

Xiangdong Zhang

List of Publications by Citations

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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.

78
papers

8,454
citations

32
h-index

83
g-index

83
ext. papers

9,749
ext. citations

5.8
avg. IF

5.88
L-index

#	Paper	IF	Citations
78	Global observed changes in daily climate extremes of temperature and precipitation. <i>Journal of Geophysical Research</i> , 2006 , 111,		2250
77	Climate extremes indices in the CMIP5 multimodel ensemble: Part 2. Future climate projections. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 2473-2493	4.4	866
76	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	791
75	Changes in temperature and precipitation extremes in the CMIP5 ensemble. <i>Climatic Change</i> , 2013 , 119, 345-357	4.5	652
74	Weakening of the stratospheric polar vortex by Arctic sea-ice loss. <i>Nature Communications</i> , 2014 , 5, 4646	7.4	400
73	Climatology and Interannual Variability of Arctic Cyclone Activity: 1948-2002. <i>Journal of Climate</i> , 2004 , 17, 2300-2317	4.4	319
72	Enhanced poleward moisture transport and amplified northern high-latitude wetting trend. <i>Nature Climate Change</i> , 2013 , 3, 47-51	21.4	222
71	Recent radical shifts of atmospheric circulations and rapid changes in Arctic climate system. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	214
70	Divergent consensus on Arctic amplification influence on midlatitude severe winter weather. <i>Nature Climate Change</i> , 2020 , 10, 20-29	21.4	200
69	Toward a Seasonally Ice-Covered Arctic Ocean: Scenarios from the IPCC AR4 Model Simulations. <i>Journal of Climate</i> , 2006 , 19, 1730-1747	4.4	190
68	Consistency and discrepancy in the atmospheric response to Arctic sea-ice loss across climate models. <i>Nature Geoscience</i> , 2018 , 11, 155-163	18.3	171
67	Recently amplified arctic warming has contributed to a continual global warming trend. <i>Nature Climate Change</i> , 2017 , 7, 875-879	21.4	151
66	Human-induced Arctic moistening. <i>Science</i> , 2008 , 320, 518-20	33.3	137
65	The atmospheric role in the Arctic water cycle: A review on processes, past and future changes, and their impacts. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016 , 121, 586-620	3.7	136
64	Simulation and Projection of Arctic Freshwater Budget Components by the IPCC AR4 Global Climate Models. <i>Journal of Hydrometeorology</i> , 2007 , 8, 571-589	3.7	113
63	A stratospheric pathway linking a colder Siberia to Barents-Kara Sea sea ice loss. <i>Science Advances</i> , 2018 , 4, eaat6025	14.3	100
62	The Polar Amplification Model Intercomparison Project (PAMIP) contribution to CMIP6: investigating the causes and consequences of polar amplification. <i>Geoscientific Model Development</i> , 2019 , 12, 1139-1164	6.3	93

61	Different ocean states and transient characteristics in Last Glacial Maximum simulations and implications for deglaciation. <i>Climate of the Past</i> , 2013 , 9, 2319-2333	3.9	86
60	The Sea Ice Extent Anomaly in the North Pacific and Its Impact on the East Asian Summer Monsoon Rainfall. <i>Journal of Climate</i> , 2004 , 17, 3434-3447	4.4	81
59	Weakened cyclones, intensified anticyclones and recent extreme cold winter weather events in Eurasia. <i>Environmental Research Letters</i> , 2012 , 7, 044044	6.2	80
58	Projected decline in spring snow depth on Arctic sea ice caused by progressively later autumn open ocean freeze-up this century. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	80
57	Observed forcing-feedback processes between Northern Hemisphere atmospheric circulation and Arctic sea ice coverage. <i>Journal of Geophysical Research</i> , 2010 , 115,		77
56	North Atlantic warming: patterns of long-term trend and multidecadal variability. <i>Climate Dynamics</i> , 2010 , 34, 439-457	4.2	77
55	Intrinsic versus Forced Variation in Coupled Climate Model Simulations over the Arctic during the Twentieth Century*. <i>Journal of Climate</i> , 2007 , 20, 1093-1107	4.4	64
54	Arctic Sea Ice and Freshwater Changes Driven by the Atmospheric Leading Mode in a Coupled Sea Ice-Ocean Model. <i>Journal of Climate</i> , 2003 , 16, 2159-2177	4.4	64
53	Arctic sea-ice change: a grand challenge of climate science. <i>Journal of Glaciology</i> , 2010 , 56, 1115-1121	3.4	63
52	Major cause of unprecedented Arctic warming in January 2016: Critical role of an Atlantic windstorm. <i>Scientific Reports</i> , 2017 , 7, 40051	4.9	62
51	Multidecadal Variability of North Atlantic Temperature and Salinity during the Twentieth Century. <i>Journal of Climate</i> , 2005 , 18, 4562-4581	4.4	55
50	Remotely modulated tropical-North Pacific ocean-atmosphere interactions by the South Asian high. <i>Atmospheric Research</i> , 2009 , 94, 45-60	5.4	54
49	Heat and Freshwater Budgets and Pathways in the Arctic Mediterranean in a Coupled Ocean/Sea-ice Model 2001 , 57, 207-234		46
48	Large-Scale Climate Controls of Interior Alaska River Ice Breakup. <i>Journal of Climate</i> , 2011 , 24, 286-297	4.4	43
47	An atmospheric origin of the multi-decadal bipolar seesaw. <i>Scientific Reports</i> , 2015 , 5, 8909	4.9	33
46	Diagnosis of the record discharge of Arctic-draining Eurasian rivers in 2007. <i>Environmental Research Letters</i> , 2009 , 4, 045011	6.2	32
45	Summer Arctic Atmospheric Circulation Response to Spring Eurasian Snow Cover and Its Possible Linkage to Accelerated Sea Ice Decrease. <i>Journal of Climate</i> , 2014 , 27, 6551-6558	4.4	31
44	. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2010 , 62, 220-227	2	30

43	Increasing riverine heat influx triggers Arctic sea ice decline and oceanic and atmospheric warming. <i>Science Advances</i> , 2020 , 6,	14.3	25
42	Role of extratropical cyclones in the recently observed increase in poleward moisture transport into the Arctic Ocean. <i>Advances in Atmospheric Sciences</i> , 2018 , 35, 85-94	2.9	23
41	Continuously amplified warming in the Alaskan Arctic: Implications for estimating global warming hiatus. <i>Geophysical Research Letters</i> , 2017 , 44, 9029-9038	4.9	23
40	How do intermittency and simultaneous processes obfuscate the Arctic influence on midlatitude winter extreme weather events?. <i>Environmental Research Letters</i> , 2021 , 16, 043002	6.2	23
39	Higher Laurentide and Greenland ice sheets strengthen the North Atlantic ocean circulation. <i>Climate Dynamics</i> , 2015 , 45, 139-150	4.2	21
38	ARCTIC CHANGE AND POSSIBLE INFLUENCE ON MID-LATITUDE CLIMATE AND WEATHER: A US CLIVAR White Paper 2018 , n/a,		19
37	Impact of the surface wind flow on precipitation characteristics over the southern Himalayas: GPM observations. <i>Atmospheric Research</i> , 2018 , 202, 10-22	5.4	18
36	Interannual Variability and Long-Term Changes of Atmospheric Circulation over the Chukchi and Beaufort Seas. <i>Journal of Climate</i> , 2014 , 27, 4871-4889	4.4	17
35	Wind-Sea surface temperature-Sea ice relationship in the Chukchi-Beaufort Seas during autumn. <i>Environmental Research Letters</i> , 2018 , 13, 034008	6.2	15
34	Critical mechanisms for the formation of extreme arctic sea-ice extent in the summers of 2007 and 1996. <i>Climate Dynamics</i> , 2014 , 43, 53-70	4.2	15
33	The role of stratosphere vortex downward intrusion in a long-lasting late-summer Arctic storm. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017 , 143, 1953-1966	6.4	14
32	Mesoscale Climatology and Variation of Surface Winds over the Chukchi-Beaufort Coastal Areas. <i>Journal of Climate</i> , 2016 , 29, 2721-2739	4.4	12
31	Observed Evidence of an Impact of the Antarctic Sea Ice Dipole on the Antarctic Oscillation. <i>Journal of Climate</i> , 2011 , 24, 4508-4518	4.4	12
30	Arctic Intense Summer Storms and Their Impacts on Sea Ice: A Regional Climate Modeling Study. <i>Atmosphere</i> , 2019 , 10, 218	2.7	11
29	Reexamination of Fram Strait sea ice export and its role in recently accelerated Arctic sea ice retreat. <i>Climate Dynamics</i> , 2019 , 53, 1823-1841	4.2	10
28	The Polar Vortex and Extreme Weather: The Beast from the East in Winter 2018. <i>Atmosphere</i> , 2020 , 11, 664	2.7	10
27	Impacts of extratropical storm tracks on Arctic sea ice export through Fram Strait. <i>Climate Dynamics</i> , 2019 , 52, 2235-2246	4.2	10
26	North American winter-spring storms: Modeling investigation on tropical Pacific sea surface temperature impacts. <i>Geophysical Research Letters</i> , 2013 , 40, 5228-5233	4.9	10

25	Driving Roles of Tropospheric and Stratospheric Thermal Anomalies in Intensification and Persistence of the Arctic Superstorm in 2012. <i>Geophysical Research Letters</i> , 2017 , 44, 10,017	4.9	9
24	The Polar Amplification Model Intercomparison Project (PAMIP) contribution to CMIP6: investigating the causes and consequences of polar amplification 2018 ,		7
23	Eurasian Winter Storm Activity at the End of the Century: A CMIP5 Multi-model Ensemble Projection. <i>Earths Future</i> , 2018 , 6, 61-70	7.9	6
22	Assimilating QuikSCAT Ocean Surface Winds with the Weather Research and Forecasting Model for Surface Wind-Field Simulation over the Chukchi/Beaufort Seas. <i>Boundary-Layer Meteorology</i> , 2013 , 148, 207-226	3.4	6
21	North Atlantic variability driven by stochastic forcing in a simple model. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2012 , 64, 18695	2	6
20	Fundamental Characteristics of Tropical Rain Cell Structures as Measured by TRMM PR. <i>Journal of Meteorological Research</i> , 2020 , 34, 1129-1150	2.3	6
19	Lateral Boundary of Cirrus Cloud from CALIPSO Observations. <i>Scientific Reports</i> , 2017 , 7, 14221	4.9	5
18	A soil moisture assimilation scheme using satellite-retrieved skin temperature in meso-scale weather forecast model. <i>Atmospheric Research</i> , 2010 , 95, 333-352	5.4	5
17	Role of Intense Arctic Storm in Accelerating Summer Sea Ice Melt: An In Situ Observational Study. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL092714	4.9	5
16	Impact of Daily Arctic Sea Ice Variability in CAM3.0 during Fall and Winter. <i>Journal of Climate</i> , 2013 , 26, 1939-1955	4.4	4
15	Quality Assessment of Meteorological Data for the Beaufort and Chukchi Sea Coastal Region using Automated Routines. <i>Arctic</i> , 2014 , 67, 104	2.1	4
14	Dynamical Processes in the Arctic Atmosphere. <i>Springer Polar Sciences</i> , 2020 , 1-51	0.4	4
13	Role of Ferrel cell in daily variability of Northern Hemisphere Annular Mode. <i>Science Bulletin</i> , 2014 , 59, 3457-3464		3
12	Global warming mode of atmospheric circulation. <i>Atmospheric Science Letters</i> , 2002 , 3, 1-13	2.4	3
11	Structure of Cyclonic Precipitation in the Northern Pacific Storm Track Measured by GPM DPR. <i>Journal of Hydrometeorology</i> , 2020 , 21, 227-240	3.7	3
10	Freshwater in the Arctic Ocean 2010–2019. <i>Ocean Science</i> , 2021 , 17, 1081-1102	4	3
9	Relationship between Extreme Precipitation and Temperature in Two Different Regions: The Tibetan Plateau and Middle-East China. <i>Journal of Meteorological Research</i> , 2019 , 33, 870-884	2.3	2
8	A two-way stratosphere-troposphere coupling of submonthly zonal-mean circulations in the Arctic. <i>Advances in Atmospheric Sciences</i> , 2013 , 30, 1771-1785	2.9	2

7	Coordinated changes of sea ice over the Beaufort and Chukchi seas: regional and seasonal perspectives. <i>Polar Research</i> , 2003 , 22, 83-90	2	2
6	Arctic Storm and Its Impact on the Surface Winds over the Chukchi-Beaufort Seas 2016 , 21-34		2
5	A Modeling Investigation of Northern Hemisphere Extratropical Cyclone Activity in Spring: The Linkage between Extreme Weather and Arctic Sea Ice Forcing. <i>Climate</i> , 2019 , 7, 25	3.1	2
4	A Critical Role of Extreme Atlantic Windstorms in Arctic Warming. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2020 , 56, 17-28	2.1	2
3	Preface to the special issue: Towards improving understanding and prediction of Arctic change and its linkage with Eurasian mid-latitude weather and climate. <i>Advances in Atmospheric Sciences</i> , 2018 , 35, 1-4	2.9	2
2	Alaskan Regional Climate Changes in Dynamically Downscaled CMIP5 Simulations 2016 , 47-60		1
1	Coordinated changes of sea ice over the Beaufort and Chukchi seas: regional and seasonal perspectives. <i>Polar Research</i> , 2003 , 22, 83-90	2	