

Zhaomin Wang

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

2,042
citations

394421

19
h-index

254184

43
g-index

65
all docs

65
docs citations

65
times ranked

2629
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-annular atmospheric circulation change induced by stratospheric ozone depletion and its role in the recent increase of Antarctic sea ice extent. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	410
2	Thermohaline circulation hysteresis: A model intercomparison. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	344
3	Assessment of surface winds over the Atlantic, Indian, and Pacific Ocean sectors of the Southern Ocean in CMIP5 models: historical bias, forcing response, and state dependence. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 547-562.	3.3	173
4	The Dominant Role of Extreme Precipitation Events in Antarctic Snowfall Variability. <i>Geophysical Research Letters</i> , 2019, 46, 3502-3511.	4.0	98
5	Tropical teleconnection impacts on Antarctic climate changes. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 680-698.	29.7	85
6	Simulation of the last glacial inception and rapid ice sheet growth in the McGill Paleoclimate Model. <i>Geophysical Research Letters</i> , 2002, 29, 17-1-17-4.	4.0	77
7	Recent Decrease of Summer Sea Ice in the Weddell Sea, Antarctica. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087127.	4.0	67
8	A Simple Coupled Atmosphere-Ocean-Sea Ice-Land Surface Model for Climate and Paleoclimate Studies*. <i>Journal of Climate</i> , 2000, 13, 1150-1172.	3.2	55
9	Glacial abrupt climate changes and Dansgaard-Oeschger oscillations in a coupled climate model. <i>Paleoceanography</i> , 2006, 21, n/a-n/a.	3.0	41
10	An atmospheric origin of the multi-decadal bipolar seesaw. <i>Scientific Reports</i> , 2015, 5, 8909.	3.3	40
11	Rapid Decline of Total Antarctic Sea Ice Extent during 2014-16 Controlled by Wind-Driven Sea Ice Drift. <i>Journal of Climate</i> , 2019, 32, 5381-5395.	3.2	39
12	The greening of the McGill Paleoclimate Model. Part II: Simulation of Holocene millennial-scale natural climate changes. <i>Climate Dynamics</i> , 2005, 24, 481-496.	3.8	38
13	Mean, Variability, and Trend of Southern Ocean Wind Stress: Role of Wind Fluctuations. <i>Journal of Climate</i> , 2018, 31, 3557-3573.	3.2	35
14	On the response of Southern Hemisphere subpolar gyres to climate change in coupled climate models. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 1070-1086.	2.6	33
15	Response of the thermohaline circulation to cold climates. <i>Paleoceanography</i> , 2002, 17, 6-1-6-14.	3.0	29
16	Modeling modified Circumpolar Deep Water intrusions onto the Prydz Bay continental shelf, East Antarctica. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 5198-5217.	2.6	29
17	Ice Sheet-Thermohaline Circulation Interactions in a Climate Model of Intermediate Complexity. <i>Journal of Oceanography</i> , 2001, 57, 481-494.	1.7	27
18	Impact of Synoptic Atmospheric Forcing on the Mean Ocean Circulation. <i>Journal of Climate</i> , 2016, 29, 5709-5724.	3.2	27

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19	Simulation of the last glacial inception with the green McGill Paleoclimate Model. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	24
20	On the Modified Circumpolar Deep Water Upwelling Over the Four Ladies Bank in Prydz Bay, East Antarctica. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 7819-7838.	2.6	23
21	The greening of the McGill Paleoclimate Model. Part I: Improved land surface scheme with vegetation dynamics. <i>Climate Dynamics</i> , 2005, 24, 469-480.	3.8	20
22	Cyclone-induced rapid creation of extreme Antarctic sea ice conditions. <i>Scientific Reports</i> , 2014, 4, 5317.	3.3	19
23	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.	3.8	19
24	Prolonged Marine Heatwaves in the Arctic: 1982~2020. <i>Geophysical Research Letters</i> , 2021, 48, .	4.0	19
25	Effects of historical land cover changes on climate. <i>Science Bulletin</i> , 2007, 52, 2575-2583.	1.7	18
26	Role of Intense Arctic Storm in Accelerating Summer Sea Ice Melt: An In Situ Observational Study. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092714.	4.0	18
27	Simulation of long-term future climate changes with the green McGill paleoclimate model: the next glacial inception. <i>Climatic Change</i> , 2006, 79, 381-401.	3.6	17
28	A parametrization of solar energy disposition in the climate system. <i>Atmosphere - Ocean</i> , 2004, 42, 113-125.	1.6	15
29	Decadal-Mean Impact of Including Ocean Surface Currents in Bulk Formulas on Surface Air~Sea Fluxes and Ocean General Circulation. <i>Journal of Climate</i> , 2017, 30, 9511-9525.	3.2	15
30	Impacts of High-Frequency Atmospheric Forcing on Southern Ocean Circulation and Antarctic Sea Ice. <i>Advances in Atmospheric Sciences</i> , 2020, 37, 515-531.	4.3	15
31	Impacts of extratropical storm tracks on Arctic sea ice export through Fram Strait. <i>Climate Dynamics</i> , 2019, 52, 2235-2246.	3.8	14
32	Impacts of open-ocean deep convection in the Weddell Sea on coastal and bottom water temperature. <i>Climate Dynamics</i> , 2017, 48, 2967-2981.	3.8	13
33	The biogeophysical effects of extreme afforestation in modeling future climate. <i>Theoretical and Applied Climatology</i> , 2014, 118, 511-521.	2.8	12
34	Eurasian Winter Storm Activity at the End of the Century: A CMIP5 Multi~model Ensemble Projection. <i>Earth's Future</i> , 2018, 6, 61-70.	6.3	12
35	On the response of the Lorenz energy cycle for the Southern Ocean to intensified westerlies. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 2465-2493.	2.6	11
36	On the response of the global subduction rate to globalwarming in coupled climate models. <i>Advances in Atmospheric Sciences</i> , 2014, 31, 211-218.	4.3	10

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37	Mean and Seasonal Circulation of the Eastern Chukchi Sea From Moored Timeseries in 2013–2014. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016863.	2.6	9
38	Responses of sub-ice platelet layer thickening rate and frazil-ice concentration to variations in ice-shelf water supercooling in McMurdo Sound, Antarctica. <i>Cryosphere</i> , 2019, 13, 265-280.	3.9	8
39	An evaluation of the Arctic clouds and surface radiative fluxes in CMIP6 models. <i>Acta Oceanologica Sinica</i> , 2021, 40, 85-102.	1.0	8
40	Simulation of the climatic effects of natural forcings during the pre-industrial era. <i>Science Bulletin</i> , 2007, 52, 1545-1558.	1.7	7
41	Month-to-Month Variability of Autumn Sea Ice in the Barents and Kara Seas and Its Relationship to Winter Air Temperature in China. <i>Advances in Meteorology</i> , 2019, 2019, 1-13.	1.6	7
42	Two climatic states and feedbacks on thermohaline circulation in an Earth system model of intermediate complexity. <i>Climate Dynamics</i> , 2005, 25, 299-314.	3.8	6
43	Global warming caused by afforestation in the Southern Hemisphere. <i>Ecological Indicators</i> , 2015, 52, 371-378.	6.3	6
44	Vertical Modification on Depth-Integrated Ice Shelf Water Plume Modeling Based on an Equilibrium Vertical Profile of Suspended Frazil Ice Concentration. <i>Journal of Physical Oceanography</i> , 2017, 47, 2773-2792.	1.7	6
45	Seasonal Prediction of the Yangtze River Runoff Using a Partial Least Squares Regression Model. <i>Atmosphere - Ocean</i> , 2018, 56, 117-128.	1.6	6
46	Impacts of Changed Ice-Ocean Stress on the North Atlantic Ocean: Role of Ocean Surface Currents. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	6
47	On the response of subduction in the South Pacific to an intensification of westerlies and heat flux in an eddy permitting ocean model. <i>Advances in Atmospheric Sciences</i> , 2017, 34, 521-531.	4.3	5
48	Southern Ocean Wind Stress in CMIP5 Models: Role of Wind Fluctuations. <i>Journal of Climate</i> , 2020, 33, 1209-1226.	3.2	5
49	Effects of regional afforestation on global climate. <i>Journal of Water and Climate Change</i> , 2015, 6, 191-199.	2.9	4
50	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.	2.8	4
51	Modeling the vertical structure of the ice shelf–ocean boundary current under supercooled condition with suspended frazil ice processes: A case study underneath the Amery Ice Shelf, East Antarctica. <i>Ocean Modelling</i> , 2020, 156, 101712.	2.4	4
52	An assessment of Arctic cloud water paths in atmospheric reanalyses. <i>Acta Oceanologica Sinica</i> , 2021, 40, 46-57.	1.0	4
53	Contribution of surface roughness to simulations of historical deforestation. <i>Physics and Chemistry of the Earth</i> , 2015, 87-88, 119-125.	2.9	2
54	Topography-mediated Transport of Warm Deep Water across the Continental Shelf Slope, East Antarctica. <i>Journal of Physical Oceanography</i> , 2022, , .	1.7	2

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55	Energetics of Eddy-Mean Flow Interactions in the Amery Ice Shelf Cavity. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	1
56	Open-Ocean Polynyas in the Cooperation Sea, Antarctica. <i>Journal of Physical Oceanography</i> , 2022, 52, 1363-1381.	1.7	1
57	Correspondence: Reply to the comment of weaver and Eby on the Paper "œa parametrization of solar energy disposition in the climate system" (Wang et al., 2004). <i>Atmosphere - Ocean</i> , 2004, 42, 295-296.	1.6	0
58	A preliminary study to investigate the biogeophysical impact of desertification on climate based on different latitudinal bands. <i>International Journal of Climatology</i> , 2016, 36, 945-955.	3.5	0
59	Polar climate system modeling in China: Recent progress and future challenges. <i>Science China Earth Sciences</i> , 2019, 62, 1076-1091.	5.2	0
60	Modeling Mesoscale Eddies Generated Over the Continental Slope, East Antarctica. <i>Frontiers in Earth Science</i> , 2022, 10, .	1.8	0