

Muyin Wang

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

7,806
citations

61984
43
h-index

66911
78
g-index

83
all docs

83
docs citations

83
times ranked

9710
citing authors

#	ARTICLE	IF	CITATIONS
1	A sea ice free summer Arctic within 30 years?. Geophysical Research Letters, 2009, 36, .	4.0	524
2	Key indicators of Arctic climate change: 1971â€“2017. Environmental Research Letters, 2019, 14, 045010.	5.2	471
3	Large-scale atmospheric circulation changes are associated with the recent loss of Arctic sea ice. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 62, 1.	1.7	458
4	When will the summer Arctic be nearly sea ice free?. Geophysical Research Letters, 2013, 40, 2097-2101.	4.0	443
5	Warm Arcticâ€”cold continents: climate impacts of the newly open Arctic Sea. Polar Research, 2011, 30, 15787.	1.6	338
6	A sea ice free summer Arctic within 30Âyears: An update from CMIP5 models. Geophysical Research Letters, 2012, 39, .	4.0	324
7	The polar regions in a 2Â°C warmer world. Science Advances, 2019, 5, eaaw9883.	10.3	289
8	The urgency of Arctic change. Polar Science, 2019, 21, 6-13.	1.2	247
9	Arctic air temperature change amplification and the Atlantic Multidecadal Oscillation. Geophysical Research Letters, 2009, 36, .	4.0	227
10	Future Arctic climate changes: Adaptation and mitigation time scales. Earth's Future, 2014, 2, 68-74.	6.3	224
11	The recent shift in early summer Arctic atmospheric circulation. Geophysical Research Letters, 2012, 39, .	4.0	196
12	The recent Arctic warm period. Tellus, Series A: Dynamic Meteorology and Oceanography, 2008, 60, 589-597.	1.7	191
13	State of the Climate in 2017. Bulletin of the American Meteorological Society, 2018, 99, Si-S310.	3.3	160
14	The Arctic climate paradox: The recent decrease of the Arctic Oscillation. Geophysical Research Letters, 2005, 32, .	4.0	153
15	Detection and Attribution of Climate Change: from Global to Regional. , 2014, , 867-952.		144
16	State of the Climate in 2015. Bulletin of the American Meteorological Society, 2016, 97, Si-S275.	3.3	142
17	State of the Climate in 2013. Bulletin of the American Meteorological Society, 2014, 95, S1-S279.	3.3	138
18	State of the Climate in 2010. Bulletin of the American Meteorological Society, 2011, 92, S1-S236.	3.3	135

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19	State of the Climate in 2016. Bulletin of the American Meteorological Society, 2017, 98, S1-S280.	3.3	132
20	State of the Climate in 2012. Bulletin of the American Meteorological Society, 2013, 94, S1-S258.	3.3	129
21	Seasonal and Regional Variation of Pan-Arctic Surface Air Temperature over the Instrumental Record*. Journal of Climate, 2004, 17, 3263-3282.	3.2	127
22	Intercomparison of models representing direct shortwave radiative forcing by sulfate aerosols. Journal of Geophysical Research, 1998, 103, 16979-16998.	3.3	124
23	State of the Climate in 2009. Bulletin of the American Meteorological Society, 2010, 91, s1-s222.	3.3	121
24	State of the Climate in 2011. Bulletin of the American Meteorological Society, 2012, 93, S1-S282.	3.3	121
25	Future regional Arctic sea ice declines. Geophysical Research Letters, 2007, 34, .	4.0	108
26	Detecting Arctic Climate Change Using K _{1/2} ppen Climate Classification. Climatic Change, 2004, 67, 43-62.	3.6	88
27	Considerations in the Selection of Global Climate Models for Regional Climate Projections: The Arctic as a Case Study*. Journal of Climate, 2011, 24, 1583-1597.	3.2	88
28	Future climate of the north Pacific Ocean. Eos, 2007, 88, 178-182.	0.1	86
29	Climate projections for selected large marine ecosystems. Journal of Marine Systems, 2010, 79, 258-266.	2.1	86
30	Projected future duration of the sea-ice-free season in the Alaskan Arctic. Progress in Oceanography, 2015, 136, 50-59.	3.2	82
31	Recent Extreme Arctic Temperatures are due to a Split Polar Vortex. Journal of Climate, 2016, 29, 5609-5616.	3.2	80
32	State of the Climate in 2014. Bulletin of the American Meteorological Society, 2015, 96, ES1-ES32.	3.3	78
33	The third Arctic climate pattern: 1930s and early 2000s. Geophysical Research Letters, 2005, 32, .	4.0	76
34	State of the Climate in 2008. Bulletin of the American Meteorological Society, 2009, 90, S1-S196.	3.3	74
35	Future climate of the Bering and Chukchi Seas projected by global climate models. Deep-Sea Research Part II: Topical Studies in Oceanography, 2012, 65-70, 46-57.	1.4	74
36	Intrinsic versus Forced Variation in Coupled Climate Model Simulations over the Arctic during the Twentieth Century*. Journal of Climate, 2007, 20, 1093-1107.	3.2	73

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37	Annual Mean Arctic Amplification 1970â€“2020: Observed and Simulated by CMIP6 Climate Models. Geophysical Research Letters, 2022, 49, .	4.0	71
38	The 2020 Siberian heat wave. International Journal of Climatology, 2021, 41, E2341.	3.5	68
39	How do intermittency and simultaneous processes obfuscate the Arctic influence on midlatitude winter extreme weather events?. Environmental Research Letters, 2021, 16, 043002.	5.2	63
40	Sea-ice cover timing in the Pacific Arctic: The present and projections to mid-century by selected CMIP5 models. Deep-Sea Research Part II: Topical Studies in Oceanography, 2018, 152, 22-34.	1.4	62
41	Projected future biophysical states of the Bering Sea. Deep-Sea Research Part II: Topical Studies in Oceanography, 2016, 134, 30-47.	1.4	61
42	Recent Bering Sea warm and cold events in a 95-year context. Deep-Sea Research Part II: Topical Studies in Oceanography, 2012, 65-70, 6-13.	1.4	58
43	Impact of analysis uncertainty upon regional atmospheric moisture flux. Journal of Geophysical Research, 1996, 101, 7291-7303.	3.3	55
44	Climate change, teleconnection patterns, and regional processes forcing marine populations in the Pacific. Journal of Marine Systems, 2010, 79, 245-257.	2.1	49
45	Diminishing Arctic Sea Ice Promotes Stronger Surface Winds. Journal of Climate, 2018, 31, 8101-8119.	3.2	44
46	Extreme Cold Events from East Asia to North America in Winter 2020/21: Comparisons, Causes, and Future Implications. Advances in Atmospheric Sciences, 2022, 39, 553-565.	4.3	44
47	Next-generation regional ocean projections for living marine resource management in a changing climate. ICES Journal of Marine Science, 2021, 78, 1969-1987.	2.5	42
48	Multi-model seasonal forecast of Arctic sea-ice: forecast uncertainty at pan-Arctic and regional scales. Climate Dynamics, 2017, 49, 1399-1410.	3.8	41
49	A multivariate analysis of observed and modeled biophysical variability on the Bering Sea shelf: Multidecadal hindcasts (1970â€“2009) and forecasts (2010â€“2040). Deep-Sea Research Part II: Topical Studies in Oceanography, 2013, 94, 121-139.	1.4	39
50	Recent Temperature Changes in the Western Arctic during Spring*. Journal of Climate, 2002, 15, 1702-1716.	3.2	38
51	Imaginary part of the refractive index of sulfates and nitrates in the 07â€“26-Âµm spectral region. Applied Optics, 1997, 36, 3622.	2.1	35
52	On the physical processes associated with the water budget and discharge of the Mackenzie basin during the 1994/95 water year. Atmosphere - Ocean, 2002, 40, 125-143.	1.6	34
53	Increased Variability in the Early Winter Subarctic North American Atmospheric Circulation*. Journal of Climate, 2015, 28, 7297-7305.	3.2	33
54	Predictability in limited area and global models. Meteorology and Atmospheric Physics, 1997, 63, 53-69.	2.0	32

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55	Climate to fish: Synthesizing field work, data and models in a 39-year retrospective analysis of seasonal processes on the eastern Bering Sea shelf and slope. Deep-Sea Research Part II: Topical Studies in Oceanography, 2016, 134, 390-412.	1.4	32
56	Projected biophysical conditions of the Bering Sea to 2100 under multiple emission scenarios. ICES Journal of Marine Science, 2019, 76, 1937-1937.	2.5	32
57	Arctic-midlatitude weather linkages in North America. Polar Science, 2018, 16, 1-9.	1.2	30
58	Modelling ecological responses of Pacific saury (<i>Cololabis saira</i>) to future climate change and its uncertainty. ICES Journal of Marine Science, 2013, 70, 980-990.	2.5	29
59	Resolving Future Arctic/Midlatitude Weather Connections. Earth's Future, 2018, 6, 1146-1152.	6.3	27
60	Recent increased warming of the Alaskan marine Arctic due to midlatitude linkages. Advances in Atmospheric Sciences, 2018, 35, 75-84.	4.3	26
61	Past and future interannual variability in Arctic sea ice in coupled climate models. Cryosphere, 2019, 13, 113-124.	3.9	23
62	The Polar Vortex and Extreme Weather: The Beast from the East in Winter 2018. Atmosphere, 2020, 11, 664.	2.3	22
63	Influences of sea ice on the Eastern Bering Sea: NCAR CESM simulations and comparison with observations. Deep-Sea Research Part II: Topical Studies in Oceanography, 2014, 109, 27-38.	1.4	20
64	What Do Global Climate Models Tell Us about Future Arctic Sea Ice Coverage Changes?. Climate, 2020, 8, 15.	2.8	20
65	An integrated index of recent pan-Arctic climate change. Environmental Research Letters, 2019, 14, 035006.	5.2	16
66	Impact of the winter polar vortex on greater North America. International Journal of Climatology, 2019, 39, 5815-5821.	3.5	15
67	Change in the Arctic influence on Bering Sea climate during the twentieth century. International Journal of Climatology, 2006, 26, 531-539.	3.5	13
68	Subseasonal atmospheric regimes and ocean background forcing of Pacific Arctic sea ice melt onset. Climate Dynamics, 2019, 52, 5657-5672.	3.8	11
69	Seasonal transition dates can reveal biases in Arctic sea ice simulations. Cryosphere, 2020, 14, 2977-2997.	3.9	11
70	Exploring the Pacific Arctic Seasonal Ice Zone With Saildrone USVs. Frontiers in Marine Science, 2021, 8, .	2.5	9
71	Global variable resolution simulations of Mississippi River basin rains of summer 1993. Journal of Geophysical Research, 1999, 104, 19399-19414.	3.3	7
72	Comparison of atmospheric forcing in four sub-arctic seas. Deep-Sea Research Part II: Topical Studies in Oceanography, 2007, 54, 2543-2559.	1.4	7

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73	Projected biophysical conditions of the Bering Sea to 2100 under multiple emission scenarios. ICES Journal of Marine Science, 0, , .	2.5	7
74	Preface to the special issue: Towards improving understanding and prediction of Arctic change and its linkage with Eurasian mid-latitude weather and climate. Advances in Atmospheric Sciences, 2018, 35, 1-4.	4.3	6
75	Recent and Future Changes in the Meteorology of the Pacific Arctic. , 2014, , 17-30.		6
76	Bering Sea optical and biological properties from MODIS. Remote Sensing of Environment, 2015, 163, 240-252.	11.0	4
77	Precursors of September Arctic Sea-Ice Extent Based on Causal Effect Networks. Atmosphere, 2018, 9, 437.	2.3	4
78	Impact of Model Physics on Seasonal Forecasts of Surface Air Temperature in the Arctic. Monthly Weather Review, 2017, 145, 773-782.	1.4	3
79	Using a skillful statistical model to predict September sea ice covering Arctic shipping routes. Acta Oceanologica Sinica, 2020, 39, 11-25.	1.0	3
80	Potential Arctic connections to eastern North American cold winters. Czech Polar Reports, 2017, 7, 232-243.	0.6	2
81	Editorial “The Impacts of Climate Change on Atmospheric Circulations” Atmosphere, 2020, 11, 1163.	2.3	1
82	Facilitating International Collaboration on Climate Change Research. Bulletin of the American Meteorological Society, 2020, 101, E650-E654.	3.3	0
83	Frequency of Winter Coupled North Pacific/North America Circulation Regimes. Climate, 2022, 10, 54.	2.8	0