

Mathew Barlow

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

5,556
citations

136950

32
h-index

214800

47
g-index

52
all docs

52
docs citations

52
times ranked

6464
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Arctic amplification and extreme mid-latitude weather. <i>Nature Geoscience</i> , 2014, 7, 627-637.	12.9	1,729
2	Warming of the Indian Ocean threatens eastern and southern African food security but could be mitigated by agricultural development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 11081-11086.	7.1	374
3	Stratosphere-Troposphere Coupling and Links with Eurasian Land Surface Variability. <i>Journal of Climate</i> , 2007, 20, 5335-5343.	3.2	280
4	Drought in Central and Southwest Asia: La Niña, the Warm Pool, and Indian Ocean Precipitation. <i>Journal of Climate</i> , 2002, 15, 697-700.	3.2	255
5	Advances in understanding large-scale responses of the water cycle to climate change. <i>Annals of the New York Academy of Sciences</i> , 2020, 1472, 49-75.	3.8	226
6	North American extreme temperature events and related large scale meteorological patterns: a review of statistical methods, dynamics, modeling, and trends. <i>Climate Dynamics</i> , 2016, 46, 1151-1184.	3.8	199
7	More-Persistent Weak Stratospheric Polar Vortex States Linked to Cold Extremes. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 49-60.	3.3	177
8	Evolution of the North American Monsoon System. <i>Journal of Climate</i> , 1998, 11, 2238-2257.	3.2	173
9	A Review of Drought in the Middle East and Southwest Asia. <i>Journal of Climate</i> , 2016, 29, 8547-8574.	3.2	163
10	Global Meteorological Drought: A Synthesis of Current Understanding with a Focus on SST Drivers of Precipitation Deficits. <i>Journal of Climate</i> , 2016, 29, 3989-4019.	3.2	161
11	The NAO, the AO, and Global Warming: How Closely Related?. <i>Journal of Climate</i> , 2005, 18, 4498-4513.	3.2	156
12	Modulation of Daily Precipitation over Southwest Asia by the Madden-Julian Oscillation. <i>Monthly Weather Review</i> , 2005, 133, 3579-3594.	1.4	147
13	Linking Arctic variability and change with extreme winter weather in the United States. <i>Science</i> , 2021, 373, 1116-1121.	12.6	145
14	Patterns of coherent decadal and interdecadal climate signals in the Pacific Basin during the 20th century. <i>Geophysical Research Letters</i> , 2001, 28, 2069-2072.	4.0	139
15	Surface-to-space atmospheric waves from Hunga Tonga-Hunga Haapai eruption. <i>Nature</i> , 2022, 609, 741-746.	27.8	107
16	Linking Siberian Snow Cover to Precursors of Stratospheric Variability. <i>Journal of Climate</i> , 2014, 27, 5422-5432.	3.2	85
17	Climatology of Daily Precipitation and Extreme Precipitation Events in the Northeast United States. <i>Journal of Hydrometeorology</i> , 2015, 16, 2537-2557.	1.9	83
18	Influence of hurricane-related activity on North American extreme precipitation. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	81

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19	The regional forcing of Northern hemisphere drought during recent warm tropical west Pacific Ocean La Niña events. <i>Climate Dynamics</i> , 2014, 42, 3289-3311.	3.8	66
20	North American extreme precipitation events and related large-scale meteorological patterns: a review of statistical methods, dynamics, modeling, and trends. <i>Climate Dynamics</i> , 2019, 53, 6835-6875.	3.8	61
21	Decadal Fluctuations in Planetary Wave Forcing Modulate Global Warming in Late Boreal Winter. <i>Journal of Climate</i> , 2009, 22, 4418-4426.	3.2	53
22	Winter Weather Regimes in the Northeast United States. <i>Journal of Climate</i> , 2016, 29, 2963-2980.	3.2	53
23	Summertime influence of the Madden-Julian Oscillation on daily rainfall over Mexico and Central America. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	49
24	The Leading Pattern of Intraseasonal and Interannual Indian Ocean Precipitation Variability and Its Relationship with Asian Circulation during the Boreal Cold Season. <i>Journal of Climate</i> , 2012, 25, 7509-7526.	3.2	48
25	Identification of large-scale meteorological patterns associated with extreme precipitation in the US northeast. <i>Climate Dynamics</i> , 2018, 50, 1819-1839.	3.8	47
26	Disruptions of El Niño–Southern Oscillation Teleconnections by the Madden–Julian Oscillation. <i>Geophysical Research Letters</i> , 2014, 41, 998-1004.	4.0	46
27	La Niña diversity and Northwest Indian Ocean Rim teleconnections. <i>Climate Dynamics</i> , 2014, 43, 2707-2724.	3.8	45
28	Intraseasonal and Seasonal-to-Interannual Indian Ocean Convection and Hemispheric Teleconnections. <i>Journal of Climate</i> , 2013, 26, 8850-8867.	3.2	38
29	Examining the wintertime response to tropical convection over the Indian Ocean by modifying convective heating in a full atmospheric model. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	36
30	The Forcing of Southwestern Asia Teleconnections by Low-Frequency Sea Surface Temperature Variability during Boreal Winter. <i>Journal of Climate</i> , 2015, 28, 1511-1526.	3.2	36
31	The Forcing of Monthly Precipitation Variability over Southwest Asia during the Boreal Cold Season. <i>Journal of Climate</i> , 2015, 28, 7038-7056.	3.2	36
32	Dynamical analysis of extreme precipitation in the US northeast based on large-scale meteorological patterns. <i>Climate Dynamics</i> , 2019, 52, 1739-1760.	3.8	34
33	How Well Do CMIP6 Historical Runs Match Observed Northeast U.S. Precipitation and Extreme Precipitation–Related Circulation?. <i>Journal of Climate</i> , 2020, 33, 9835-9848.	3.2	34
34	Oceanic Origins of Historical Southwest Asia Precipitation During the Boreal Cold Season. <i>Journal of Climate</i> , 2017, 30, 2885-2903.	3.2	26
35	Cold Season Southwest Asia Precipitation Sensitivity to El Niño–Southern Oscillation Events. <i>Journal of Climate</i> , 2018, 31, 4463-4482.	3.2	19
36	Middle East and Southwest Asia Daily Precipitation Characteristics Associated with the Madden–Julian Oscillation during Boreal Winter. <i>Journal of Climate</i> , 2018, 31, 8843-8860.	3.2	15

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37	Climate Assessments for Local Action. Bulletin of the American Meteorological Society, 2019, 100, 2147-2152.	3.3	14
38	Simulation of Northeast U.S. Extreme Precipitation and Its Associated Circulation by CMIP5 Models. Journal of Climate, 2020, 33, 9817-9834.	3.2	13
39	Dynamics and Thermodynamics of the Regional Response to the Indian Monsoon Onset. Journal of Climate, 2011, 24, 5879-5886.	3.2	11
40	Characteristics, precursors, and potential predictability of Amu Darya Drought in an Earth system model large ensemble. Climate Dynamics, 2020, 55, 2185-2206.	3.8	10
41	Four distinct Northeast US heat wave circulation patterns and associated mechanisms, trends, and electric usage. Npj Climate and Atmospheric Science, 2021, 4, .	6.8	10
42	Clustering Analysis of Autumn Weather Regimes in the Northeast United States. Journal of Climate, 2021, 34, 7587-7605.	3.2	10
43	The Impact of a Hemispheric Circulation Regime on Fall Precipitation over North America. Journal of Hydrometeorology, 2010, 11, 1182-1189.	1.9	8
44	Is the North American monsoon self-limiting?. Geophysical Research Letters, 2013, 40, 4442-4447.	4.0	4
45	Africa and West Asia. , 2012, , 477-495.		4
46	Hydrometeorological Conditions Preceding Extreme Streamflow for the Charles and Mystic River Basins of Eastern Massachusetts. Journal of Hydrometeorology, 2019, 20, 1795-1812.	1.9	3
47	An evaluation of CMIP6 historical simulations of the cold season teleconnection between tropical Indo-Pacific sea surface temperatures and precipitation in Southwest Asia, the coastal Middle East, and Northern Pakistan and India. Journal of Climate, 2021, , 1-43.	3.2	3
48	Drought in the Middle East and Central-Southwest Asia During Winter 2013/14. Bulletin of the American Meteorological Society, 2015, 96, S71-S76.	3.3	0