

Matthew C Wheeler

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7070446/matthew-c-wheeler-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

79
papers

9,954
citations

40
h-index

84
g-index

84
ext. papers

11,026
ext. citations

4.5
avg, IF

6.28
L-index

#	Paper	IF	Citations
79	An All-Season Real-Time Multivariate MJO Index: Development of an Index for Monitoring and Prediction. <i>Monthly Weather Review</i> , 2004 , 132, 1917-1932	2.4	1704
78	Convectively Coupled Equatorial Waves: Analysis of Clouds and Temperature in the Wavenumber-Frequency Domain. <i>Journals of the Atmospheric Sciences</i> , 1999 , 56, 374-399	2.1	1248
77	Tropical Intraseasonal Variability in 14 IPCC AR4 Climate Models. Part I: Convective Signals. <i>Journal of Climate</i> , 2006 , 19, 2665-2690	4.4	614
76	Convectively coupled equatorial waves. <i>Reviews of Geophysics</i> , 2009 , 47,	23.1	564
75	On the Remote Drivers of Rainfall Variability in Australia. <i>Monthly Weather Review</i> , 2009 , 137, 3233-3253	3.4	501
74	Large-Scale Dynamical Fields Associated with Convectively Coupled Equatorial Waves. <i>Journals of the Atmospheric Sciences</i> , 2000 , 57, 613-640	2.1	372
73	Australian Rainfall and Surface Temperature Variations Associated with the Southern Hemisphere Annular Mode. <i>Journal of Climate</i> , 2007 , 20, 2452-2467	4.4	355
72	Real-time multivariate indices for the boreal summer intraseasonal oscillation over the Asian summer monsoon region. <i>Climate Dynamics</i> , 2013 , 40, 493-509	4.2	272
71	Seasonal Dependence of the MJO-ENSO Relationship. <i>Journal of Climate</i> , 2007 , 20, 531-543	4.4	259
70	A Comparison of OLR and Circulation-Based Indices for Tracking the MJO. <i>Monthly Weather Review</i> , 2014 , 142, 1697-1715	2.4	256
69	Diagnosis of the MJO Modulation of Tropical Cyclogenesis Using an Empirical Index. <i>Journals of the Atmospheric Sciences</i> , 2009 , 66, 3061-3074	2.1	246
68	MJO Simulation Diagnostics. <i>Journal of Climate</i> , 2009 , 22, 3006-3030	4.4	238
67	Modulation of South Indian Ocean Tropical Cyclones by the Madden-Julian Oscillation and Convectively Coupled Equatorial Waves. <i>Monthly Weather Review</i> , 2006 , 134, 638-656	2.4	218
66	Impacts of the Madden-Julian Oscillation on Australian Rainfall and Circulation. <i>Journal of Climate</i> , 2009 , 22, 1482-1498	4.4	203
65	A Framework for Assessing Operational Madden-Julian Oscillation Forecasts. <i>Bulletin of the American Meteorological Society</i> , 2010 , 91, 1247-1258	6.1	170
64	Prediction of the Madden-Julian oscillation with the POAMA dynamical prediction system. <i>Climate Dynamics</i> , 2011 , 36, 649-661	4.2	155
63	The Year of Tropical Convection (May 2008-April 2010): Climate Variability and Weather Highlights. <i>Bulletin of the American Meteorological Society</i> , 2012 , 93, 1189-1218	6.1	150

62	Cracking the MJO nut. <i>Geophysical Research Letters</i> , 2013 , 40, 1223-1230	4.9	141
61	Near-global impact of the Madden-Julian Oscillation on rainfall. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	138
60	Large-Scale Atmospheric and Oceanic Conditions during the 2011-12 DYNAMO Field Campaign. <i>Monthly Weather Review</i> , 2013 , 141, 4173-4196	2.4	129
59	Modulation of Daily Precipitation over Southwest Asia by the Madden-Julian Oscillation. <i>Monthly Weather Review</i> , 2005 , 133, 3579-3594	2.4	125
58	Real-Time Monitoring and Prediction of Modes of Coherent Synoptic to Intraseasonal Tropical Variability. <i>Monthly Weather Review</i> , 2001 , 129, 2677-2694	2.4	125
57	Large scale dynamics and MJO forcing of ENSO variability. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	102
56	Horizontal and vertical structure of observed tropospheric equatorial Rossby waves. <i>Journal of Geophysical Research</i> , 1995 , 100, 22981		100
55	Flash droughts present a new challenge for subseasonal-to-seasonal prediction. <i>Nature Climate Change</i> , 2020 , 10, 191-199	21.4	95
54	Statistical Prediction of Weekly Tropical Cyclone Activity in the Southern Hemisphere. <i>Monthly Weather Review</i> , 2008 , 136, 3637-3654	2.4	95
53	Some Space-Time Spectral Analyses of Tropical Convection and Planetary-Scale Waves. <i>Journals of the Atmospheric Sciences</i> , 2008 , 65, 2936-2948	2.1	91
52	Process-Oriented MJO Simulation Diagnostic: Moisture Sensitivity of Simulated Convection. <i>Journal of Climate</i> , 2014 , 27, 5379-5395	4.4	81
51	A Modified Multivariate Madden-Julian Oscillation Index Using Velocity Potential. <i>Monthly Weather Review</i> , 2013 , 141, 4197-4210	2.4	81
50	Australian-Indonesian monsoon 2005 , 125-173		78
49	Intra-seasonal drivers of extreme heat over Australia in observations and POAMA-2. <i>Climate Dynamics</i> , 2014 , 43, 1915-1937	4.2	70
48	A Comparison of Dynamical and Statistical Predictions of Weekly Tropical Cyclone Activity in the Southern Hemisphere. <i>Monthly Weather Review</i> , 2010 , 138, 3671-3682	2.4	69
47	Assessing the Skill of an All-Season Statistical Forecast Model for the Madden-Julian Oscillation. <i>Monthly Weather Review</i> , 2008 , 136, 1940-1956	2.4	69
46	Seamless Precipitation Prediction Skill in the Tropics and Extratropics from a Global Model. <i>Monthly Weather Review</i> , 2014 , 142, 1556-1569	2.4	53
45	The impact of the Southern Annular Mode on future changes in Southern Hemisphere rainfall. <i>Geophysical Research Letters</i> , 2016 , 43, 7160-7167	4.9	52

44	Using the evaporative stress index to monitor flash drought in Australia. <i>Environmental Research Letters</i> , 2019 , 14, 064016	6.2	46
43	The Experimental MJO Prediction Project. <i>Bulletin of the American Meteorological Society</i> , 2006 , 87, 425-431	4.1	44
42	Probabilistic Forecasts of the Onset of the North Australian Wet Season. <i>Monthly Weather Review</i> , 2007 , 135, 3506-3520	2.4	43
41	A conceptual framework for time and space scale interactions in the climate system. <i>Climate Dynamics</i> , 2001 , 17, 753-775	4.2	43
40	Forecasting an index of the Madden-oscillation. <i>International Journal of Climatology</i> , 2005 , 25, 1611-1618	3.5	42
39	Disruptions of El Niño Southern Oscillation Teleconnections by the Madden-Julian Oscillation. <i>Geophysical Research Letters</i> , 2014 , 41, 998-1004	4.9	40
38	Multidecadal trends in tropical convective available potential energy. <i>Journal of Geophysical Research</i> , 2002 , 107, ACL 17-1-ACL 17-8		39
37	Modulation of equatorial subseasonal convective episodes by tropical-extratropical interaction in the Indian and Pacific Ocean regions. <i>Journal of Geophysical Research</i> , 1996 , 101, 15033-15049		39
36	Impact of Different ENSO Regimes on Southwest Pacific Tropical Cyclones. <i>Journal of Climate</i> , 2013 , 26, 600-608	4.4	35
35	Simulation and prediction of the Southern Annular Mode and its influence on Australian intra-seasonal climate in POAMA. <i>Climate Dynamics</i> , 2012 , 38, 2483-2502	4.2	34
34	Assessing the simulation and prediction of rainfall associated with the MJO in the POAMA seasonal forecast system. <i>Climate Dynamics</i> , 2011 , 37, 2129-2141	4.2	29
33	Seamless precipitation prediction skill comparison between two global models. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017 , 143, 374-383	6.4	28
32	Skillful multiweek tropical cyclone prediction in ACCESS-S1 and the role of the MJO. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018 , 144, 1337-1351	6.4	23
31	The variability of tropical ice cloud properties as a function of the large-scale context from ground-based radar-lidar observations over Darwin, Australia. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 8363-8384	6.8	22
30	The Different Impact of Positive-Neutral and Negative-Neutral ENSO Regimes on Australian Tropical Cyclones. <i>Journal of Climate</i> , 2013 , 26, 8008-8016	4.4	18
29	The Role of Equatorial Rossby Waves in Tropical Cyclogenesis. Part I: Idealized Numerical Simulations in an Initially Quiescent Background Environment. <i>Monthly Weather Review</i> , 2010 , 138, 1368-1382	2.4	18
28	INTRASEASONAL VARIABILITY AND FORECASTING: A REVIEW OF RECENT RESEARCH. <i>World Scientific Series on Asia-Pacific Weather and Climate</i> , 2011 , 389-407		16
27	Tropical Cyclone Prediction on Subseasonal Time-Scales. <i>Tropical Cyclone Research and Review</i> , 2019 , 8, 150-165	2.4	16

26	Forecasting the extreme rainfall, low temperatures, and strong winds associated with the northern Queensland floods of February 2019. <i>Weather and Climate Extremes</i> , 2019 , 26, 100232	6	15
25	Simulation and prediction of blocking in the Australian region and its influence on intra-seasonal rainfall in POAMA-2. <i>Climate Dynamics</i> , 2014 , 42, 3271-3288	4.2	14
24	Predicting the Onset of the North Australian Wet Season with the POAMA Dynamical Prediction System. <i>Weather and Forecasting</i> , 2014 , 29, 150-161	2.1	14
23	Low-frequency variability and CO2 transient climate change. Part 3. Intermonthly and interannual variability. <i>Climate Dynamics</i> , 1994 , 10, 277-303	4.2	14
22	The 2019 flash droughts in subtropical eastern Australia and their association with large-scale climate drivers. <i>Weather and Climate Extremes</i> , 2021 , 32, 100321	6	12
21	Exploring qualitative regional climate projections: a case study for Nauru. <i>Climate Research</i> , 2013 , 58, 165-182	1.6	9
20	Development of a Flash Drought Intensity Index. <i>Atmosphere</i> , 2021 , 12, 741	2.7	8
19	On the Sensitivity of Convectively Coupled Equatorial Waves to the Quasi-Biennial Oscillation. <i>Journal of Climate</i> , 2019 , 32, 5833-5847	4.4	7
18	A local index of Maritime Continent intraseasonal variability based on rain rates over the land and sea. <i>Geophysical Research Letters</i> , 2016 , 43, 9306-9314	4.9	7
17	On the importance of initializing the stochastic part of the atmosphere for forecasting the 1997/1998 El Niño. <i>Climate Dynamics</i> , 2011 , 37, 313-324	4.2	6
16	Central Pacific El Niño as a Precursor to Summer Drought-Breaking Rainfall Over Southeastern Australia. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL091131	4.9	6
15	Synoptic Features Responsible for Heat Waves in Central Africa, a Region with Strong Multidecadal Trends. <i>Journal of Climate</i> , 2019 , 32, 7951-7970	4.4	5
14	Association of Convection with the 5-Day Rossby-Haurwitz Wave. <i>Journals of the Atmospheric Sciences</i> , 2015 , 72, 3309-3321	2.1	5
13	Mechanisms Linking Global 5-Day Waves to Tropical Convection. <i>Journals of the Atmospheric Sciences</i> , 2017 , 74, 3679-3702	2.1	5
12	Joint Modulation of Intraseasonal Rainfall in Tropical Australia by the Madden-Julian Oscillation and El Niño-Southern Oscillation. <i>Geophysical Research Letters</i> , 2017 , 44, 10,754-10,761	4.9	5
11	Australasian monsoon 2012 , 147-197		5
10	Improving the seasonal prediction of Northern Australian rainfall onset to help with grazing management decisions. <i>Climate Services</i> , 2020 , 19, 100182	3.8	4
9	Why Australia was not wet during spring 2020 despite La Niña. <i>Scientific Reports</i> , 2021 , 11, 18423	4.9	4

8	Defining the north Australian monsoon onset: A systematic review. <i>Progress in Physical Geography</i> , 2020 , 44, 398-418	3.5	3
7	Modeling Monsoon Intraseasonal Variability: From Theory to Operational Forecasting. <i>Bulletin of the American Meteorological Society</i> , 2011 , 92, ES32-ES35	6.1	2
6	Climatology and Variability of the Evaporative Stress Index and Its Suitability as a Tool to Monitor Australian Drought. <i>Journal of Hydrometeorology</i> , 2020 , 21, 2309-2324	3.7	2
5	5-Day-Wave Interactions with Tropical Precipitation in CMIP5 Models. <i>Journal of Climate</i> , 2016 , 29, 8611-8624	4.4	1
4	Real-Time Forecasting of Modes of Tropical Intraseasonal Variability: The Madden-Julian and Boreal Summer Intraseasonal Oscillations. <i>World Scientific Series on Asia-Pacific Weather and Climate</i> , 2017 , 131-138		1
3	Prediction of Northern Australian Rainfall Onset Using the ACCESS-Seasonal Model. <i>Proceedings (mdpi)</i> , 2019 , 36, 189	0.3	1
2	Multi-week prediction of livestock chill conditions associated with the northwest Queensland floods of February 2019.. <i>Scientific Reports</i> , 2022 , 12, 5907	4.9	1
1	Low-frequency variability and CO2 transient climate change. Part 3. Intermonthly and interannual variability. <i>Climate Dynamics</i> , 1994 , 10, 277-303	4.2	