

Matthew C Wheeler

List of Publications by Year in Descending Order

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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.

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	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
78	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
77	Development of a Flash Drought Intensity Index. <i>Atmosphere</i> , 2021 , 12, 741	2.7	8
76	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
75	Why Australia was not wet during spring 2020 despite La Niña. <i>Scientific Reports</i> , 2021 , 11, 18423	4.9	4
74	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
73	Flash droughts present a new challenge for subseasonal-to-seasonal prediction. <i>Nature Climate Change</i> , 2020 , 10, 191-199	21.4	95
72	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
71	Defining the north Australian monsoon onset: A systematic review. <i>Progress in Physical Geography</i> , 2020 , 44, 398-418	3.5	3
70	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
69	Using the evaporative stress index to monitor flash drought in Australia. <i>Environmental Research Letters</i> , 2019 , 14, 064016	6.2	46
68	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
67	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
66	Prediction of Northern Australian Rainfall Onset Using the ACCESS-Seasonal Model. <i>Proceedings (mdpi)</i> , 2019 , 36, 189	0.3	1
65	Tropical Cyclone Prediction on Subseasonal Time-Scales. <i>Tropical Cyclone Research and Review</i> , 2019 , 8, 150-165	2.4	16
64	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
63	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

62	Mechanisms Linking Global 5-Day Waves to Tropical Convection. <i>Journals of the Atmospheric Sciences</i> , 2017 , 74, 3679-3702	2.1	5
61	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
60	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
59	5-Day-Wave Interactions with Tropical Precipitation in CMIP5 Models. <i>Journal of Climate</i> , 2016 , 29, 8611-8624	4.2	1
58	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
57	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
56	Association of Convection with the 5-Day Rossby-Haurwitz Wave. <i>Journals of the Atmospheric Sciences</i> , 2015 , 72, 3309-3321	2.1	5
55	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
54	Process-Oriented MJO Simulation Diagnostic: Moisture Sensitivity of Simulated Convection. <i>Journal of Climate</i> , 2014 , 27, 5379-5395	4.4	81
53	Disruptions of El Niño-Southern Oscillation Teleconnections by the Madden-Julian Oscillation. <i>Geophysical Research Letters</i> , 2014 , 41, 998-1004	4.9	40
52	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
51	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
50	A Comparison of OLR and Circulation-Based Indices for Tracking the MJO. <i>Monthly Weather Review</i> , 2014 , 142, 1697-1715	2.4	256
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	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
47	Cracking the MJO nut. <i>Geophysical Research Letters</i> , 2013 , 40, 1223-1230	4.9	141
46	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
45	A Modified Multivariate Madden-Julian Oscillation Index Using Velocity Potential. <i>Monthly Weather Review</i> , 2013 , 141, 4197-4210	2.4	81

44	Impact of Different ENSO Regimes on Southwest Pacific Tropical Cyclones. <i>Journal of Climate</i> , 2013 , 26, 600-608	4.4	35
43	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
42	Exploring qualitative regional climate projections: a case study for Nauru. <i>Climate Research</i> , 2013 , 58, 165-182	1.6	9
41	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
40	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
39	Australasian monsoon 2012 , 147-197		5
38	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
37	INTRASEASONAL VARIABILITY AND FORECASTING: A REVIEW OF RECENT RESEARCH. <i>World Scientific Series on Asia-Pacific Weather and Climate</i> , 2011 , 389-407		16
36	Prediction of the Madden-Julian oscillation with the POAMA dynamical prediction system. <i>Climate Dynamics</i> , 2011 , 36, 649-661	4.2	155
35	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
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	Modeling Monsoon Intraseasonal Variability: From Theory to Operational Forecasting. <i>Bulletin of the American Meteorological Society</i> , 2011 , 92, ES32-ES35	6.1	2
32	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
31	A Framework for Assessing Operational Madden-Julian Oscillation Forecasts. <i>Bulletin of the American Meteorological Society</i> , 2010 , 91, 1247-1258	6.1	170
30	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
29	On the Remote Drivers of Rainfall Variability in Australia. <i>Monthly Weather Review</i> , 2009 , 137, 3233-3253	2.4	501
28	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
27	MJO Simulation Diagnostics. <i>Journal of Climate</i> , 2009 , 22, 3006-3030	4.4	238

26	Convectively coupled equatorial waves. <i>Reviews of Geophysics</i> , 2009 , 47,	23.1	564
25	Impacts of the Madden-Julian Oscillation on Australian Rainfall and Circulation. <i>Journal of Climate</i> , 2009 , 22, 1482-1498	4.4	203
24	Statistical Prediction of Weekly Tropical Cyclone Activity in the Southern Hemisphere. <i>Monthly Weather Review</i> , 2008 , 136, 3637-3654	2.4	95
23	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
22	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
21	Probabilistic Forecasts of the Onset of the North Australian Wet Season. <i>Monthly Weather Review</i> , 2007 , 135, 3506-3520	2.4	43
20	Seasonal Dependence of the MJO-ENSO Relationship. <i>Journal of Climate</i> , 2007 , 20, 531-543	4.4	259
19	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
18	Near-global impact of the Madden-Julian Oscillation on rainfall. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	138
17	Large scale dynamics and MJO forcing of ENSO variability. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	102
16	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
15	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
14	The Experimental MJO Prediction Project. <i>Bulletin of the American Meteorological Society</i> , 2006 , 87, 425-431	4.1	44
13	Modulation of Daily Precipitation over Southwest Asia by the Madden-Julian Oscillation. <i>Monthly Weather Review</i> , 2005 , 133, 3579-3594	2.4	125
12	Australian-Indonesian monsoon 2005 , 125-173		78
11	Forecasting an index of the Madden-oscillation. <i>International Journal of Climatology</i> , 2005 , 25, 1611-1618	3.5	42
10	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
9	Multidecadal trends in tropical convective available potential energy. <i>Journal of Geophysical Research</i> , 2002 , 107, ACL 17-1-ACL 17-8		39

8	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
7	A conceptual framework for time and space scale interactions in the climate system. <i>Climate Dynamics</i> , 2001 , 17, 753-775	4.2	43
6	Large-Scale Dynamical Fields Associated with Convectively Coupled Equatorial Waves. <i>Journals of the Atmospheric Sciences</i> , 2000 , 57, 613-640	2.1	372
5	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
4	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
3	Horizontal and vertical structure of observed tropospheric equatorial Rossby waves. <i>Journal of Geophysical Research</i> , 1995 , 100, 22981		100
2	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
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	