

Michael J Reeder

List of Publications by Year in descending order

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108
papers

3,073
citations

147801

31
h-index

189892

50
g-index

111
all docs

111
docs citations

111
times ranked

2474
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Relationship Between the Madden-Julian Oscillation and the Hadley and Walker Circulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2019JD032117.	3.3	10
2	The Effect of Sea Surface Temperature Fronts on Atmospheric Frontogenesis. <i>Journals of the Atmospheric Sciences</i> , 2021, , .	1.7	8
3	The "striated delta"-signature of gravity waves generated near the jet stream during rapid extratropical cyclogenesis. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2021, 147, 3628-3646.	2.7	0
4	Fluctuations in Inner-Core Structure during the Rapid Intensification of Super Typhoon Nepartak (2016). <i>Monthly Weather Review</i> , 2021, 149, 221-243.	1.4	3
5	Extreme heat events from an object viewpoint with application to south-east Australia. <i>International Journal of Climatology</i> , 2021, 41, 2693-2709.	3.5	7
6	The Connection between the Southern Annular Mode and a Feature-Based Perspective on Southern Hemisphere Midlatitude Winter Variability. <i>Journal of Climate</i> , 2020, 33, 115-129.	3.2	22
7	A weather system perspective on winter-spring rainfall variability in southeastern Australia during El Niño. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020, 146, 2614-2633.	2.7	17
8	Rapidly Evolving Cirrus Clouds Modulated by Convectively Generated Gravity Waves. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 7327.	3.3	6
9	Synoptic climatology of hybrid cyclones in the Australian region. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019, 145, 288-302.	2.7	18
10	Coupled Atmosphere-Fire Simulations of the Black Saturday Kilmore East Wildfires With the Unified Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 210-230.	3.8	15
11	Stochastic Space-Time Downscaling of Rainfall Using Event-Based Multiplicative Cascade Simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 3889-3902.	3.3	3
12	The intensity and motion of hybrid cyclones in the Australian region in a composite potential vorticity framework. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019, 145, 273-287.	2.7	7
13	Understanding the Dynamic Contribution to Future Changes in Tropical Precipitation From Low-Level Convergence Lines. <i>Geophysical Research Letters</i> , 2019, 46, 2196-2203.	4.0	9
14	The synoptic-dynamics of summertime heatwaves in the Sydney area (Australia). <i>Journal of Southern Hemisphere Earth Systems Science</i> , 2019, 69, 116.	1.8	6
15	Two Synoptic Routes to Subtropical Heat Waves as Illustrated in the Brisbane Region of Australia. <i>Geophysical Research Letters</i> , 2018, 45, 10700.	4.0	11
16	A Multiplicative Cascade Model for High-Resolution Space-Time Downscaling of Rainfall. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 2050-2067.	3.3	14
17	Rainfall regimes over northwestern Australia. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018, 144, 458-467.	2.7	19
18	An Evaluation of Northern Australian Wet Season Rainfall Bursts in CMIP5 Models. <i>Journal of Climate</i> , 2018, 31, 7789-7802.	3.2	6

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19	Precipitation Associated with Convergence Lines. <i>Journal of Climate</i> , 2017, 30, 3169-3183.	3.2	21
20	A climatology of atmospheric pressure jumps over southeastern Australia. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017, 143, 439-449.	2.7	4
21	A Midlatitude Influence on Australian Monsoon Bursts. <i>Journal of Climate</i> , 2017, 30, 5377-5393.	3.2	19
22	Trends in CMIP5 Rainfall Patterns over Southwestern Australia. <i>Journal of Climate</i> , 2017, 30, 1779-1788.	3.2	11
23	Southern Hemisphere summertime Rossby waves and weather in the Australian region. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017, 143, 2374-2388.	2.7	18
24	Southeastern Australian Heat Waves from a Trajectory Viewpoint. <i>Monthly Weather Review</i> , 2017, 145, 4109-4125.	1.4	40
25	Projected Response of Low-Level Convergence and Associated Precipitation to Greenhouse Warming. <i>Geophysical Research Letters</i> , 2017, 44, 10,682.	4.0	3
26	Coherent Potential Vorticity Maxima and Their Relationship to Extreme Summer Rainfall in the Australian and North African Tropics. <i>Journal of Southern Hemisphere Earth Systems Science</i> , 2017, 66, 424-456.	1.8	4
27	The Dynamics of Australian Monsoon Bursts. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 55-69.	1.7	32
28	Coherent Potential Vorticity Maxima and Their Relationship to Extreme Summer Rainfall in the Australian and North African Tropics. <i>Journal of Southern Hemisphere Earth Systems Science</i> , 2016, 66, 424.	1.8	2
29	Trends in the local Hadley and local Walker circulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 7599-7618.	3.3	42
30	Rossby waves, extreme fronts, and wildfires in southeastern Australia. <i>Geophysical Research Letters</i> , 2015, 42, 2015-2023.	4.0	34
31	Summertime precipitation over northern Australia in AMIP simulations from CMIP5. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 1753-1768.	2.7	14
32	Sea-Breeze Dynamics and Convection Initiation: The Influence of Convective Parameterization in Weather and Climate Model Biases. <i>Journal of Climate</i> , 2015, 28, 8093-8108.	3.2	78
33	Rainfall Changes over Southwestern Australia and Their Relationship to the Southern Annular Mode and ENSO. <i>Journal of Climate</i> , 2014, 27, 5801-5814.	3.2	44
34	The roles of diurnal forcing and large-scale moisture transport for initiating rain over northwest Australia in a GCM. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2014, 140, 2515-2526.	2.7	12
35	Vacillation cycles in simulations of hurricane Katrina. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2014, 140, 1878-1888.	2.7	3
36	Wave-cloud lines over the Arabian Sea. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 4447-4457.	3.3	6

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37	The Structure and Evolution of Heat Waves in Southeastern Australia. <i>Journal of Climate</i> , 2014, 27, 5768-5785.	3.2	75
38	Gravity waves generated by convection during TWP–ICE: I. Inertia–gravity waves. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 5269-5282.	3.3	11
39	Objective Identification of the Intertropical Convergence Zone: Climatology and Trends from the ERA-Interim. <i>Journal of Climate</i> , 2014, 27, 1894-1909.	3.2	79
40	Modes of climate variability and heat waves in Victoria, southeastern Australia. <i>Geophysical Research Letters</i> , 2014, 41, 6926-6934.	4.0	48
41	Local partitioning of the overturning circulation in the tropics and the connection to the Hadley and Walker circulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 1322-1339.	3.3	99
42	Gravity waves generated by convection during TWP–ICE: 2. High–frequency gravity waves. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 5257-5268.	3.3	9
43	The characteristics of seasonal–scale droughts in Australia, 1911–2009. <i>International Journal of Climatology</i> , 2013, 33, 1658-1672.	3.5	33
44	The meteorology of Black Saturday. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2013, 139, 585-599.	2.7	54
45	Wave–cloud lines over northwest Australia. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2013, 139, 1311-1326.	2.7	11
46	Diurnally forced convergence lines in the Australian Tropics. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2013, 139, 1283-1297.	2.7	6
47	The influence of tropical cyclones on heat waves in Southeastern Australia. <i>Geophysical Research Letters</i> , 2013, 40, 6264-6270.	4.0	53
48	Coherent Synoptic Disturbances in the Australian Monsoon. <i>Journal of Climate</i> , 2012, 25, 8409-8421.	3.2	37
49	The three-dimensional distribution of clouds around Southern Hemisphere extratropical cyclones. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	27
50	Physical Mechanisms Regulating Summertime Rainfall over Northwestern Australia. <i>Journal of Climate</i> , 2011, 24, 3705-3717.	3.2	37
51	A global climatology of atmospheric fronts. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	137
52	Recent global trends in atmospheric fronts. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	39
53	Inner–core vacillation cycles during the intensification of Hurricane <i>Katrina</i>. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2011, 137, 829-844.	2.7	53
54	Idealized modelling of landfalling cold fronts. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2010, 136, 2147-2161.	2.7	12

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55	Objective Classification of Tropical Mesoscale Convective Systems. <i>Journal of Climate</i> , 2009, 22, 5797-5808.	3.2	18
56	Regimes of the North Australian Wet Season. <i>Journal of Climate</i> , 2009, 22, 6699-6715.	3.2	79
57	The diurnal evolution of cold fronts in the Australian subtropics. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2009, 135, 395-411.	2.7	18
58	Severe convective storms initiated by intense wildfires: Numerical simulations of pyroconvection and tornado genesis. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	58
59	The structure and evolution of the northern Australian dryline. <i>Australian Meteorological Magazine</i> , 2009, 58, 215-231.	0.4	9
60	Convective Systems of the North Australian Monsoon. <i>Journal of Climate</i> , 2008, 21, 5091-5112.	3.2	36
61	Extratropical-Tropical Interaction during Onset of the Australian Monsoon: Reanalysis Diagnostics and Idealized Dry Simulations. <i>Journals of the Atmospheric Sciences</i> , 2007, 64, 3475-3498.	1.7	25
62	MesoLAPS Predictions of Low-Level Convergence Lines over Northeastern Australia. <i>Weather and Forecasting</i> , 2007, 22, 910-927.	1.4	7
63	The Diurnal and Seasonal Variation of the Northern Australian Dryline. <i>Monthly Weather Review</i> , 2007, 135, 2995-3008.	1.4	29
64	Low-Level Convergence Lines over Northeastern Australia. Part I: The North Australian Cloud Line. <i>Monthly Weather Review</i> , 2006, 134, 3092-3108.	1.4	13
65	Low-Level Convergence Lines over Northeastern Australia. Part II: Southerly Disturbances. <i>Monthly Weather Review</i> , 2006, 134, 3109-3124.	1.4	13
66	The dynamics of heat lows in simple background flows. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2005, 131, 3147-3165.	2.7	21
67	The effect of the continental boundary layer on the dynamics of fronts in a 2D model of baroclinic instability. I: An insulated lower surface. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2005, 131, 2389-2408.	2.7	12
68	The effect of the continental boundary layer on the dynamics of fronts in a 2D model of baroclinic instability. II: Surface heating and cooling. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2005, 131, 2409-2429.	2.7	13
69	Infrared observations and numerical modelling of grassland fires in the Northern Territory, Australia. <i>Meteorology and Atmospheric Physics</i> , 2005, 88, 193-201.	2.0	6
70	The Generation of the Morning Glory. <i>Journals of the Atmospheric Sciences</i> , 2004, 61, 1360-1376.	1.7	36
71	Convectively generated gravity waves observed from radiosonde data taken during MCTEX. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2003, 129, 1731-1740.	2.7	21
72	Numerical simulations of grassland fires in the Northern Territory, Australia: A new subgrid-scale fire parameterization. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	19

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73	Time-dependent response of the tropical atmosphere to a fixed sea surface temperature anomaly. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	0
74	Numerical Modeling of Gravity Wave Generation by Deep Tropical Convection. <i>Journals of the Atmospheric Sciences</i> , 2001, 58, 1249-1274.	1.7	211
75	Convectively Generated Gravity Waves and Their Effect on the Cloud Environment. <i>Journals of the Atmospheric Sciences</i> , 2001, 58, 2427-2440.	1.7	68
76	Modelling the generation of gravity waves by a maritime continent thunderstorm. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2001, 127, 2705-2724.	2.7	25
77	Waves generated by a cold front over north-eastern Queensland, Australia. <i>Weather</i> , 2001, 56, 184-184.	0.7	0
78	Modelling the generation of gravity waves by a maritime continent thunderstorm. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2001, 127, 2705-2724.	2.7	0
79	Inertia-Gravity Waves Observed in the Lower Stratosphere over Macquarie Island. <i>Journals of the Atmospheric Sciences</i> , 2000, 57, 737-752.	1.7	140
80	Observations and numerical modelling of mountain waves over the Southern Alps of New Zealand. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2000, 126, 2765-2788.	2.7	41
81	Observations and numerical modelling of mountain waves over the Southern Alps of New Zealand. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2000, 126, 2765-2788.	2.7	0
82	Radiosonde observations of partially trapped lee waves over Tasmania, Australia. <i>Journal of Geophysical Research</i> , 1999, 104, 16719-16727.	3.3	25
83	Four large-amplitude wave families observed simultaneously over northern Queensland, Australia. <i>Weather</i> , 1998, 53, 134-140.	0.7	2
84	Observations of a cut-off low over southern Australia. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1998, 124, 1109-1132.	2.7	23
85	Mesoscale Meteorology. , 1998, , 201-241.		29
86	“Morning-Glory” Disturbances and the Environment in which They Propagate. <i>Journals of the Atmospheric Sciences</i> , 1997, 54, 1712-1725.	1.7	25
87	The effects of convection and baroclinicity on the motion of tropical-cyclone-like vortices. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1997, 123, 699-725.	2.7	33
88	A numerical study of barotropic vortex motion near a large-scale mountain range with application to the motion of tropical cyclones approaching the Sierra Madre. <i>Meteorology and Atmospheric Physics</i> , 1997, 64, 1-19.	2.0	20
89	Numerical Modelling of Inertia-Gravity Wave Emission by Fronts and Jets. , 1997, , 137-152.		1
90	The effects of convection and baroclinicity on the motion of tropical-cyclone-like vortices. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1997, 123, 699-725.	2.7	1

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91	Gravity wave activity associated with tropical convection detected in TOGA COARE Sounding data. <i>Geophysical Research Letters</i> , 1996, 23, 261-264.	4.0	72
92	Stratospheric inertia-gravity waves generated in a numerical model of frontogenesis. I: Model solutions. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1996, 122, 1153-1174.	2.7	27
93	Stratospheric inertia-gravity waves generated in a numerical model of frontogenesis. II: Wave sources, generation mechanisms and momentum fluxes. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1996, 122, 1175-1195.	2.7	34
94	Stratospheric inertia-gravity waves generated in a numerical model of frontogenesis. I: Model solutions. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1996, 122, 1153-1174.	2.7	15
95	Stratospheric inertia-gravity waves generated in a numerical model of frontogenesis. II: Wave sources, generation mechanisms and momentum fluxes. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1996, 122, 1175-1195.	2.7	20
96	Interacting "Morning Glories" over Northern Australia. <i>Bulletin of the American Meteorological Society</i> , 1995, 76, 1165-1171.	3.3	15
97	Central Australian Cold Fronts. <i>Monthly Weather Review</i> , 1995, 123, 16-38.	1.4	68
98	The Detection of Flow Asymmetries in the Tropical Cyclone Environment. <i>Monthly Weather Review</i> , 1991, 119, 848-855.	1.4	15
99	Three-dimensional baroclinic instability and summertime frontogenesis in the Australian region. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1991, 117, 1-28.	2.7	10
100	Three-dimensional baroclinic instability and summertime frontogenesis in the Australian region. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1991, 117, 1-28.	2.7	0
101	On the Movement and Low-Level Structure of Cold Fronts. <i>Monthly Weather Review</i> , 1988, 116, 1927-1944.	1.4	108
102	Balanced and Unbalanced Upper-Level Frontogenesis. <i>Journals of the Atmospheric Sciences</i> , 1988, 45, 3366-3386.	1.7	29
103	On Air Motion Trajectories in Cold Fronts. <i>Journals of the Atmospheric Sciences</i> , 1988, 45, 4005-4007.	1.7	10
104	A Generalization of Petterssen's Frontogenesis Function and Its Relation to the Forcing of Vertical Motion. <i>Monthly Weather Review</i> , 1988, 116, 762-781.	1.4	136
105	A Study of Frontal Dynamics with Application to the Australian Summertime "Cool Change". <i>Journals of the Atmospheric Sciences</i> , 1987, 44, 687-705.	1.7	27
106	Models of frontogenesis. <i>Bulletin of the Australian Mathematical Society</i> , 1986, 34, 319-320.	0.5	0
107	A comparison between frontogenesis in the two-dimensional Eady model of baroclinic instability and summertime cold fronts in the Australian region. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1986, 112, 293-313.	2.7	11
108	A comparison between frontogenesis in the two-dimensional Eady model of baroclinic instability and summertime cold fronts in the Australian region. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1986, 112, 293-313.	2.7	8