Adrian J Matthews

List of Publications by Year
in descending order

80 papers	4,075 citations	136950 32 h-index	118850 62 g-index
94 all docs	94 docs citations	94 times ranked	3335 citing authors

#	Article	IF	Citations
1	North Atlantic Oscillation response to the Maddenâ€“Julian Oscillation in a coupled climate model. Weather, 2022, 77, 201-205.	0.7	5
2	The role of geomorphology, rainfall and soil moisture in the occurrence of landslides triggered by 2018 Typhoon Mangkhut in the Philippines. Natural Hazards and Earth System Sciences, 2021, 21, 1531-1550.	3.6	20
3	Equatorial Waves Triggering Extreme Rainfall and Floods in Southwest Sulawesi, Indonesia. Monthly Weather Review, 2021, 149, 1381-1401.	1.4	17
4	Subsurface Oceanic Structure Associated With Atmospheric Convectively Coupled Equatorial Kelvin Waves in the Eastern Indian Ocean. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017171.	2.6	2
5	Validation of GPM IMERG Extreme Precipitation in the Maritime Continent by Station and Radar Data. Earth and Space Science, 2021, 8, e2021EA001738.	2.6	24
6	Impact of the Maddenâ€“Julian Oscillation on extreme precipitation over the western Maritime Continent and Southeast Asia. Quarterly Journal of the Royal Meteorological Society, 2021, 147, 3434-3453.	2.7	11
7	Spatial and temporal variability of solar penetration depths in the Bay of Bengal and its impact on sea surface temperature (SST) during the summer monsoon. Ocean Science, 2021, 17, 871-890.	3.4	4
8	Dynamical propagation and growth mechanisms for convectively coupled equatorial Kelvin waves over the Indian Ocean. Quarterly Journal of the Royal Meteorological Society, 2021, 147, 4310-4336.	2.7	7
9	A local-to-large scale view of Maritime Continent rainfall: control by ENSO, MJO and equatorial waves. Journal of Climate, 2021, , 1-52.	3.2	17
10	Closing the sea surface mixed layer temperature budget from in situ observations alone: Operation Advection during BoBBLE. Scientific Reports, 2020, 10, 7062.	3.3	38
11	South Pacific Convergence Zone dynamics, variability and impacts in a changing climate. Nature Reviews Earth & Environment, 2020, 1, 530-543.	29.7	49
12	Injection of Oxygenated Persian Gulf Water Into the Southern Bay of Bengal. Geophysical Research Letters, 2020, 47, e2020GL087773.	4.0	14
13	The effect of seasonally and spatially varying chlorophyll on Bay of Bengal surface ocean properties and the South Asian monsoon. Weather and Climate Dynamics, 2020, 1, 635-655.	3.5	4
14	The Extratropical Linear Step Response to Tropical Precipitation Anomalies and Its Use in Constraining Projected Circulation Changes under Climate Warming. Journal of Climate, 2020, 33, 7217-7231.	3.2	1
15	Mechanisms of Barrier Layer Formation and Erosion from In Situ Observations in the Bay of Bengal. Journal of Physical Oceanography, 2019, 49, 1183-1200.	1.7	33
16	Vertical distribution of chlorophyll in dynamically distinct regions of the southern Bay of Bengal. Biogeosciences, 2019, 16, 1447-1468.	3.3	43
17	The Railroad Switch Effect of Seasonally Reversing Currents on the Bay of Bengal Highâ€Salinity Core. Geophysical Research Letters, 2019, 46, 6005-6014.	4.0	24
18	BoBBLE: Oceanâ€“Atmosphere Interaction and Its Impact on the South Asian Monsoon. Bulletin of the American Meteorological Society, 2018, 99, 1569-1587.	3.3	45

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19	The Dynamics of the Southwest Monsoon Current in 2016 from High-Resolution In Situ Observations and Models. Journal of Physical Oceanography, 2018, 48, 2259-2282.	1.7	55
20	Intraseasonal Variability of Airâ€"Sea Fluxes over the Bay of Bengal during the Southwest Monsoon. Journal of Climate, 2018, 31, 7087-7109.	3.2	17
21	Moisture transport by Atlantic tropical cyclones onto the North American continent. Climate Dynamics, 2017, 48, 3161-3182.	3.8	14
22	Impact of atmospheric convectively coupled equatorial Kelvin waves on upper ocean variability. Journal of Geophysical Research D: Atmospheres, 2016, 121, 2045-2059.	3.3	20
23	Phase locking between atmospheric convectively coupled equatorial Kelvin waves and the diurnal cycle of precipitation over the Maritime Continent. Geophysical Research Letters, 2016, 43, 8269-8276.	4.0	23
24	The influence of diabatic heating in the South Pacific Convergence Zone on Rossby wave propagation and the mean flow. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 901-910.	2.7	10
25	Different atmospheric moisture divergence responses to extreme and moderate El NiÃ±os. Climate Dynamics, 2016, 47, 393-410.	3.8	13
26	Scale Interactions between the MJO and the Western Maritime Continent. Journal of Climate, 2016, 29, 2471-2492.	3.2	115
27	Thermally Induced Convective Circulation and Precipitation over an Isolated Volcano. Journals of the Atmospheric Sciences, 2016, 73, 1667-1686.	1.7	10
28	Why the South Pacific Convergence Zone is diagonal. Climate Dynamics, 2016, 46, 1683-1698.	3.8	34
29	A dynamical framework for the origin of the diagonal South Pacific and South Atlantic Convergence Zones. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 1997-2010.	2.7	60
30	Propagation of the Maddenâ€"Julian Oscillation and scale interaction with the diurnal cycle in a high-resolution GCM. Climate Dynamics, 2015, 45, 2901-2918.	3.8	51
31	The Role of Tropicalâ€"Extratropical Interaction and Synoptic Variability in Maintaining the South Pacific Convergence Zone in CMIP5 Models. Journal of Climate, 2015, 28, 3353-3374.	3.2	19
32	The Surface Diurnal Warm Layer in the Indian Ocean during CINDY/DYNAMO. Journal of Climate, 2014, 27, 9101-9122.	3.2	58
33	Seaglider observations of equatorial Indian Ocean Rossby waves associated with the Maddenâ€Julian Oscillation. Journal of Geophysical Research: Oceans, 2014, 119, 3714-3731.	2.6	21
34	Propagation of the Maddenâ€"Julian Oscillation through the Maritime Continent and scale interaction with the diurnal cycle of precipitation. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 814-825.	2.7	229
35	Saturation front evolution for liquid infiltration into a gas filled porous medium with counter-current flow. European Journal of Mechanics, B/Fluids, 2014, 43, 202-215.	2.5	2
36	Importance of oceanic resolution and mean state on the extra-tropical response to El NiÃ±o in a matrix of coupled models. Climate Dynamics, 2013, 41, 1439-1452.	3.8	20

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37	The effects of rainfall on different components of seasonal fecundity in a tropical forest passerine. Ibis, 2013, 155, 464-475.	1.9	19
38	The effect of the Maddenâ€Julian Oscillation on station rainfall and river level in the Fly River system, Papua New Guinea. Journal of Geophysical Research D: Atmospheres, 2013, 118, 10,926.	3.3	29
39	Dynamical Ocean Forcing of the Maddenâ€"Julian Oscillation at Lead Times of up to Five Months. Journal of Climate, 2012, 25, 2824-2842.	3.2	21
40	Deployments in extreme conditions: Pushing the boundaries of Seaglider capabilities. , 2012, , .		5
41	A multiscale framework for the origin and variability of the South Pacific Convergence Zone. Quarterly Journal of the Royal Meteorological Society, 2012, 138, 1165-1178.	2.7	73
42	Ocean Rossby waves as a triggering mechanism for primary Maddenâ€"Julian events. Quarterly Journal of the Royal Meteorological Society, 2012, 138, 514-527.	2.7	57
43	Rossby wave dynamics of the North Pacific extra-tropical response to El NiÃ±o: importance of the basic state in coupled GCMs. Climate Dynamics, 2011, 37, 391-405.	3.8	28
44	The diurnal cycle of precipitation over the Maritime Continent in a highâ€resolution atmospheric model. Quarterly Journal of the Royal Meteorological Society, 2011, 137, 934-947.	2.7	159
45	Ocean temperature and salinity components of the Maddenâ€"Julian oscillation observed by Argo floats. Climate Dynamics, 2010, 35, 1149-1168.	3.8	44
46	A dynamical ocean feedback mechanism for the Maddenâ€"Julian Oscillation. Quarterly Journal of the Royal Meteorological Society, 2010, 136, 740-754.	2.7	49
47	Coupled Landâ€"Atmosphere Intraseasonal Variability of the West African Monsoon in a GCM. Journal of Climate, 2010, 23, 5557-5571.	3.2	29
48	Triggering of a volcanic dome collapse by rainwater infiltration. Journal of Geophysical Research, 2010, 115, .	3.3	9
49	Response of the West African Monsoon to the Maddenâ€"Julian Oscillation. Journal of Climate, 2009, 22, 4097-4116.	3.2	83
50	The fast response of volcano-seismic activity to intense precipitation: Triggering of primary volcanic activity by rainfall at SoufriÃ¨re Hills Volcano, Montserrat. Journal of Volcanology and Geothermal Research, 2009, 184, 405-415.	2.1	29
51	Realâ€time localised forecasting of the Maddenâ€Julian Oscillation using neural network models. Quarterly Journal of the Royal Meteorological Society, 2009, 135, 1471-1483.	2.7	15
52	Nitrogen-enhanced greenhouse warming on earlyÂEarth. Nature Geoscience, 2009, 2, 891-896.	12.9	247
53	Thermal structure of a gasâ€permeable lava dome and timescale separation in its response to perturbation. Journal of Geophysical Research, 2009, 114, .	3.3	15
54	Primary and successive events in the Maddenâ€"Julian Oscillation. Quarterly Journal of the Royal Meteorological Society, 2008, 134, 439-453.	2.7	198

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55	Real-Time Extraction of the Maddenâ€"Julian Oscillation Using Empirical Mode Decomposition and Statistical Forecasting with a VARMA Model. Journal of Climate, 2008, 21, 5318-5335.	3.2	19
56	Deep Ocean Impact of a Madden-Julian Oscillation Observed by Argo Floats. Science, 2007, 318, 1765-1769.	12.6	54
57	Observed Changes in the Lifetime and Amplitude of the Maddenâ€"Julian Oscillation Associated with Interannual ENSO Sea Surface Temperature Anomalies. Journal of Climate, 2007, 20, 2659-2674.	3.2	119
58	Meteorological monitoring of an active volcano: Implications for eruption prediction. Journal of Volcanology and Geothermal Research, 2006, 150, 339-358.	2.1	37
59	Interannual variability of the Tropical Atlantic independent of and associated with ENSO: Part II. The South Tropical Atlantic. International Journal of Climatology, 2006, 26, 1957-1976.	3.5	34
60	Interannual variability of the tropical Atlantic independent of and associated with ENSO: Part I. The North Tropical Atlantic. International Journal of Climatology, 2006, 26, 1937-1956.	3.5	58
61	Coupled Oceanâ€"Atmosphere Interactions between the Maddenâ€"Julian Oscillation and Synoptic-Scale Variability over the Warm Pool. Journal of Climate, 2005, 18, 2004-2020.	3.2	14
62	Modulation of station rainfall over the western Pacific by the Madden-Julian oscillation. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	20
63	The global response to tropical heating in the Maddenâ€"Julian oscillation during the northern winter. Quarterly Journal of the Royal Meteorological Society, 2004, 130, 1991-2011.	2.7	241
64	A thermodynamical model for rainfall-triggered volcanic dome collapse. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	23
65	Atmospheric response to observed intraseasonal tropical sea surface temperature anomalies. Geophysical Research Letters, 2004, 31, .	4.0	38
66	Variability of Antarctic circumpolar transport and the Southern Annular Mode associated with the Madden-Julian Oscillation. Geophysical Research Letters, 2004, 31, .	4.0	64
67	Intraseasonal Variability over Tropical Africa during Northern Summer. Journal of Climate, 2004, 17, 2427-2440.	3.2	184
68	Rainfall-induced volcanic activity on Montserrat. Geophysical Research Letters, 2002, 29, 22-1.	4.0	80
69	The Modulation of Tropical Cyclone Activity in the Australian Region by the Maddenâ€"Julian Oscillation. Monthly Weather Review, 2001, 129, 2970-2982.	1.4	211
70	A conceptual framework for time and space scale interactions in the climate system. Climate Dynamics, 2001, 17, 753-775.	3.8	47
71	Observed Propagation and Structure of the 33-h Atmospheric Kelvin Wave. Journals of the Atmospheric Sciences, 2000, 57, 3488-3497.	1.7	15
72	A Model of Rossby Waves Linked to Submonthly Convection over the Eastern Tropical Pacific. Journals of the Atmospheric Sciences, 2000, 57, 3785-3798.	1.7	20

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73	Propagation mechanisms for the Madden-Julian Oscillation. Quarterly Journal of the Royal Meteorological Society, 2000, 126, 2637-2651.	2.7	239
74	Propagation mechanisms for the Madden-Julian Oscillation. Quarterly Journal of the Royal Meteorological Society, 2000, 126, 2637-2651.	2.7	4
75	Fast and slow Kelvin waves in the Madden-Julian oscillation of a GCM. Quarterly Journal of the Royal Meteorological Society, 1999, 125, 1473-1498.	2.7	29
76	Interactions between ENSO, Transient Circulation, and Tropical Convectionover the Pacific. Journal of Climate, 1999, 12, 3062-3086.	3.2	71
77	Physical and Numerical Contributions to the Structure of Kelvin Wave-CISK Modes in a Spectral Transform Model. Journals of the Atmospheric Sciences, 1999, 56, 4050-4058.	1.7	11
78	The Tropicalâ€"Extratropical Interaction between High-Frequency Transients and the Maddenâ€"Julian Oscillation. Monthly Weather Review, 1999, 127, 661-677.	1.4	136
79	Development of convection along the SPCZ within a Madden-Julian oscillation. Quarterly Journal of the Royal Meteorological Society, 1996, 122, 669-688.	2.7	66
80	Development of convection along the SPCZ within a Madden-Julian oscillation. Quarterly Journal of the Royal Meteorological Society, 1996, 122, 669-688.	2.7	2