# Adrian J Matthews

List of Publications by Year
in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 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 | Nitrogen-enhanced greenhouse warming on earlyÂEarth. Nature Geoscience, 2009, 2, 891-896. | 12.9 | 247 |
| 2 | 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 |
| 3 | Propagation mechanisms for the Madden-Julian Oscillation. Quarterly Journal of the Royal Meteorological Society, 2000, 126, 2637-2651. | 2.7 | 239 |
| 4 | 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 |
| 5 | 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 |
| 6 | Primary and successive events in the Maddenâ€"Julian Oscillation. Quarterly Journal of the Royal Meteorological Society, 2008, 134, 439-453. | 2.7 | 198 |
| 7 | Intraseasonal Variability over Tropical Africa during Northern Summer. Journal of Climate, 2004, 17, 2427-2440. | 3.2 | 184 |
| 8 | 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 |
| 9 | The Tropicalâ€"Extratropical Interaction between High-Frequency Transients and the Maddenâ€"Julian Oscillation. Monthly Weather Review, 1999, 127, 661-677. | 1.4 | 136 |
| 10 | 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 |
| 11 | Scale Interactions between the MJO and the Western Maritime Continent. Journal of Climate, 2016, 29, 2471-2492. | 3.2 | 115 |
| 12 | Response of the West African Monsoon to the Maddenâ€"Julian Oscillation. Journal of Climate, 2009, 22, 4097-4116. | 3.2 | 83 |
| 13 | Rainfall-induced volcanic activity on Montserrat. Geophysical Research Letters, 2002, 29, 22-1. | 4.0 | 80 |
| 14 | 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 |
| 15 | Interactions between ENSO, Transient Circulation, and Tropical Convectionover the Pacific. Journal of Climate, 1999, 12, 3062-3086. | 3.2 | 71 |
| 16 | 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 |
| 17 | Variability of Antarctic circumpolar transport and the Southern Annular Mode associated with the Madden-Julian Oscillation. Geophysical Research Letters, 2004, 31, . | 4.0 | 64 |
| 18 | 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 |

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|---|---|---|---|
| 19 | 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 |
| 20 | The Surface Diurnal Warm Layer in the Indian Ocean during CINDY/DYNAMO. Journal of Climate, 2014, 27, 9101-9122. | 3.2 | 58 |
| 21 | 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 |
| 22 | 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 |
| 23 | Deep Ocean Impact of a Madden-Julian Oscillation Observed by Argo Floats. Science, 2007, 318, 1765-1769. | 12.6 | 54 |
| 24 | 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 |
| 25 | A dynamical ocean feedback mechanism for the Maddenâ€"Julian Oscillation. Quarterly Journal of the Royal Meteorological Society, 2010, 136, 740-754. | 2.7 | 49 |
| 26 | South Pacific Convergence Zone dynamics, variability and impacts in a changing climate. Nature Reviews Earth & Environment, 2020, 1, 530-543. | 29.7 | 49 |
| 27 | A conceptual framework for time and space scale interactions in the climate system. Climate Dynamics, 2001, 17, 753-775. | 3.8 | 47 |
| 28 | 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 |
| 29 | Ocean temperature and salinity components of the Maddenâ€"Julian oscillation observed by Argo floats. Climate Dynamics, 2010, 35, 1149-1168. | 3.8 | 44 |
| 30 | Vertical distribution of chlorophyll in dynamically distinct regions of the southern Bay of Bengal. Biogeosciences, 2019, 16, 1447-1468. | 3.3 | 43 |
| 31 | Atmospheric response to observed intraseasonal tropical sea surface temperature anomalies. Geophysical Research Letters, 2004, 31, . | 4.0 | 38 |
| 32 | 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 |
| 33 | Meteorological monitoring of an active volcano: Implications for eruption prediction. Journal of Volcanology and Geothermal Research, 2006, 150, 339-358. | 2.1 | 37 |
| 34 | 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 |
| 35 | Why the South Pacific Convergence Zone is diagonal. Climate Dynamics, 2016, 46, 1683-1698. | 3.8 | 34 |
| 36 | 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 |

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|---|---|---|---|
| 37 | 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 |
| 38 | 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 |
| 39 | Coupled Landâ€"Atmosphere Intraseasonal Variability of the West African Monsoon in a GCM. Journal of Climate, 2010, 23, 5557-5571. | 3.2 | 29 |
| 40 | 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 |
| 41 | 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 |
| 42 | 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 |
| 43 | 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 |
| 44 | A thermodynamical model for rainfall-triggered volcanic dome collapse. Geophysical Research Letters, 2004, 31, n/a-n/a. | 4.0 | 23 |
| 45 | 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 |
| 46 | 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 |
| 47 | 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 |
| 48 | 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 |
| 49 | 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 |
| 50 | 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 |
| 51 | 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 |
| 52 | 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 |
| 53 | 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 |
| 54 | The effects of rainfall on different components of seasonal fecundity in a tropical forest passerine. Ibis, 2013, 155, 464-475. | 1.9 | 19 |

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| 55 | 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 |
| 56 | 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 |
| 57 | Equatorial Waves Triggering Extreme Rainfall and Floods in Southwest Sulawesi, Indonesia. Monthly Weather Review, 2021, 149, 1381-1401. | 1.4 | 17 |
| 58 | 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 |
| 59 | Observed Propagation and Structure of the 33-h Atmospheric Kelvin Wave. Journals of the Atmospheric Sciences, 2000, 57, 3488-3497. | 1.7 | 15 |
| 60 | 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 |
| 61 | 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 |
| 62 | 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 |
| 63 | Moisture transport by Atlantic tropical cyclones onto the North American continent. Climate Dynamics, 2017, 48, 3161-3182. | 3.8 | 14 |
| 64 | Injection of Oxygenated Persian Gulf Water Into the Southern Bay of Bengal. Geophysical Research Letters, 2020, 47, e2020GL087773. | 4.0 | 14 |
| 65 | Different atmospheric moisture divergence responses to extreme and moderate El NiÃ±os. Climate Dynamics, 2016, 47, 393-410. | 3.8 | 13 |
| 66 | 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 |
| 67 | 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 |
| 68 | 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 |
| 69 | Thermally Induced Convective Circulation and Precipitation over an Isolated Volcano. Journals of the Atmospheric Sciences, 2016, 73, 1667-1686. | 1.7 | 10 |
| 70 | Triggering of a volcanic dome collapse by rainwater infiltration. Journal of Geophysical Research, 2010, 115, . | 3.3 | 9 |
| 71 | 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 |
| 72 | Deployments in extreme conditions: Pushing the boundaries of Seaglider capabilities. , 2012, , . | | 5 |

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|---|---|---|---|
| 73 | North Atlantic Oscillation response to the Maddenâ€“Julian Oscillation in a coupled climate model. Weather, 2022, 77, 201-205. | 0.7 | 5 |
| 74 | 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 |
| 75 | Propagation mechanisms for the Madden-Julian Oscillation. Quarterly Journal of the Royal Meteorological Society, 2000, 126, 2637-2651. | 2.7 | 4 |
| 76 | 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 |
| 77 | 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 |
| 78 | 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 |
| 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 | 2 |
| 80 | 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 |