

Daniel M Mitchell

List of Publications by Year in descending order

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Version: 2024-02-01

97
papers

4,252
citations

136950

32
h-index

123424

61
g-index

130
all docs

130
docs citations

130
times ranked

5058
citing authors

#	ARTICLE	IF	CITATIONS
1	Stratospheric influence on tropospheric jet streams, storm tracks and surface weather. <i>Nature Geoscience</i> , 2015, 8, 433-440.	12.9	515
2	Attributing human mortality during extreme heat waves to anthropogenic climate change. <i>Environmental Research Letters</i> , 2016, 11, 074006.	5.2	264
3	The Influence of Stratospheric Vortex Displacements and Splits on Surface Climate. <i>Journal of Climate</i> , 2013, 26, 2668-2682.	3.2	213
4	Half a degree additional warming, prognosis and projected impacts (HAPPI): background and experimental design. <i>Geoscientific Model Development</i> , 2017, 10, 571-583.	3.6	203
5	A lagged response to the 11 year solar cycle in observed winter Atlantic/European weather patterns. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 13,405.	3.3	154
6	Realizing the impacts of a 1.5 °C warmer world. <i>Nature Climate Change</i> , 2016, 6, 735-737.	18.8	154
7	Characterizing loss and damage from climate change. <i>Nature Climate Change</i> , 2014, 4, 938-939.	18.8	113
8	A practical method to identify displaced and split stratospheric polar vortex events. <i>Geophysical Research Letters</i> , 2013, 40, 5268-5273.	4.0	111
9	Temperature-related mortality impacts under and beyond Paris Agreement climate change scenarios. <i>Climatic Change</i> , 2018, 150, 391-402.	3.6	107
10	Higher CO2 concentrations increase extreme event risk in a 1.5 °C world. <i>Nature Climate Change</i> , 2018, 8, 604-608.	18.8	104
11	Characterizing the Variability and Extremes of the Stratospheric Polar Vortices Using 2D Moment Analysis. <i>Journals of the Atmospheric Sciences</i> , 2011, 68, 1194-1213.	1.7	88
12	The 2021 western North America heat wave among the most extreme events ever recorded globally. <i>Science Advances</i> , 2022, 8, eabm6860.	10.3	83
13	Climatology and interannual variability of dynamic variables in multiple reanalyses evaluated by the SPARC Reanalysis Intercomparison Project (S-RIP). <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 14593-14629.	4.9	81
14	weather@home 2: validation of an improved global–regional climate modelling system. <i>Geoscientific Model Development</i> , 2017, 10, 1849-1872.	3.6	70
15	Event-to-event intensification of the hydrologic cycle from 1.5 °C to a 2 °C warmer world. <i>Scientific Reports</i> , 2019, 9, 3483.	3.3	67
16	Solar signals in CMIP5 simulations: the stratospheric pathway. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 2390-2403.	2.7	66
17	Increasing risks of multiple breadbasket failure under 1.5 and 2 °C global warming. <i>Agricultural Systems</i> , 2019, 175, 34-45.	6.1	64
18	Signatures of naturally induced variability in the atmosphere using multiple reanalysis datasets. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 2011-2031.	2.7	63

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19	Emergence of heat extremes attributable to anthropogenic influences. <i>Geophysical Research Letters</i> , 2016, 43, 3438-3443.	4.0	61
20	Stratospheric polar vortex splits and displacements in the high-top CMIP5 climate models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 1400-1413.	3.3	60
21	Solar signals in CMIP5 simulations: effects of atmosphere-ocean coupling. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016, 142, 928-941.	2.7	52
22	Revisiting the controversial issue of tropical tropospheric temperature trends. <i>Geophysical Research Letters</i> , 2013, 40, 2801-2806.	4.0	46
23	Climate extremes, land-climate feedbacks and land-use forcing at 1.5°C. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20160450.	3.4	46
24	Polar vortices on Earth and Mars: A comparative study of the climatology and variability from reanalyses. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 550-562.	2.7	45
25	The Effect of Climate Change on the Variability of the Northern Hemisphere Stratospheric Polar Vortex. <i>Journals of the Atmospheric Sciences</i> , 2012, 69, 2608-2618.	1.7	43
26	Solar signals in CMIP5 simulations: the ozone response. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 2670-2689.	2.7	43
27	Australia's Unprecedented Future Temperature Extremes Under Paris Limits to Warming. <i>Geophysical Research Letters</i> , 2017, 44, 9947-9956.	4.0	42
28	Possible impacts of a future grand solar minimum on climate: Stratospheric and global circulation changes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 9043-9058.	3.3	41
29	The structure and evolution of the stratospheric vortex in response to natural forcings. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	39
30	Increasing mitigation ambition to meet the Paris Agreement's temperature goal avoids substantial heat-related mortality in U.S. cities. <i>Science Advances</i> , 2019, 5, eaau4373.	10.3	37
31	The day the 2003 European heatwave record was broken. <i>Lancet Planetary Health</i> , The, 2019, 3, e290-e292.	11.4	36
32	Combining large model ensembles with extreme value statistics to improve attribution statements of rare events. <i>Weather and Climate Extremes</i> , 2015, 9, 25-35.	4.1	35
33	The effects of different sudden stratospheric warming types on the ocean. <i>Geophysical Research Letters</i> , 2014, 41, 7739-7745.	4.0	34
34	Extreme heat-related mortality avoided under Paris Agreement goals. <i>Nature Climate Change</i> , 2018, 8, 551-553.	18.8	33
35	Enhanced flood risk with 1.5 °C global warming in the Ganges-Brahmaputra-Meghna basin. <i>Environmental Research Letters</i> , 2019, 14, 074031.	5.2	33
36	Global temperature response to the major volcanic eruptions in multiple reanalysis data sets. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 13507-13518.	4.9	32

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37	Future changes in the frequency of temperature extremes may be underestimated in tropical and subtropical regions. <i>Communications Earth & Environment</i> , 2021, 2, .	6.8	32
38	On the Use of Geometric Moments to Examine the Continuum of Sudden Stratospheric Warmings. <i>Journals of the Atmospheric Sciences</i> , 2011, 68, 657-674.	1.7	31
39	Biogeophysical Impacts of Land-Use Change on Climate Extremes in Low-Emission Scenarios: Results From HAPPI-Land. <i>Earth's Future</i> , 2018, 6, 396-409.	6.3	31
40	Coupling of Stratospheric Warmings with Mesospheric Coolings in Observations and Simulations. <i>Journal of Climate</i> , 2018, 31, 1107-1133.	3.2	31
41	Changes in European wind energy generation potential within a 1.5- $^{\circ}\text{C}$ warmer world. <i>Environmental Research Letters</i> , 2018, 13, 054032.	5.2	31
42	On the Linearity of Local and Regional Temperature Changes from 1.5- $^{\circ}\text{C}$ to 2- $^{\circ}\text{C}$ of Global Warming. <i>Journal of Climate</i> , 2018, 31, 7495-7514.	3.2	30
43	Assessing mid-latitude dynamics in extreme event attribution systems. <i>Climate Dynamics</i> , 2017, 48, 3889-3901.	3.8	29
44	Changes in extremely hot days under stabilized 1.5 and 2.0- $^{\circ}\text{C}$ global warming scenarios as simulated by the HAPPI multi-model ensemble. <i>Earth System Dynamics</i> , 2018, 9, 299-311.	7.1	29
45	Reduced heat exposure by limiting global warming to 1.5 - $^{\circ}\text{C}$. <i>Nature Climate Change</i> , 2018, 8, 549-551.	18.8	29
46	Global Freshwater Availability Below Normal Conditions and Population Impact Under 1.5 and 2- $^{\circ}\text{C}$ Stabilization Scenarios. <i>Geophysical Research Letters</i> , 2018, 45, 9803-9813.	4.0	29
47	Models versus radiosondes in the free atmosphere: A new detection and attribution analysis of temperature. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 2609-2619.	3.3	27
48	Revisiting the observed surface climate response to large volcanic eruptions. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 485-499.	4.9	27
49	Midlatitude atmospheric circulation responses under 1.5 and 2.0- $^{\circ}\text{C}$ warming and implications for regional impacts. <i>Earth System Dynamics</i> , 2018, 9, 359-382.	7.1	27
50	Regional hotspots of temperature extremes under 1.5- $^{\circ}\text{C}$ and 2- $^{\circ}\text{C}$ of global mean warming. <i>Weather and Climate Extremes</i> , 2019, 26, 100233.	4.1	27
51	Hurricanes Harvey, Irma and Maria: how natural were these "natural disasters"? <i>Weather</i> , 2017, 72, 353-354.	0.7	26
52	The vertical profile of recent tropical temperature trends: Persistent model biases in the context of internal variability. <i>Environmental Research Letters</i> , 2020, 15, 1040b4.	5.2	25
53	The Impact of Human-Induced Climate Change on Regional Drought in the Horn of Africa. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 4549-4566.	3.3	23
54	Tracking the Stratosphere-to-Surface Impact of Sudden Stratospheric Warmings. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033881.	3.3	22

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55	U.K. Climate Projections: Summer Daytime and Nighttime Urban Heat Island Changes in England's Major Cities. <i>Journal of Climate</i> , 2020, 33, 9015-9030.	3.2	22
56	The 2014 Drought in the Horn of Africa: Attribution of Meteorological Drivers. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, S83-S88.	3.3	21
57	Larger Spatial Footprint of Wintertime Total Precipitation Extremes in a Warmer Climate. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091990.	4.0	19
58	The myriad challenges of the Paris Agreement. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20180066.	3.4	18
59	Evaluating heat extremes in the UK Climate Projections (UKCP18). <i>Environmental Research Letters</i> , 2021, 16, 014039.	5.2	18
60	Climate attribution of heat mortality. <i>Nature Climate Change</i> , 2021, 11, 467-468.	18.8	18
61	Investigating event-specific drought attribution using self-organizing maps. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 12,766.	3.3	17
62	Anthropogenic climate change and heat effects on health. <i>International Journal of Climatology</i> , 2019, 39, 4751-4768.	3.5	17
63	Potential vorticity structure of Titan's polar vortices from Cassini CIRS observations. <i>Icarus</i> , 2021, 354, 114030.	2.5	17
64	Estimating heat-related mortality in near real time for national heatwave plans. <i>Environmental Research Letters</i> , 2022, 17, 024017.	5.2	16
65	The Contribution of Human-Induced Climate Change to the Drought of 2014 in the Southern Levant Region. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, S66-S70.	3.3	15
66	Human Influences on Heat-Related Health Indicators During the 2015 Egyptian Heat Wave. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, S70-S74.	3.3	15
67	The nature of Arctic polar vortices in chemistry-climate models. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2012, 138, 1681-1691.	2.7	14
68	Vortex splitting on a planetary scale in the stratosphere by cyclogenesis on a subplanetary scale in the troposphere. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017, 143, 691-705.	2.7	14
69	Historical and future anthropogenic warming effects on droughts, fires and fire emissions of CO ₂ and PM _{2.5} in equatorial Asia when 2015-like El Niño events occur. <i>Earth System Dynamics</i> , 2020, 11, 435-445.	7.1	14
70	Attributing the forced components of observed stratospheric temperature variability to external drivers. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016, 142, 1041-1047.	2.7	13
71	Persistent Model Biases in the CMIP6 Representation of Stratospheric Polar Vortex Variability. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD034759.	3.3	13
72	Global aridity changes due to differences in surface energy and water balance between 1.5 °C and 2 °C warming. <i>Environmental Research Letters</i> , 2020, 15, 0940a7.	5.2	13

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73	Dynamical and surface impacts of the January 2021 sudden stratospheric warming in novel Aeolus wind observations, MLS and ERA5. <i>Weather and Climate Dynamics</i> , 2021, 2, 1283-1301.	3.5	13
74	Limiting global warming to 1.5 °C will lower increases in inequalities of four hazard indicators of climate change. <i>Environmental Research Letters</i> , 2019, 14, 124022.	5.2	12
75	Mapping the zonal structure of Titan's northern polar vortex. <i>Icarus</i> , 2020, 337, 113441.	2.5	12
76	Severe Frosts in Western Australia in September 2016. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, S150-S154.	3.3	11
77	The Roles of Latent Heating and Dust in the Structure and Variability of the Northern Martian Polar Vortex. <i>Planetary Science Journal</i> , 2021, 2, 203.	3.6	11
78	The stratopause evolution during different types of sudden stratospheric warming event. <i>Climate Dynamics</i> , 2015, 44, 3323-3337.	3.8	9
79	Method Uncertainty Is Essential for Reliable Confidence Statements of Precipitation Projections. <i>Journal of Climate</i> , 2021, 34, 1227-1240.	3.2	9
80	Effects of 1.5 °C and 2 °C of warming on regional reference evapotranspiration and drying: A case study of the Yellow River Basin, China. <i>International Journal of Climatology</i> , 2021, 41, 791-810.	3.5	7
81	Polar Vortices in Planetary Atmospheres. <i>Reviews of Geophysics</i> , 2021, 59, e2020RG000723.	23.0	7
82	The numerous approaches to tracking extratropical cyclones and the challenges they present. <i>Weather</i> , 2020, 75, 336-341.	0.7	6
83	Stratospheric Nudging And Predictable Surface Impacts (SNAPSI): a protocol for investigating the role of stratospheric polar vortex disturbances in subseasonal to seasonal forecasts. <i>Geoscientific Model Development</i> , 2022, 15, 5073-5092.	3.6	6
84	A comparison of model ensembles for attributing 2012 West African rainfall. <i>Environmental Research Letters</i> , 2017, 12, 014019.	5.2	5
85	Assessing changes in risk of amplified planetary waves in a warming world. <i>Atmospheric Science Letters</i> , 2019, 20, e929.	1.9	5
86	Projected risks associated with heat stress in the UK Climate Projections (UKCP18). <i>Environmental Research Letters</i> , 2022, 17, 034024.	5.2	5
87	Model cascade from meteorological drivers to river flood hazard: flood-cascade v1.0. <i>Geoscientific Model Development</i> , 2021, 14, 4865-4890.	3.6	4
88	Regional disparities and seasonal differences in climate risk to rice labour. <i>Environmental Research Letters</i> , 2021, 16, 124004.	5.2	4
89	The Bristol CMIP6 Data Hackathon. <i>Weather</i> , 2022, 77, 218-221.	0.7	4
90	How Well Are Sudden Stratospheric Warming Surface Impacts Captured in CMIP6 Climate Models?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	4

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91	What do changing weather and climate shocks and stresses mean for the UK food system?. <i>Environmental Research Letters</i> , 2022, 17, 051001.	5.2	4
92	The impact of stratospheric resolution on the detectability of climate change signals in the free atmosphere. <i>Geophysical Research Letters</i> , 2013, 40, 937-942.	4.0	3
93	Organising a collaborative online hackathon for cutting-edge climate research. <i>Weather</i> , 2022, 77, 221-226.	0.7	3
94	Increased population exposure to Amphan-scale cyclones under future climates. <i>Climate Resilience and Sustainability</i> , 2022, 1, .	2.3	3
95	Concerns over calculating injury-related deaths associated with temperature. <i>Nature Medicine</i> , 2020, 26, 1825-1826.	30.7	2
96	Editorial: Climate Science Advances to Address 21st Century Weather and Climate Extremes. <i>Frontiers in Climate</i> , 2021, 3, .	2.8	1
97	How will climate change affect <sc>UK</sc> heatwaves?. <i>Weather</i> , 2021, 76, 326-327.	0.7	1