Daniel M Mitchell

List of Publications by Year in Descending Order

92 papers	2,895 citations	28 h-index	51 g-index
130 ext. papers	3,535 ext. citations	6.8 avg, IF	5.48 L-index

#	Paper	IF	Citations
92	Estimating heat-related mortality in near real time for national heatwave plans.. *Environmental Research Letters*, **2022**, 17, 024017-24017	6.2	2
91	What do changing weather and climate shocks and stresses mean for the UK food system?. *Environmental Research Letters*, **2022**, 17, 051001	6.2	0
90	The 2021 western North America heat wave among the most extreme events ever recorded globally.. *Science Advances*, **2022**, 8, eabm6860	14.3	10
89	Dynamical and surface impacts of the January 2021 sudden stratospheric warming in novel Aeolus wind observations, MLS and ERA5. *Weather and Climate Dynamics*, **2021**, 2, 1283-1301	3.3	1
88	Regional disparities and seasonal differences in climate risk to rice labour. *Environmental Research Letters*, **2021**, 16, 124004	6.2	0
87	Larger Spatial Footprint of Wintertime Total Precipitation Extremes in a Warmer Climate. *Geophysical Research Letters*, **2021**, 48, e2020GL091990	4.9	5
86	Persistent Model Biases in the CMIP6 Representation of Stratospheric Polar Vortex Variability. *Journal of Geophysical Research D: Atmospheres*, **2021**, 126, e2021JD034759	4.4	3
85	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. *International Journal of Climatology*, **2021**, 41, 791-810	3.5	4
84	Potential vorticity structure of Titan s polar vortices from Cassini CIRS observations. *Icarus*, **2021**, 354, 114030	3.8	8
83	Evaluating heat extremes in the UK Climate Projections (UKCP18). *Environmental Research Letters*, **2021**, 16, 014039	6.2	7
82	Future changes in the frequency of temperature extremes may be underestimated in tropical and subtropical regions. *Communications Earth & Environment*, **2021**, 2,	6.1	8
81	Method Uncertainty Is Essential for Reliable Confidence Statements of Precipitation Projections. *Journal of Climate*, **2021**, 34, 1227-1240	4.4	5
80	Tracking the Stratosphere-to-Surface Impact of Sudden Stratospheric Warmings. *Journal of Geophysical Research D: Atmospheres*, **2021**, 126, e2020JD033881	4.4	7
79	Model cascade from meteorological drivers to river flood hazard: flood-cascade v1.0. *Geoscientific Model Development*, **2021**, 14, 4865-4890	6.3	1
78	How will climate change affect UK heatwaves?. *Weather*, **2021**, 76, 326	0.9	1
77	The Roles of Latent Heating and Dust in the Structure and Variability of the Northern Martian Polar Vortex. *Planetary Science Journal*, **2021**, 2, 203	2.9	3
76	The numerous approaches to tracking extratropical cyclones and the challenges they present. *Weather*, **2020**, 75, 336-341	0.9	2

75	U.K. Climate Projections: Summer Daytime and Nighttime Urban Heat Island Changes in England's Major Cities. *Journal of Climate*, **2020**, 33, 9015-9030	4.4	11
74	Historical and future anthropogenic warming effects on droughts, fires and fire emissions of CO₂ and PM_{2.5} in equatorial Asia when 2015-like El Niño events occur. *Earth System Dynamics*, **2020**, 11, 435-445	4.8	8
73	Global aridity changes due to differences in surface energy and water balance between 1.5 °C and 2 °C warming. *Environmental Research Letters*, **2020**, 15, 0940a7	6.2	4
72	Mapping the zonal structure of Titan's northern polar vortex. *Icarus*, **2020**, 337, 113441	3.8	6
71	The vertical profile of recent tropical temperature trends: Persistent model biases in the context of internal variability. *Environmental Research Letters*, **2020**, 15, 1040b4	6.2	10
70	Concerns over calculating injury-related deaths associated with temperature. *Nature Medicine*, **2020**, 26, 1825-1826	50.5	2
69	Historical and future anthropogenic warming effects on the year 2015 droughts, fires and fire emissions of CO₂ and PM_{2.5} in equatorial Asia **2019**,		1
68	The day the 2003 European heatwave record was broken. *Lancet Planetary Health, The*, **2019**, 3, e290-e292	9.8	16
67	Increasing risks of multiple breadbasket failure under 1.5 and 2 °C global warming. *Agricultural Systems*, **2019**, 175, 34-45	6.1	32
66	Increasing mitigation ambition to meet the Paris Agreement's temperature goal avoids substantial heat-related mortality in U.S. cities. *Science Advances*, **2019**, 5, eaau4373	14.3	21
65	Anthropogenic climate change and heat effects on health. *International Journal of Climatology*, **2019**, 39, 4751-4768	3.5	7
64	Event-to-event intensification of the hydrologic cycle from 1.5 °C to a 2 °C warmer world. *Scientific Reports*, **2019**, 9, 3483	4.9	42
63	The Impact of Human-Induced Climate Change on Regional Drought in the Horn of Africa. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 4549-4566	4.4	13
62	Enhanced flood risk with 1.5 °C global warming in the Ganges–Brahmaputra–Meghna basin. *Environmental Research Letters*, **2019**, 14, 074031	6.2	21
61	Assessing changes in risk of amplified planetary waves in a warming world. *Atmospheric Science Letters*, **2019**, 20, e929	2.4	2
60	Regional hotspots of temperature extremes under 1.5 °C and 2 °C of global mean warming. *Weather and Climate Extremes*, **2019**, 26, 100233	6	13
59	Limiting global warming to 1.5 °C will lower increases in inequalities of four hazard indicators of climate change. *Environmental Research Letters*, **2019**, 14, 124022	6.2	5
58	Biogeophysical Impacts of Land-Use Change on Climate Extremes in Low-Emission Scenarios: Results From HAPPI-Land. *Earth's Future*, **2018**, 6, 396-409	7.9	18

57	The myriad challenges of the Paris Agreement. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2018**, 376,	3	9
56	Coupling of Stratospheric Warmings with Mesospheric Coolings in Observations and Simulations. *Journal of Climate*, **2018**, 31, 1107-1133	4.4	25
55	Climate extremes, land-climate feedbacks and land-use forcing at 1.5°C. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2018**, 376,	3	38
54	Global Freshwater Availability Below Normal Conditions and Population Impact Under 1.5 and 2°C Stabilization Scenarios. *Geophysical Research Letters*, **2018**, 45, 9803-9813	4.9	21
53	Higher CO2 concentrations increase extreme event risk in a 1.5 °C world. *Nature Climate Change*, **2018**, 8, 604-608	21.4	63
52	Changes in European wind energy generation potential within a 1.5 °C warmer world. *Environmental Research Letters*, **2018**, 13, 054032	6.2	21
51	Changes in extremely hot days under stabilized 1.5 and 2.0 °C global warming scenarios as simulated by the HAPPI multi-model ensemble. *Earth System Dynamics*, **2018**, 9, 299-311	4.8	24
50	Temperature-related mortality impacts under and beyond Paris Agreement climate change scenarios. *Climatic Change*, **2018**, 150, 391-402	4.5	67
49	Severe Frosts in Western Australia in September 2016. *Bulletin of the American Meteorological Society*, **2018**, 99, S150-S154	6.1	7
48	On the Linearity of Local and Regional Temperature Changes from 1.5°C to 2°C of Global Warming. *Journal of Climate*, **2018**, 31, 7495-7514	4.4	21
47	Extreme heat-related mortality avoided under Paris Agreement goals. *Nature Climate Change*, **2018** , 8, 551-553	21.4	24
46	Midlatitude atmospheric circulation responses under 1.5 and 2.0 °C warming and implications for regional impacts. *Earth System Dynamics*, **2018**, 9, 359-382	4.8	19
45	Assessing mid-latitude dynamics in extreme event attribution systems. *Climate Dynamics*, **2017**, 48, 3889-3901	4.2	25
44	Australia's Unprecedented Future Temperature Extremes Under Paris Limits to Warming. *Geophysical Research Letters*, **2017**, 44, 9947-9956	4.9	33
43	weather@home 2: validation of an improved global–regional climate modelling system. *Geoscientific Model Development*, **2017**, 10, 1849-1872	6.3	56
42	Changes in extremely hot days under stabilized 1.5 °C and 2.0 °C global warming scenarios as simulated by the HAPPI multi-model ensemble **2017**,		2
41	Climatology and Interannual Variability of Dynamic Variables in Multiple Reanalyses Evaluated by the SPARC Reanalysis Intercomparison Project (S-RIP) **2017**,		3
40	Vortex splitting on a planetary scale in the stratosphere by cyclogenesis on a subplanetary scale in the troposphere. *Quarterly Journal of the Royal Meteorological Society*, **2017**, 143, 691-705	6.4	11

39	Hurricanes Harvey, Irma and Maria: how natural were these natural disasters? *Weather*, **2017**, 72, 353-354	4.9	21
38	A comparison of model ensembles for attributing 2012 West African rainfall. *Environmental Research Letters*, **2017**, 12, 014019	6.2	5
37	Revisiting the observed surface climate response to large volcanic eruptions. *Atmospheric Chemistry and Physics*, **2017**, 17, 485-499	6.8	18
36	Climatology and interannual variability of dynamic variables in multiple reanalyses evaluated by the SPARC Reanalysis Intercomparison Project (S-RIP). *Atmospheric Chemistry and Physics*, **2017**, 17, 14593-14629	6.8	62
35	Half a degree additional warming, prognosis and projected impacts (HAPPI): background and experimental design. *Geoscientific Model Development*, **2017**, 10, 571-583	6.3	162
34	Half a degree Additional warming, Projections, Prognosis and Impacts (HAPPI): Background and Experimental Design **2016**,		4
33	Investigating event-specific drought attribution using self-organizing maps. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 12,766-12,780	4.4	7
32	Stratospheric polar vortex splits and displacements in the high-top CMIP5 climate models. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 1400-1413	4.4	47
31	Attributing human mortality during extreme heat waves to anthropogenic climate change. *Environmental Research Letters*, **2016**, 11, 074006	6.2	158
30	Human Influences on Heat-Related Health Indicators During the 2015 Egyptian Heat Wave. *Bulletin of the American Meteorological Society*, **2016**, 97, S70-S74	6.1	9
29	Solar signals in CMIP-5 simulations: effects of atmosphere-ocean coupling. *Quarterly Journal of the Royal Meteorological Society*, **2016**, 142, 928-941	6.4	38
28	Emergence of heat extremes attributable to anthropogenic influences. *Geophysical Research Letters*, **2016**, 43, 3438-3443	4.9	46
27	Attributing the forced components of observed stratospheric temperature variability to external drivers. *Quarterly Journal of the Royal Meteorological Society*, **2016**, 142, 1041-1047	6.4	9
26	Possible impacts of a future grand solar minimum on climate: Stratospheric and global circulation changes. *Journal of Geophysical Research D: Atmospheres*, **2015**, 120, 9043-9058	4.4	31
25	Combining large model ensembles with extreme value statistics to improve attribution statements of rare events. *Weather and Climate Extremes*, **2015**, 9, 25-35	6	27
24	Signatures of naturally induced variability in the atmosphere using multiple reanalysis datasets. *Quarterly Journal of the Royal Meteorological Society*, **2015**, 141, 2011-2031	6.4	55
23	Solar signals in CMIP-5 simulations: the stratospheric pathway. *Quarterly Journal of the Royal Meteorological Society*, **2015**, 141, 2390-2403	6.4	58
22	The Contribution of Human-Induced Climate Change to the Drought of 2014 in the Southern Levant Region. *Bulletin of the American Meteorological Society*, **2015**, 96, S66-S70	6.1	14

21	Global temperature response to the major volcanic eruptions in multiple reanalysis data sets. *Atmospheric Chemistry and Physics*, **2015**, 15, 13507-13518	6.8	18
20	Solar signals in CMIP-5 simulations: the ozone response. *Quarterly Journal of the Royal Meteorological Society*, **2015**, 141, 2670-2689	6.4	39
19	The 2014 Drought in the Horn of Africa: Attribution of Meteorological Drivers. *Bulletin of the American Meteorological Society*, **2015**, 96, S83-S88	6.1	13
18	Stratospheric influence on tropospheric jet streams, storm tracks and surface weather. *Nature Geoscience*, **2015**, 8, 433-440	18.3	356
17	The stratopause evolution during different types of sudden stratospheric warming event. *Climate Dynamics*, **2015**, 44, 3323-3337	4.2	6
16	Polar vortices on Earth and Mars: A comparative study of the climatology and variability from reanalyses. *Quarterly Journal of the Royal Meteorological Society*, **2015**, 141, 550-562	6.4	37
15	The effects of different sudden stratospheric warming types on the ocean. *Geophysical Research Letters*, **2014**, 41, 7739-7745	4.9	27
14	The Influence of Stratospheric Vortex Displacements and Splits on Surface Climate. *Journal of Climate*, **2013**, 26, 2668-2682	4.4	180
13	Models versus radiosondes in the free atmosphere: A new detection and attribution analysis of temperature. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 2609-2619	4.4	23
12	The impact of stratospheric resolution on the detectability of climate change signals in the free atmosphere. *Geophysical Research Letters*, **2013**, 40, 937-942	4.9	3
11	A lagged response to the 11 year solar cycle in observed winter Atlantic/European weather patterns. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 13,405-13,420	4.4	125
10	A practical method to identify displaced and split stratospheric polar vortex events. *Geophysical Research Letters*, **2013**, 40, 5268-5273	4.9	69
9	Revisiting the controversial issue of tropical tropospheric temperature trends. *Geophysical Research Letters*, **2013**, 40, 2801-2806	4.9	33
8	The nature of Arctic polar vortices in chemistry–climate models. *Quarterly Journal of the Royal Meteorological Society*, **2012**, 138, 1681-1691	6.4	12
7	The Effect of Climate Change on the Variability of the Northern Hemisphere Stratospheric Polar Vortex. *Journals of the Atmospheric Sciences*, **2012**, 69, 2608-2618	2.1	35
6	The structure and evolution of the stratospheric vortex in response to natural forcings. *Journal of Geophysical Research*, **2011**, 116,		35
5	On the Use of Geometric Moments to Examine the Continuum of Sudden Stratospheric Warmings. *Journals of the Atmospheric Sciences*, **2011**, 68, 657-674	2.1	26
4	Characterizing the Variability and Extremes of the Stratospheric Polar Vortices Using 2D Moment Analysis. *Journals of the Atmospheric Sciences*, **2011**, 68, 1194-1213	2.1	66

3	Polar vortices in planetary atmospheres. *Reviews of Geophysics*,e2020RG000723	23.1	2
2	Global temperature response to the major volcanic eruptions in multiple reanalysis datasets		2
1	Dynamical and Surface Impacts of the January 2021 Sudden Stratospheric Warming in Novel Aeolus Wind Observations, MLS and ERA5		3