

Daniel M Mitchell

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Stratospheric influence on tropospheric jet streams, storm tracks and surface weather. <i>Nature Geoscience</i> , 2015 , 8, 433-440	18.3	356
91	The Influence of Stratospheric Vortex Displacements and Splits on Surface Climate. <i>Journal of Climate</i> , 2013 , 26, 2668-2682	4.4	180
90	Half a degree additional warming, prognosis and projected impacts (HAPPI): background and experimental design. <i>Geoscientific Model Development</i> , 2017 , 10, 571-583	6.3	162
89	Attributing human mortality during extreme heat waves to anthropogenic climate change. <i>Environmental Research Letters</i> , 2016 , 11, 074006	6.2	158
88	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, 13,405-13,420	4.4	125
87	A practical method to identify displaced and split stratospheric polar vortex events. <i>Geophysical Research Letters</i> , 2013 , 40, 5268-5273	4.9	69
86	Temperature-related mortality impacts under and beyond Paris Agreement climate change scenarios. <i>Climatic Change</i> , 2018 , 150, 391-402	4.5	67
85	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	2.1	66
84	Higher CO2 concentrations increase extreme event risk in a 1.5 °C world. <i>Nature Climate Change</i> , 2018 , 8, 604-608	21.4	63
83	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	6.8	62
82	Solar signals in CMIP-5 simulations: the stratospheric pathway. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015 , 141, 2390-2403	6.4	58
81	weather@home 2: validation of an improved global/regional climate modelling system. <i>Geoscientific Model Development</i> , 2017 , 10, 1849-1872	6.3	56
80	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	6.4	55
79	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	4.4	47
78	Emergence of heat extremes attributable to anthropogenic influences. <i>Geophysical Research Letters</i> , 2016 , 43, 3438-3443	4.9	46
77	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	4.9	42
76	Solar signals in CMIP-5 simulations: the ozone response. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015 , 141, 2670-2689	6.4	39

75	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,	3	38
74	Solar signals in CMIP-5 simulations: effects of atmosphere-ocean coupling. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016 , 142, 928-941	6.4	38
73	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	6.4	37
72	The structure and evolution of the stratospheric vortex in response to natural forcings. <i>Journal of Geophysical Research</i> , 2011 , 116,		35
71	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	2.1	35
70	Australia's Unprecedented Future Temperature Extremes Under Paris Limits to Warming. <i>Geophysical Research Letters</i> , 2017 , 44, 9947-9956	4.9	33
69	Revisiting the controversial issue of tropical tropospheric temperature trends. <i>Geophysical Research Letters</i> , 2013 , 40, 2801-2806	4.9	33
68	Increasing risks of multiple breadbasket failure under 1.5 and 2 °C global warming. <i>Agricultural Systems</i> , 2019 , 175, 34-45	6.1	32
67	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	4.4	31
66	The effects of different sudden stratospheric warming types on the ocean. <i>Geophysical Research Letters</i> , 2014 , 41, 7739-7745	4.9	27
65	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	6	27
64	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	2.1	26
63	Assessing mid-latitude dynamics in extreme event attribution systems. <i>Climate Dynamics</i> , 2017 , 48, 3889-3901	4.2	25
62	Coupling of Stratospheric Warmings with Mesospheric Coolings in Observations and Simulations. <i>Journal of Climate</i> , 2018 , 31, 1107-1133	4.4	25
61	Changes in extremely hot days under stabilized 1.5 and 2.0 °C global warming scenarios as simulated by the HAPPI multi-model ensemble. <i>Earth System Dynamics</i> , 2018 , 9, 299-311	4.8	24
60	Extreme heat-related mortality avoided under Paris Agreement goals. <i>Nature Climate Change</i> , 2018 , 8, 551-553	21.4	24
59	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	4.4	23
58	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	14.3	21

57	Enhanced flood risk with 1.5 °C global warming in the GangesBrahmaputraMeghna basin. <i>Environmental Research Letters</i> , 2019 , 14, 074031	6.2	21
56	Global Freshwater Availability Below Normal Conditions and Population Impact Under 1.5 and 2°C Stabilization Scenarios. <i>Geophysical Research Letters</i> , 2018 , 45, 9803-9813	4.9	21
55	Hurricanes Harvey, Irma and Maria: how natural were these natural disasters? <i>Weather</i> , 2017 , 72, 353-354	4.9	21
54	Changes in European wind energy generation potential within a 1.5 °C warmer world. <i>Environmental Research Letters</i> , 2018 , 13, 054032	6.2	21
53	On the Linearity of Local and Regional Temperature Changes from 1.5°C to 2°C of Global Warming. <i>Journal of Climate</i> , 2018 , 31, 7495-7514	4.4	21
52	Midlatitude atmospheric circulation responses under 1.5 and 2.0 °C warming and implications for regional impacts. <i>Earth System Dynamics</i> , 2018 , 9, 359-382	4.8	19
51	Biogeophysical Impacts of Land-Use Change on Climate Extremes in Low-Emission Scenarios: Results From HAPPI-Land. <i>Earths Future</i> , 2018 , 6, 396-409	7.9	18
50	Revisiting the observed surface climate response to large volcanic eruptions. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 485-499	6.8	18
49	Global temperature response to the major volcanic eruptions in multiple reanalysis data sets. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 13507-13518	6.8	18
48	The day the 2003 European heatwave record was broken. <i>Lancet Planetary Health, The</i> , 2019 , 3, e290-e292	9.8	16
47	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	6.1	14
46	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	4.4	13
45	Regional hotspots of temperature extremes under 1.5 °C and 2 °C of global mean warming. <i>Weather and Climate Extremes</i> , 2019 , 26, 100233	6	13
44	The 2014 Drought in the Horn of Africa: Attribution of Meteorological Drivers. <i>Bulletin of the American Meteorological Society</i> , 2015 , 96, S83-S88	6.1	13
43	The nature of Arctic polar vortices in chemistryclimate models. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2012 , 138, 1681-1691	6.4	12
42	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	6.4	11
41	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	4.4	11
40	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	6.2	10

39	The 2021 western North America heat wave among the most extreme events ever recorded globally.. <i>Science Advances</i> , 2022 , 8, eabm6860	14.3	10
38	The myriad challenges of the Paris Agreement. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018 , 376,	3	9
37	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	6.1	9
36	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	6.4	9
35	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	4.8	8
34	Potential vorticity structure of Titan's polar vortices from Cassini CIRS observations. <i>Icarus</i> , 2021 , 354, 114030	3.8	8
33	Future changes in the frequency of temperature extremes may be underestimated in tropical and subtropical regions. <i>Communications Earth & Environment</i> , 2021 , 2,	6.1	8
32	Anthropogenic climate change and heat effects on health. <i>International Journal of Climatology</i> , 2019 , 39, 4751-4768	3.5	7
31	Investigating event-specific drought attribution using self-organizing maps. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 12,766-12,780	4.4	7
30	Evaluating heat extremes in the UK Climate Projections (UKCP18). <i>Environmental Research Letters</i> , 2021 , 16, 014039	6.2	7
29	Tracking the Stratosphere-to-Surface Impact of Sudden Stratospheric Warmings. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD033881	4.4	7
28	Severe Frosts in Western Australia in September 2016. <i>Bulletin of the American Meteorological Society</i> , 2018 , 99, S150-S154	6.1	7
27	The stratopause evolution during different types of sudden stratospheric warming event. <i>Climate Dynamics</i> , 2015 , 44, 3323-3337	4.2	6
26	Mapping the zonal structure of Titan's northern polar vortex. <i>Icarus</i> , 2020 , 337, 113441	3.8	6
25	A comparison of model ensembles for attributing 2012 West African rainfall. <i>Environmental Research Letters</i> , 2017 , 12, 014019	6.2	5
24	Larger Spatial Footprint of Wintertime Total Precipitation Extremes in a Warmer Climate. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL091990	4.9	5
23	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	6.2	5
22	Method Uncertainty Is Essential for Reliable Confidence Statements of Precipitation Projections. <i>Journal of Climate</i> , 2021 , 34, 1227-1240	4.4	5

21	Half a degree Additional warming, Projections, Prognosis and Impacts (HAPPI): Background and Experimental Design 2016 ,		4
20	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	6.2	4
19	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	4
18	Climatology and Interannual Variability of Dynamic Variables in Multiple Reanalyses Evaluated by the SPARC Reanalysis Intercomparison Project (S-RIP) 2017 ,		3
17	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	4.9	3
16	Dynamical and Surface Impacts of the January 2021 Sudden Stratospheric Warming in Novel Aeolus Wind Observations, MLS and ERA5		3
15	Persistent Model Biases in the CMIP6 Representation of Stratospheric Polar Vortex Variability. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2021JD034759	4.4	3
14	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	2.9	3
13	The numerous approaches to tracking extratropical cyclones and the challenges they present. <i>Weather</i> , 2020 , 75, 336-341	0.9	2
12	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
11	Assessing changes in risk of amplified planetary waves in a warming world. <i>Atmospheric Science Letters</i> , 2019 , 20, e929	2.4	2
10	Estimating heat-related mortality in near real time for national heatwave plans.. <i>Environmental Research Letters</i> , 2022 , 17, 024017-24017	6.2	2
9	Polar vortices in planetary atmospheres. <i>Reviews of Geophysics</i> , e2020RG000723	23.1	2
8	Global temperature response to the major volcanic eruptions in multiple reanalysis datasets		2
7	Concerns over calculating injury-related deaths associated with temperature. <i>Nature Medicine</i> , 2020 , 26, 1825-1826	50.5	2
6	Historical and future anthropogenic warming effects on the year 2015 droughts, fires and fire emissions of CO ₂ and PM _{2.5} in equatorial Asia 2019 ,		1
5	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	3.3	1
4	Model cascade from meteorological drivers to river flood hazard: flood-cascade v1.0. <i>Geoscientific Model Development</i> , 2021 , 14, 4865-4890	6.3	1

3	How will climate change affect UK heatwaves?. <i>Weather</i> , 2021 , 76, 326	0.9	1
2	Regional disparities and seasonal differences in climate risk to rice labour. <i>Environmental Research Letters</i> , 2021 , 16, 124004	6.2	0
1	What do changing weather and climate shocks and stresses mean for the UK food system?. <i>Environmental Research Letters</i> , 2022 , 17, 051001	6.2	0