

Ed Hawkins

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.

132
papers

12,634
citations

53
h-index

112
g-index

161
ext. papers

14,681
ext. citations

7.9
avg, IF

6.62
L-index

#	Paper	IF	Citations
132	The Potential to Narrow Uncertainty in Regional Climate Predictions. <i>Bulletin of the American Meteorological Society</i> , 2009 , 90, 1095-1108	6.1	1509
131	The potential to narrow uncertainty in projections of regional precipitation change. <i>Climate Dynamics</i> , 2011 , 37, 407-418	4.2	644
130	The 2dF Galaxy Redshift Survey: correlation functions, peculiar velocities and the matter density of the Universe. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003 , 346, 78-96	4.3	624
129	The 2dF Galaxy Redshift Survey: the environmental dependence of galaxy star formation rates near clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2002 , 334, 673-683	4.3	576
128	Decadal Prediction. <i>Bulletin of the American Meteorological Society</i> , 2009 , 90, 1467-1486	6.1	552
127	Global risk of deadly heat. <i>Nature Climate Change</i> , 2017 , 7, 501-506	21.4	533
126	The 2dF Galaxy Redshift Survey: the dependence of galaxy clustering on luminosity and spectral type. <i>Monthly Notices of the Royal Astronomical Society</i> , 2002 , 332, 827-838	4.3	402
125	Decadal Climate Prediction: An Update from the Trenches. <i>Bulletin of the American Meteorological Society</i> , 2014 , 95, 243-267	6.1	364
124	CO ₂ , the greenhouse effect and global warming: from the pioneering work of Arrhenius and Callendar to today's Earth System Models. <i>Endeavour</i> , 2016 , 40, 178-187	0.5	362
123	The 2dF Galaxy Redshift Survey: luminosity dependence of galaxy clustering. <i>Monthly Notices of the Royal Astronomical Society</i> , 2001 , 328, 64-70	4.3	349
122	Time of emergence of climate signals. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	280
121	A verification framework for interannual-to-decadal predictions experiments. <i>Climate Dynamics</i> , 2013 , 40, 245-272	4.2	207
120	Towards a more reliable historical reanalysis: Improvements for version 3 of the Twentieth Century Reanalysis system. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019 , 145, 2876-2908	6.4	204
119	Towards predictive understanding of regional climate change. <i>Nature Climate Change</i> , 2015 , 5, 921-930	21.4	196
118	Estimating Changes in Global Temperature since the Preindustrial Period. <i>Bulletin of the American Meteorological Society</i> , 2017 , 98, 1841-1856	6.1	182
117	Addressing uncertainty in adaptation planning for agriculture. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 8357-62	11.5	176
116	Broad threat to humanity from cumulative climate hazards intensified by greenhouse gas emissions. <i>Nature Climate Change</i> , 2018 , 8, 1062-1071	21.4	175

115	Sea ice decline and 21st century trans-Arctic shipping routes. <i>Geophysical Research Letters</i> , 2016 , 43, 9720-9728	4.9	162
114	The 2dF Galaxy Redshift Survey: galaxy clustering per spectral type. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003 , 344, 847-856	4.3	161
113	A Simple, Coherent Framework for Partitioning Uncertainty in Climate Predictions. <i>Journal of Climate</i> , 2011 , 24, 4634-4643	4.4	158
112	Calibration and bias correction of climate projections for crop modelling: An idealised case study over Europe. <i>Agricultural and Forest Meteorology</i> , 2013 , 170, 19-31	5.8	155
111	Increasing influence of heat stress on French maize yields from the 1960s to the 2030s. <i>Global Change Biology</i> , 2013 , 19, 937-47	11.4	155
110	The 2dF Galaxy Redshift Survey: the luminosity function of cluster galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003 , 342, 725-737	4.3	146
109	Projections of when temperature change will exceed 2 °C above pre-industrial levels. <i>Nature Climate Change</i> , 2011 , 1, 407-412	21.4	129
108	A review on Arctic sea-ice predictability and prediction on seasonal to decadal time-scales. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016 , 142, 546-561	6.4	128
107	The Maunder minimum (1645-1715) was indeed a grand minimum: A reassessment of multiple datasets. <i>Astronomy and Astrophysics</i> , 2015 , 581, A95	5.1	127
106	Robust comparison of climate models with observations using blended land air and ocean sea surface temperatures. <i>Geophysical Research Letters</i> , 2015 , 42, 6526-6534	4.9	119
105	Near-term Climate Change: Projections and Predictability	9.53-10.28	111
104	Models agree on forced response pattern of precipitation and temperature extremes. <i>Geophysical Research Letters</i> , 2014 , 41, 8554-8562	4.9	111
103	Seasonal to interannual Arctic sea ice predictability in current global climate models. <i>Geophysical Research Letters</i> , 2014 , 41, 1035-1043	4.9	104
102	Pan-Arctic and Regional Sea Ice Predictability: Initialization Month Dependence. <i>Journal of Climate</i> , 2014 , 27, 4371-4390	4.4	102
101	Atlantic overturning in decline?. <i>Nature Geoscience</i> , 2014 , 7, 2-3	18.3	100
100	Will Arctic sea ice thickness initialization improve seasonal forecast skill?. <i>Geophysical Research Letters</i> , 2014 , 41, 7566-7575	4.9	100
99	Reconciled climate response estimates from climate models and the energy budget of Earth. <i>Nature Climate Change</i> , 2016 , 6, 931-935	21.4	95
98	Irreducible uncertainty in near-term climate projections. <i>Climate Dynamics</i> , 2016 , 46, 3807-3819	4.2	93

97	The Statistical DownScaling Model - Decision Centric (SDSM-DC): conceptual basis and applications. <i>Climate Research</i> , 2014 , 61, 259-276	1.6	91
96	Partitioning climate projection uncertainty with multiple large ensembles and CMIP5/6. <i>Earth System Dynamics</i> , 2020 , 11, 491-508	4.8	88
95	Real-time multi-model decadal climate predictions. <i>Climate Dynamics</i> , 2013 , 41, 2875-2888	4.2	85
94	The timing of anthropogenic emergence in simulated climate extremes. <i>Environmental Research Letters</i> , 2015 , 10, 094015	6.2	81
93	The 2dF Galaxy Redshift Survey: the blue galaxy fraction and implications for the Butcher-Oemler effect. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004 , 351, 125-132	4.3	78
92	Poorest countries experience earlier anthropogenic emergence of daily temperature extremes. <i>Environmental Research Letters</i> , 2016 , 11, 055007	6.2	77
91	Bistability of the Atlantic overturning circulation in a global climate model and links to ocean freshwater transport. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	74
90	Robust Future Changes in Temperature Variability under Greenhouse Gas Forcing and the Relationship with Thermal Advection. <i>Journal of Climate</i> , 2016 , 29, 2221-2236	4.4	70
89	Importance of the Pre-Industrial Baseline in Determining the Likelihood of Exceeding the Paris Limits. <i>Nature Climate Change</i> , 2017 , 7, 563-567	21.4	67
88	Towards operational predictions of the near-term climate. <i>Nature Climate Change</i> , 2019 , 9, 94-101	21.4	63
87	Predictability of the Arctic sea ice edge. <i>Geophysical Research Letters</i> , 2016 , 43, 1642-1650	4.9	62
86	Decadal Predictability of the Atlantic Ocean in a Coupled GCM: Forecast Skill and Optimal Perturbations Using Linear Inverse Modeling. <i>Journal of Climate</i> , 2009 , 22, 3960-3978	4.4	59
85	Climate research must sharpen its view. <i>Nature Climate Change</i> , 2017 , 7, 89-91	21.4	58
84	Reliability of regional climate model trends. <i>Environmental Research Letters</i> , 2013 , 8, 014055	6.2	58
83	Decadal Climate Variability and Predictability: Challenges and Opportunities. <i>Bulletin of the American Meteorological Society</i> , 2018 , 99, 479-490	6.1	55
82	Uncertainties in the timing of unprecedented climates. <i>Nature</i> , 2014 , 511, E3-5	50.4	54
81	Identifying uncertainties in Arctic climate change projections. <i>Climate Dynamics</i> , 2013 , 40, 2849-2865	4.2	52
80	The 2dF Galaxy Redshift Survey: Constraints on Cosmic Star Formation History from the Cosmic Spectrum. <i>Astrophysical Journal</i> , 2002 , 569, 582-594	4.7	49

79	The 2dF galaxy redshift survey: clustering properties of radio galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004 , 350, 1485-1494	4.3	48
78	Connecting Climate Model Projections of Global Temperature Change with the Real World. <i>Bulletin of the American Meteorological Society</i> , 2016 , 97, 963-980	6.1	48
77	Causes of climate change over the historical record. <i>Environmental Research Letters</i> , 2019 , 14, 123006	6.2	47
76	Evaluating the potential for statistical decadal predictions of sea surface temperatures with a perfect model approach. <i>Climate Dynamics</i> , 2011 , 37, 2495-2509	4.2	46
75	Variability of the Atlantic thermohaline circulation described by three-dimensional empirical orthogonal functions. <i>Climate Dynamics</i> , 2007 , 29, 745-762	4.2	46
74	The upper end of climate model temperature projections is inconsistent with past warming. <i>Environmental Research Letters</i> , 2013 , 8, 014024	6.2	39
73	What does global mean temperature tell us about local climate?. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015 , 373,	3	38
72	Robust dynamics of Amazon dieback to climate change with perturbed ecosystem model parameters. <i>Global Change Biology</i> , 2010 , 16, 2476	11.4	37
71	The Maunder minimum and the Little Ice Age: an update from recent reconstructions and climate simulations. <i>Journal of Space Weather and Space Climate</i> , 2017 , 7, A33	2.5	35
70	Aerosol contribution to the rapid warming of near-term climate under RCP 2.6. <i>Geophysical Research Letters</i> , 2012 , 39,	4.9	35
69	Towards seasonal Arctic shipping route predictions. <i>Environmental Research Letters</i> , 2017 , 12, 084005	6.2	34
68	A mechanism for Atlantic multidecadal variability in the Kiel Climate Model. <i>Climate Dynamics</i> , 2013 , 41, 2133-2144	4.2	32
67	Examining reliability of seasonal to decadal sea surface temperature forecasts: The role of ensemble dispersion. <i>Geophysical Research Letters</i> , 2013 , 40, 5770-5775	4.9	32
66	Population-based emergence of unfamiliar climates. <i>Nature Climate Change</i> , 2017 , 7, 407-411	21.4	31
65	Influences of increasing temperature on Indian wheat: quantifying limits to predictability. <i>Environmental Research Letters</i> , 2013 , 8, 034016	6.2	31
64	Scenario and modelling uncertainty in global mean temperature change derived from emission-driven global climate models. <i>Earth System Dynamics</i> , 2013 , 4, 95-108	4.8	31
63	Potential predictability of rapid changes in the Atlantic meridional overturning circulation. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	31
62	Observed Emergence of the Climate Change Signal: From the Familiar to the Unknown. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL086259	4.9	30

61	Causes of differences in model and satellite tropospheric warming rates. <i>Nature Geoscience</i> , 2017 , 10, 478-485	18.3	29
60	An Evaluation of the Performance of the Twentieth Century Reanalysis Version 3. <i>Journal of Climate</i> , 2021 , 34, 1417-1438	4.4	27
59	Our evolving climate: communicating the effects of climate variability. <i>Weather</i> , 2011 , 66, 175-179	0.9	26
58	Potential volcanic impacts on future climate variability. <i>Nature Climate Change</i> , 2017 , 7, 799-805	21.4	25
57	On increasing global temperatures: 75 years after Callendar. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2013 , 139, 1961-1963	6.4	25
56	The Arctic Predictability and Prediction on Seasonal-to-Interannual Timescales (APPOSITE) data set version 1. <i>Geoscientific Model Development</i> , 2016 , 9, 2255-2270	6.3	24
55	Interpretations of the Paris climate target. <i>Nature Geoscience</i> , 2018 , 11, 220-221	18.3	23
54	Statistical decadal predictions for sea surface temperatures: a benchmark for dynamical GCM predictions. <i>Climate Dynamics</i> , 2013 , 41, 917-935	4.2	23
53	Improved Arctic sea ice thickness projections using bias-corrected CMIP5 simulations. <i>Cryosphere</i> , 2015 , 9, 2237-2251	5.5	23
52	No periodicities in 2dF Redshift Survey data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2002 , 336, L13-L16	4.3	22
51	Large differences in regional precipitation change between a first and second 2 K of global warming. <i>Nature Communications</i> , 2016 , 7, 13667	17.4	22
50	Aspects of designing and evaluating seasonal-to-interannual Arctic sea-ice prediction systems. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016 , 142, 672-683	6.4	22
49	The Interpretation and Use of Biases in Decadal Climate Predictions. <i>Journal of Climate</i> , 2014 , 27, 2931-2947	14.1	21
48	The potential to narrow uncertainty in projections of stratospheric ozone over the 21st century. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 9473-9486	6.8	20
47	Processes governing the predictability of the Atlantic meridional overturning circulation in a coupled GCM. <i>Climate Dynamics</i> , 2011 , 37, 1771-1782	4.2	18
46	The 2dF Galaxy Redshift Survey: the nature of the relative bias between galaxies of different spectral type. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005 , 356, 456-474	4.3	18
45	Accelerated increases in global and Asian summer monsoon precipitation from future aerosol reductions. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 11955-11977	6.8	18
44	An empirical model for probabilistic decadal prediction: global attribution and regional hindcasts. <i>Climate Dynamics</i> , 2017 , 48, 3115-3138	4.2	17

43	Wetter then drier in some tropical areas. <i>Nature Climate Change</i> , 2014 , 4, 646-647	21.4	16
42	The clustering of hot and cold IRAS galaxies: the redshift-space correlation function. <i>Monthly Notices of the Royal Astronomical Society</i> , 2001 , 325, 589-598	4.3	16
41	Hourly weather observations from the Scottish Highlands (1883-1904) rescued by volunteer citizen scientists. <i>Geoscience Data Journal</i> , 2019 , 6, 160-173	2.5	16
40	Predicted Chance That Global Warming Will Temporarily Exceed 1.5°C. <i>Geophysical Research Letters</i> , 2018 , 45, 11,895	4.9	16
39	Sensitivity of Historical Climate Simulations to Uncertain Aerosol Forcing. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL085806	4.9	15
38	A global empirical system for probabilistic seasonal climate prediction. <i>Geoscientific Model Development</i> , 2015 , 8, 3947-3973	6.3	14
37	Decadal predictions with the HiGEM high resolution global coupled climate model: description and basic evaluation. <i>Climate Dynamics</i> , 2017 , 48, 297-311	4.2	12
36	Atmospheric and Oceanic Contributions to Irreducible Forecast Uncertainty of Arctic Surface Climate. <i>Journal of Climate</i> , 2016 , 29, 331-346	4.4	12
35	Sensitivity of terrestrial precipitation trends to the structural evolution of sea surface temperatures. <i>Geophysical Research Letters</i> , 2015 , 42, 1190-1196	4.9	12
34	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
33	Observable, low-order dynamical controls on thresholds of the Atlantic meridional overturning circulation. <i>Climate Dynamics</i> , 2019 , 53, 6815-6834	4.2	9
32	Frost fairs, sunspots and the Little Ice Age SOLAR ASTRONOMY: LITTLE ICE AGE. <i>Astronomy and Geophysics</i> , 2017 , 58, 2.17-2.23	0.2	9
31	Seasonal cycles enhance disparities between low- and high-income countries in exposure to monthly temperature emergence with future warming. <i>Environmental Research Letters</i> , 2017 , 12, 114039	6.2	9
30	Estimating Climatically Relevant Singular Vectors for Decadal Predictions of the Atlantic Ocean. <i>Journal of Climate</i> , 2011 , 24, 109-123	4.4	9
29	Partitioning climate projection uncertainty with multiple Large Ensembles and CMIP5/6 2020 ,		7
28	Reemergence of Antarctic sea ice predictability and its link to deep ocean mixing in global climate models. <i>Climate Dynamics</i> , 2019 , 52, 2775-2797	4.2	7
27	Comment on "Multiyear prediction of monthly mean Atlantic Meridional Overturning Circulation at 26.5°N". <i>Science</i> , 2012 , 338, 604; author reply 604	33.3	6
26	Decadal climate prediction with a refined anomaly initialisation approach. <i>Climate Dynamics</i> , 2017 , 48, 1841-1853	4.2	5

25	Near-zero humidities on Ben Nevis, Scotland, revealed by pioneering 19th-century observers and modern volunteers. <i>International Journal of Climatology</i> , 2019 , 39, 4451-4466	3.5	5
24	A global empirical system for probabilistic seasonal climate prediction 2015 ,		5
23	Graphics: scrap rainbow colour scales. <i>Nature</i> , 2015 , 519, 291	50.4	5
22	An event-based approach to understanding decadal fluctuations in the Atlantic meridional overturning circulation. <i>Climate Dynamics</i> , 2015 , 44, 163-190	4.2	5
21	Scenario and modelling uncertainty in global mean temperature change derived from emission driven Global Climate Models 2012 ,		5
20	Thunderstorm occurrence at ten sites across Great Britain over 1884–1993. <i>Geoscience Data Journal</i> , 2019 , 6, 222-233	2.5	4
19	Uncertainty in aerosol radiative forcing impacts the simulated global monsoon in the 20th century. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 14903-14915	6.8	4
18	Science Directions in a Post COP21 World of Transient Climate Change: Enabling Regional to Local Predictions in Support of Reliable Climate Information. <i>Earth's Future</i> , 2018 , 6, 1498-1507	7.9	4
17	Human-driven habitat conversion is a more immediate threat to Amboseli elephants than climate change. <i>Conservation Science and Practice</i> , 2019 , 1, e87	2.2	3
16	The Climate Spiral Demonstrates the Power of Sharing Creative Ideas. <i>Bulletin of the American Meteorological Society</i> , 2019 , 100, 753-756	6.1	3
15	Digitizing observations from the Met Office Daily Weather Reports for 1900–1910 using citizen scientist volunteers. <i>Geoscience Data Journal</i> , 2020 , 7, 116-134	2.5	3
14	Emerging new climate extremes over Europe. <i>Climate Dynamics</i> , 1	4.2	3
13	Timing of Anthropogenic Emergence in Climate Extremes. <i>Geophysical Monograph Series</i> , 2017 , 93-103	1.1	2
12	Reply to Comments on A Simple, Coherent Framework for Partitioning Uncertainty in Climate Predictions. <i>Journal of Climate</i> , 2013 , 26, 4377-4377	4.4	2
11	Improved Arctic sea ice thickness projections using bias corrected CMIP5 simulations		2
10	The potential of numerical prediction systems to support the design of Arctic observing systems: Insights from the APPLICATE and YOPP projects. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2021 , 147, 3863	6.4	2
9	ESD Ideas: Global climate response scenarios for IPCC assessments. <i>Earth System Dynamics</i> , 2020 , 11, 751-754	4.8	2
8	Climate sensitivity: how much warming results from increases in atmospheric carbon dioxide (CO ₂)?. <i>Weather</i> , 2019 , 74, 134-134	0.9	1

7	Correction to B istability of the Atlantic overturning circulation in a global climate model and links to ocean freshwater transport <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	1
6	Studying climate stabilization at Paris Agreement levels. <i>Nature Climate Change</i> , 2021 , 11, 1010-1013	21.4	1
5	Drivers of Recent North Pacific Decadal Variability: The Role of Aerosol Forcing. <i>Earth's Future</i> , 2021 , 9, e2021EF002249	7.9	1
4	The Arctic Predictability and Prediction on Seasonal-to-Interannual Timescales (APPOSITE) data set		1
3	How is sea ice in the Arctic and Antarctic changing?. <i>Weather</i> , 2019 , 74, 30-30	0.9	
2	Our evolving climate. <i>Significance</i> , 2012 , 9, 13-15	0.5	
1	Meteorological data rescue: Citizen science lessons learned from Southern Weather Discovery. <i>Patterns</i> , 2022 , 100495	5.1	