Ed Hawkins

List of Publications by Year in Descending Order

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	Meteorological data rescue: Citizen science lessons learned from Southern Weather Discovery. *Patterns*, **2022**, 100495	5.1	
131	Studying climate stabilization at Paris Agreement levels. *Nature Climate Change*, **2021**, 11, 1010-1013	21.4	1
130	Drivers of Recent North Pacific Decadal Variability: The Role of Aerosol Forcing. *Earth's Future*, **2021**, 9, e2021EF002249	7.9	1
129	The potential of numerical prediction systems to support the design of Arctic observing systems: Insights from the APPLICATE and YOPP projects. *Quarterly Journal of the Royal Meteorological Society*, **2021**, 147, 3863	6.4	2
128	An Evaluation of the Performance of the Twentieth Century Reanalysis Version 3. *Journal of Climate*, **2021**, 34, 1417-1438	4.4	27
127	Digitizing observations from the Met Office Daily Weather Reports for 1900–1910 using citizen scientist volunteers. *Geoscience Data Journal*, **2020**, 7, 116-134	2.5	3
126	Observed Emergence of the Climate Change Signal: From the Familiar to the Unknown. *Geophysical Research Letters*, **2020**, 47, e2019GL086259	4.9	30
125	Partitioning climate projection uncertainty with multiple Large Ensembles and CMIP5/6 **2020**,		7
124	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
123	Accelerated increases in global and Asian summer monsoon precipitation from future aerosol reductions. *Atmospheric Chemistry and Physics*, **2020**, 20, 11955-11977	6.8	18
122	Partitioning climate projection uncertainty with multiple large ensembles and CMIP5/6. *Earth System Dynamics*, **2020**, 11, 491-508	4.8	88
121	ESD Ideas: Global climate response scenarios for IPCC assessments. *Earth System Dynamics*, **2020**, 11, 751-754	4.8	2
120	Uncertainty in aerosol radiative forcing impacts the simulated global monsoon in the 20th century. *Atmospheric Chemistry and Physics*, **2020**, 20, 14903-14915	6.8	4
119	Sensitivity of Historical Climate Simulations to Uncertain Aerosol Forcing. *Geophysical Research Letters*, **2020**, 47, e2019GL085806	4.9	15
118	Human-driven habitat conversion is a more immediate threat to Amboseli elephants than climate change. *Conservation Science and Practice*, **2019**, 1, e87	2.2	3
117	Observable, low-order dynamical controls on thresholds of the Atlantic meridional overturning circulation. *Climate Dynamics*, **2019**, 53, 6815-6834	4.2	9
116	Towards operational predictions of the near-term climate. *Nature Climate Change*, **2019**, 9, 94-101	21.4	63

115	How is sea ice in the Arctic and Antarctic changing?. *Weather*, **2019**, 74, 30-30	0.9	
114	The Climate Spiral Demonstrates the Power of Sharing Creative Ideas. *Bulletin of the American Meteorological Society*, **2019**, 100, 753-756	6.1	3
113	Near-zero humidities on Ben Nevis, Scotland, revealed by pioneering 19th-century observers and modern volunteers. *International Journal of Climatology*, **2019**, 39, 4451-4466	3.5	5
112	Climate sensitivity: how much warming results from increases in atmospheric carbon dioxide (CO2)?. *Weather*, **2019**, 74, 134-134	0.9	1
111	Reemergence of Antarctic sea ice predictability and its link to deep ocean mixing in global climate models. *Climate Dynamics*, **2019**, 52, 2775-2797	4.2	7
110	Thunderstorm occurrence at ten sites across Great Britain over 1884–1993. *Geoscience Data Journal*, **2019**, 6, 222-233	2.5	4
109	Towards a more reliable historical reanalysis: Improvements for version 3 of the Twentieth Century Reanalysis system. *Quarterly Journal of the Royal Meteorological Society*, **2019**, 145, 2876-2908	6.4	204
108	Causes of climate change over the historical record. *Environmental Research Letters*, **2019**, 14, 123006	6.2	47
107	Hourly weather observations from the Scottish Highlands (1883-1904) rescued by volunteer citizen scientists. *Geoscience Data Journal*, **2019**, 6, 160-173	2.5	16
106	Interpretations of the Paris climate target. *Nature Geoscience*, **2018**, 11, 220-221	18.3	23
105	Decadal Climate Variability and Predictability: Challenges and Opportunities. *Bulletin of the American Meteorological Society*, **2018**, 99, 479-490	6.1	55
104	Broad threat to humanity from cumulative climate hazards intensified by greenhouse gas emissions. *Nature Climate Change*, **2018**, 8, 1062-1071	21.4	175
103	Science Directions in a Post COP21 World of Transient Climate Change: Enabling Regional to Local Predictions in Support of Reliable Climate Information. *Earth's Future*, **2018**, 6, 1498-1507	7.9	4
102	Predicted Chance That Global Warming Will Temporarily Exceed 1.5 °C. *Geophysical Research Letters*, **2018**, 45, 11,895	4.9	16
101	Decadal climate prediction with a refined anomaly initialisation approach. *Climate Dynamics*, **2017**, 48, 1841-1853	4.2	5
100	Decadal predictions with the HiGEM high resolution global coupled climate model: description and basic evaluation. *Climate Dynamics*, **2017**, 48, 297-311	4.2	12
99	Climate research must sharpen its view. *Nature Climate Change*, **2017**, 7, 89-91	21.4	58
98	Estimating Changes in Global Temperature since the Preindustrial Period. *Bulletin of the American Meteorological Society*, **2017**, 98, 1841-1856	6.1	182

97	An empirical model for probabilistic decadal prediction: global attribution and regional hindcasts. *Climate Dynamics*, **2017**, 48, 3115-3138	4.2	17
96	Timing of Anthropogenic Emergence in Climate Extremes. *Geophysical Monograph Series*, **2017**, 93-103	1.1	2
95	Global risk of deadly heat. *Nature Climate Change*, **2017**, 7, 501-506	21.4	533
94	Causes of differences in model and satellite tropospheric warming rates. *Nature Geoscience*, **2017**, 10, 478-485	18.3	29
93	Population-based emergence of unfamiliar climates. *Nature Climate Change*, **2017**, 7, 407-411	21.4	31
92	Potential volcanic impacts on future climate variability. *Nature Climate Change*, **2017**, 7, 799-805	21.4	25
91	Towards seasonal Arctic shipping route predictions. *Environmental Research Letters*, **2017**, 12, 084005	6.2	34
90	Importance of the Pre-Industrial Baseline in Determining the Likelihood of Exceeding the Paris Limits. *Nature Climate Change*, **2017**, 7, 563-567	21.4	67
89	Frost fairs, sunspots and the Little Ice AgeSOLAR ASTRONOMY: LITTLE ICE AGE. *Astronomy and Geophysics*, **2017**, 58, 2.17-2.23	0.2	9
88	Seasonal cycles enhance disparities between low- and high-income countries in exposure to monthly temperature emergence with future warming. *Environmental Research Letters*, **2017**, 12, 114039	6.2	9
87	The Maunder minimum and the Little Ice Age: an update from recent reconstructions and climate simulations. *Journal of Space Weather and Space Climate*, **2017**, 7, A33	2.5	35
86	Sea ice decline and 21st century trans-Arctic shipping routes. *Geophysical Research Letters*, **2016**, 43, 9720-9728	4.9	162
85	Predictability of the Arctic sea ice edge. *Geophysical Research Letters*, **2016**, 43, 1642-1650	4.9	62
84	Reconciled climate response estimates from climate models and the energy budget of Earth. *Nature Climate Change*, **2016**, 6, 931-935	21.4	95
83	Poorest countries experience earlier anthropogenic emergence of daily temperature extremes. *Environmental Research Letters*, **2016**, 11, 055007	6.2	77
82	Robust Future Changes in Temperature Variability under Greenhouse Gas Forcing and the Relationship with Thermal Advection. *Journal of Climate*, **2016**, 29, 2221-2236	4.4	70
81	Atmospheric and Oceanic Contributions to Irreducible Forecast Uncertainty of Arctic Surface Climate. *Journal of Climate*, **2016**, 29, 331-346	4.4	12
80	The Arctic Predictability and Prediction on Seasonal-to-Interannual TimEscales (APPOSITE) data set version 1. *Geoscientific Model Development*, **2016**, 9, 2255-2270	6.3	24

79	A review on Arctic sea-ice predictability and prediction on seasonal to decadal time-scales. *Quarterly Journal of the Royal Meteorological Society*, **2016**, 142, 546-561	6.4	128
78	Large differences in regional precipitation change between a first and second 2 K of global warming. *Nature Communications*, **2016**, 7, 13667	17.4	22
77	Irreducible uncertainty in near-term climate projections. *Climate Dynamics*, **2016**, 46, 3807-3819	4.2	93
76	Connecting Climate Model Projections of Global Temperature Change with the Real World. *Bulletin of the American Meteorological Society*, **2016**, 97, 963-980	6.1	48
75	Aspects of designing and evaluating seasonal-to-interannual Arctic sea-ice prediction systems. *Quarterly Journal of the Royal Meteorological Society*, **2016**, 142, 672-683	6.4	22
74	CO, the greenhouse effect and global warming: from the pioneering work of Arrhenius and Callendar to today's Earth System Models. *Endeavour*, **2016**, 40, 178-187	0.5	362
73	A global empirical system for probabilistic seasonal climate prediction **2015**,		5
72	Graphics: scrap rainbow colour scales. *Nature*, **2015**, 519, 291	50.4	5
71	Robust comparison of climate models with observations using blended land air and ocean sea surface temperatures. *Geophysical Research Letters*, **2015**, 42, 6526-6534	4.9	119
70	Towards predictive understanding of regional climate change. *Nature Climate Change*, **2015**, 5, 921-930	21.4	196
69	The Maunder minimum (16451715) was indeed a grand minimum: A reassessment of multiple datasets. *Astronomy and Astrophysics*, **2015**, 581, A95	5.1	127
68	What does global mean temperature tell us about local climate?. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2015**, 373,	3	38
67	Sensitivity of terrestrial precipitation trends to the structural evolution of sea surface temperatures. *Geophysical Research Letters*, **2015**, 42, 1190-1196	4.9	12
66	The timing of anthropogenic emergence in simulated climate extremes. *Environmental Research Letters*, **2015**, 10, 094015	6.2	81
65	Improved Arctic sea ice thickness projections using bias-corrected CMIP5 simulations. *Cryosphere*, **2015**, 9, 2237-2251	5.5	23
64	A global empirical system for probabilistic seasonal climate prediction. *Geoscientific Model Development*, **2015**, 8, 3947-3973	6.3	14
63	An event-based approach to understanding decadal fluctuations in the Atlantic meridional overturning circulation. *Climate Dynamics*, **2015**, 44, 163-190	4.2	5
62	Atlantic overturning in decline?. *Nature Geoscience*, **2014**, 7, 2-3	18.3	100

61	Wetter then drier in some tropical areas. *Nature Climate Change*, **2014**, 4, 646-647	21.4	16
60	Uncertainties in the timing of unprecedented climates. *Nature*, **2014**, 511, E3-5	50.4	54
59	Pan-Arctic and Regional Sea Ice Predictability: Initialization Month Dependence. *Journal of Climate*, **2014**, 27, 4371-4390	4.4	102
58	Will Arctic sea ice thickness initialization improve seasonal forecast skill?. *Geophysical Research Letters*, **2014**, 41, 7566-7575	4.9	100
57	The Statistical DownScaling Model - Decision Centric (SDSM-DC): conceptual basis and applications. *Climate Research*, **2014**, 61, 259-276	1.6	91
56	Seasonal to interannual Arctic sea ice predictability in current global climate models. *Geophysical Research Letters*, **2014**, 41, 1035-1043	4.9	104
55	The Interpretation and Use of Biases in Decadal Climate Predictions. *Journal of Climate*, **2014**, 27, 2931-2947	4.4	21
54	Models agree on forced response pattern of precipitation and temperature extremes. *Geophysical Research Letters*, **2014**, 41, 8554-8562	4.9	111
53	Decadal Climate Prediction: An Update from the Trenches. *Bulletin of the American Meteorological Society*, **2014**, 95, 243-267	6.1	364
52	A mechanism for Atlantic multidecadal variability in the Kiel Climate Model. *Climate Dynamics*, **2013**, 41, 2133-2144	4.2	32
51	Real-time multi-model decadal climate predictions. *Climate Dynamics*, **2013**, 41, 2875-2888	4.2	85
50	Statistical decadal predictions for sea surface temperatures: a benchmark for dynamical GCM predictions. *Climate Dynamics*, **2013**, 41, 917-935	4.2	23
49	Identifying uncertainties in Arctic climate change projections. *Climate Dynamics*, **2013**, 40, 2849-2865	4.2	52
48	Reply to Comments on A Simple, Coherent Framework for Partitioning Uncertainty in Climate Predictions. *Journal of Climate*, **2013**, 26, 4377-4377	4.4	2
47	On increasing global temperatures: 75 years after Callendar. *Quarterly Journal of the Royal Meteorological Society*, **2013**, 139, 1961-1963	6.4	25
46	Influences of increasing temperature on Indian wheat: quantifying limits to predictability. *Environmental Research Letters*, **2013**, 8, 034016	6.2	31
45	A verification framework for interannual-to-decadal predictions experiments. *Climate Dynamics*, **2013**, 40, 245-272	4.2	207
44	Calibration and bias correction of climate projections for crop modelling: An idealised case study over Europe. *Agricultural and Forest Meteorology*, **2013**, 170, 19-31	5.8	155

43	Reliability of regional climate model trends. *Environmental Research Letters*, **2013**, 8, 014055	6.2	58
42	The upper end of climate model temperature projections is inconsistent with past warming. *Environmental Research Letters*, **2013**, 8, 014024	6.2	39
41	Scenario and modelling uncertainty in global mean temperature change derived from emission-driven global climate models. *Earth System Dynamics*, **2013**, 4, 95-108	4.8	31
40	Increasing influence of heat stress on French maize yields from the 1960s to the 2030s. *Global Change Biology*, **2013**, 19, 937-47	11.4	155
39	Addressing uncertainty in adaptation planning for agriculture. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 8357-62	11.5	176
38	Examining reliability of seasonal to decadal sea surface temperature forecasts: The role of ensemble dispersion. *Geophysical Research Letters*, **2013**, 40, 5770-5775	4.9	32
37	Time of emergence of climate signals. *Geophysical Research Letters*, **2012**, 39, n/a-n/a	4.9	280
36	Aerosol contribution to the rapid warming of near-term climate under RCP 2.6. *Geophysical Research Letters*, **2012**, 39,	4.9	35
35	Our evolving climate. *Significance*, **2012**, 9, 13-15	0.5	
34	Scenario and modelling uncertainty in global mean temperature change derived from emission driven Global Climate Models **2012**,		5
33	Comment on "Multiyear prediction of monthly mean Atlantic Meridional Overturning Circulation at 26.5°N". *Science*, **2012**, 338, 604; author reply 604	33.3	6
32	Bistability of the Atlantic overturning circulation in a global climate model and links to ocean freshwater transport. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	74
31	Correction to **B**istability of the Atlantic overturning circulation in a global climate model and links to ocean freshwater transport *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	1
30	A Simple, Coherent Framework for Partitioning Uncertainty in Climate Predictions. *Journal of Climate*, **2011**, 24, 4634-4643	4.4	158
29	Projections of when temperature change will exceed 2 °C above pre-industrial levels. *Nature Climate Change*, **2011**, 1, 407-412	21.4	129
28	The potential to narrow uncertainty in projections of regional precipitation change. *Climate Dynamics*, **2011**, 37, 407-418	4.2	644
27	Evaluating the potential for statistical decadal predictions of sea surface temperatures with a perfect model approach. *Climate Dynamics*, **2011**, 37, 2495-2509	4.2	46
26	Processes governing the predictability of the Atlantic meridional overturning circulation in a coupled GCM. *Climate Dynamics*, **2011**, 37, 1771-1782	4.2	18

25	Our evolving climate: communicating the effects of climate variability. *Weather*, **2011**, 66, 175-179	0.9	26
24	Estimating Climatically Relevant Singular Vectors for Decadal Predictions of the Atlantic Ocean. *Journal of Climate*, **2011**, 24, 109-123	4.4	9
23	Robust dynamics of Amazon dieback to climate change with perturbed ecosystem model parameters. *Global Change Biology*, **2010**, 16, 2476	11.4	37
22	The potential to narrow uncertainty in projections of stratospheric ozone over the 21st century. *Atmospheric Chemistry and Physics*, **2010**, 10, 9473-9486	6.8	20
21	Decadal Prediction. *Bulletin of the American Meteorological Society*, **2009**, 90, 1467-1486	6.1	552
20	The Potential to Narrow Uncertainty in Regional Climate Predictions. *Bulletin of the American Meteorological Society*, **2009**, 90, 1095-1108	6.1	1509
19	Decadal Predictability of the Atlantic Ocean in a Coupled GCM: Forecast Skill and Optimal Perturbations Using Linear Inverse Modeling. *Journal of Climate*, **2009**, 22, 3960-3978	4.4	59
18	Potential predictability of rapid changes in the Atlantic meridional overturning circulation. *Geophysical Research Letters*, **2008**, 35,	4.9	31
17	Variability of the Atlantic thermohaline circulation described by three-dimensional empirical orthogonal functions. *Climate Dynamics*, **2007**, 29, 745-762	4.2	46
16	The 2dF Galaxy Redshift Survey: the nature of the relative bias between galaxies of different spectral type. *Monthly Notices of the Royal Astronomical Society*, **2005**, 356, 456-474	4.3	18
15	The 2dF galaxy redshift survey: clustering properties of radio galaxies. *Monthly Notices of the Royal Astronomical Society*, **2004**, 350, 1485-1494	4.3	48
14	The 2dF Galaxy Redshift Survey: the blue galaxy fraction and implications for the Butcher-Oemler effect. *Monthly Notices of the Royal Astronomical Society*, **2004**, 351, 125-132	4.3	78
13	The 2dF Galaxy Redshift Survey: correlation functions, peculiar velocities and the matter density of the Universe. *Monthly Notices of the Royal Astronomical Society*, **2003**, 346, 78-96	4.3	624
12	The 2dF Galaxy Redshift Survey: the luminosity function of cluster galaxies. *Monthly Notices of the Royal Astronomical Society*, **2003**, 342, 725-737	4.3	146
11	The 2dF Galaxy Redshift Survey: galaxy clustering per spectral type. *Monthly Notices of the Royal Astronomical Society*, **2003**, 344, 847-856	4.3	161
10	The 2dF Galaxy Redshift Survey: the dependence of galaxy clustering on luminosity and spectral type. *Monthly Notices of the Royal Astronomical Society*, **2002**, 332, 827-838	4.3	402
9	The 2dF Galaxy Redshift Survey: the environmental dependence of galaxy star formation rates near clusters. *Monthly Notices of the Royal Astronomical Society*, **2002**, 334, 673-683	4.3	576
8	No periodicities in 2dF Redshift Survey data. *Monthly Notices of the Royal Astronomical Society*, **2002**, 336, L13-L16	4.3	22

7	The 2dF Galaxy Redshift Survey: Constraints on Cosmic Star Formation History from the Cosmic Spectrum. *Astrophysical Journal*, **2002**, 569, 582-594	4.7	49
6	The clustering of hot and cold IRAS galaxies: the redshift-space correlation function. *Monthly Notices of the Royal Astronomical Society*, **2001**, 325, 589-598	4.3	16
5	The 2dF Galaxy Redshift Survey: luminosity dependence of galaxy clustering. *Monthly Notices of the Royal Astronomical Society*, **2001**, 328, 64-70	4.3	349
4	Near-term Climate Change: Projections and Predictability953-1028		111
3	The Arctic Predictability and Prediction on Seasonal-to-Interannual TimEscales (APPOSITE) data set		1
2	Improved Arctic sea ice thickness projections using bias corrected CMIP5 simulations		2
1	Emerging new climate extremes over Europe. *Climate Dynamics*,1	4.2	3