

Myles Allen

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

14,338
citations

54
h-index

119
g-index

145
ext. papers

16,836
ext. citations

13.3
avg. IF

6.72
L-index

#	Paper	IF	Citations
132	Constraints on future changes in climate and the hydrologic cycle. <i>Nature</i> , 2002 , 419, 224-32	50.4	1810
131	Greenhouse-gas emission targets for limiting global warming to 2 degrees C. <i>Nature</i> , 2009 , 458, 1158-62	50.4	1707
130	Human contribution to the European heatwave of 2003. <i>Nature</i> , 2004 , 432, 610-4	50.4	990
129	Warming caused by cumulative carbon emissions towards the trillionth tonne. <i>Nature</i> , 2009 , 458, 1163-65	50.4	955
128	Anthropogenic greenhouse gas contribution to flood risk in England and Wales in autumn 2000. <i>Nature</i> , 2011 , 470, 382-5	50.4	608
127	Testing the Clausius-Clapeyron constraint on changes in extreme precipitation under CO2 warming. <i>Climate Dynamics</i> , 2007 , 28, 351-363	4.2	377
126	Emission budgets and pathways consistent with limiting warming to 1.5 °C. <i>Nature Geoscience</i> , 2017 , 10, 741-747	18.3	320
125	Decadal predictability of North Atlantic sea surface temperature and climate. <i>Nature</i> , 1997 , 388, 563-567	50.4	315
124	Estimating signal amplitudes in optimal fingerprinting, part I: theory. <i>Climate Dynamics</i> , 2003 , 21, 477-491	4.2	309
123	Liability for climate change. <i>Nature</i> , 2003 , 421, 891-2	50.4	274
122	Reconciling two approaches to attribution of the 2010 Russian heat wave. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	246
121	Energy budget constraints on climate response. <i>Nature Geoscience</i> , 2013 , 6, 415-416	18.3	228
120	Human influence on climate in the 2014 southern England winter floods and their impacts. <i>Nature Climate Change</i> , 2016 , 6, 627-634	21.4	189
119	Constraining the Ratio of Global Warming to Cumulative CO2 Emissions Using CMIP5 Simulations*. <i>Journal of Climate</i> , 2013 , 26, 6844-6858	4.4	187
118	Differences between carbon budget estimates unravelled. <i>Nature Climate Change</i> , 2016 , 6, 245-252	21.4	183
117	Estimation of natural and anthropogenic contributions to twentieth century temperature change. <i>Journal of Geophysical Research</i> , 2002 , 107, ACL 10-1		181
116	A Review of Uncertainties in Global Temperature Projections over the Twenty-First Century. <i>Journal of Climate</i> , 2008 , 21, 2651-2663	4.4	180

115	Risk management and climate change. <i>Nature Climate Change</i> , 2013 , 3, 447-450	21.4	163
114	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
113	Towards objective probabilistic climate forecasting. <i>Nature</i> , 2002 , 419, 228	50.4	161
112	The contribution of global aviation to anthropogenic climate forcing for 2000 to 2018. <i>Atmospheric Environment</i> , 2021 , 244, 117834	5.3	160
111	Towards constraining climate sensitivity by linear analysis of feedback patterns in thousands of perturbed-physics GCM simulations. <i>Climate Dynamics</i> , 2008 , 30, 175-190	4.2	159
110	Regional climate response to solar-radiation management. <i>Nature Geoscience</i> , 2010 , 3, 537-541	18.3	144
109	A solution to the misrepresentations of CO ₂ -equivalent emissions of short-lived climate pollutants under ambitious mitigation. <i>Npj Climate and Atmospheric Science</i> , 2018 , 1,	8	136
108	weather@home development and validation of a very large ensemble modelling system for probabilistic event attribution. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015 , 141, 1528-1545	6.4	135
107	Potential influences on the United Kingdom's floods of winter 2013/14. <i>Nature Climate Change</i> , 2014 , 4, 769-777	21.4	122
106	Constraining climate forecasts: The role of prior assumptions. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	120
105	Constraints on climate change from a multi-thousand member ensemble of simulations. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	119
104	The End-to-End Attribution Problem: From Emissions to Impacts. <i>Climatic Change</i> , 2005 , 71, 303-318	4.5	113
103	Sensitivity of Twentieth-Century Sahel Rainfall to Sulfate Aerosol and CO ₂ Forcing. <i>Journal of Climate</i> , 2011 , 24, 4999-5014	4.4	106
102	New use of global warming potentials to compare cumulative and short-lived climate pollutants. <i>Nature Climate Change</i> , 2016 , 6, 773-776	21.4	104
101	A real-time Global Warming Index. <i>Scientific Reports</i> , 2017 , 7, 15417	4.9	101
100	Broad range of 2050 warming from an observationally constrained large climate model ensemble. <i>Nature Geoscience</i> , 2012 , 5, 256-260	18.3	98
99	Improved calculation of warming-equivalent emissions for short-lived climate pollutants. <i>Npj Climate and Atmospheric Science</i> , 2019 , 2, 29	8	82
98	Sensitivity analysis of the climate of a chaotic system. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2000 , 52, 523-532	2	81

97	Atmosphere. Call off the quest. <i>Science</i> , 2007 , 318, 582-3	33.3	78
96	Detection and attribution of changes in 20th century land precipitation. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a	4.9	78
95	The many possible climates from the Paris Agreement's aim of 1.5 °C warming. <i>Nature</i> , 2018 , 558, 41-49	50.4	77
94	A modified impulse-response representation of the global near-surface air temperature and atmospheric concentration response to carbon dioxide emissions. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 7213-7228	6.8	75
93	Equivalence of greenhouse-gas emissions for peak temperature limits. <i>Nature Climate Change</i> , 2012 , 2, 535-538	21.4	75
92	FAIR v1.3: a simple emissions-based impulse response and carbon cycle model. <i>Geoscientific Model Development</i> , 2018 , 11, 2273-2297	6.3	75
91	Detecting anthropogenic influence with a multi-model ensemble. <i>Geophysical Research Letters</i> , 2002 , 29, 31-1-31-4	4.9	73
90	The role of short-lived climate pollutants in meeting temperature goals. <i>Nature Climate Change</i> , 2013 , 3, 1021-1024	21.4	72
89	How linear is the Arctic Oscillation response to greenhouse gases?. <i>Journal of Geophysical Research</i> , 2002 , 107, ACL 1-1		72
88	Demonstrating GWP*: a means of reporting warming-equivalent emissions that captures the contrasting impacts of short- and longlived climate pollutants. <i>Environmental Research Letters</i> , 2020 , 15, 044023	6.2	69
87	Impact of delay in reducing carbon dioxide emissions. <i>Nature Climate Change</i> , 2014 , 4, 23-26	21.4	69
86	Perspectives on the causes of exceptionally low 2015 snowpack in the western United States. <i>Geophysical Research Letters</i> , 2016 , 43, 10,980	4.9	65
85	Higher CO ₂ concentrations increase extreme event risk in a 1.5 °C world. <i>Nature Climate Change</i> , 2018 , 8, 604-608	21.4	63
84	Two Approaches to Quantifying Uncertainty in Global Temperature Changes. <i>Journal of Climate</i> , 2006 , 19, 4785-4796	4.4	57
83	weather@home 2: validation of an improved global/regional climate modelling system. <i>Geoscientific Model Development</i> , 2017 , 10, 1849-1872	6.3	56
82	A novel bias correction methodology for climate impact simulations. <i>Earth System Dynamics</i> , 2016 , 7, 71-88	4.8	56
81	The Detection and Attribution of Human Influence on Climate. <i>Annual Review of Environment and Resources</i> , 2009 , 34, 1-16	17.2	55
80	Mapping the climate change challenge. <i>Nature Climate Change</i> , 2016 , 6, 663-668	21.4	54

79	Constraints on Model Response to Greenhouse Gas Forcing and the Role of Subgrid-Scale Processes. <i>Journal of Climate</i> , 2008 , 21, 2384-2400	4.4	52
78	Direct observations of skin-bulk SST variability. <i>Geophysical Research Letters</i> , 2000 , 27, 1171-1174	4.9	50
77	Incorporating model uncertainty into attribution of observed temperature change. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	48
76	Focus on cumulative emissions, global carbon budgets and the implications for climate mitigation targets. <i>Environmental Research Letters</i> , 2018 , 13, 010201	6.2	47
75	Climate change. Uncertainty in the IPCC's Third Assessment Report. <i>Science</i> , 2001 , 293, 430-3	33.3	44
74	Are Changes in Global Precipitation Constrained by the Tropospheric Energy Budget?. <i>Journal of Climate</i> , 2009 , 22, 499-517	4.4	42
73	Policy instruments for limiting global temperature rise to 1.5°C Can humanity rise to the challenge?. <i>Climate Policy</i> , 2018 , 18, 275-286	5.3	41
72	Comparison of methods: Attributing the 2014 record European temperatures to human influences. <i>Geophysical Research Letters</i> , 2016 , 43, 8685-8693	4.9	41
71	Comment on "The global tree restoration potential". <i>Science</i> , 2019 , 366,	33.3	40
70	Quantifying anthropogenic influence on recent near-surface temperature change. <i>Surveys in Geophysics</i> , 2006 , 27, 491-544	7.6	40
69	Nature-based solutions can help cool the planet - if we act now. <i>Nature</i> , 2021 , 593, 191-194	50.4	38
68	Alternatives to stabilization scenarios. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	37
67	Constraining uncertainties in climate models using climate change detection techniques. <i>Geophysical Research Letters</i> , 2000 , 27, 569-572	4.9	37
66	Estimating Carbon Budgets for Ambitious Climate Targets. <i>Current Climate Change Reports</i> , 2017 , 3, 69-77		36
65	The blame game. <i>Nature</i> , 2004 , 432, 551-2	50.4	35
64	Uncertain impacts on economic growth when stabilizing global temperatures at 1.5°C or 2°C warming. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018 , 376,	3	34
63	Probable causes of late twentieth century tropospheric temperature trends. <i>Climate Dynamics</i> , 2003 , 21, 573-591	4.2	34
62	Model structure in observational constraints on transient climate response. <i>Climatic Change</i> , 2015 , 131, 199-211	4.5	33

61	Seasonal spatial patterns of projected anthropogenic warming in complex terrain: a modeling study of the western US. <i>Climate Dynamics</i> , 2017 , 48, 2191-2213	4.2	32
60	Perspective has a strong effect on the calculation of historical contributions to global warming. <i>Environmental Research Letters</i> , 2017 , 12, 024022	6.2	32
59	Diagnosis of climate models in terms of transient climate response and feedback response time. <i>Atmospheric Science Letters</i> , 2008 , 9, 7-12	2.4	31
58	The role of stratospheric resolution in simulating the Arctic Oscillation response to greenhouse gases. <i>Geophysical Research Letters</i> , 2002 , 29, 138-1-138-4	4.9	29
57	Drivers of peak warming in a consumption-maximizing world. <i>Nature Climate Change</i> , 2016 , 6, 684-686	21.4	29
56	Current level and rate of warming determine emissions budgets under ambitious mitigation. <i>Nature Geoscience</i> , 2018 , 11, 574-579	18.3	27
55	Uncertainty in continental-scale temperature predictions. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	26
54	The meaning of net zero and how to get it right. <i>Nature Climate Change</i> , 2022 , 12, 15-21	21.4	26
53	Assessing mid-latitude dynamics in extreme event attribution systems. <i>Climate Dynamics</i> , 2017 , 48, 3889-3901	4.2	25
52	Estimates of Uncertainty in Predictions of Global Mean Surface Temperature. <i>Journal of Climate</i> , 2007 , 20, 843-855	4.4	25
51	The Detection and Attribution of Climate Change Using an Ensemble of Opportunity. <i>Journal of Climate</i> , 2007 , 20, 504-516	4.4	25
50	Constraining climate model properties using optimal fingerprint detection methods. <i>Climate Dynamics</i> , 2001 , 18, 277-295	4.2	25
49	Testing the robustness of the anthropogenic climate change detection statements using different empirical models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 3192-3199	4.4	24
48	Predicting future uncertainty constraints on global warming projections. <i>Scientific Reports</i> , 2016 , 6, 18903	4.9	24
47	Sensitivity of Climate Change Detection and Attribution to the Characterization of Internal Climate Variability. <i>Journal of Climate</i> , 2014 , 27, 3477-3491	4.4	20
46	Operationalizing the net-negative carbon economy. <i>Nature</i> , 2021 , 596, 377-383	50.4	20
45	Stakeholder perceptions of event attribution in the loss and damage debate. <i>Climate Policy</i> , 2017 , 17, 533-550	5.3	19
44	Framing Climate Goals in Terms of Cumulative CO ₂ -Forcing-Equivalent Emissions. <i>Geophysical Research Letters</i> , 2018 , 45, 2795-2804	4.9	19

43	Obtaining diverse behaviors in a climate model without the use of flux adjustments. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 2781-2793	4.4	19
42	Can correcting feature location in simulated mean climate improve agreement on projected changes?. <i>Geophysical Research Letters</i> , 2013 , 40, 354-358	4.9	19
41	Difficult but not impossible. <i>Nature Climate Change</i> , 2011 , 1, 72-72	21.4	18
40	Climate forecasting: possible or probable?. <i>Nature</i> , 2003 , 425, 242	50.4	18
39	A Multimodel Update on the Detection and Attribution of Global Surface Warming. <i>Journal of Climate</i> , 2007 , 20, 517-530	4.4	17
38	Control of tropical instability waves in the Pacific. <i>Geophysical Research Letters</i> , 1995 , 22, 2581-2584	4.9	17
37	Attribution of global surface warming without dynamical models. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.9	16
36	Model error in weather and climate forecasting 391-427		16
35	Increased outburst flood hazard from Lake Palcacocha due to human-induced glacier retreat. <i>Nature Geoscience</i> , 2021 , 14, 85-90	18.3	16
34	Anthropogenic influence on the changing likelihood of an exceptionally warm summer in Texas, 2011. <i>Geophysical Research Letters</i> , 2015 , 42, 2392-2400	4.9	15
33	Further improvement of warming-equivalent emissions calculation. <i>Npj Climate and Atmospheric Science</i> , 2021 , 4,	8	15
32	Anthropogenic Influence on the 2018 Summer Warm Spell in Europe: The Impact of Different Spatio-Temporal Scales. <i>Bulletin of the American Meteorological Society</i> , 2020 , 101, S41-S46	6.1	13
31	Assessing the robustness of zonal mean climate change detection. <i>Geophysical Research Letters</i> , 2002 , 29, 26-1-26-4	4.9	13
30	In defense of the traditional null hypothesis: remarks on the Trenberth and Curry WIREs opinion articles. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2011 , 2, 931-934	8.4	11
29	Regional probabilistic climate forecasts from a multithousand, multimodel ensemble of simulations. <i>Journal of Geophysical Research</i> , 2007 , 112,		11
28	Return period of extreme rainfall substantially decreases under 1.5 °C and 2.0 °C warming: a case study for Uttarakhand, India. <i>Environmental Research Letters</i> , 2019 , 14, 044033	6.2	10
27	Test of a decadal climate forecast. <i>Nature Geoscience</i> , 2013 , 6, 243-244	18.3	10
26	Implications of event attribution for loss and damage policy. <i>Weather</i> , 2015 , 70, 268-273	0.9	10

25	The implications of carbon dioxide and methane exchange for the heavy mitigation RCP2.6 scenario under two metrics. <i>Environmental Science and Policy</i> , 2015 , 51, 77-87	6.2	9
24	FaIRv2.0.0: a generalized impulse response model for climate uncertainty and future scenario exploration. <i>Geoscientific Model Development</i> , 2021 , 14, 3007-3036	6.3	8
23	Allowing for solar forcing in the detection of human influence on tropospheric temperatures. <i>Geophysical Research Letters</i> , 2001 , 28, 1555-1558	4.9	7
22	Ensuring that offsets and other internationally transferred mitigation outcomes contribute effectively to limiting global warming. <i>Environmental Research Letters</i> , 2021 , 16, 074009	6.2	7
21	Temperature oscillations. <i>Nature</i> , 1992 , 359, 679-679	50.4	6
20	Upstream decarbonization through a carbon takeback obligation: An affordable backstop climate policy. <i>Joule</i> , 2021 ,	27.8	6
19	Progressive supply-side policy under the Paris Agreement to enhance geological carbon storage. <i>Climate Policy</i> , 2021 , 21, 63-77	5.3	6
18	Forced summer stationary waves: the opposing effects of direct radiative forcing and sea surface warming. <i>Climate Dynamics</i> , 2019 , 53, 4291-4309	4.2	5
17	Quantifying aviation's contribution to global warming. <i>Environmental Research Letters</i> , 2021 , 16, 104027	6.2	5
16	Can correcting feature location in simulated mean climate improve agreement on projected changes? 2013 , 40, 354		5
15	Evaluation of a large ensemble regional climate modelling system for extreme weather events analysis over Bangladesh. <i>International Journal of Climatology</i> , 2019 , 39, 2845-2861	3.5	5
14	Quantifying uncertainty in future Southern Hemisphere circulation trends. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	4
13	Correcting precipitation feature location in general circulation models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 13,350-13,369	4.4	3
12	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
11	Climate of the twentieth century: Detection of change and attribution of causes. <i>Weather</i> , 2002 , 57, 296-303	0.9	3
10	Potential for improved ATSR dual-view SST retrieval. <i>Geophysical Research Letters</i> , 1998 , 25, 3363-3366	4.9	3
9	The scientific basis for climate change liability		3
8	Assessing changes in risk of amplified planetary waves in a warming world. <i>Atmospheric Science Letters</i> , 2019 , 20, e929	2.4	2

7	Indicate separate contributions of long-lived and short-lived greenhouse gases in emission targets.. <i>Npj Climate and Atmospheric Science</i> , 2022 , 5, 5	8	2
6	Forecast-based attribution of a winter heatwave within the limit of predictability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	2
5	Comment on Unintentional unfairness when applying new greenhouse gas emissions metrics at country level <i>Environmental Research Letters</i> , 2021 , 16, 068001	6.2	2
4	Increasing the detectability of external influence on precipitation by correcting feature location in GCMs. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 12,466-12,478	4.4	1
3	Quantifying non-CO2 contributions to remaining carbon budgets. <i>Npj Climate and Atmospheric Science</i> , 2021 , 4,	8	1
2	Methane and the Paris Agreement temperature goals. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022 , 380, 20200456	3	0
1	Transformations to regenerative food systems An outline of the FixOurFood project. <i>Nutrition Bulletin</i> , 2022 , 47, 106-114	3.5	