Reto Knutti

List of Publications by Year
in descending order

203 papers	33,773 citations	7069 78 h-index	3997 176 g-index
259 all docs	259 docs citations	259 times ranked	28434 citing authors

#	Article	IF	Citations
1	Irreversible climate change due to carbon dioxide emissions. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 1704-1709.	3.3	2,294
2	Greenhouse-gas emission targets for limiting global warming to 2â€‰Â°C. Nature, 2009, 458, 1158-1162.	13.7	2,245
3	The Scenario Model Intercomparison Project (ScenarioMIP) for CMIP6. Geoscientific Model Development, 2016, 9, 3461-3482.	1.3	2,084
4	The use of the multi-model ensemble in probabilistic climate projections. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2007, 365, 2053-2075.	1.6	1,309
5	Robustness and uncertainties in the new CMIP5 climate model projections. Nature Climate Change, 2013, 3, 369-373.	8.1	1,211
6	Challenges in Combining Projections from Multiple Climate Models. Journal of Climate, 2010, 23, 2739-2758.	1.2	974
7	Anthropogenic contribution to global occurrenceÂof heavy-precipitation andÂhigh-temperature extremes. Nature Climate Change, 2015, 5, 560-564.	8.1	921
8	Uncertainties in CMIP5 Climate Projections due to Carbon Cycle Feedbacks. Journal of Climate, 2014, 27, 511-526.	1.2	870
9	Communication of the role of natural variability in future North American climate. Nature Climate Change, 2012, 2, 775-779.	8.1	671
10	Climate model genealogy: Generation CMIP5 and how we got there. Geophysical Research Letters, 2013, 40, 1194-1199.	1.5	670
11	Global warming under old and new scenarios using IPCC climate sensitivity range estimates. Nature Climate Change, 2012, 2, 248-253.	8.1	632
12	Persistent growth of CO2 emissions and implications for reaching climate targets. Nature Geoscience, 2014, 7, 709-715.	5.4	615
13	Science and policy characteristics of the Paris Agreement temperature goal. Nature Climate Change, 2016, 6, 827-835.	8.1	536
14	An Assessment of Earth's Climate Sensitivity Using Multiple Lines of Evidence. Reviews of Geophysics, 2020, 58, e2019RG000678.	9.0	498
15	Allowable CO2 emissions based on regional and impact-related climate targets. Nature, 2016, 529, 477-483.	13.7	491
16	The equilibrium sensitivity of the Earth's temperature to radiation changes. Nature Geoscience, 2008, 1, 735-743.	5.4	445
17	Observed heavy precipitation increase confirms theory and early models. Nature Climate Change, 2016, 6, 986-991.	8.1	444
18	Insights from Earth system model initial-condition large ensembles and future prospects. Nature Climate Change, 2020, 10, 277-286.	8.1	436

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19	Robust spatially aggregated projections of climate extremes. Nature Climate Change, 2013, 3, 1033-1038.	8.1	429
20	The end of model democracy?. Climatic Change, 2010, 102, 395-404.	1.7	417
21	Precipitation variability increases in a warmer climate. Scientific Reports, 2017, 7, 17966.	1.6	395
22	Reconciling controversies about the â€˜global warming hiatusâ€™. Nature, 2017, 545, 41-47.	13.7	346
23	Constraints on radiative forcing and future climate change from observations and climate model ensembles. Nature, 2002, 416, 719-723.	13.7	345
24	Thermohaline circulation hysteresis: A model intercomparison. Geophysical Research Letters, 2005, 32, .	1.5	344
25	Past warming trend constrains future warming in CMIP6 models. Science Advances, 2020, 6, eaaz9549.	4.7	327
26	Imprint of Southern Ocean eddies on winds, clouds and rainfall. Nature Geoscience, 2013, 6, 608-612.	5.4	324
27	ATMOSPHERIC SCIENCE: Climate Forcing by Aerosol--a Hazy Picture. Science, 2003, 300, 1103-1104.	6.0	323
28	Risks of Model Weighting in Multimodel Climate Projections. Journal of Climate, 2010, 23, 4175-4191.	1.2	306
29	A scientific critique of the two-degree climate change target. Nature Geoscience, 2016, 9, 13-18.	5.4	282
30	The Detection and Attribution Model Intercomparison Project (DAMIPÂv1.0) contribution to CMIP6. Geoscientific Model Development, 2016, 9, 3685-3697.	1.3	280
31	A climate model projection weighting scheme accounting for performance and interdependence. Geophysical Research Letters, 2017, 44, 1909-1918.	1.5	278
32	Climate model genealogy. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	276
33	A Representative Democracy to Reduce Interdependency in a Multimodel Ensemble. Journal of Climate, 2015, 28, 5171-5194.	1.2	272
34	Energy budget constraints on climate response. Nature Geoscience, 2013, 6, 415-416.	5.4	270
35	Strong hemispheric coupling of glacial climate through freshwater discharge and ocean circulation. Nature, 2004, 430, 851-856.	13.7	265
36	Partitioning climate projection uncertainty with multiple large ensembles and CMIP5/6. Earth System Dynamics, 2020, 11, 491-508.	2.7	255

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37	Making sense of palaeoclimate sensitivity. Nature, 2012, 491, 683-691.	13.7	247
38	Climate model projections from the Scenario Model Intercomparison ProjectÂ(ScenarioMIP) of CMIP6. Earth System Dynamics, 2021, 12, 253-293.	2.7	236
39	Long-Term Climate Commitments Projected with Climateâ€“Carbon Cycle Models. Journal of Climate, 2008, 21, 2721-2751.	1.2	232
40	Differences between carbon budget estimates unravelled. Nature Climate Change, 2016, 6, 245-252.	8.1	228
41	Increasing probability of record-shattering climate extremes. Nature Climate Change, 2021, 11, 689-695.	8.1	224
42	Zero emission targets as long-term global goals for climate protection. Environmental Research Letters, 2015, 10, 105007.	2.2	220
43	Should we believe model predictions of future climate change?. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 4647-4664.	1.6	217
44	Detection of spatially aggregated changes in temperature and precipitation extremes. Geophysical Research Letters, 2014, 41, 547-554.	1.5	217
45	Beyond equilibrium climate sensitivity. Nature Geoscience, 2017, 10, 727-736.	5.4	217
46	Early onset of significant local warming in low latitude countries. Environmental Research Letters, 2011, 6, 034009.	2.2	211
47	A Review of Uncertainties in Global Temperature Projections over the Twenty-First Century. Journal of Climate, 2008, 21, 2651-2663.	1.2	209
48	Robust projections of combined humidity and temperature extremes. Nature Climate Change, 2013, 3, 126-130.	8.1	206
49	Mapping model agreement on future climate projections. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	197
50	Probabilistic climate change projections using neural networks. Climate Dynamics, 2003, 21, 257-272.	1.7	185
51	Spatial Analysis to Quantify Numerical Model Bias and Dependence. Journal of the American Statistical Association, 2008, 103, 934-947.	1.8	183
52	Models agree on forced response pattern of precipitation and temperature extremes. Geophysical Research Letters, 2014, 41, 8554-8562.	1.5	159
53	Constraining Climate Sensitivity from the Seasonal Cycle in Surface Temperature. Journal of Climate, 2006, 19, 4224-4233.	1.2	158
54	Climate change now detectable from any single day of weather at global scale. Nature Climate Change, 2020, 10, 35-41.	8.1	154

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55	Community climate simulations to assess avoided impacts in 1.5 and 2â€¯â€‰Â°C futures. Earth System Dynamics, 2017, 8, 827-847.	2.7	153
56	Persistence of climate changes due to a range of greenhouse gases. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18354-18359.	3.3	144
57	What caused Earth's temperature variations during the last 800,000 years? Data-based evidence on radiative forcing and constraints on climate sensitivity. Quaternary Science Reviews, 2010, 29, 129-145.	1.4	143
58	Skill and independence weighting for multi-model assessments. Geoscientific Model Development, 2017, 10, 2379-2395.	1.3	141
59	Reduced global warming from CMIP6 projections when weighting models by performance and independence. Earth System Dynamics, 2020, 11, 995-1012.	2.7	135
60	Anthropogenic and natural warming inferred from changes in Earthâ€™s energy balance. Nature Geoscience, 2012, 5, 31-36.	5.4	134
61	Southern <scp>O</scp>cean eddy phenomenology. Journal of Geophysical Research: Oceans, 2015, 120, 7413-7449.	1.0	129
62	Addressing Interdependency in a Multimodel Ensemble by Interpolation of Model Properties. Journal of Climate, 2015, 28, 5150-5170.	1.2	127
63	Natural variability, radiative forcing and climate response in the recent hiatus reconciled. Nature Geoscience, 2014, 7, 651-656.	5.4	123
64	September Arctic sea ice predicted to disappear near 2Â°C global warming above present. Journal of Geophysical Research, 2012, 117, .	3.3	113
65	The Uneven Nature of Daily Precipitation and Its Change. Geophysical Research Letters, 2018, 45, 11,980.	1.5	112
66	Emerging trends in heavy precipitation and hot temperature extremes in Switzerland. Journal of Geophysical Research D: Atmospheres, 2016, 121, 2626-2637.	1.2	108
67	Constraining human contributions to observed warming since the pre-industrial period. Nature Climate Change, 2021, 11, 207-212.	8.1	108
68	Future climate resources for tourism in Europe based on the daily Tourism Climatic Index. Climatic Change, 2010, 103, 363-381.	1.7	107
69	Selecting a climate model subset to optimise key ensemble properties. Earth System Dynamics, 2018, 9, 135-151.	2.7	103
70	Spatial-Scale Dependence of Climate Model Performance in the CMIP3 Ensemble. Journal of Climate, 2011, 24, 2680-2692.	1.2	99
71	Feedbacks, climate sensitivity and the limits of linear models. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20150146.	1.6	98
72	Concerns of young protesters are justified. Science, 2019, 364, 139-140.	6.0	96

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73	Improved simulation of extreme precipitation in a highâ€resolution atmosphere model. Geophysical Research Letters, 2013, 40, 5803-5808.	1.5	92
74	ESD Reviews: Model dependence in multi-model climate ensembles: weighting, sub-selection and out-of-sample testing. Earth System Dynamics, 2019, 10, 91-105.	2.7	92
75	The legacy of our CO2 emissions: a clash of scientific facts, politics and ethics. Climatic Change, 2015, 133, 361-373.	1.7	90
76	Long-term climate implications of twenty-first century options for carbon dioxide emissionÂmitigation. Nature Climate Change, 2011, 1, 457-461.	8.1	87
77	Why are climate models reproducing the observed global surface warming so well?. Geophysical Research Letters, 2008, 35, .	1.5	84
78	Equilibrium Climate Sensitivity Estimated by Equilibrating Climate Models. Geophysical Research Letters, 2020, 47, e2019GL083898.	1.5	84
79	Dependence of global radiative feedbacks on evolving patterns of surface heat fluxes. Geophysical Research Letters, 2016, 43, 9877-9885.	1.5	82
80	Oceanic processes as potential trigger and amplifying mechanisms for Heinrich events. Paleoceanography, 2006, 21, n/a-n/a.	3.0	79
81	Robust Bayesian Uncertainty Analysis of Climate System Properties Using Markov Chain Monte Carlo Methods. Journal of Climate, 2007, 20, 1239-1254.	1.2	78
82	Analyzing precipitation projections: A comparison of different approaches to climate model evaluation. Journal of Geophysical Research, 2011, 116, .	3.3	77
83	Ocean Heat Transport as a Cause for Model Uncertainty in Projected Arctic Warming. Journal of Climate, 2011, 24, 1451-1460.	1.2	76
84	Mapping the climate change challenge. Nature Climate Change, 2016, 6, 663-668.	8.1	75
85	Focus on cumulative emissions, global carbon budgets and the implications for climate mitigation targets. Environmental Research Letters, 2018, 13, 010201.	2.2	75
86	Climate change projections for Switzerland based on a Bayesian multiâ€model approach. International Journal of Climatology, 2012, 32, 2348-2371.	1.5	74
87	Building confidence in climate model projections: an analysis of inferences from fit. Wiley Interdisciplinary Reviews: Climate Change, 2017, 8, e454.	3.6	73
88	Prospects and Caveats of Weighting Climate Models for Summer Maximum Temperature Projections Over North America. Journal of Geophysical Research D: Atmospheres, 2018, 123, 4509-4526.	1.2	72
89	On the interpretation of constrained climate model ensembles. Geophysical Research Letters, 2012, 39, .	1.5	71
90	Improved pattern scaling approaches for the use in climate impact studies. Geophysical Research Letters, 2015, 42, 3486-3494.	1.5	71

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91	Simulated changes in vegetation distribution, land carbon storage, and atmospheric CO2 in response to a collapse of the North Atlantic thermohaline circulation. Climate Dynamics, 2005, 25, 689-708.	1.7	70
92	Regional climate change patterns identified by cluster analysis. Climate Dynamics, 2010, 35, 587-600.	1.7	68
93	Opportunities and challenges in using remaining carbon budgets to guide climate policy. Nature Geoscience, 2020, 13, 769-779.	5.4	68
94	LongRunMIP: Motivation and Design for a Large Collection of Millennial-Length AOGCM Simulations. Bulletin of the American Meteorological Society, 2019, 100, 2551-2570.	1.7	65
95	Quantifying uncertainty in European climate projections using combined performance-independence weighting. Environmental Research Letters, 2019, 14, 124010.	2.2	64
96	Uncertainties in the timing of unprecedented climates. Nature, 2014, 511, E3-E5.	13.7	63
97	Impact of short-lived non-CO ₂ mitigation on carbon budgets for stabilizing global warming. Environmental Research Letters, 2015, 10, 075001.	2.2	63
98	Beijing Olympics as an aerosol field experiment. Geophysical Research Letters, 2009, 36, .	1.5	61
99	Sensitivity of carbon budgets to permafrost carbon feedbacks and non-CO ₂ forcings. Environmental Research Letters, 2015, 10, 125003.	2.2	60
100	Local eigenvalue analysis of CMIP3 climate model errors. Tellus, Series A: Dynamic Meteorology and Oceanography, 2008, 60, 992-1000.	0.8	58
101	Constraints on Model Response to Greenhouse Gas Forcing and the Role of Subgrid-Scale Processes. Journal of Climate, 2008, 21, 2384-2400.	1.2	57
102	Spatial patterns of probabilistic temperature change projections from a multivariate Bayesian analysis. Geophysical Research Letters, 2007, 34, .	1.5	56
103	The concerns of the young protesters are justified: A statement by<i>Scientists for Future</i>concerning the protests for more climate protection. Gaia, 2019, 28, 79-87.	0.3	56
104	Limited Predictability of the Future Thermohaline Circulation Close to an Instability Threshold. Journal of Climate, 2002, 15, 179-186.	1.2	55
105	Perceptible changes in regional precipitation in a future climate. Geophysical Research Letters, 2012, 39, .	1.5	55
106	Climate models without preindustrial volcanic forcing underestimate historical ocean thermal expansion. Geophysical Research Letters, 2013, 40, 1600-1604.	1.5	54
107	The unseen uncertainties in climate change: reviewing comprehension of an IPCC scenario graph. Climatic Change, 2015, 133, 141-154.	1.7	54
108	Probabilistic climate change projections for CO2stabilization profiles. Geophysical Research Letters, 2005, 32, .	1.5	53

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109	An integrated approach to quantifying uncertainties in the remaining carbon budget. Communications Earth & Environment, 2021, 2, .	2.6	52
110	Geosciences after Paris. Nature Geoscience, 2016, 9, 187-189.	5.4	51
111	Closing the Knowledge-Action Gap in Climate Change. One Earth, 2019, 1, 21-23.	3.6	51
112	Applying big data beyond small problems in climate research. Nature Climate Change, 2019, 9, 196-202.	8.1	51
113	Consistency of global satelliteâ€derived aerosol and cloud data sets with recent brightening observations. Geophysical Research Letters, 2010, 37, .	1.5	49
114	Comment on â€œHeat capacity, time constant, and sensitivity of Earth's climate systemâ€•by S. E. Schwartz. Journal of Geophysical Research, 2008, 113, .	3.3	48
115	Implications of potentially lower climate sensitivity on climate projections and policy. Environmental Research Letters, 2014, 9, 031003.	2.2	48
116	Influence of the Thermohaline Circulation on Projected Sea Level Rise. Journal of Climate, 2000, 13, 1997-2001.	1.2	46
117	Modeled seasonality of glacial abrupt climate events. Climate Dynamics, 2008, 31, 633-645.	1.7	46
118	ESD Reviews: Climate feedbacks in the Earth system and prospects for their evaluation. Earth System Dynamics, 2019, 10, 379-452.	2.7	46
119	Uncovering the Forced Climate Response from a Single Ensemble Member Using Statistical Learning. Journal of Climate, 2019, 32, 5677-5699.	1.2	45
120	Biased Estimates of Changes in Climate Extremes From Prescribed SST Simulations. Geophysical Research Letters, 2018, 45, 8500-8509.	1.5	44
121	Projecting the release of carbon from permafrost soils using a perturbed parameter ensemble modelling approach. Biogeosciences, 2016, 13, 2123-2136.	1.3	43
122	Understanding the drivers of marine liquid-water cloud occurrence and properties with global observations using neural networks. Atmospheric Chemistry and Physics, 2017, 17, 9535-9546.	1.9	43
123	Attribution of extreme weather to anthropogenic greenhouse gas emissions: Sensitivity to spatial and temporal scales. Geophysical Research Letters, 2014, 41, 2150-2155.	1.5	41
124	Constraints on Climate Sensitivity from Radiation Patterns in Climate Models. Journal of Climate, 2011, 24, 1034-1052.	1.2	40
125	Reconciling observed and modeled temperature and precipitation trends over Europe by adjusting for circulation variability. Geophysical Research Letters, 2016, 43, 8189-8198.	1.5	40
126	An investigation of weighting schemes suitable for incorporating large ensembles into multi-model ensembles. Earth System Dynamics, 2020, 11, 807-834.	2.7	39

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127	The Effects of Subgrid-Scale Parameterizations in a Zonally Averaged Ocean Model. Journal of Physical Oceanography, 2000, 30, 2738-2752.	0.7	37
128	Comparing Methods to Constrain Future European Climate Projections Using a Consistent Framework. Journal of Climate, 2020, 33, 8671-8692.	1.2	37
129	Constraints on the transient climate response from observed global temperature and ocean heat uptake. Geophysical Research Letters, 2008, 35, .	1.5	36
130	How much climate change can be avoided by mitigation?. Geophysical Research Letters, 2009, 36, .	1.5	36
131	The Uncertainty in the Transient Climate Response to Cumulative CO₂ Emissions Arising from the Uncertainty in Physical Climate Parameters. Journal of Climate, 2017, 30, 813-827.	1.2	36
132	The social and scientific values that shape national climate scenarios: a comparison of the Netherlands, Switzerland and the UK. Regional Environmental Change, 2017, 17, 2325-2338.	1.4	36
133	Multiannual Oceanâ€“Atmosphere Adjustments to Radiative Forcing. Journal of Climate, 2016, 29, 5643-5659.	1.2	34
134	Lack of Change in the Projected Frequency and Persistence of Atmospheric Circulation Types Over Central Europe. Geophysical Research Letters, 2020, 47, e2019GL086132.	1.5	34
135	Contribution of Atlantic and Pacific Multidecadal Variability to Twentieth-Century Temperature Changes. Journal of Climate, 2017, 30, 6279-6295.	1.2	33
136	Delays in US mitigation could rule out Paris targets. Nature Climate Change, 2017, 7, 92-94.	8.1	32
137	Mapping urban temperature using crowd-sensing data and machine learning. Urban Climate, 2021, 35, 100739.	2.4	31
138	Is there room for geoengineering in the optimal climate policy mix?. Environmental Science and Policy, 2015, 48, 67-76.	2.4	30
139	On the Linearity of Local and Regional Temperature Changes from 1.5Â°C to 2Â°C of Global Warming. Journal of Climate, 2018, 31, 7495-7514.	1.2	30
140	Mitigation choices impact carbon budget size compatible with low temperature goals. Environmental Research Letters, 2015, 10, 075003.	2.2	29
141	Predictor Screening, Calibration, and Observational Constraints in Climate Model Ensembles: An Illustration Using Climate Sensitivity. Journal of Climate, 2013, 26, 887-898.	1.2	28
142	Evaluating the accuracy of climate change pattern emulation for low warming targets. Environmental Research Letters, 2018, 13, 055006.	2.2	28
143	Emergent Constraints in Climate Projections: A Case Study of Changes in High-Latitude Temperature Variability. Journal of Climate, 2017, 30, 3655-3670.	1.2	27
144	Nonlinearities in patterns of longâ€term ocean warming. Geophysical Research Letters, 2016, 43, 3380-3388.	1.5	25

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145	Models are likely to underestimate increase in heavy rainfall in the extratropical regions with high rainfall intensity. Geophysical Research Letters, 2017, 44, 7401-7409.	1.5	25
146	Multidecadal Variability in Global Surface Temperatures Related to the Atlantic Meridional Overturning Circulation. Journal of Climate, 2018, 31, 2889-2906.	1.2	25
147	The exit strategy. Nature Climate Change, 2009, 1, 56-58.	8.1	24
148	Half of the worldâ€™s population experience robust changes in the water cycle for a 2â€‰Â°C warmer world. Environmental Research Letters, 2014, 9, 044008.	2.2	24
149	Contributions of atmospheric circulation variability and data coverage bias to the warming hiatus. Geophysical Research Letters, 2015, 42, 2385-2391.	1.5	24
150	Implementation and validation of a Wilks-type multi-site daily precipitation generator over a typical Alpine river catchment. Hydrology and Earth System Sciences, 2015, 19, 2163-2177.	1.9	23
151	Understanding and assessing uncertainty of observational climate datasets for model evaluation using ensembles. Wiley Interdisciplinary Reviews: Climate Change, 2020, 11, e654.	3.6	23
152	Testing a weather generator for downscaling climate change projections over Switzerland. International Journal of Climatology, 2017, 37, 928-942.	1.5	22
153	Energy policies avoiding a tipping point in the climate system. Energy Policy, 2011, 39, 334-348.	4.2	21
154	Climate change in Switzerland: a review of physical, institutional, and political aspects. Wiley Interdisciplinary Reviews: Climate Change, 2014, 5, 461-481.	3.6	21
155	Influence of the western North Atlantic and the Barents Sea on European winter climate. Geophysical Research Letters, 2014, 41, 561-567.	1.5	21
156	The scientific veneer of IPCC visuals. Climatic Change, 2016, 138, 369-381.	1.7	20
157	A Smoothing Algorithm for Estimating Stochastic, Continuous Time Model Parameters and its Application to a Simple Climate Model. Journal of the Royal Statistical Society Series C: Applied Statistics, 2009, 58, 679-704.	0.5	19
158	Future local climate unlike currently observed anywhere. Environmental Research Letters, 2017, 12, 084004.	2.2	19
159	CH2018 â€“ National climate scenarios for Switzerland: How to construct consistent multi-model projections from ensembles of opportunity. Climate Services, 2020, 20, 100196.	1.0	19
160	The potential for structural errors in emergent constraints. Earth System Dynamics, 2021, 12, 899-918.	2.7	19
161	Potential to Constrain Projections of Hot Temperature Extremes. Journal of Climate, 2017, 30, 9949-9964.	1.2	18
162	Uncertainty and risk in climate projections for the 21st century: comparing mitigation to non-intervention scenarios. Climatic Change, 2010, 103, 399-422.	1.7	17

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163	Heated debate on cold weather. Nature Climate Change, 2014, 4, 537-538.	8.1	17
164	The asymmetry of the climate system's response to solar forcing changes and its implications for geoengineering scenarios. Journal of Geophysical Research D: Atmospheres, 2014, 119, 5171-5184.	1.2	17
165	Ensemble optimisation, multiple constraints and overconfidence: a case study with future Australian precipitation change. Climate Dynamics, 2019, 53, 1581-1596.	1.7	17
166	The coupling of optimal economic growth and climate dynamics. Climatic Change, 2006, 79, 103-119.	1.7	16
167	The Future of the Thermohaline Circulation - a Perspective. Geophysical Monograph Series, 0, , 277-293.	0.1	16
168	The potential of pattern scaling for projecting temperature-related extreme indices. International Journal of Climatology, 2014, 34, 18-26.	1.5	16
169	Influence of subtropical and polar sea-surface temperature anomalies on temperatures in Eurasia. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	15
170	Impact of a Reduced Arctic Sea Ice Cover on Ocean and Atmospheric Properties. Journal of Climate, 2012, 25, 307-319.	1.2	15
171	Very rare heat extremes: quantifying and understanding using ensemble re-initialization. Journal of Climate, 2021, , 1-46.	1.2	15
172	Late 1980s abrupt cold season temperature change in Europe consistent with circulation variability and long-term warming. Environmental Research Letters, 2020, 15, 094056.	2.2	15
173	The sensitivity of the modeled energy budget and hydrological cycle to CO₂ and solar forcing. Earth System Dynamics, 2013, 4, 253-266.	2.7	14
174	Estimating climate sensitivity and future temperature in the presence of natural climate variability. Geophysical Research Letters, 2014, 41, 2086-2092.	1.5	14
175	Climate Model Confirmation: From Philosophy to Predicting Climate in the Real World. , 2018, , 325-359.		14
176	The response of the climate system to very high greenhouse gas emission scenarios. Environmental Research Letters, 2011, 6, 034005.	2.2	13
177	Customising global climate science for national adaptation: A case study of climate projections in UNFCCCâ€™s National Communications. Environmental Science and Policy, 2019, 101, 16-23.	2.4	13
178	Improved Consistency of Climate Projections over Europe after Accounting for Atmospheric Circulation Variability. Journal of Climate, 2017, 30, 7271-7291.	1.2	12
179	Climate Scenarios for Switzerland CH2018 â€“ Approach and Implications. Climate Services, 2022, 26, 100288.	1.0	12
180	Dimming over the oceans: Transient anthropogenic aerosol plumes in the twentieth century. Journal of Geophysical Research D: Atmospheres, 2015, 120, 3465-3484.	1.2	11

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181	Enhancement of nonâ€CO₂ radiative forcing via intensified carbon cycle feedbacks. Geophysical Research Letters, 2016, 43, 5833-5840.	1.5	11
182	Pacific variability reconciles observed and modelled global mean temperature increase since 1950. Climate Dynamics, 2021, 56, 613-634.	1.7	11
183	Robust detection of forced warming in the presence of potentially large climate variability. Science Advances, 2021, 7, eabh4429.	4.7	11
184	Uncertainty Quantification Using Multiple Modelsâ€"Prospects and Challenges. Simulation Foundations, Methods and Applications, 2019, , 835-855.	0.8	10
185	Argument-based assessment of predictive uncertainty of data-driven environmental models. Environmental Modelling and Software, 2020, 134, 104754.	1.9	10
186	Evidence for external forcing on 20thâ€century climate from combined oceanâ€atmosphere warming patterns. Geophysical Research Letters, 2012, 39, .	1.5	8
187	Sensitivity of European extreme daily temperature return levels to projected changes in mean and variance. Journal of Geophysical Research D: Atmospheres, 2014, 119, 3032-3044.	1.2	8
188	Mixedâ€layer ocean responses to anthropogenic aerosol dimming from 1870 to 2000. Journal of Geophysical Research D: Atmospheres, 2016, 121, 49-66.	1.2	8
189	Urban multi-model climate projections of intense heat in Switzerland. Climate Services, 2021, 22, 100228.	1.0	7
190	Uncertainty in carbon budget estimates due to internal climate variability. Environmental Research Letters, 2020, 15, 104064.	2.2	7
191	Hotter or not? Should we believe model predictions of future climate change?. Significance, 2008, 5, 159-162.	0.3	6
192	Weak dependence of future global mean warming on the background climate state. Climate Dynamics, 2019, 53, 5079-5099.	1.7	6
193	Comments on â€œWhy Hasnâ€™t Earth Warmed as Much as Expected?â€• Journal of Climate, 2012, 25, 2192-2192.	1.2	5
194	Assessing the Reliability of Climate Models, CMIP5. , 2013, , 237-248.		5
195	Assessing the representational accuracy of data-driven models: The case of the effect of urban green infrastructure on temperature. Environmental Modelling and Software, 2021, 141, 105048.	1.9	5
196	Climate Models and Their Projections of Future Changes. Advances in Global Change Research, 2010, , 31-56.	1.6	5
197	A New Framework for Identifying and Investigating Seasonal Climate Extremes. Journal of Climate, 2021, 34, 7761-7782.	1.2	4
198	A wider role for climate scenarios. Nature Sustainability, 2018, 1, 214-215.	11.5	3

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199	The Impacts of the Oceans on Climate Change. , 2008, , .		1
200	Climate Change Projections: Characterizing Uncertainty Using Climate Models. , 2012, , 235-259.		1
201	How has climate responded to natural perturbations?. , 0, , 72-101.		1
202	The coupling of optimal economic growth and climate dynamics. , 2006, , 103-119.		1
203	Von nichts kommt nichts. Physik in Unserer Zeit, 2012, 43, 107-107.	0.0	0