

Reto Knutti

List of Publications by Year in descending order

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Version: 2024-02-01

203
papers

33,773
citations

8208

78
h-index

4622

176
g-index

259
all docs

259
docs citations

259
times ranked

32269
citing authors

#	ARTICLE	IF	CITATIONS
1	Climate Scenarios for Switzerland CH2018 – Approach and Implications. <i>Climate Services</i> , 2022, 26, 100288.	1.0	12
2	Mapping urban temperature using crowd-sensing data and machine learning. <i>Urban Climate</i> , 2021, 35, 100739.	2.4	31
3	Pacific variability reconciles observed and modelled global mean temperature increase since 1950. <i>Climate Dynamics</i> , 2021, 56, 613-634.	1.7	11
4	Constraining human contributions to observed warming since the pre-industrial period. <i>Nature Climate Change</i> , 2021, 11, 207-212.	8.1	108
5	Climate model projections from the Scenario Model Intercomparison Project (ScenarioMIP) of CMIP6. <i>Earth System Dynamics</i> , 2021, 12, 253-293.	2.7	236
6	Urban multi-model climate projections of intense heat in Switzerland. <i>Climate Services</i> , 2021, 22, 100228.	1.0	7
7	Very rare heat extremes: quantifying and understanding using ensemble re-initialization. <i>Journal of Climate</i> , 2021, , 1-46.	1.2	15
8	Assessing the representational accuracy of data-driven models: The case of the effect of urban green infrastructure on temperature. <i>Environmental Modelling and Software</i> , 2021, 141, 105048.	1.9	5
9	Increasing probability of record-shattering climate extremes. <i>Nature Climate Change</i> , 2021, 11, 689-695.	8.1	224
10	The potential for structural errors in emergent constraints. <i>Earth System Dynamics</i> , 2021, 12, 899-918.	2.7	19
11	A New Framework for Identifying and Investigating Seasonal Climate Extremes. <i>Journal of Climate</i> , 2021, 34, 7761-7782.	1.2	4
12	An integrated approach to quantifying uncertainties in the remaining carbon budget. <i>Communications Earth & Environment</i> , 2021, 2, .	2.6	52
13	Robust detection of forced warming in the presence of potentially large climate variability. <i>Science Advances</i> , 2021, 7, eabh4429.	4.7	11
14	Climate change now detectable from any single day of weather at global scale. <i>Nature Climate Change</i> , 2020, 10, 35-41.	8.1	154
15	Equilibrium Climate Sensitivity Estimated by Equilibrating Climate Models. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL083898.	1.5	84
16	An Assessment of Earth's Climate Sensitivity Using Multiple Lines of Evidence. <i>Reviews of Geophysics</i> , 2020, 58, e2019RG000678.	9.0	498
17	Opportunities and challenges in using remaining carbon budgets to guide climate policy. <i>Nature Geoscience</i> , 2020, 13, 769-779.	5.4	68
18	CH2018 – National climate scenarios for Switzerland: How to construct consistent multi-model projections from ensembles of opportunity. <i>Climate Services</i> , 2020, 20, 100196.	1.0	19

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19	Lack of Change in the Projected Frequency and Persistence of Atmospheric Circulation Types Over Central Europe. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086132.	1.5	34
20	Past warming trend constrains future warming in CMIP6 models. <i>Science Advances</i> , 2020, 6, eaaz9549.	4.7	327
21	Understanding and assessing uncertainty of observational climate datasets for model evaluation using ensembles. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2020, 11, e654.	3.6	23
22	Argument-based assessment of predictive uncertainty of data-driven environmental models. <i>Environmental Modelling and Software</i> , 2020, 134, 104754.	1.9	10
23	Insights from Earth system model initial-condition large ensembles and future prospects. <i>Nature Climate Change</i> , 2020, 10, 277-286.	8.1	436
24	Late 1980s abrupt cold season temperature change in Europe consistent with circulation variability and long-term warming. <i>Environmental Research Letters</i> , 2020, 15, 094056.	2.2	15
25	Uncertainty in carbon budget estimates due to internal climate variability. <i>Environmental Research Letters</i> , 2020, 15, 104064.	2.2	7
26	Comparing Methods to Constrain Future European Climate Projections Using a Consistent Framework. <i>Journal of Climate</i> , 2020, 33, 8671-8692.	1.2	37
27	Partitioning climate projection uncertainty with multiple large ensembles and CMIP5/6. <i>Earth System Dynamics</i> , 2020, 11, 491-508.	2.7	255
28	An investigation of weighting schemes suitable for incorporating large ensembles into multi-model ensembles. <i>Earth System Dynamics</i> , 2020, 11, 807-834.	2.7	39
29	Reduced global warming from CMIP6 projections when weighting models by performance and independence. <i>Earth System Dynamics</i> , 2020, 11, 995-1012.	2.7	135
30	Customising global climate science for national adaptation: A case study of climate projections in UNFCCC's National Communications. <i>Environmental Science and Policy</i> , 2019, 101, 16-23.	2.4	13
31	The concerns of the young protesters are justified: A statement by Scientists for Future concerning the protests for more climate protection. <i>Gaia</i> , 2019, 28, 79-87.	0.3	56
32	Weak dependence of future global mean warming on the background climate state. <i>Climate Dynamics</i> , 2019, 53, 5079-5099.	1.7	6
33	ESD Reviews: Climate feedbacks in the Earth system and prospects for their evaluation. <i>Earth System Dynamics</i> , 2019, 10, 379-452.	2.7	46
34	Quantifying uncertainty in European climate projections using combined performance-independence weighting. <i>Environmental Research Letters</i> , 2019, 14, 124010.	2.2	64
35	LongRunMIP: Motivation and Design for a Large Collection of Millennial-Length AOGCM Simulations. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 2551-2570.	1.7	65
36	Closing the Knowledge-Action Gap in Climate Change. <i>One Earth</i> , 2019, 1, 21-23.	3.6	51

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37	Uncovering the Forced Climate Response from a Single Ensemble Member Using Statistical Learning. <i>Journal of Climate</i> , 2019, 32, 5677-5699.	1.2	45
38	Uncertainty Quantification Using Multiple Models—Prospects and Challenges. <i>Simulation Foundations, Methods and Applications</i> , 2019, , 835-855.	0.8	10
39	Ensemble optimisation, multiple constraints and overconfidence: a case study with future Australian precipitation change. <i>Climate Dynamics</i> , 2019, 53, 1581-1596.	1.7	17
40	Concerns of young protesters are justified. <i>Science</i> , 2019, 364, 139-140.	6.0	96
41	ESD Reviews: Model dependence in multi-model climate ensembles: weighting, sub-selection and out-of-sample testing. <i>Earth System Dynamics</i> , 2019, 10, 91-105.	2.7	92
42	Applying big data beyond small problems in climate research. <i>Nature Climate Change</i> , 2019, 9, 196-202.	8.1	51
43	Multidecadal Variability in Global Surface Temperatures Related to the Atlantic Meridional Overturning Circulation. <i>Journal of Climate</i> , 2018, 31, 2889-2906.	1.2	25
44	Prospects and Caveats of Weighting Climate Models for Summer Maximum Temperature Projections Over North America. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 4509-4526.	1.2	72
45	Focus on cumulative emissions, global carbon budgets and the implications for climate mitigation targets. <i>Environmental Research Letters</i> , 2018, 13, 010201.	2.2	75
46	Evaluating the accuracy of climate change pattern emulation for low warming targets. <i>Environmental Research Letters</i> , 2018, 13, 055006.	2.2	28
47	The Uneven Nature of Daily Precipitation and Its Change. <i>Geophysical Research Letters</i> , 2018, 45, 11,980.	1.5	112
48	A wider role for climate scenarios. <i>Nature Sustainability</i> , 2018, 1, 214-215.	11.5	3
49	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.	1.2	30
50	Selecting a climate model subset to optimise key ensemble properties. <i>Earth System Dynamics</i> , 2018, 9, 135-151.	2.7	103
51	Biased Estimates of Changes in Climate Extremes From Prescribed SST Simulations. <i>Geophysical Research Letters</i> , 2018, 45, 8500-8509.	1.5	44
52	Climate Model Confirmation: From Philosophy to Predicting Climate in the Real World. , 2018, , 325-359.		14
53	Testing a weather generator for downscaling climate change projections over Switzerland. <i>International Journal of Climatology</i> , 2017, 37, 928-942.	1.5	22
54	A climate model projection weighting scheme accounting for performance and interdependence. <i>Geophysical Research Letters</i> , 2017, 44, 1909-1918.	1.5	278

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55	Building confidence in climate model projections: an analysis of inferences from fit. Wiley Interdisciplinary Reviews: Climate Change, 2017, 8, e454.	3.6	73
56	Reconciling controversies about the "global warming hiatus"™. Nature, 2017, 545, 41-47.	13.7	346
57	The Uncertainty in the Transient Climate Response to Cumulative CO ₂ Emissions Arising from the Uncertainty in Physical Climate Parameters. Journal of Climate, 2017, 30, 813-827.	1.2	36
58	Contribution of Atlantic and Pacific Multidecadal Variability to Twentieth-Century Temperature Changes. Journal of Climate, 2017, 30, 6279-6295.	1.2	33
59	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
60	Delays in US mitigation could rule out Paris targets. Nature Climate Change, 2017, 7, 92-94.	8.1	32
61	Potential to Constrain Projections of Hot Temperature Extremes. Journal of Climate, 2017, 30, 9949-9964.	1.2	18
62	Future local climate unlike currently observed anywhere. Environmental Research Letters, 2017, 12, 084004.	2.2	19
63	Beyond equilibrium climate sensitivity. Nature Geoscience, 2017, 10, 727-736.	5.4	217
64	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
65	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
66	Improved Consistency of Climate Projections over Europe after Accounting for Atmospheric Circulation Variability. Journal of Climate, 2017, 30, 7271-7291.	1.2	12
67	Precipitation variability increases in a warmer climate. Scientific Reports, 2017, 7, 17966.	1.6	395
68	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
69	Skill and independence weighting for multi-model assessments. Geoscientific Model Development, 2017, 10, 2379-2395.	1.3	141
70	Community climate simulations to assess avoided impacts in 1.5 and 2°C futures. Earth System Dynamics, 2017, 8, 827-847.	2.7	153
71	Projecting the release of carbon from permafrost soils using a perturbed parameter ensemble modelling approach. Biogeosciences, 2016, 13, 2123-2136.	1.3	43
72	The Detection and Attribution Model Intercomparison Project (DAMIP v1.0) contribution to CMIP6. Geoscientific Model Development, 2016, 9, 3685-3697.	1.3	280

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73	The Scenario Model Intercomparison Project (ScenarioMIP) for CMIP6. Geoscientific Model Development, 2016, 9, 3461-3482.	1.3	2,084
74	Emerging trends in heavy precipitation and hot temperature extremes in Switzerland. Journal of Geophysical Research D: Atmospheres, 2016, 121, 2626-2637.	1.2	108
75	Mixed-layer ocean responses to anthropogenic aerosol dimming from 1870 to 2000. Journal of Geophysical Research D: Atmospheres, 2016, 121, 49-66.	1.2	8
76	Enhancement of non-CO ₂ radiative forcing via intensified carbon cycle feedbacks. Geophysical Research Letters, 2016, 43, 5833-5840.	1.5	11
77	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
78	The scientific veneer of IPCC visuals. Climatic Change, 2016, 138, 369-381.	1.7	20
79	Science and policy characteristics of the Paris Agreement temperature goal. Nature Climate Change, 2016, 6, 827-835.	8.1	536
80	Dependence of global radiative feedbacks on evolving patterns of surface heat fluxes. Geophysical Research Letters, 2016, 43, 9877-9885.	1.5	82
81	Observed heavy precipitation increase confirms theory and early models. Nature Climate Change, 2016, 6, 986-991.	8.1	444
82	Nonlinearities in patterns of long-term ocean warming. Geophysical Research Letters, 2016, 43, 3380-3388.	1.5	25
83	Multiannual Ocean-Atmosphere Adjustments to Radiative Forcing. Journal of Climate, 2016, 29, 5643-5659.	1.2	34
84	Mapping the climate change challenge. Nature Climate Change, 2016, 6, 663-668.	8.1	75
85	Allowable CO ₂ emissions based on regional and impact-related climate targets. Nature, 2016, 529, 477-483.	13.7	491
86	A scientific critique of the two-degree climate change target. Nature Geoscience, 2016, 9, 13-18.	5.4	282
87	Differences between carbon budget estimates unravelled. Nature Climate Change, 2016, 6, 245-252.	8.1	228
88	Geosciences after Paris. Nature Geoscience, 2016, 9, 187-189.	5.4	51
89	Southern Ocean eddy phenomenology. Journal of Geophysical Research: Oceans, 2015, 120, 7413-7449.	1.0	129
90	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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91	Impact of short-lived non-CO ₂ mitigation on carbon budgets for stabilizing global warming. <i>Environmental Research Letters</i> , 2015, 10, 075001.	2.2	63
92	Improved pattern scaling approaches for the use in climate impact studies. <i>Geophysical Research Letters</i> , 2015, 42, 3486-3494.	1.5	71
93	Sensitivity of carbon budgets to permafrost carbon feedbacks and non-CO ₂ forcings. <i>Environmental Research Letters</i> , 2015, 10, 125003.	2.2	60
94	Mitigation choices impact carbon budget size compatible with low temperature goals. <i>Environmental Research Letters</i> , 2015, 10, 075003.	2.2	29
95	Implementation and validation of a Wilks-type multi-site daily precipitation generator over a typical Alpine river catchment. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 2163-2177.	1.9	23
96	Zero emission targets as long-term global goals for climate protection. <i>Environmental Research Letters</i> , 2015, 10, 105007.	2.2	220
97	Addressing Interdependency in a Multimodel Ensemble by Interpolation of Model Properties. <i>Journal of Climate</i> , 2015, 28, 5150-5170.	1.2	127
98	The unseen uncertainties in climate change: reviewing comprehension of an IPCC scenario graph. <i>Climatic Change</i> , 2015, 133, 141-154.	1.7	54
99	The legacy of our CO ₂ emissions: a clash of scientific facts, politics and ethics. <i>Climatic Change</i> , 2015, 133, 361-373.	1.7	90
100	Is there room for geoengineering in the optimal climate policy mix?. <i>Environmental Science and Policy</i> , 2015, 48, 67-76.	2.4	30
101	A Representative Democracy to Reduce Interdependency in a Multimodel Ensemble. <i>Journal of Climate</i> , 2015, 28, 5171-5194.	1.2	272
102	Anthropogenic contribution to global occurrence of heavy-precipitation and high-temperature extremes. <i>Nature Climate Change</i> , 2015, 5, 560-564.	8.1	921
103	Contributions of atmospheric circulation variability and data coverage bias to the warming hiatus. <i>Geophysical Research Letters</i> , 2015, 42, 2385-2391.	1.5	24
104	Feedbacks, climate sensitivity and the limits of linear models. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20150146.	1.6	98
105	Sensitivity of European extreme daily temperature return levels to projected changes in mean and variance. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 3032-3044.	1.2	8
106	Climate change in Switzerland: a review of physical, institutional, and political aspects. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2014, 5, 461-481.	3.6	21
107	Half of the world's population experience robust changes in the water cycle for a 2°C warmer world. <i>Environmental Research Letters</i> , 2014, 9, 044008.	2.2	24
108	Implications of potentially lower climate sensitivity on climate projections and policy. <i>Environmental Research Letters</i> , 2014, 9, 031003.	2.2	48

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109	Models agree on forced response pattern of precipitation and temperature extremes. <i>Geophysical Research Letters</i> , 2014, 41, 8554-8562.	1.5	159
110	Estimating climate sensitivity and future temperature in the presence of natural climate variability. <i>Geophysical Research Letters</i> , 2014, 41, 2086-2092.	1.5	14
111	Uncertainties in CMIP5 Climate Projections due to Carbon Cycle Feedbacks. <i>Journal of Climate</i> , 2014, 27, 511-526.	1.2	870
112	Influence of the western North Atlantic and the Barents Sea on European winter climate. <i>Geophysical Research Letters</i> , 2014, 41, 561-567.	1.5	21
113	Persistent growth of CO2 emissions and implications for reaching climate targets. <i>Nature Geoscience</i> , 2014, 7, 709-715.	5.4	615
114	Uncertainties in the timing of unprecedented climates. <i>Nature</i> , 2014, 511, E3-E5.	13.7	63
115	Heated debate on cold weather. <i>Nature Climate Change</i> , 2014, 4, 537-538.	8.1	17
116	Natural variability, radiative forcing and climate response in the recent hiatus reconciled. <i>Nature Geoscience</i> , 2014, 7, 651-656.	5.4	123
117	Attribution of extreme weather to anthropogenic greenhouse gas emissions: Sensitivity to spatial and temporal scales. <i>Geophysical Research Letters</i> , 2014, 41, 2150-2155.	1.5	41
118	The asymmetry of the climate system's response to solar forcing changes and its implications for geoengineering scenarios. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 5171-5184.	1.2	17
119	The potential of pattern scaling for projecting temperature-related extreme indices. <i>International Journal of Climatology</i> , 2014, 34, 18-26.	1.5	16
120	Detection of spatially aggregated changes in temperature and precipitation extremes. <i>Geophysical Research Letters</i> , 2014, 41, 547-554.	1.5	217
121	Assessing the Reliability of Climate Models, CMIP5. , 2013, , 237-248.		5
122	Climate model genealogy: Generation CMIP5 and how we got there. <i>Geophysical Research Letters</i> , 2013, 40, 1194-1199.	1.5	670
123	Energy budget constraints on climate response. <i>Nature Geoscience</i> , 2013, 6, 415-416.	5.4	270
124	Imprint of Southern Ocean eddies on winds, clouds and rainfall. <i>Nature Geoscience</i> , 2013, 6, 608-612.	5.4	324
125	Improved simulation of extreme precipitation in a high-resolution atmosphere model. <i>Geophysical Research Letters</i> , 2013, 40, 5803-5808.	1.5	92
126	Robustness and uncertainties in the new CMIP5 climate model projections. <i>Nature Climate Change</i> , 2013, 3, 369-373.	8.1	1,211

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127	Predictor Screening, Calibration, and Observational Constraints in Climate Model Ensembles: An Illustration Using Climate Sensitivity. <i>Journal of Climate</i> , 2013, 26, 887-898.	1.2	28
128	The sensitivity of the modeled energy budget and hydrological cycle to CO ₂ and solar forcing. <i>Earth System Dynamics</i> , 2013, 4, 253-266.	2.7	14
129	Robust spatially aggregated projections of climate extremes. <i>Nature Climate Change</i> , 2013, 3, 1033-1038.	8.1	429
130	Robust projections of combined humidity and temperature extremes. <i>Nature Climate Change</i> , 2013, 3, 126-130.	8.1	206
131	Climate models without preindustrial volcanic forcing underestimate historical ocean thermal expansion. <i>Geophysical Research Letters</i> , 2013, 40, 1600-1604.	1.5	54
132	Impact of a Reduced Arctic Sea Ice Cover on Ocean and Atmospheric Properties. <i>Journal of Climate</i> , 2012, 25, 307-319.	1.2	15
133	Comments on "Why Hasn't Earth Warmed as Much as Expected?". <i>Journal of Climate</i> , 2012, 25, 2192-2199.		5
134	Communication of the role of natural variability in future North American climate. <i>Nature Climate Change</i> , 2012, 2, 775-779.	8.1	671
135	Anthropogenic and natural warming inferred from changes in Earth's energy balance. <i>Nature Geoscience</i> , 2012, 5, 31-36.	5.4	134
136	Global warming under old and new scenarios using IPCC climate sensitivity range estimates. <i>Nature Climate Change</i> , 2012, 2, 248-253.	8.1	632
137	Evidence for external forcing on 20th century climate from combined ocean-atmosphere warming patterns. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	8
138	Making sense of palaeoclimate sensitivity. <i>Nature</i> , 2012, 491, 683-691.	13.7	247
139	Perceptible changes in regional precipitation in a future climate. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	55
140	September Arctic sea ice predicted to disappear near 2°C global warming above present. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	113
141	On the interpretation of constrained climate model ensembles. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	71
142	Climate Change Projections: Characterizing Uncertainty Using Climate Models. , 2012, , 235-259.		1
143	Von nichts kommt nichts. <i>Physik in Unserer Zeit</i> , 2012, 43, 107-107.	0.0	0
144	Climate change projections for Switzerland based on a Bayesian multi-model approach. <i>International Journal of Climatology</i> , 2012, 32, 2348-2371.	1.5	74

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145	Analyzing precipitation projections: A comparison of different approaches to climate model evaluation. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	77
146	Climate model genealogy. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	276
147	Influence of subtropical and polar sea-surface temperature anomalies on temperatures in Eurasia. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	15
148	Mapping model agreement on future climate projections. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	197
149	Long-term climate implications of twenty-first century options for carbon dioxide emission mitigation. <i>Nature Climate Change</i> , 2011, 1, 457-461.	8.1	87
150	Energy policies avoiding a tipping point in the climate system. <i>Energy Policy</i> , 2011, 39, 334-348.	4.2	21
151	The response of the climate system to very high greenhouse gas emission scenarios. <i>Environmental Research Letters</i> , 2011, 6, 034005.	2.2	13
152	Early onset of significant local warming in low latitude countries. <i>Environmental Research Letters</i> , 2011, 6, 034009.	2.2	211
153	Constraints on Climate Sensitivity from Radiation Patterns in Climate Models. <i>Journal of Climate</i> , 2011, 24, 1034-1052.	1.2	40
154	Spatial-Scale Dependence of Climate Model Performance in the CMIP3 Ensemble. <i>Journal of Climate</i> , 2011, 24, 2680-2692.	1.2	99
155	Ocean Heat Transport as a Cause for Model Uncertainty in Projected Arctic Warming. <i>Journal of Climate</i> , 2011, 24, 1451-1460.	1.2	76
156	Regional climate change patterns identified by cluster analysis. <i>Climate Dynamics</i> , 2010, 35, 587-600.	1.7	68
157	Uncertainty and risk in climate projections for the 21st century: comparing mitigation to non-intervention scenarios. <i>Climatic Change</i> , 2010, 103, 399-422.	1.7	17
158	Future climate resources for tourism in Europe based on the daily Tourism Climatic Index. <i>Climatic Change</i> , 2010, 103, 363-381.	1.7	107
159	The end of model democracy?. <i>Climatic Change</i> , 2010, 102, 395-404.	1.7	417
160	Persistence of climate changes due to a range of greenhouse gases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 18354-18359.	3.3	144
161	Risks of Model Weighting in Multimodel Climate Projections. <i>Journal of Climate</i> , 2010, 23, 4175-4191.	1.2	306
162	Consistency of global satellite-derived aerosol and cloud data sets with recent brightening observations. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	49

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163	What caused Earth's temperature variations during the last 800,000 years? Data-based evidence on radiative forcing and constraints on climate sensitivity. <i>Quaternary Science Reviews</i> , 2010, 29, 129-145.	1.4	143
164	Challenges in Combining Projections from Multiple Climate Models. <i>Journal of Climate</i> , 2010, 23, 2739-2758.	1.2	974
165	Climate Models and Their Projections of Future Changes. <i>Advances in Global Change Research</i> , 2010, , 31-56.	1.6	5
166	The exit strategy. <i>Nature Climate Change</i> , 2009, 1, 56-58.	8.1	24
167	Greenhouse-gas emission targets for limiting global warming to 2°C. <i>Nature</i> , 2009, 458, 1158-1162.	13.7	2,245
168	A Smoothing Algorithm for Estimating Stochastic, Continuous Time Model Parameters and its Application to a Simple Climate Model. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2009, 58, 679-704.	0.5	19
169	Beijing Olympics as an aerosol field experiment. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	61
170	Irreversible climate change due to carbon dioxide emissions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 1704-1709.	3.3	2,294
171	How much climate change can be avoided by mitigation?. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	36
172	Modeled seasonality of glacial abrupt climate events. <i>Climate Dynamics</i> , 2008, 31, 633-645.	1.7	46
173	Local eigenvalue analysis of CMIP3 climate model errors. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2008, 60, 992-1000.	0.8	58
174	Hotter or not? Should we believe model predictions of future climate change?. <i>Significance</i> , 2008, 5, 159-162.	0.3	6
175	The equilibrium sensitivity of the Earth's temperature to radiation changes. <i>Nature Geoscience</i> , 2008, 1, 735-743.	5.4	445
176	Constraints on the transient climate response from observed global temperature and ocean heat uptake. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	36
177	Comment on "Heat capacity, time constant, and sensitivity of Earth's climate system" by S. E. Schwartz. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	48
178	A Review of Uncertainties in Global Temperature Projections over the Twenty-First Century. <i>Journal of Climate</i> , 2008, 21, 2651-2663.	1.2	209
179	Why are climate models reproducing the observed global surface warming so well?. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	84
180	The Impacts of the Oceans on Climate Change. , 2008, , .		1

#	ARTICLE	IF	CITATIONS
181	Long-Term Climate Commitments Projected with Climate's Carbon Cycle Models. <i>Journal of Climate</i> , 2008, 21, 2721-2751.	1.2	232
182	Constraints on Model Response to Greenhouse Gas Forcing and the Role of Subgrid-Scale Processes. <i>Journal of Climate</i> , 2008, 21, 2384-2400.	1.2	57
183	Spatial Analysis to Quantify Numerical Model Bias and Dependence. <i>Journal of the American Statistical Association</i> , 2008, 103, 934-947.	1.8	183
184	Should we believe model predictions of future climate change?. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008, 366, 4647-4664.	1.6	217
185	Robust Bayesian Uncertainty Analysis of Climate System Properties Using Markov Chain Monte Carlo Methods. <i>Journal of Climate</i> , 2007, 20, 1239-1254.	1.2	78
186	Spatial patterns of probabilistic temperature change projections from a multivariate Bayesian analysis. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	56
187	The use of the multi-model ensemble in probabilistic climate projections. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2007, 365, 2053-2075.	1.6	1,309
188	Oceanic processes as potential trigger and amplifying mechanisms for Heinrich events. <i>Paleoceanography</i> , 2006, 21, n/a-n/a.	3.0	79
189	Constraining Climate Sensitivity from the Seasonal Cycle in Surface Temperature. <i>Journal of Climate</i> , 2006, 19, 4224-4233.	1.2	158
190	The coupling of optimal economic growth and climate dynamics. <i>Climatic Change</i> , 2006, 79, 103-119.	1.7	16
191	The coupling of optimal economic growth and climate dynamics. , 2006, , 103-119.		1
192	Simulated changes in vegetation distribution, land carbon storage, and atmospheric CO2 in response to a collapse of the North Atlantic thermohaline circulation. <i>Climate Dynamics</i> , 2005, 25, 689-708.	1.7	70
193	Probabilistic climate change projections for CO2 stabilization profiles. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	53
194	Thermohaline circulation hysteresis: A model intercomparison. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	344
195	Strong hemispheric coupling of glacial climate through freshwater discharge and ocean circulation. <i>Nature</i> , 2004, 430, 851-856.	13.7	265
196	Probabilistic climate change projections using neural networks. <i>Climate Dynamics</i> , 2003, 21, 257-272.	1.7	185
197	ATMOSPHERIC SCIENCE: Climate Forcing by Aerosol—a Hazy Picture. <i>Science</i> , 2003, 300, 1103-1104.	6.0	323
198	Limited Predictability of the Future Thermohaline Circulation Close to an Instability Threshold. <i>Journal of Climate</i> , 2002, 15, 179-186.	1.2	55

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199	Constraints on radiative forcing and future climate change from observations and climate model ensembles. <i>Nature</i> , 2002, 416, 719-723.	13.7	345
200	The Effects of Subgrid-Scale Parameterizations in a Zonally Averaged Ocean Model. <i>Journal of Physical Oceanography</i> , 2000, 30, 2738-2752.	0.7	37
201	Influence of the Thermohaline Circulation on Projected Sea Level Rise. <i>Journal of Climate</i> , 2000, 13, 1997-2001.	1.2	46
202	How has climate responded to natural perturbations?. , 0, , 72-101.		1
203	The Future of the Thermohaline Circulation - a Perspective. <i>Geophysical Monograph Series</i> , 0, , 277-293.	0.1	16