

Karl E Taylor

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111
papers

29,344
citations

56
h-index

115
g-index

115
ext. papers

33,827
ext. citations

10.1
avg, IF

7.58
L-index

#	Paper	IF	Citations
111	An Overview of CMIP5 and the Experiment Design. <i>Bulletin of the American Meteorological Society</i> , 2012 , 93, 485-498	6.1	9473
110	Summarizing multiple aspects of model performance in a single diagram. <i>Journal of Geophysical Research</i> , 2001 , 106, 7183-7192		4127
109	Overview of the Coupled Model Intercomparison Project Phase 6 (CMIP6) experimental design and organization. <i>Geoscientific Model Development</i> , 2016 , 9, 1937-1958	6.3	2373
108	THE WCRP CMIP3 Multimodel Dataset: A New Era in Climate Change Research. <i>Bulletin of the American Meteorological Society</i> , 2007 , 88, 1383-1394	6.1	2226
107	Performance metrics for climate models. <i>Journal of Geophysical Research</i> , 2008 , 113,		765
106	An Overview of the Results of the Atmospheric Model Intercomparison Project (AMIP I). <i>Bulletin of the American Meteorological Society</i> , 1999 , 80, 29-55	6.1	550
105	Forcing, feedbacks and climate sensitivity in CMIP5 coupled atmosphere-ocean climate models. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	490
104	Statistical significance of trends and trend differences in layer-average atmospheric temperature time series. <i>Journal of Geophysical Research</i> , 2000 , 105, 7337-7356		482
103	Interpretation of cloud-climate feedback as produced by 14 atmospheric general circulation models. <i>Science</i> , 1989 , 245, 513-6	33.3	382
102	Causes of Higher Climate Sensitivity in CMIP6 Models. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL085782	4.9	378
101	Contributions of anthropogenic and natural forcing to recent tropopause height changes. <i>Science</i> , 2003 , 301, 479-83	33.3	332
100	A search for human influences on the thermal structure of the atmosphere. <i>Nature</i> , 1996 , 382, 39-46	50.4	320
99	Monsoon changes for 6000 years ago: Results of 18 simulations from the Paleoclimate Modeling Intercomparison Project (PMIP). <i>Geophysical Research Letters</i> , 1999 , 26, 859-862	4.9	318
98	Volcanic contribution to decadal changes in tropospheric temperature. <i>Nature Geoscience</i> , 2014 , 7, 185-189	18.9	304
97	On the contribution of local feedback mechanisms to the range of climate sensitivity in two GCM ensembles. <i>Climate Dynamics</i> , 2006 , 27, 17-38	4.2	302
96	An overview of results from the Coupled Model Intercomparison Project. <i>Global and Planetary Change</i> , 2003 , 37, 103-133	4.2	275
95	Response of the climate system to atmospheric aerosols and greenhouse gases. <i>Nature</i> , 1994 , 369, 734-737	33.7	264

94	The Geoengineering Model Intercomparison Project (GeoMIP). <i>Atmospheric Science Letters</i> , 2011 , 12, 162-167	2.4	259
93	Identification of human-induced changes in atmospheric moisture content. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 15248-53	11.5	234
92	Amplification of surface temperature trends and variability in the tropical atmosphere. <i>Science</i> , 2005 , 309, 1551-6	33.3	229
91	Contributions of Different Cloud Types to Feedbacks and Rapid Adjustments in CMIP5*. <i>Journal of Climate</i> , 2013 , 26, 5007-5027	4.4	209
90	Impact of geoengineering schemes on the global hydrological cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 7664-9	11.5	207
89	Consistency of modelled and observed temperature trends in the tropical troposphere. <i>International Journal of Climatology</i> , 2008 , 28, 1703-1722	3.5	183
88	Detecting and Attributing External Influences on the Climate System: A Review of Recent Advances. <i>Journal of Climate</i> , 2005 , 18, 1291-1314	4.4	173
87	An assessment of the radiative effects of anthropogenic sulfate. <i>Journal of Geophysical Research</i> , 1997 , 102, 3761-3778		172
86	The Decadal Climate Prediction Project (DCPP) contribution to CMIP6. <i>Geoscientific Model Development</i> , 2016 , 9, 3751-3777	6.3	162
85	Evaluating the present-day simulation of clouds, precipitation, and radiation in climate models. <i>Journal of Geophysical Research</i> , 2008 , 113,		153
84	Behavior of tropopause height and atmospheric temperature in models, reanalyses, and observations: Decadal changes. <i>Journal of Geophysical Research</i> , 2003 , 108, ACL 1-1		144
83	Interpretation of snow-climate feedback as produced by 17 general circulation models. <i>Science</i> , 1991 , 253, 888-92	33.3	143
82	Context for interpreting equilibrium climate sensitivity and transient climate response from the CMIP6 Earth system models. <i>Science Advances</i> , 2020 , 6, eaba1981	14.3	142
81	Incorporating model quality information in climate change detection and attribution studies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 14778-83	11.5	137
80	Estimating Shortwave Radiative Forcing and Response in Climate Models. <i>Journal of Climate</i> , 2007 , 20, 2530-2543	4.4	132
79	OMIP contribution to CMIP6: experimental and diagnostic protocol for the physical component of the Ocean Model Intercomparison Project. <i>Geoscientific Model Development</i> , 2016 , 9, 3231-3296	6.3	130
78	Towards the detection and attribution of an anthropogenic effect on climate. <i>Climate Dynamics</i> , 1995 , 12, 77-100	4.2	128
77	Climate Forcings and Climate Sensitivities Diagnosed from Coupled Climate Model Integrations. <i>Journal of Climate</i> , 2006 , 19, 6181-6194	4.4	127

76	High-resolution simulations of global climate, part 1: present climate. <i>Climate Dynamics</i> , 2003 , 21, 371-390	127
75	Separating signal and noise in atmospheric temperature changes: The importance of timescale. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a	125
74	Forced and unforced ocean temperature changes in Atlantic and Pacific tropical cyclogenesis regions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 13905-10	118
73	The Community Climate System Model. <i>Bulletin of the American Meteorological Society</i> , 2001 , 82, 2357-2376	111
72	Uncertainties in observationally based estimates of temperature change in the free atmosphere. <i>Journal of Geophysical Research</i> , 1999 , 104, 6305-6333	111
71	CMIP5 Scientific Gaps and Recommendations for CMIP6. <i>Bulletin of the American Meteorological Society</i> , 2017 , 98, 95-105	6.1 109
70	Human-induced global ocean warming on multidecadal timescales. <i>Nature Climate Change</i> , 2012 , 2, 524-529	105
69	Identifying human influences on atmospheric temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 26-33	11.5 102
68	Climate Model Intercomparisons: Preparing for the Next Phase. <i>Eos</i> , 2014 , 95, 77-78	1.5 100
67	Quantifying components of aerosol-cloud-radiation interactions in climate models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 7599-7615	4.4 98
66	Identification of anthropogenic climate change using a second-generation reanalysis. <i>Journal of Geophysical Research</i> , 2004 , 109, n/a-n/a	92
65	Quantifying underestimates of long-term upper-ocean warming. <i>Nature Climate Change</i> , 2014 , 4, 999-1005	5.4 91
64	Accounting for the effects of volcanoes and ENSO in comparisons of modeled and observed temperature trends. <i>Journal of Geophysical Research</i> , 2001 , 106, 28033-28059	85
63	Quantifying the Sources of Intermodel Spread in Equilibrium Climate Sensitivity. <i>Journal of Climate</i> , 2016 , 29, 513-524	4.4 79
62	Volcanoes and climate: Krakatoa's signature persists in the ocean. <i>Nature</i> , 2006 , 439, 675	50.4 79
61	Interpreting differential temperature trends at the surface and in the lower troposphere. <i>Science</i> , 2000 , 287, 1227-32	33.3 72
60	Uncertainties in carbon dioxide radiative forcing in atmospheric general circulation models. <i>Science</i> , 1993 , 262, 1252-5	33.3 72
59	Krakatoa lives: The effect of volcanic eruptions on ocean heat content and thermal expansion. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9 67

58	Overview of the Coupled Model Intercomparison Project Phase 6 (CMIP6) experimental design and organisation	63
57	Human and natural influences on the changing thermal structure of the atmosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 17235-40	11.5 61
56	Relationship between temperature and precipitable water changes over tropical oceans. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9 58
55	Influence of satellite data uncertainties on the detection of externally forced climate change. <i>Science</i> , 2003 , 300, 1280-4	33.3 56
54	Intercomparison and interpretation of surface energy fluxes in atmospheric general circulation models. <i>Journal of Geophysical Research</i> , 1992 , 97, 3711	55
53	Present and future surface climate in the western USA as simulated by 15 global climate models. <i>Climate Dynamics</i> , 2004 , 23, 455-472	4.2 51
52	Towards improved and more routine Earth system model evaluation in CMIP. <i>Earth System Dynamics</i> , 2016 , 7, 813-830	4.8 48
51	Simulated and observed variability in ocean temperature and heat content. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 10768-73	11.5 46
50	Variability of ocean heat uptake: Reconciling observations and models. <i>Journal of Geophysical Research</i> , 2006 , 111,	40
49	A More Powerful Reality Test for Climate Models. <i>Eos</i> , 2016 , 97,	1.5 38
48	Comparison of the seasonal change in cloud-radiative forcing from atmospheric general circulation models and satellite observations. <i>Journal of Geophysical Research</i> , 1997 , 102, 16593-16603	36
47	An Analysis of Cloud Liquid Water Feedback and Global Climate Sensitivity in a General Circulation Model. <i>Journal of Climate</i> , 1992 , 5, 907-919	4.4 36
46	Requirements for a global data infrastructure in support of CMIP6. <i>Geoscientific Model Development</i> , 2018 , 11, 3659-3680	6.3 31
45	External Influences on Modeled and Observed Cloud Trends. <i>Journal of Climate</i> , 2015 , 28, 4820-4840	4.4 29
44	Quantifying the agreement between observed and simulated extratropical modes of interannual variability. <i>Climate Dynamics</i> , 2019 , 52, 4057-4089	4.2 24
43	Evolving Obs4MIPs to Support Phase 6 of the Coupled Model Intercomparison Project (CMIP6). <i>Bulletin of the American Meteorological Society</i> , 2015 , 96, ES131-ES133	6.1 24
42	Planktonic dimethylsulfide and cloud albedo: An estimate of the feedback response. <i>Climatic Change</i> , 1991 , 18, 1-15	4.5 24
41	Model test of CCN-cloud albedo climate forcing. <i>Geophysical Research Letters</i> , 1990 , 17, 607-610	4.9 24

40	The reproducibility of observational estimates of surface and atmospheric temperature change. <i>Science</i> , 2011 , 334, 1232-3	33.3	23
39	The Roles of Mean Meridional Motions and Large-Scale Eddies in Zonally Averaged Circulations. <i>Journals of the Atmospheric Sciences</i> , 1980 , 37, 1-19	2.1	23
38	The Influence of Subsurface Energy Storage on Seasonal Temperature Variations. <i>Journal of Applied Meteorology</i> , 1976 , 15, 1129-1138		23
37	How Can We Advance Our Weather and Climate Models as a Community?. <i>Bulletin of the American Meteorological Society</i> , 2002 , 83, 431-434	6.1	22
36	GCM evaluation of a mechanism for El Niño triggering by the El Chichón ash cloud. <i>Geophysical Research Letters</i> , 1995 , 22, 2369-2372	4.9	22
35	An Analysis of the Biases in Traditional Cyclone Frequency Maps. <i>Monthly Weather Review</i> , 1986 , 114, 1481-1490	2.4	20
34	Observed and Projected Changes to the Precipitation Annual Cycle. <i>Journal of Climate</i> , 2017 , 30, 4983-4995	4.4	19
33	Relative detectability of greenhouse-gas and aerosol climate change signals. <i>Climate Dynamics</i> , 1998 , 14, 781-790	4.2	18
32	Documenting Climate Models and Their Simulations. <i>Bulletin of the American Meteorological Society</i> , 2013 , 94, 623-627	6.1	17
31	Competing influences of anthropogenic warming, ENSO, and plant physiology on future terrestrial aridity. <i>Journal of Climate</i> , 2017 , 30, 6883-6904	4.4	15
30	Formulas for calculating available potential energy over uneven topography. <i>Tellus</i> , 1979 , 31, 236-245		15
29	Moving beyond the Total Sea Ice Extent in Gauging Model Biases. <i>Journal of Climate</i> , 2016 , 29, 8965-8984	4.4	15
28	Upper limit for sea ice albedo feedback contribution to global warming. <i>Journal of Geophysical Research</i> , 1991 , 96, 9169		14
27	The CMIP6 Data Request (DREQ, version 01.00.31). <i>Geoscientific Model Development</i> , 2020 , 13, 201-224	6.3	13
26	Toward Standardized Data Sets for Climate Model Experimentation. <i>Eos</i> , 2018 , 99,	1.5	13
25	Documenting numerical experiments in support of the Coupled Model Intercomparison Project Phase 6 (CMIP6). <i>Geoscientific Model Development</i> , 2020 , 13, 2149-2167	6.3	12
24	High-Frequency Intermittency in Observed and Model-Simulated Precipitation. <i>Geophysical Research Letters</i> , 2018 , 45, 12,514	4.9	12
23	A data model of the Climate and Forecast metadata conventions (CF-1.6) with a software implementation (cf-python v2.1). <i>Geoscientific Model Development</i> , 2017 , 10, 4619-4646	6.3	11

22	Comment on Climate forcing by the volcanic eruption of Mount Pinatubo by David H. Douglass and Robert S. Knox. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	11
21	Coupled Climate Model appraisal: A benchmark for future studies. <i>Eos</i> , 2006 , 87, 185	1.5	11
20	A Vertical Finite-Difference Scheme for Hydrostatic and Nonhydrostatic Equations. <i>Monthly Weather Review</i> , 1984 , 112, 1398-1402	2.4	11
19	Sulphate aerosols and climate. <i>Nature</i> , 1989 , 340, 438-438	50.4	10
18	The Decadal Climate Prediction Project 2016 ,		10
17	Observations for Model Intercomparison Project (Obs4MIPs): status for CMIP6. <i>Geoscientific Model Development</i> , 2020 , 13, 2945-2958	6.3	9
16	The Potential Effect of GCM Uncertainties and Internal Atmospheric Variability on Anthropogenic Signal Detection. <i>Journal of Climate</i> , 1998 , 11, 659-675	4.4	8
15	Coupled ocean-atmosphere climate simulations compared with simulations using prescribed sea surface temperature: effect of a "perfect ocean" <i>Global and Planetary Change</i> , 2004 , 41, 1-14	4.2	7
14	Limitations of the equivalent CO2 approximation in climate change simulations. <i>Journal of Geophysical Research</i> , 2001 , 106, 22593-22603		7
13	Designing and Documenting Experiments in CMIP6 2019 ,		6
12	Scale space methods for climate model analysis. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 5082-5097	4.4	6
11	Correlation approaches to detection. <i>Geophysical Research Letters</i> , 2000 , 27, 2973-2976	4.9	6
10	The response of the high-latitude thermosphere to geomagnetic substorms. <i>Advances in Space Research</i> , 1985 , 5, 289-292	2.4	6
9	. <i>Tellus</i> , 1979 , 31, 236-245		6
8	Experimental and diagnostic protocol for the physical component of the CMIP6 Ocean Model Intercomparison Project (OMIP)		4
7	The effect of horizontal resolution on ocean surface heat fluxes in the ECMWF model. <i>Climate Dynamics</i> , 1993 , 9, 17-32	4.2	3
6	The CMIP6 Data Request (version 01.00.31) 2019 ,		1
5	Projected Effects of Increasing Concentrations of Carbon Dioxide and Trace Gases on Climate. <i>ASA Special Publication</i> , 2016 , 1-17	1.1	1

4	Climate Models for the Study of Paleoclimates 1994 , 21-41		1
3	Observations for Model Intercomparison Project (Obs4MIPs): Status for CMIP6 2019 ,		1
2	Benchmarking performance changes in the simulation of extratropical modes of variability across CMIP generations. <i>Journal of Climate</i> , 2021 , 1-70	4.4	0
1	[Comment on On award to Crichton] On the validity climate models. <i>Eos</i> , 2007 , 88, 121		1.5