

Chris D Roberts

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

3,441
citations

117625

34
h-index

149698

56
g-index

75
all docs

75
docs citations

75
times ranked

4451
citing authors

#	ARTICLE	IF	CITATIONS
1	Coupling of CO ₂ and Ice Sheet Stability Over Major Climate Transitions of the Last 20 Million Years. <i>Science</i> , 2009, 326, 1394-1397.	12.6	340
2	Observed interannual variability of the Atlantic meridional overturning circulation at 26.5°N. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	211
3	A model-data comparison for a multi-model ensemble of early Eocene atmosphere-ocean simulations: EoMIP. <i>Climate of the Past</i> , 2012, 8, 1717-1736.	3.4	196
4	Recent slowing of Atlantic overturning circulation as a recovery from earlier strengthening. <i>Nature Geoscience</i> , 2016, 9, 518-522.	12.9	148
5	Impact of Model Resolution on Tropical Cyclone Simulation Using the HighResMIP-PRIMAVERA Multimodel Ensemble. <i>Journal of Climate</i> , 2020, 33, 2557-2583.	3.2	141
6	Description of the resolution hierarchy of the global coupled HadGEM3-GC3.1 model as used in CMIP6 HighResMIP experiments. <i>Geoscientific Model Development</i> , 2019, 12, 4999-5028.	3.6	139
7	Projected Future Changes in Tropical Cyclones Using the CMIP6 HighResMIP Multimodel Ensemble. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088662.	4.0	119
8	Critical Southern Ocean climate model biases traced to atmospheric model cloud errors. <i>Nature Communications</i> , 2018, 9, 3625.	12.8	109
9	Climate model configurations of the ECMWF Integrated Forecasting System (ECMWF-IFS cycle 43r1) for HighResMIP. <i>Geoscientific Model Development</i> , 2018, 11, 3681-3712.	3.6	104
10	Atmosphere drives recent interannual variability of the Atlantic meridional overturning circulation at 26.5°N. <i>Geophysical Research Letters</i> , 2013, 40, 5164-5170.	4.0	90
11	Ocean heat content variability and change in an ensemble of ocean reanalyses. <i>Climate Dynamics</i> , 2017, 49, 909-930.	3.8	88
12	Earth's energy imbalance since 1960 in observations and CMIP5 models. <i>Geophysical Research Letters</i> , 2015, 42, 1205-1213.	4.0	82
13	Quantifying the likelihood of a continued hiatus in global warming. <i>Nature Climate Change</i> , 2015, 5, 337-342.	18.8	76
14	Climate sensitivity to Arctic seaway restriction during the early Paleogene. <i>Earth and Planetary Science Letters</i> , 2009, 286, 576-585.	4.4	73
15	Impact of Higher Spatial Atmospheric Resolution on Precipitation Extremes Over Land in Global Climate Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD032184.	3.3	69
16	A Multimodel Study of Sea Surface Temperature and Subsurface Density Fingerprints of the Atlantic Meridional Overturning Circulation. <i>Journal of Climate</i> , 2013, 26, 9155-9174.	3.2	68
17	Is the 2004-2012 reduction of the Atlantic meridional overturning circulation significant?. <i>Geophysical Research Letters</i> , 2014, 41, 3204-3210.	4.0	68
18	Evaluating Model Simulations of Twentieth-Century Sea Level Rise. Part I: Global Mean Sea Level Change. <i>Journal of Climate</i> , 2017, 30, 8539-8563.	3.2	64

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19	Atlantic Meridional Overturning Circulation slowdown cooled the subtropical ocean. <i>Geophysical Research Letters</i> , 2013, 40, 6202-6207.	4.0	63
20	Preindustrial Control Simulations With HadGEM3-CC3.1 for CMIP6. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 3049-3075.	3.8	62
21	Resolving and Parameterising the Ocean Mesoscale in Earth System Models. <i>Current Climate Change Reports</i> , 2020, 6, 137-152.	8.6	62
22	Sensitivity of the Atlantic Meridional Overturning Circulation to Model Resolution in CMIP6 HighResMIP Simulations and Implications for Future Changes. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS002014.	3.8	59
23	A model-model and data-model comparison for the early Eocene hydrological cycle. <i>Climate of the Past</i> , 2016, 12, 455-481.	3.4	58
24	Surface flux and ocean heat transport convergence contributions to seasonal and interannual variations of ocean heat content. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 726-744.	2.6	58
25	Evaluating Model Simulations of Twentieth-Century Sea-Level Rise. Part II: Regional Sea-Level Changes. <i>Journal of Climate</i> , 2017, 30, 8565-8593.	3.2	57
26	Multi-model evaluation of the sensitivity of the global energy budget and hydrological cycle to resolution. <i>Climate Dynamics</i> , 2019, 52, 6817-6846.	3.8	57
27	The Mean State and Variability of the North Atlantic Circulation: A Perspective From Ocean Reanalyses. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 9141-9170.	2.6	55
28	Exploring the Drivers of Global and Local Sea-Level Change Over the 21st Century and Beyond. <i>Earth's Future</i> , 2020, 8, e2019EF001413.	6.3	55
29	Northern Hemisphere blocking simulation in current climate models: evaluating progress from the Climate Model Intercomparison Project Phase 5 to 6 and sensitivity to resolution. <i>Weather and Climate Dynamics</i> , 2020, 1, 277-292.	3.5	49
30	Evaluation of satellite and reanalysis-based global net surface energy flux and uncertainty estimates. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 6250-6272.	3.3	47
31	Impact of ocean resolution and mean state on the rate of AMOC weakening. <i>Climate Dynamics</i> , 2020, 55, 1711-1732.	3.8	45
32	Mechanisms of aerosol-forced AMOC variability in a state of the art climate model. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 2087-2096.	2.6	44
33	Impact of model resolution on Arctic sea ice and North Atlantic Ocean heat transport. <i>Climate Dynamics</i> , 2019, 53, 4989-5017.	3.8	42
34	On the Drivers and Predictability of Seasonal-to-Interannual Variations in Regional Sea Level. <i>Journal of Climate</i> , 2016, 29, 7565-7585.	3.2	40
35	A 20 million year record of planktic foraminiferal B/Ca ratios: Systematics and uncertainties in pCO ₂ reconstructions. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 2582-2610.	3.9	36
36	Impacts of Atlantic multidecadal variability on the tropical Pacific: a multi-model study. <i>Npj Climate and Atmospheric Science</i> , 2021, 4, .	6.8	29

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37	European daily precipitation according to EURO-CORDEX regional climate models (RCMs) and high-resolution global climate models (GCMs) from the High-Resolution Model Intercomparison Project (HighResMIP). <i>Geoscientific Model Development</i> , 2020, 13, 5485-5506.	3.6	29
38	Sensitivity of seawater oxygen isotopes to climatic and tectonic boundary conditions in an early Paleogene simulation with GISS ModelE. <i>Paleoceanography</i> , 2011, 26, .	3.0	27
39	Air-Sea interaction over the Gulf Stream in an ensemble of HighResMIP present climate simulations. <i>Climate Dynamics</i> , 2021, 56, 2093-2111.	3.8	25
40	Deep mixed ocean volume in the Labrador Sea in HighResMIP models. <i>Climate Dynamics</i> , 2021, 57, 1895-1918.	3.8	22
41	Impact of increased resolution on long-standing biases in HighResMIP-PRIMAVERA climate models. <i>Geoscientific Model Development</i> , 2022, 15, 269-289.	3.6	22
42	Towards quantifying uncertainty in ocean heat content changes using synthetic profiles. <i>Environmental Research Letters</i> , 2019, 14, 084037.	5.2	20
43	The representation of winter Northern Hemisphere atmospheric blocking in ECMWF seasonal prediction systems. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2021, 147, 1344-1363.	2.7	16
44	Boreal-winter teleconnections with tropical Indo-Pacific rainfall in HighResMIP historical simulations from the PRIMAVERA project. <i>Climate Dynamics</i> , 2020, 55, 1843-1873.	3.8	15
45	The Time-Scale-Dependent Response of the Wintertime North Atlantic to Increased Ocean Model Resolution in a Coupled Forecast Model. <i>Journal of Climate</i> , 2020, 33, 3663-3689.	3.2	15
46	Model-derived Uncertainties in Deep Ocean Temperature Trends Between 1990 and 2010. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 1155-1169.	2.6	13
47	More accuracy with less precision. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2021, 147, 4358-4370.	2.7	13
48	Influence of model resolution on bomb cyclones revealed by HighResMIP-PRIMAVERA simulations. <i>Environmental Research Letters</i> , 2020, 15, 084001.	5.2	12
49	Modeled reconstructions of the oceanic carbonate system for different histories of atmospheric carbon dioxide during the last 20 Ma. <i>Global Biogeochemical Cycles</i> , 2009, 23, .	4.9	11
50	Detectability of changes to the Atlantic meridional overturning circulation in the Hadley Centre Climate Models. <i>Climate Dynamics</i> , 2012, 39, 2533-2546.	3.8	11
51	Detecting a forced signal in satellite-era sea-level change. <i>Environmental Research Letters</i> , 2020, 15, 094079.	5.2	11
52	Coupled climate response to Atlantic Multidecadal Variability in a multi-model multi-resolution ensemble. <i>Climate Dynamics</i> , 2022, 59, 805-836.	3.8	10
53	Extratropical Transition of Tropical Cyclones in a Multiresolution Ensemble of Atmosphere-Only and Fully Coupled Global Climate Models. <i>Journal of Climate</i> , 2022, 35, 5283-5306.	3.2	9
54	A statistical and process-oriented evaluation of cloud radiative effects in high-resolution global models. <i>Geoscientific Model Development</i> , 2019, 12, 1679-1702.	3.6	6

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55	Impact of resolution on the atmosphere–ocean coupling along the Gulf Stream in global high resolution models. <i>Climate Dynamics</i> , 2022, 58, 3317-3333.	3.8	6
56	Re-emergence of North Atlantic subsurface ocean temperature anomalies in a seasonal forecast system. <i>Climate Dynamics</i> , 2019, 53, 4799-4820.	3.8	5
57	Investigating the predictability of North Atlantic sea surface height. <i>Climate Dynamics</i> , 2019, 53, 2175-2195.	3.8	5
58	Hemispheric Impact of North Atlantic SSTs in Subseasonal Forecasts. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL0911446.	4.0	5
59	Past long-term summer warming over western Europe in new generation climate models: role of large-scale atmospheric circulation. <i>Environmental Research Letters</i> , 2020, 15, 084038.	5.2	5