Robin Chadwick

List of Publications by Year
in descending order

40 papers	1,836 citations	304743 22 h-index	276875 41 g-index
52 all docs	52 docs citations	52 times ranked	2630 citing authors

#	Article	IF	Citations
1	Spatial Patterns of Precipitation Change in CMIP5: Why the Rich Do Not Get Richer in the Tropics. Journal of Climate, 2013, 26, 3803-3822.	3.2	303
2	The Cloud Feedback Model Intercomparison Project (CFMIP) contribution to CMIP6. Geoscientific Model Development, 2017, 10, 359-384.	3.6	186
3	Large rainfall changes consistently projected over substantial areas of tropical land. Nature Climate Change, 2016, 6, 177-181.	18.8	181
4	Understanding Uncertainties in Future Projections of Seasonal Tropical Precipitation. Journal of Climate, 2015, 28, 4390-4413.	3.2	135
5	Increasing precipitation variability on daily-to-multiyear time scales in a warmer world. Science Advances, 2021, 7, .	10.3	111
6	Surface warming patterns drive tropical rainfall pattern responses to CO₂ forcing on all timescales. Geophysical Research Letters, 2014, 41, 610-615.	4.0	94
7	Asymmetries in tropical rainfall and circulation patterns in idealised CO2 removal experiments. Climate Dynamics, 2013, 40, 295-316.	3.8	58
8	Nonlinear regional warming with increasing CO2Âconcentrations. Nature Climate Change, 2015, 5, 138-142.	18.8	55
9	A Simple Moisture Advection Model of Specific Humidity Change over Land in Response to SST Warming. Journal of Climate, 2016, 29, 7613-7632.	3.2	52
10	An artificial neural network technique for downscaling GCM outputs to RCM spatial scale. Nonlinear Processes in Geophysics, 2011, 18, 1013-1028.	1.3	46
11	The Role of Plant CO₂ Physiological Forcing in Shaping Future Daily-Scale Precipitation. Journal of Climate, 2017, 30, 2319-2340.	3.2	46
12	Responses of the Tropical Atmospheric Circulation to Climate Change and Connection to the Hydrological Cycle. Annual Review of Earth and Planetary Sciences, 2018, 46, 549-580.	11.0	45
13	Atmospheric Dynamics is the Largest Source of Uncertainty in Future Winter European Rainfall. Journal of Climate, 2018, 31, 963-977.	3.2	41
14	Separating the Influences of Land Warming, the Direct CO₂ Effect, the Plant Physiological Effect, and SST Warming on Regional Precipitation Changes. Journal of Geophysical Research D: Atmospheres, 2019, 124, 624-640.	3.3	40
15	Timeslice experiments for understanding regional climate projections: applications to the tropical hydrological cycle and European winter circulation. Climate Dynamics, 2017, 49, 3011-3029.	3.8	38
16	Which Aspects of CO2 Forcing and SST Warming Cause Most Uncertainty in Projections of Tropical Rainfall Change over Land and Ocean?. Journal of Climate, 2016, 29, 2493-2509.	3.2	37
17	Large differences in regional precipitation change between a first and second 2â€‰K of global warming. Nature Communications, 2016, 7, 13667.	12.8	31
18	Idealized climate change simulations with a highâ€resolution physical model: HadGEM3â€GC2. Journal of Advances in Modeling Earth Systems, 2016, 8, 813-830.	3.8	30

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19	Causes of the Uncertainty in Projections of Tropical Terrestrial Rainfall Change: East Africa. Journal of Climate, 2018, 31, 5977-5995.	3.2	30
20	Assessment of rainfall variability and future change in Brazil across multiple timescales. International Journal of Climatology, 2021, 41, E1875.	3.5	29
21	Future Precipitation Projections over Central and Southern Africa and the Adjacent Indian Ocean: What Causes the Changes and the Uncertainty?. Journal of Climate, 2018, 31, 4807-4826.	3.2	27
22	Understanding nonlinear tropical precipitation responses to CO₂ forcing. Geophysical Research Letters, 2013, 40, 4911-4915.	4.0	24
23	High sensitivity of tropical precipitation to local sea surface temperature. Nature, 2021, 589, 408-414.	27.8	24
24	nonlinMIP contribution to CMIP6: model intercomparison project for non-linear mechanisms: physical basis, experimental design and analysis principles (v1.0). Geoscientific Model Development, 2016, 9, 4019-4028.	3.6	20
25	Landâ€"Ocean Shifts in Tropical Precipitation Linked to Surface Temperature and Humidity Change. Journal of Climate, 2017, 30, 4527-4545.	3.2	20
26	Tropical Rainfall Linked to Stronger Future ENSOâ€NAO Teleconnection in CMIP5 Models. Geophysical Research Letters, 2020, 47, e2020GL088664.	4.0	17
27	Effective Radiative Forcing in a GCM With Fixed Surface Temperatures. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033880.	3.3	17
28	An Artificial Neural Network Approach to Multispectral Rainfall Estimation over Africa. Journal of Hydrometeorology, 2012, 13, 913-931.	1.9	13
29	Diagnosing ENSO and Global Warming Tropical Precipitation Shifts Using Surface Relative Humidity and Temperature. Journal of Climate, 2018, 31, 1413-1433.	3.2	12
30	An ensemble of AMIP simulations with prescribed land surface temperatures. Geoscientific Model Development, 2018, 11, 3865-3881.	3.6	12
31	Surface Warming and Atmospheric Circulation Dominate Rainfall Changes Over Tropical Rainforests Under Global Warming. Geophysical Research Letters, 2019, 46, 13410-13419.	4.0	12
32	Revisiting mechanisms of the Mesoamerican Midsummer drought. Climate Dynamics, 2023, 60, 549-569.	3.8	12
33	Examining the <scp>W</scp>est <scp>A</scp>frican <scp>M</scp>onsoon circulation response to atmospheric heating in a <scp>GCM</scp> dynamical core. Journal of Advances in Modeling Earth Systems, 2017, 9, 149-167.	3.8	6
34	Seasonally variant low cloud adjustment over cool oceans. Climate Dynamics, 2019, 52, 5801-5817.	3.8	5
35	How Do Regional Distributions of Daily Precipitation Change under Warming?. Journal of Climate, 2022, 35, 3243-3260.	3.2	4
36	Diagnosing Changes of Winter NAO in Response to Different Climate Forcings in a Set of Atmosphere-Only Timeslice Experiments. Atmosphere, 2018, 9, 10.	2.3	3

#	Article	IF	Citations
37	Decomposition of projected summer rainfall change over East Asia based on timeslice experiments. Climate Dynamics, 2021, 56, 2531-2549.	3.8	3
38	Sub-tropical drying explained. Nature Climate Change, 2017, 7, 10-11.	18.8	2
39	Conceptual deconstruction of the simulated precipitation response to climate change. Climate Dynamics, 2020, 55, 613-630.	3.8	2
40	Influences of Local and Remote Conditions on Tropical Precipitation and Its Response to Climate Change. Journal of Climate, 2020, 33, 4045-4063.	3.2	2