David P Rowell

List of Publications by Year
in descending order

74 papers	15,906 citations	57758 44 h-index	82547 72 g-index
75 all docs	75 docs citations	75 times ranked	13011 citing authors

#	Article	IF	Citations
1	Global analyses of sea surface temperature, sea ice, and night marine air temperature since the late nineteenth century. Journal of Geophysical Research, 2003, 108, .	3.3	8,242
2	Oceanic forcing of the wintertime North Atlantic Oscillation and European climate. Nature, 1999, 398, 320-323.	27.8	897
3	An intercomparison of regional climate simulations for Europe: assessing uncertainties in model projections. Climatic Change, 2007, 81, 53-70.	3.6	616
4	Selecting CMIP5 GCMs for downscaling over multiple regions. Climate Dynamics, 2015, 44, 3237-3260.	3.8	358
5	Assessing Potential Seasonal Predictability with an Ensemble of Multidecadal GCM Simulations. Journal of Climate, 1998, 11, 109-120.	3.2	327
6	The Impact of Mediterranean SSTs on the Sahelian Rainfall Season. Journal of Climate, 2003, 16, 849-862.	3.2	251
7	Variability of summer rainfall over tropical north Africa (1906â€“92): Observations and modelling. Quarterly Journal of the Royal Meteorological Society, 1995, 121, 669-704.	2.7	249
8	The Met Office Global Coupled model 2.0 (GC2) configuration. Geoscientific Model Development, 2015, 8, 1509-1524.	3.6	234
9	Causes and uncertainty of future summer drying over Europe. Climate Dynamics, 2006, 27, 281-299.	3.8	202
10	Reconciling Past and Future Rainfall Trends over East Africa. Journal of Climate, 2015, 28, 9768-9788.	3.2	187
11	Variability of summer rainfall over tropical north Africa (1906-92): Observations and modelling. Quarterly Journal of the Royal Meteorological Society, 1995, 121, 669-704.	2.7	185
12	Large rainfall changes consistently projected over substantial areas of tropical land. Nature Climate Change, 2016, 6, 177-181.	18.8	181
13	Enhanced future changes in wet and dry extremes over Africa at convection-permitting scale. Nature Communications, 2019, 10, 1794.	12.8	165
14	The Elements of Climate Variability in the Tropical Atlantic Region. Journal of Climate, 2000, 13, 3261-3284.	3.2	163
15	The Atmospheric Response over the North Atlantic to Decadal Changes in Sea Surface Temperature. Journal of Climate, 1999, 12, 2562-2584.	3.2	160
16	Teleconnections between the tropical Pacific and the Sahel. Quarterly Journal of the Royal Meteorological Society, 2001, 127, 1683-1706.	2.7	158
17	Predictability of Northeast Brazil Rainfall and Real-Time Forecast Skill, 1987â€“98. Journal of Climate, 2001, 14, 1937-1958.	3.2	149
18	Variability and Predictability of West African Droughts: A Review on the Role of Sea Surface Temperature Anomalies. Journal of Climate, 2015, 28, 4034-4060.	3.2	148

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19	Progress in regional downscaling of west African precipitation. Atmospheric Science Letters, 2011, 12, 75-82.	1.9	146
20	A scenario of European climate change for the late twenty-first century: seasonal means and interannual variability. Climate Dynamics, 2005, 25, 837-849.	3.8	136
21	Changes in European ecosystem productivity and carbon balance driven by regional climate model output. Global Change Biology, 2007, 13, 108-122.	9.5	135
22	Understanding Uncertainties in Future Projections of Seasonal Tropical Precipitation. Journal of Climate, 2015, 28, 4390-4413.	3.2	135
23	On the predictability of the interannual behaviour of the Madden-Julian Oscillation and its relationship with El NiÃ±o. Quarterly Journal of the Royal Meteorological Society, 1999, 125, 583-609.	2.7	134
24	Sensitivity of Twentieth-Century Sahel Rainfall to Sulfate Aerosol and CO₂ Forcing. Journal of Climate, 2011, 24, 4999-5014.	3.2	125
25	Robustness of Future Changes in Local Precipitation Extremes. Journal of Climate, 2008, 21, 4280-4297.	3.2	123
26	Intercomparison and analyses of the climatology of the West African Monsoon in the West African Monsoon Modeling and Evaluation project (WAMME) first model intercomparison experiment. Climate Dynamics, 2010, 35, 3-27.	3.8	123
27	On the Generation of African Squall Lines. Journal of Climate, 1993, 6, 1181-1193.	3.2	101
28	Modelling the influence of global sea surface temperatures on the variability and predictability of seasonal Sahel rainfall. Geophysical Research Letters, 1992, 19, 905-908.	4.0	97
29	On the predictability of the interannual behaviour of the Madden-Julian oscillation and its relationship with el Ni??o. Quarterly Journal of the Royal Meteorological Society, 1999, 125, 583-609.	2.7	97
30	Simulating SST Teleconnections to Africa: What is the State of the Art?. Journal of Climate, 2013, 26, 5397-5418.	3.2	85
31	The WAMME regional model intercomparison study. Climate Dynamics, 2010, 35, 175-192.	3.8	84
32	Sources of uncertainty in future changes in local precipitation. Climate Dynamics, 2012, 39, 1929-1950.	3.8	83
33	â€˜Eastern African Paradoxâ€™ rainfall decline due to shorter not less intense Long Rains. Npj Climate and Atmospheric Science, 2019, 2, .	6.8	83
34	Skilful prediction of Sahel summer rainfall on inter-annual and multi-year timescales. Nature Communications, 2017, 8, 14966.	12.8	82
35	A Demonstration of the Uncertainty in Projections of UK Climate Change Resulting from Regional Model Formulation. Climatic Change, 2006, 79, 243-257.	3.6	76
36	North Atlantic and European seasonal predictability using an ensemble of multidecadal atmospheric GCM simulations. International Journal of Climatology, 1997, 17, 1263-1284.	3.5	75

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37	The influence of soil wetness distribution on short-range rainfall forecasting in the West African Sahel. Quarterly Journal of the Royal Meteorological Society, 1990, 116, 1471-1485.	2.7	70
38	Changes in climate extremes over West and Central Africa at 1.5â€‰Â°C and 2â€‰Â°C global warming. Environmental Research Letters, 2018, 13, 065020.	5.2	70
39	Teleconnections between Ethiopian rainfall variability and global SSTs: observations and methods for model evaluation. Meteorology and Atmospheric Physics, 2017, 129, 173-186.	2.0	69
40	Mechanisms and reliability of future projected changes in daily precipitation. Climate Dynamics, 2010, 35, 489-509.	3.8	55
41	Implications of global warming for the climate of African rainforests. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20120298.	4.0	54
42	Can climate projection uncertainty be constrained over Africa using metrics of contemporary performance?. Climatic Change, 2016, 134, 621-633.	3.6	54
43	Influences of anthropogenic and oceanic forcing on recent climate change. Geophysical Research Letters, 1998, 25, 353-356.	4.0	51
44	Impact of soil moisture initialisation and lateral boundary conditions on regional climate model simulations of the West African Monsoon. Climate Dynamics, 2010, 35, 213-229.	3.8	47
45	Implications of Improved Representation of Convection for the East Africa Water Budget Using a Convection-Permitting Model. Journal of Climate, 2019, 32, 2109-2129.	3.2	47
46	Improved climatological precipitation characteristics over West Africa at convection-permitting scales. Climate Dynamics, 2019, 53, 1991-2011.	3.8	44
47	What Drives the Intensification of Mesoscale Convective Systems over the West African Sahel under Climate Change?. Journal of Climate, 2020, 33, 3151-3172.	3.2	42
48	Wintertime Low-Frequency Weather Variability in the North Pacificâ€“American Sector 1949â€“93. Journal of Climate, 1998, 11, 1073-1093.	3.2	40
49	Interannual variability of African wave activity in a general circulation model. International Journal of Climatology, 1998, 18, 1305-1323.	3.5	37
50	Effects of Explicit Convection on Future Projections of Mesoscale Circulations, Rainfall, and Rainfall Extremes over Eastern Africa. Journal of Climate, 2020, 33, 2701-2718.	3.2	36
51	Causes of the Uncertainty in Projections of Tropical Terrestrial Rainfall Change: East Africa. Journal of Climate, 2018, 31, 5977-5995.	3.2	30
52	Detection of anthropogenic climate change using an atmospheric GCM. Climate Dynamics, 2001, 17, 669-685.	3.8	29
53	The global distribution of sources of atmospheric decadal variability and mechanisms over the tropical Pacific and southern North America. Climate Dynamics, 1999, 15, 751-772.	3.8	26
54	Projected Midlatitude Continental Summer Drying: North America versus Europe. Journal of Climate, 2009, 22, 2813-2833.	3.2	26

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55	Larger Future Intensification of Rainfall in the West African Sahel in a Convectionâ€Permitting Model. Geophysical Research Letters, 2019, 46, 13299-13307.	4.0	26
56	Convection-Permitting Regional Climate Change Simulations for Understanding Future Climate and Informing Decision-Making in Africa. Bulletin of the American Meteorological Society, 2021, 102, E1206-E1223.	3.3	26
57	Multidecadal Simulations of Australian Rainfall Variability: The Role of SSTs. Journal of Climate, 1999, 12, 357-379.	3.2	26
58	Experimental Seasonal Forecasting of Tropical Rainfall at the UK Meteorological Office. , 1993, , 197-216.		25
59	African Climate Change Uncertainty in Perturbed Physics Ensembles: Implications of Global Warming to 4Â°C and Beyond*. Journal of Climate, 2014, 27, 4677-4692.	3.2	23
60	Future changes and uncertainty in decision-relevant measures of East African climate. Climatic Change, 2019, 156, 365-384.	3.6	21
61	The Influence of Remote Aerosol Forcing from Industrialized Economies on the Future Evolution of East and West African Rainfall. Journal of Climate, 2019, 32, 8335-8354.	3.2	21
62	An Observational Constraint on CMIP5 Projections of the East African Long Rains and Southern Indian Ocean Warming. Geophysical Research Letters, 2019, 46, 6050-6058.	4.0	21
63	Understanding uncertainty in future projections for the tropical Atlantic: relationships with the unforced climate. Climate Dynamics, 2009, 32, 205-218.	3.8	16
64	How a typical West African day in the future-climate compares with current-climate conditions in a convection-permitting and parameterised convection climate model. Climatic Change, 2020, 163, 267-296.	3.6	11
65	Combining CMIP data with a regional convection-permitting model and observations to project extreme rainfall under climate change. Environmental Research Letters, 2021, 16, 104023.	5.2	11
66	Reply to comments by Y. C. Sud and W. K.-M. Lau on â€˜Variability of summer rainfall over tropical north Africa (1906â€“92): Observations and modellingâ€™ by D. P. Rowell, C. K. Folland, K. Maskell and M. N. Ward (April A, 1995,121, 669â€“704) Further analysis of simulated interdecadal and interannual variability of summer rainfall over tropical north Africa. Quarterly Journal of the Royal Meteorological Society, 1996, 122, 1007-1013.	2.7	7
67	Understanding mechanisms for trends in Sahelian squall lines: Roles of thermodynamics and shear. Quarterly Journal of the Royal Meteorological Society, 2021, 147, 983-1006.	2.7	5
68	Teleconnections between the tropical Pacific and the Sahel. Quarterly Journal of the Royal Meteorological Society, 2001, 127, 1683-1706.	2.7	5
69	The future-climate, current-policy framework: towards an approach linking climate science to sector policy development. Environmental Research Letters, 2020, 15, 114037.	5.2	5
70	Tailored climate projections to assess site-specific vulnerability of tea production. Climate Risk Management, 2021, 34, 100367.	3.2	4
71	Understanding Intermodel Variability in Future Projections of a Sahelian Storm Proxy and Southern Saharan Warming. Journal of Climate, 2021, 34, 509-525.	3.2	4
72	The Effect of Explicit Convection on Climate Change in the West African Monsoon and Central West African Sahel Rainfall. Journal of Climate, 2022, 35, 1537-1557.	3.2	3

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73	High-impact weather and urban flooding in the West African Sahel â€“ A multidisciplinary case study of the 2009 event in Ouagadougou. Weather and Climate Extremes, 2022, 36, 100462.	4.1	3
74	Climate Information: Towards Transparent Distillation. , 2021, , 17-35.		2