David P Rowell

List of Publications by Year
in descending order

74 papers	15,906 citations	57719 44 h-index	82499 72 g-index
75 all docs	75 docs citations	75 times ranked	13011 citing authors

#	Article	IF	Citations
1	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.	1.2	3
2	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.	1.6	3
3	Understanding mechanisms for trends in Sahelian squall lines: Roles of thermodynamics and shear. Quarterly Journal of the Royal Meteorological Society, 2021, 147, 983-1006.	1.0	5
4	Tailored climate projections to assess site-specific vulnerability of tea production. Climate Risk Management, 2021, 34, 100367.	1.5	4
5	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.	1.7	26
6	Combining CMIP data with a regional convection-permitting model and observations to project extreme rainfall under climate change. Environmental Research Letters, 2021, 16, 104023.	2.2	11
7	Climate Information: Towards Transparent Distillation. , 2021, , 17-35.		2
8	Understanding Intermodel Variability in Future Projections of a Sahelian Storm Proxy and Southern Saharan Warming. Journal of Climate, 2021, 34, 509-525.	1.2	4
9	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.	1.7	11
10	What Drives the Intensification of Mesoscale Convective Systems over the West African Sahel under Climate Change?. Journal of Climate, 2020, 33, 3151-3172.	1.2	42
11	Effects of Explicit Convection on Future Projections of Mesoscale Circulations, Rainfall, and Rainfall Extremes over Eastern Africa. Journal of Climate, 2020, 33, 2701-2718.	1.2	36
12	The future-climate, current-policy framework: towards an approach linking climate science to sector policy development. Environmental Research Letters, 2020, 15, 114037.	2.2	5
13	Future changes and uncertainty in decision-relevant measures of East African climate. Climatic Change, 2019, 156, 365-384.	1.7	21
14	Improved climatological precipitation characteristics over West Africa at convection-permitting scales. Climate Dynamics, 2019, 53, 1991-2011.	1.7	44
15	â€˜Eastern African Paradoxâ€™ rainfall decline due to shorter not less intense Long Rains. Npj Climate and Atmospheric Science, 2019, 2, .	2.6	83
16	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.	1.2	21
17	An Observational Constraint on CMIP5 Projections of the East African Long Rains and Southern Indian Ocean Warming. Geophysical Research Letters, 2019, 46, 6050-6058.	1.5	21
18	Enhanced future changes in wet and dry extremes over Africa at convection-permitting scale. Nature Communications, 2019, 10, 1794.	5.8	165

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19	Implications of Improved Representation of Convection for the East Africa Water Budget Using a Convection-Permitting Model. Journal of Climate, 2019, 32, 2109-2129.	1.2	47
20	Larger Future Intensification of Rainfall in the West African Sahel in a Convectionâ€Permitting Model. Geophysical Research Letters, 2019, 46, 13299-13307.	1.5	26
21	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.	2.2	70
22	Causes of the Uncertainty in Projections of Tropical Terrestrial Rainfall Change: East Africa. Journal of Climate, 2018, 31, 5977-5995.	1.2	30
23	Skilful prediction of Sahel summer rainfall on inter-annual and multi-year timescales. Nature Communications, 2017, 8, 14966.	5.8	82
24	Teleconnections between Ethiopian rainfall variability and global SSTs: observations and methods for model evaluation. Meteorology and Atmospheric Physics, 2017, 129, 173-186.	0.9	69
25	Can climate projection uncertainty be constrained over Africa using metrics of contemporary performance?. Climatic Change, 2016, 134, 621-633.	1.7	54
26	Large rainfall changes consistently projected over substantial areas of tropical land. Nature Climate Change, 2016, 6, 177-181.	8.1	181
27	The Met Office Global Coupled model 2.0 (GC2) configuration. Geoscientific Model Development, 2015, 8, 1509-1524.	1.3	234
28	Understanding Uncertainties in Future Projections of Seasonal Tropical Precipitation. Journal of Climate, 2015, 28, 4390-4413.	1.2	135
29	Selecting CMIP5 GCMs for downscaling over multiple regions. Climate Dynamics, 2015, 44, 3237-3260.	1.7	358
30	Variability and Predictability of West African Droughts: A Review on the Role of Sea Surface Temperature Anomalies. Journal of Climate, 2015, 28, 4034-4060.	1.2	148
31	Reconciling Past and Future Rainfall Trends over East Africa. Journal of Climate, 2015, 28, 9768-9788.	1.2	187
32	African Climate Change Uncertainty in Perturbed Physics Ensembles: Implications of Global Warming to 4Â°C and Beyond*. Journal of Climate, 2014, 27, 4677-4692.	1.2	23
33	Implications of global warming for the climate of African rainforests. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20120298.	1.8	54
34	Simulating SST Teleconnections to Africa: What is the State of the Art?. Journal of Climate, 2013, 26, 5397-5418.	1.2	85
35	Sources of uncertainty in future changes in local precipitation. Climate Dynamics, 2012, 39, 1929-1950.	1.7	83
36	Progress in regional downscaling of west African precipitation. Atmospheric Science Letters, 2011, 12, 75-82.	0.8	146

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37	Sensitivity of Twentieth-Century Sahel Rainfall to Sulfate Aerosol and CO₂ Forcing. Journal of Climate, 2011, 24, 4999-5014.	1.2	125
38	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.	1.7	47
39	Mechanisms and reliability of future projected changes in daily precipitation. Climate Dynamics, 2010, 35, 489-509.	1.7	55
40	The WAMME regional model intercomparison study. Climate Dynamics, 2010, 35, 175-192.	1.7	84
41	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.	1.7	123
42	Projected Midlatitude Continental Summer Drying: North America versus Europe. Journal of Climate, 2009, 22, 2813-2833.	1.2	26
43	Understanding uncertainty in future projections for the tropical Atlantic: relationships with the unforced climate. Climate Dynamics, 2009, 32, 205-218.	1.7	16
44	Robustness of Future Changes in Local Precipitation Extremes. Journal of Climate, 2008, 21, 4280-4297.	1.2	123
45	Changes in European ecosystem productivity and carbon balance driven by regional climate model output. Global Change Biology, 2007, 13, 108-122.	4.2	135
46	An intercomparison of regional climate simulations for Europe: assessing uncertainties in model projections. Climatic Change, 2007, 81, 53-70.	1.7	616
47	A Demonstration of the Uncertainty in Projections of UK Climate Change Resulting from Regional Model Formulation. Climatic Change, 2006, 79, 243-257.	1.7	76
48	Causes and uncertainty of future summer drying over Europe. Climate Dynamics, 2006, 27, 281-299.	1.7	202
49	A scenario of European climate change for the late twenty-first century: seasonal means and interannual variability. Climate Dynamics, 2005, 25, 837-849.	1.7	136
50	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
51	The Impact of Mediterranean SSTs on the Sahelian Rainfall Season. Journal of Climate, 2003, 16, 849-862.	1.2	251
52	Detection of anthropogenic climate change using an atmospheric GCM. Climate Dynamics, 2001, 17, 669-685.	1.7	29
53	Teleconnections between the tropical Pacific and the Sahel. Quarterly Journal of the Royal Meteorological Society, 2001, 127, 1683-1706.	1.0	158
54	Predictability of Northeast Brazil Rainfall and Real-Time Forecast Skill, 1987â€“98. Journal of Climate, 2001, 14, 1937-1958.	1.2	149

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55	Teleconnections between the tropical Pacific and the Sahel. Quarterly Journal of the Royal Meteorological Society, 2001, 127, 1683-1706.	1.0	5
56	The Elements of Climate Variability in the Tropical Atlantic Region. Journal of Climate, 2000, 13, 3261-3284.	1.2	163
57	The Atmospheric Response over the North Atlantic to Decadal Changes in Sea Surface Temperature. Journal of Climate, 1999, 12, 2562-2584.	1.2	160
58	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.	1.0	97
59	Oceanic forcing of the wintertime North Atlantic Oscillation and European climate. Nature, 1999, 398, 320-323.	13.7	897
60	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.	1.7	26
61	Multidecadal Simulations of Australian Rainfall Variability: The Role of SSTs. Journal of Climate, 1999, 12, 357-379.	1.2	26
62	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.	1.0	134
63	Interannual variability of African wave activity in a general circulation model. International Journal of Climatology, 1998, 18, 1305-1323.	1.5	37
64	Influences of anthropogenic and oceanic forcing on recent climate change. Geophysical Research Letters, 1998, 25, 353-356.	1.5	51
65	Wintertime Low-Frequency Weather Variability in the North Pacificâ€“American Sector 1949â€“93. Journal of Climate, 1998, 11, 1073-1093.	1.2	40
66	Assessing Potential Seasonal Predictability with an Ensemble of Multidecadal GCM Simulations. Journal of Climate, 1998, 11, 109-120.	1.2	327
67	North Atlantic and European seasonal predictability using an ensemble of multidecadal atmospheric GCM simulations. International Journal of Climatology, 1997, 17, 1263-1284.	1.5	75
68	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.	1.0	7
69	Variability of summer rainfall over tropical north Africa (1906â€“92): Observations and modelling. Quarterly Journal of the Royal Meteorological Society, 1995, 121, 669-704.	1.0	249
70	Variability of summer rainfall over tropical north Africa (1906-92): Observations and modelling. Quarterly Journal of the Royal Meteorological Society, 1995, 121, 669-704.	1.0	185
71	On the Generation of African Squall Lines. Journal of Climate, 1993, 6, 1181-1193.	1.2	101
72	Experimental Seasonal Forecasting of Tropical Rainfall at the UK Meteorological Office. , 1993, , 197-216.		25

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73	Modelling the influence of global sea surface temperatures on the variability and predictability of seasonal Sahel rainfall. Geophysical Research Letters, 1992, 19, 905-908.	1.5	97
74	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.	1.0	70