Bruce C Hewitson

List of Publications by Year
in descending order

75 papers	7,832 citations	94269 37 h-index	79541 73 g-index
82 all docs	82 docs citations	82 times ranked	7432 citing authors

#	Article	IF	Citations
1	Updated analyses of temperature and precipitation extreme indices since the beginning of the twentieth century: The HadEX2 dataset. Journal of Geophysical Research D: Atmospheres, 2013, 118, 2098-2118.	1.2	1,029
2	Statistical downscaling of general circulation model output: A comparison of methods. Water Resources Research, 1998, 34, 2995-3008.	1.7	668
3	Climate downscaling: techniques and application. Climate Research, 1996, 7, 85-95.	0.4	544
4	Evidence of trends in daily climate extremes over southern and west Africa. Journal of Geophysical Research, 2006, 111, .	3.3	499
5	Self-organizing maps: applications to synoptic climatology. Climate Research, 2002, 22, 13-26.	0.4	483
6	Adaptation to climate change and variability: farmer responses to intra-seasonal precipitation trends in South Africa. Climatic Change, 2007, 83, 301-322.	1.7	450
7	Consensus between GCM climate change projections with empirical downscaling: precipitation downscaling over South Africa. International Journal of Climatology, 2006, 26, 1315-1337.	1.5	354
8	A review of climate risk information for adaptation and development planning. International Journal of Climatology, 2009, 29, 1193-1215.	1.5	231
9	Assessment of the Performance of CORDEX Regional Climate Models in Simulating East African Rainfall. Journal of Climate, 2013, 26, 8453-8475.	1.2	203
10	Doubled CO2 precipitation changes for the Susquehanna Basin: down-scaling from the Genesis general circulation model. International Journal of Climatology, 1998, 18, 65-76.	1.5	181
11	Relative Performance of Self-Organizing Maps and Principal Component Analysis in Pattern Extraction from Synthetic Climatological Data. Polar Geography, 2005, 29, 188-212.	0.8	167
12	Evaluation of the CORDEX-Africa multi-RCM hindcast: systematic model errors. Climate Dynamics, 2014, 42, 1189-1202.	1.7	165
13	Climatology, annual cycle and interannual variability of precipitation and temperature in <scp>CORDEX</scp> simulations over West Africa. International Journal of Climatology, 2014, 34, 2241-2257.	1.5	161
14	Wet and dry spells within particularly wet and dry summers in the South African summer rainfall region. Climate Research, 2004, 26, 17-31.	0.4	155
15	What can we know about future precipitation in Africa? Robustness, significance and added value of projections from a large ensemble of regional climate models. Climate Dynamics, 2019, 53, 5833-5858.	1.7	137
16	The Interannual Variability of the Onset of the Maize Growing Season over South Africa and Zimbabwe. Journal of Climate, 2005, 18, 3356-3372.	1.2	131
17	Emerging patterns of simulated regional climatic changes for the 21st century due to anthropogenic forcings. Geophysical Research Letters, 2001, 28, 3317-3320.	1.5	129
18	Interrogating empirical-statistical downscaling. Climatic Change, 2014, 122, 539-554.	1.7	121

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19	On RCM-based projections of change in southern African summer climate. Geophysical Research Letters, 2005, 32, .	1.5	119
20	North Atlantic climate variability from a self-organizing map perspective. Journal of Geophysical Research, 2007, 112, .	3.3	110
21	A Diagnostic Evaluation of Precipitation in CORDEX Models over Southern Africa. Journal of Climate, 2013, 26, 9477-9506.	1.2	107
22	Daily characteristics of West African summer monsoon precipitation in CORDEX simulations. Theoretical and Applied Climatology, 2016, 123, 369-386.	1.3	94
23	Evaluation and projections of extreme precipitation over southern Africa from two CORDEX models. Climatic Change, 2016, 135, 655-668.	1.7	91
24	Intra-seasonal rainfall characteristics and their importance to the seasonal prediction problem. International Journal of Climatology, 2002, 22, 1033-1048.	1.5	85
25	Future changes in rainfall associated with ENSO, IOD and changes in the mean state over Eastern Africa. Climate Dynamics, 2019, 52, 2029-2053.	1.7	83
26	Largeâ€scale atmospheric controls on local precipitation in tropical Mexico. Geophysical Research Letters, 1992, 19, 1835-1838.	1.5	76
27	Cut-off Lows in the South Africa region and their contribution to precipitation. Climate Dynamics, 2013, 41, 2331-2351.	1.7	75
28	Simulating present and future climates of southern Africa using general circulation models. Progress in Physical Geography, 1997, 21, 51-78.	1.4	74
29	Teleconnection responses in multi-GCM driven CORDEX RCMs over Eastern Africa. Climate Dynamics, 2016, 46, 2821-2846.	1.7	72
30	Gridded Area-Averaged Daily Precipitation via Conditional Interpolation. Journal of Climate, 2005, 18, 41-57.	1.2	68
31	Namaqualand's climate: Recent historical changes and future scenarios. Journal of Arid Environments, 2007, 70, 604-614.	1.2	62
32	MM5 simulations of interannual change and the diurnal cycle of southern African regional climate. Theoretical and Applied Climatology, 2006, 86, 63-80.	1.3	49
33	Attribution of floods in the Okavango basin, Southern Africa. Journal of Hydrology, 2014, 511, 350-358.	2.3	49
34	Clustering and upscaling of station precipitation records to regional patterns using self-organizing maps (SOMs). Climate Research, 2003, 25, 95-107.	0.4	48
35	A tale of two futures: contrasting scenarios of future precipitation for West Africa from an ensemble of regional climate models. Environmental Research Letters, 2020, 15, 064007.	2.2	44
36	Spatial distribution of precipitation annual cycles over South Africa in 10 CORDEX regional climate model present-day simulations. Climate Dynamics, 2016, 46, 1799-1818.	1.7	41

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37	Climate information websites: an evolving landscape. Wiley Interdisciplinary Reviews: Climate Change, 2017, 8, e470.	3.6	39
38	Towards ice-core-based synoptic reconstructions of west antarctic climate with artificial neural networks. International Journal of Climatology, 2005, 25, 581-610.	1.5	36
39	Processâ€based model evaluation and projections over southern Africa from Coordinated Regional Climate Downscaling Experiment and Coupled Model Intercomparison Project Phase 5 models. International Journal of Climatology, 2018, 38, 4251-4261.	1.5	36
40	Developing perturbations for Climate Change Impact Assessments. Eos, 2003, 84, 337.	0.1	34
41	Response of southern African vegetation to climate change at 1.5 and 2.0Â° global warming above the pre-industrial level. Climate Services, 2019, 16, 100134.	1.0	34
42	Regional Climates in the GISS Global Circulation Model: Synoptic-Scale Circulation. Journal of Climate, 1992, 5, 1002-1011.	1.2	33
43	Relationships between cut-off lows and the semiannual and southern oscillations. Climate Dynamics, 2012, 38, 1473-1487.	1.7	33
44	Co-exploratory climate risk workshops: Experiences from urban Africa. Climate Risk Management, 2016, 13, 95-102.	1.6	33
45	The Vulnerability, Impacts, Adaptation and Climate Services Advisory Board (VIACS AB v1.0) contribution to CMIP6. Geoscientific Model Development, 2016, 9, 3493-3515.	1.3	31
46	Regional-scale climate prediction from the GISS GCM. Palaeogeography, Palaeoclimatology, Palaeoecology, 1992, 97, 249-267.	1.0	30
47	The role of regional climate projections in managing complex socio-ecological systems. Regional Environmental Change, 2015, 15, 1-12.	1.4	28
48	Regional Climates in the GISS General Circulation Model: Surface Air Temperature. Journal of Climate, 1994, 7, 283-303.	1.2	27
49	On the suitability of using vegetation indices to monitor the response of Africa's terrestrial ecoregions to drought. Science of the Total Environment, 2021, 792, 148282.	3.9	23
50	The observed and model-simulated response of southern African vegetation to drought. Agricultural and Forest Meteorology, 2019, 279, 107698.	1.9	22
51	Effects of vegetation map change in MM5 simulations of southern Africa's summer climate. International Journal of Climatology, 2009, 29, 885-898.	1.5	21
52	Towards bridging the gap between climate change projections and maize producers in South Africa. Theoretical and Applied Climatology, 2018, 132, 1153-1163.	1.3	19
53	Projected future runoff of the Breede River under climate change. Water S A, 2009, 35, .	0.2	17
54	Interpreting self-organizing maps through spaceâ€“time data models. Annals of Applied Statistics, 2008, 2, .	0.5	16

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55	Scale Interactions and Regional Climate: Examples from the Susquehanna River Basin. Human and Ecological Risk Assessment (HERA), 2002, 8, 147-158.	1.7	14
56	To build capacity, build confidence. Nature Geoscience, 2015, 8, 497-499.	5.4	13
57	Evaluation of two GCMs in simulating rainfall inter-annual variability over Southern Africa. Theoretical and Applied Climatology, 2016, 123, 415-436.	1.3	13
58	Synopticâ€based evaluation of climatic response to vegetation change over southern Africa. International Journal of Climatology, 2010, 30, 774-789.	1.5	12
59	Cloud computing and virtualization within the regional climate model and evaluation system. Earth Science Informatics, 2014, 7, 1-12.	1.6	11
60	Understanding the Links Between Climate Change Risk Perceptions and the Action Response to Inform Climate Services Interventions. Risk Analysis, 2021, 41, 1873-1889.	1.5	10
61	Precipitation Controls in Southern Mexico. Geospatial Technology and the Role of Location in Science, 1994, , 121-143.	0.2	10
62	Regional-scale climate prediction from the GISS GCM. Global and Planetary Change, 1992, 5, 249-267.	1.6	8
63	The coupling of cloud base height and surface fluxes: a transferability intercomparison. Theoretical and Applied Climatology, 2011, 106, 189-210.	1.3	8
64	Downscaled Climate Change Projections for Wa District in the Savanna Zone of Ghana. Journal of Disaster Research, 2014, 9, 422-431.	0.4	8
65	A Methodological Approach to Assess the Co-Behavior of Climate Processes over Southern Africa. Journal of Climate, 2019, 32, 2483-2495.	1.2	7
66	INTRODUCTIONÂ Crossing thresholds in regional climate research: synthesis of the IPCC expert meeting on regional impacts, adaptation, vulnerability, and mitigation Neil Leary1,*, Kristen Averyt2, Bruce Hewitson3, Jose Marengo4. Climate Research, 2009, 40, 121-131.	0.4	7
67	Adaptation to Climate Change and Variability: Farmer Responses to Intra-seasonal Precipitation Trends in South Africa. Advances in Global Change Research, 2011, , 155-178.	1.6	6
68	Investigating the response of leaf area index to droughts in southern African vegetation using observations and model simulations. Hydrology and Earth System Sciences, 2022, 26, 2045-2071.	1.9	5
69	REGIONALISATION OF DAILY PRECIPITATION IN BOTSWANA 1972â€“1989. Southern African Geographical Journal, 1995, 77, 51-55.	0.9	4
70	Understanding and Predicting Climate Variability and Change at Monsoon Regions. , 2013, , 273-306.		4
71	Self Organizing Maps â€” Application to Census Data. Geospatial Technology and the Role of Location in Science, 1994, , 71-77.	0.2	4
72	Using Co-Behavior Analysis to Interrogate the Performance of CMIP5 GCMs over Southern Africa. Journal of Climate, 2020, 33, 2891-2905.	1.2	3

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73	A simple set of indices describing the Tropical Rain Belt over central and southern Africa. Atmospheric Science Letters, 2019, 20, e946.	0.8	2
74	Climate with care. New Scientist, 2007, 193, 27.	0.0	0
75	Climate Change Projections in Africa. , 2015, , 59-75.		0