

Bruce C Hewitson

List of Publications by Year in descending order

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Version: 2024-02-01

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	Investigating the response of leaf area index to droughts in southern African vegetation using observations and model simulations. <i>Hydrology and Earth System Sciences</i> , 2022, 26, 2045-2071.	1.9	5
2	Understanding the Links Between Climate Change Risk Perceptions and the Action Response to Inform Climate Services Interventions. <i>Risk Analysis</i> , 2021, 41, 1873-1889.	1.5	10
3	On the suitability of using vegetation indices to monitor the response of Africa's terrestrial ecoregions to drought. <i>Science of the Total Environment</i> , 2021, 792, 148282.	3.9	23
4	A tale of two futures: contrasting scenarios of future precipitation for West Africa from an ensemble of regional climate models. <i>Environmental Research Letters</i> , 2020, 15, 064007.	2.2	44
5	Using Co-Behavior Analysis to Interrogate the Performance of CMIP5 GCMs over Southern Africa. <i>Journal of Climate</i> , 2020, 33, 2891-2905.	1.2	3
6	Future changes in rainfall associated with ENSO, IOD and changes in the mean state over Eastern Africa. <i>Climate Dynamics</i> , 2019, 52, 2029-2053.	1.7	83
7	The observed and model-simulated response of southern African vegetation to drought. <i>Agricultural and Forest Meteorology</i> , 2019, 279, 107698.	1.9	22
8	What can we know about future precipitation in Africa? Robustness, significance and added value of projections from a large ensemble of regional climate models. <i>Climate Dynamics</i> , 2019, 53, 5833-5858.	1.7	137
9	A Methodological Approach to Assess the Co-Behavior of Climate Processes over Southern Africa. <i>Journal of Climate</i> , 2019, 32, 2483-2495.	1.2	7
10	Response of southern African vegetation to climate change at 1.5 and 2.0°C global warming above the pre-industrial level. <i>Climate Services</i> , 2019, 16, 100134.	1.0	34
11	A simple set of indices describing the Tropical Rain Belt over central and southern Africa. <i>Atmospheric Science Letters</i> , 2019, 20, e946.	0.8	2
12	Towards bridging the gap between climate change projections and maize producers in South Africa. <i>Theoretical and Applied Climatology</i> , 2018, 132, 1153-1163.	1.3	19
13	Process-based model evaluation and projections over southern Africa from Coordinated Regional Climate Downscaling Experiment and Coupled Model Intercomparison Project Phase 5 models. <i>International Journal of Climatology</i> , 2018, 38, 4251-4261.	1.5	36
14	Climate information websites: an evolving landscape. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2017, 8, e470.	3.6	39
15	The Vulnerability, Impacts, Adaptation and Climate Services Advisory Board (VIACS AB v1.0) contribution to CMIP6. <i>Geoscientific Model Development</i> , 2016, 9, 3493-3515.	1.3	31
16	Co-exploratory climate risk workshops: Experiences from urban Africa. <i>Climate Risk Management</i> , 2016, 13, 95-102.	1.6	33
17	Teleconnection responses in multi-GCM driven CORDEX RCMs over Eastern Africa. <i>Climate Dynamics</i> , 2016, 46, 2821-2846.	1.7	72
18	Daily characteristics of West African summer monsoon precipitation in CORDEX simulations. <i>Theoretical and Applied Climatology</i> , 2016, 123, 369-386.	1.3	94

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19	Spatial distribution of precipitation annual cycles over South Africa in 10 CORDEX regional climate model present-day simulations. <i>Climate Dynamics</i> , 2016, 46, 1799-1818.	1.7	41
20	Evaluation and projections of extreme precipitation over southern Africa from two CORDEX models. <i>Climatic Change</i> , 2016, 135, 655-668.	1.7	91
21	Evaluation of two GCMs in simulating rainfall inter-annual variability over Southern Africa. <i>Theoretical and Applied Climatology</i> , 2016, 123, 415-436.	1.3	13
22	To build capacity, build confidence. <i>Nature Geoscience</i> , 2015, 8, 497-499.	5.4	13
23	The role of regional climate projections in managing complex socio-ecological systems. <i>Regional Environmental Change</i> , 2015, 15, 1-12.	1.4	28
24	Climate Change Projections in Africa. , 2015, , 59-75.		0
25	Cloud computing and virtualization within the regional climate model and evaluation system. <i>Earth Science Informatics</i> , 2014, 7, 1-12.	1.6	11
26	Evaluation of the CORDEX-Africa multi-RCM hindcast: systematic model errors. <i>Climate Dynamics</i> , 2014, 42, 1189-1202.	1.7	165
27	Attribution of floods in the Okavango basin, Southern Africa. <i>Journal of Hydrology</i> , 2014, 511, 350-358.	2.3	49
28	Interrogating empirical-statistical downscaling. <i>Climatic Change</i> , 2014, 122, 539-554.	1.7	121
29	Climatology, annual cycle and interannual variability of precipitation and temperature in <scp>CORDEX</scp> simulations over West Africa. <i>International Journal of Climatology</i> , 2014, 34, 2241-2257.	1.5	161
30	Downscaled Climate Change Projections for Wa District in the Savanna Zone of Ghana. <i>Journal of Disaster Research</i> , 2014, 9, 422-431.	0.4	8
31	Cut-off Lows in the South Africa region and their contribution to precipitation. <i>Climate Dynamics</i> , 2013, 41, 2331-2351.	1.7	75
32	Updated analyses of temperature and precipitation extreme indices since the beginning of the twentieth century: The HadEX2 dataset. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 2098-2118.	1.2	1,029
33	A Diagnostic Evaluation of Precipitation in CORDEX Models over Southern Africa. <i>Journal of Climate</i> , 2013, 26, 9477-9506.	1.2	107
34	Assessment of the Performance of CORDEX Regional Climate Models in Simulating East African Rainfall. <i>Journal of Climate</i> , 2013, 26, 8453-8475.	1.2	203
35	Understanding and Predicting Climate Variability and Change at Monsoon Regions. , 2013, , 273-306.		4
36	Relationships between cut-off lows and the semiannual and southern oscillations. <i>Climate Dynamics</i> , 2012, 38, 1473-1487.	1.7	33

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37	The coupling of cloud base height and surface fluxes: a transferability intercomparison. Theoretical and Applied Climatology, 2011, 106, 189-210.	1.3	8
38	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
39	Synoptic-based evaluation of climatic response to vegetation change over southern Africa. International Journal of Climatology, 2010, 30, 774-789.	1.5	12
40	Projected future runoff of the Breede River under climate change. Water S A, 2009, 35, .	0.2	17
41	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
42	A review of climate risk information for adaptation and development planning. International Journal of Climatology, 2009, 29, 1193-1215.	1.5	231
43	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
44	Interpreting self-organizing maps through space-time data models. Annals of Applied Statistics, 2008, 2, .	0.5	16
45	Namaqualand's climate: Recent historical changes and future scenarios. Journal of Arid Environments, 2007, 70, 604-614.	1.2	62
46	Climate with care. New Scientist, 2007, 193, 27.	0.0	0
47	North Atlantic climate variability from a self-organizing map perspective. Journal of Geophysical Research, 2007, 112, .	3.3	110
48	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
49	Evidence of trends in daily climate extremes over southern and west Africa. Journal of Geophysical Research, 2006, 111, .	3.3	499
50	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
51	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
52	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
53	Gridded Area-Averaged Daily Precipitation via Conditional Interpolation. Journal of Climate, 2005, 18, 41-57.	1.2	68
54	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

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55	Relative Performance of Self-Organizing Maps and Principal Component Analysis in Pattern Extraction from Synthetic Climatological Data. <i>Polar Geography</i> , 2005, 29, 188-212.	0.8	167
56	On RCM-based projections of change in southern African summer climate. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	119
57	Wet and dry spells within particularly wet and dry summers in the South African summer rainfall region. <i>Climate Research</i> , 2004, 26, 17-31.	0.4	155
58	Developing perturbations for Climate Change Impact Assessments. <i>Eos</i> , 2003, 84, 337.	0.1	34
59	Clustering and upscaling of station precipitation records to regional patterns using self-organizing maps (SOMs). <i>Climate Research</i> , 2003, 25, 95-107.	0.4	48
60	Scale Interactions and Regional Climate: Examples from the Susquehanna River Basin. <i>Human and Ecological Risk Assessment (HERA)</i> , 2002, 8, 147-158.	1.7	14
61	Self-organizing maps: applications to synoptic climatology. <i>Climate Research</i> , 2002, 22, 13-26.	0.4	483
62	Intra-seasonal rainfall characteristics and their importance to the seasonal prediction problem. <i>International Journal of Climatology</i> , 2002, 22, 1033-1048.	1.5	85
63	Emerging patterns of simulated regional climatic changes for the 21st century due to anthropogenic forcings. <i>Geophysical Research Letters</i> , 2001, 28, 3317-3320.	1.5	129
64	Doubled CO2 precipitation changes for the Susquehanna Basin: down-scaling from the Genesis general circulation model. <i>International Journal of Climatology</i> , 1998, 18, 65-76.	1.5	181
65	Statistical downscaling of general circulation model output: A comparison of methods. <i>Water Resources Research</i> , 1998, 34, 2995-3008.	1.7	668
66	Simulating present and future climates of southern Africa using general circulation models. <i>Progress in Physical Geography</i> , 1997, 21, 51-78.	1.4	74
67	Climate downscaling: techniques and application. <i>Climate Research</i> , 1996, 7, 85-95.	0.4	544
68	REGIONALISATION OF DAILY PRECIPITATION IN BOTSWANA 1972â€“1989. <i>Southern African Geographical Journal</i> , 1995, 77, 51-55.	0.9	4
69	Regional Climates in the GISS General Circulation Model: Surface Air Temperature. <i>Journal of Climate</i> , 1994, 7, 283-303.	1.2	27
70	Self Organizing Maps â€” Application to Census Data. <i>Geospatial Technology and the Role of Location in Science</i> , 1994, , 71-77.	0.2	4
71	Precipitation Controls in Southern Mexico. <i>Geospatial Technology and the Role of Location in Science</i> , 1994, , 121-143.	0.2	10
72	Regional Climates in the GISS Global Circulation Model: Synoptic-Scale Circulation. <i>Journal of Climate</i> , 1992, 5, 1002-1011.	1.2	33

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73	Regional-scale climate prediction from the GISS GCM. <i>Global and Planetary Change</i> , 1992, 5, 249-267.	1.6	8
74	Large-scale atmospheric controls on local precipitation in tropical Mexico. <i>Geophysical Research Letters</i> , 1992, 19, 1835-1838.	1.5	76
75	Regional-scale climate prediction from the GISS GCM. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1992, 97, 249-267.	1.0	30