

Brian Ayugi

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

1,294
citations

304743

22
h-index

395702

33
g-index

54
all docs

54
docs citations

54
times ranked

634
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Observed Changes in Extreme High-Temperature Events and Associated Meteorological Conditions over Africa. <i>International Journal of Climatology</i> , 2022, 42, 4522-4537.	3.5	32
2	Observed and Coupled Model Intercomparison Project <scp>6</scp> multimodel simulated changes in near-surface temperature properties over Ghana during the 20th century. <i>International Journal of Climatology</i> , 2022, 42, 3681-3701.	3.5	11
3	Interannual characteristics of rainfall over Madagascar and its relationship with the Indian Ocean sea surface temperature variation. <i>Theoretical and Applied Climatology</i> , 2022, 148, 349-362.	2.8	3
4	Observed Changes in Meteorological Drought Events during 1981-2020 over Rwanda, East Africa. <i>Sustainability</i> , 2022, 14, 1519.	3.2	20
5	Evaluation of Drought, Wet Events, and Climate Variability Impacts on Maize Crop Yields in East Africa During 1981-2017. <i>International Journal of Plant Production</i> , 2022, 16, 41-62.	2.2	10
6	Possible changes in Sudan's future precipitation under the high and medium emission scenarios based on bias adjusted GCMs. <i>Atmospheric Research</i> , 2022, 269, 106036.	4.1	4
7	East African population exposure to precipitation extremes under 1.5 °C and 2.0 °C warming levels based on CMIP6 models. <i>Environmental Research Letters</i> , 2022, 17, 044051.	5.2	13
8	Review of Meteorological Drought in Africa: Historical Trends, Impacts, Mitigation Measures, and Prospects. <i>Pure and Applied Geophysics</i> , 2022, 179, 1365-1386.	1.9	36
9	Evaluation of gridded precipitation datasets over Madagascar. <i>International Journal of Climatology</i> , 2022, 42, 7028-7046.	3.5	7
10	Projected changes in meteorological drought over East Africa inferred from bias-adjusted CMIP6 models. <i>Natural Hazards</i> , 2022, 113, 1151-1176.	3.4	21
11	Future changes in mean and extreme precipitation over the Mediterranean and Sahara regions using bias-corrected CMIP6 models. <i>International Journal of Climatology</i> , 2022, 42, 7280-7297.	3.5	17
12	Projection of Extreme Temperature Events over the Mediterranean and Sahara Using Bias-Corrected CMIP6 Models. <i>Atmosphere</i> , 2022, 13, 741.	2.3	12
13	Projections of precipitation extremes based on bias-corrected Coupled Model Intercomparison Project phase 6 models ensemble over southern Africa. <i>International Journal of Climatology</i> , 2022, 42, 8269-8289.	3.5	18
14	Projected changes in rainfall over Uganda based on CMIP6 models. <i>Theoretical and Applied Climatology</i> , 2022, 149, 1117-1134.	2.8	8
15	Drought across East Africa under climate variability. , 2022, , 159-173.		0
16	Variability of diurnal temperature range over Pacific Island countries, a case study of Fiji. <i>Meteorology and Atmospheric Physics</i> , 2021, 133, 85-95.	2.0	24
17	Mechanisms associated with September to November (SON) rainfall over Uganda during the recent decades. <i>Geographica Pannonica</i> , 2021, 25, 10-23.	1.3	7
18	Assessment of agricultural drought during crop-growing season in the Sudano-Saharan region of Cameroon. <i>Natural Hazards</i> , 2021, 106, 561-577.	3.4	18

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19	Assessing current and future spatiotemporal precipitation variability and trends over Uganda, East Africa, based on CHIRPS and regional climate model datasets. <i>Meteorology and Atmospheric Physics</i> , 2021, 133, 823-843.	2.0	45
20	Evaluation of precipitation simulations in <scp>CMIP6</scp> models over Uganda. <i>International Journal of Climatology</i> , 2021, 41, 4743-4768.	3.5	61
21	Temporal patterns of remote-sensed tropospheric carbon dioxide and methane over an urban site in Malawi, Southeast Africa: Implications for climate effects. <i>Atmospheric Pollution Research</i> , 2021, 12, 125-135.	3.8	7
22	Evaluation of the Performance of CMIP6 Models in Reproducing Rainfall Patterns over North Africa. <i>Atmosphere</i> , 2021, 12, 475.	2.3	55
23	Assessment of drought events, their trend and teleconnection factors over Burundi, East Africa. <i>Theoretical and Applied Climatology</i> , 2021, 145, 1293-1316.	2.8	17
24	Multi-Decadal Variability and Future Changes in Precipitation over Southern Africa. <i>Atmosphere</i> , 2021, 12, 742.	2.3	35
25	Comparison of <scp>CMIP6</scp> and <scp>CMIP5</scp> models in simulating mean and extreme precipitation over East Africa. <i>International Journal of Climatology</i> , 2021, 41, 6474-6496.	3.5	98
26	Observed and Future Precipitation and Evapotranspiration in Water Management Zones of Uganda: CMIP6 Projections. <i>Atmosphere</i> , 2021, 12, 887.	2.3	21
27	Novel statistical downscaling emulator for precipitation projections using deep Convolutional Autoencoder over Northern Africa. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2021, 218, 105614.	1.6	8
28	Future Changes in Precipitation Extremes over East Africa Based on CMIP6 Models. <i>Water (Switzerland)</i> , 2021, 13, 2358.	2.7	37
29	Evaluation and projection of mean surface temperature using CMIP6 models over East Africa. <i>Journal of African Earth Sciences</i> , 2021, 181, 104226.	2.0	37
30	Increased high-temperature extremes and associated population exposure in Africa by the mid-21st century. <i>Science of the Total Environment</i> , 2021, 790, 148162.	8.0	83
31	Spatial-Temporal Variability of Future Rainfall Erosivity and Its Impact on Soil Loss Risk in Kenya. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 9903.	2.5	10
32	Summer monsoon rainfall variations and its association with atmospheric circulations over Sudan. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2021, 225, 105751.	1.6	4
33	Projected changes in East African climate and its impacts on climatic suitability of maize production areas by the mid-twenty-first century. <i>Environmental Monitoring and Assessment</i> , 2021, 193, 831.	2.7	12
34	Historical evaluations and simulations of precipitation over East Africa from Rossby centre regional climate model. <i>Atmospheric Research</i> , 2020, 232, 104705.	4.1	63
35	Evaluation of Historical CMIP6 Model Simulations of Seasonal Mean Temperature over Pakistan during 1970â€“2014. <i>Atmosphere</i> , 2020, 11, 1005.	2.3	28
36	Characterization of Spatio-Temporal Trends and Periodicity of Precipitation over Malawi during 1979â€“2015. <i>Atmosphere</i> , 2020, 11, 891.	2.3	22

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37	Projections of future meteorological drought events under representative concentration pathways (RCPs) of CMIP5 over Kenya, East Africa. <i>Atmospheric Research</i> , 2020, 246, 105112.	4.1	40
38	Quantile Mapping Bias Correction on Rossby Centre Regional Climate Models for Precipitation Analysis over Kenya, East Africa. <i>Water (Switzerland)</i> , 2020, 12, 801.	2.7	29
39	Spatialâ€Temporal Evolution of Drought Characteristics Over Hungary Between 1961 and 2010. <i>Pure and Applied Geophysics</i> , 2020, 177, 3961-3978.	1.9	44
40	Evaluation of Meteorological Drought and Flood Scenarios over Kenya, East Africa. <i>Atmosphere</i> , 2020, 11, 307.	2.3	65
41	Evaluation of spatiotemporal variability of rainfall over Kenya from 1979 to 2017. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2019, 194, 105097.	1.6	29
42	Evaluation of satellite-based precipitation estimates over Algeria during 1998â€2016. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2019, 195, 105139.	1.6	24
43	Inter-comparison of remotely sensed precipitation datasets over Kenya during 1998â€2016. <i>Atmospheric Research</i> , 2019, 225, 96-109.	4.1	54
44	Evaluation of the Rossby Centre Regional Climate Model Rainfall Simulations over West Africa Using Large-Scale Spatial and Temporal Statistical Metrics. <i>Atmosphere</i> , 2019, 10, 802.	2.3	12
45	Recent trends of surface air temperatures over Kenya from 1971 to 2010. <i>Meteorology and Atmospheric Physics</i> , 2019, 131, 1401-1413.	2.0	32
46	Circulations Associated with Variations in Boreal Spring Rainfall over Kenya. <i>Earth Systems and Environment</i> , 2018, 2, 421-434.	6.2	37
47	Statistical Evaluation of Changes and Periodicity in Rainfall Over East Africa During the Period 1960â€2017. <i>Pure and Applied Geophysics</i> , 0, , .	1.9	1