Brian Ayugi

List of Publications by Year
in descending order

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47	1,294	304743	395702
papers	citations	22 h-index	33 g-index

54	54	54	634
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Comparison of <scp>CMIP6</scp> and <scp>CMIP5</scp> models in simulating mean and extreme precipitation over East Africa. International Journal of Climatology, 2021, 41, 6474-6496.	3.5	98
2	Increased high-temperature extremes and associated population exposure in Africa by the mid-21st century. Science of the Total Environment, 2021, 790, 148162.	8.0	83
3	Evaluation of Meteorological Drought and Flood Scenarios over Kenya, East Africa. Atmosphere, 2020, 11, 307.	2.3	65
4	Historical evaluations and simulations of precipitation over East Africa from Rossby centre regional climate model. Atmospheric Research, 2020, 232, 104705.	4.1	63
5	Evaluation of precipitation simulations in <scp>CMIP6</scp> models over Uganda. International Journal of Climatology, 2021, 41, 4743-4768.	3.5	61
6	Evaluation of the Performance of CMIP6 Models in Reproducing Rainfall Patterns over North Africa. Atmosphere, 2021, 12, 475.	2.3	55
7	Inter-comparison of remotely sensed precipitation datasets over Kenya during 1998â€“2016. Atmospheric Research, 2019, 225, 96-109.	4.1	54
8	Assessing current and future spatiotemporal precipitation variability and trends over Uganda, East Africa, based on CHIRPS and regional climate model datasets. Meteorology and Atmospheric Physics, 2021, 133, 823-843.	2.0	45
9	Spatialâ€“Temporal Evolution of Drought Characteristics Over Hungary Between 1961 and 2010. Pure and Applied Geophysics, 2020, 177, 3961-3978.	1.9	44
10	Projections of future meteorological drought events under representative concentration pathways (RCPs) of CMIP5 over Kenya, East Africa. Atmospheric Research, 2020, 246, 105112.	4.1	40
11	Circulations Associated with Variations in Boreal Spring Rainfall over Kenya. Earth Systems and Environment, 2018, 2, 421-434.	6.2	37
12	Future Changes in Precipitation Extremes over East Africa Based on CMIP6 Models. Water (Switzerland), 2021, 13, 2358.	2.7	37
13	Evaluation and projection of mean surface temperature using CMIP6 models over East Africa. Journal of African Earth Sciences, 2021, 181, 104226.	2.0	37
14	Review of Meteorological Drought in Africa: Historical Trends, Impacts, Mitigation Measures, and Prospects. Pure and Applied Geophysics, 2022, 179, 1365-1386.	1.9	36
15	Multi-Decadal Variability and Future Changes in Precipitation over Southern Africa. Atmosphere, 2021, 12, 742.	2.3	35
16	Recent trends of surface air temperatures over Kenya from 1971 to 2010. Meteorology and Atmospheric Physics, 2019, 131, 1401-1413.	2.0	32
17	Recent Observed Changes in Extreme Highâ€Temperature Events and Associated Meteorological Conditions over Africa. International Journal of Climatology, 2022, 42, 4522-4537.	3.5	32
18	Evaluation of spatiotemporal variability of rainfall over Kenya from 1979 to 2017. Journal of Atmospheric and Solar-Terrestrial Physics, 2019, 194, 105097.	1.6	29

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19	Quantile Mapping Bias Correction on Rossby Centre Regional Climate Models for Precipitation Analysis over Kenya, East Africa. Water (Switzerland), 2020, 12, 801.	2.7	29
20	Evaluation of Historical CMIP6 Model Simulations of Seasonal Mean Temperature over Pakistan during 1970â€“2014. Atmosphere, 2020, 11, 1005.	2.3	28
21	Evaluation of satellite-based precipitation estimates over Algeria during 1998â€“2016. Journal of Atmospheric and Solar-Terrestrial Physics, 2019, 195, 105139.	1.6	24
22	Variability of diurnal temperature range over Pacific Island countries, a case study of Fiji. Meteorology and Atmospheric Physics, 2021, 133, 85-95.	2.0	24
23	Characterization of Spatio-Temporal Trends and Periodicity of Precipitation over Malawi during 1979â€“2015. Atmosphere, 2020, 11, 891.	2.3	22
24	Observed and Future Precipitation and Evapotranspiration in Water Management Zones of Uganda: CMIP6 Projections. Atmosphere, 2021, 12, 887.	2.3	21
25	Projected changes in meteorological drought over East Africa inferred from bias-adjusted CMIP6 models. Natural Hazards, 2022, 113, 1151-1176.	3.4	21
26	Observed Changes in Meteorological Drought Events during 1981â€“2020 over Rwanda, East Africa. Sustainability, 2022, 14, 1519.	3.2	20
27	Assessment of agricultural drought during crop-growing season in the Sudanoâ€“Sahelian region of Cameroon. Natural Hazards, 2021, 106, 561-577.	3.4	18
28	Projections of precipitation extremes based on biasâ€corrected Coupled Model Intercomparison Project phase 6 models ensemble over southern Africa. International Journal of Climatology, 2022, 42, 8269-8289.	3.5	18
29	Assessment of drought events, their trend and teleconnection factors over Burundi, East Africa. Theoretical and Applied Climatology, 2021, 145, 1293-1316.	2.8	17
30	Future changes in mean and extreme precipitation over the Mediterranean and Sahara regions using biasâ€corrected CMIP6 models. International Journal of Climatology, 2022, 42, 7280-7297.	3.5	17
31	East African population exposure to precipitation extremes under 1.5 Â°C and 2.0 Â°C warming levels based on CMIP6 models. Environmental Research Letters, 2022, 17, 044051.	5.2	13
32	Evaluation of the Rossby Centre Regional Climate Model Rainfall Simulations over West Africa Using Large-Scale Spatial and Temporal Statistical Metrics. Atmosphere, 2019, 10, 802.	2.3	12
33	Projected changes in East African climate and its impacts on climatic suitability of maize production areas by the mid-twenty-first century. Environmental Monitoring and Assessment, 2021, 193, 831.	2.7	12
34	Projection of Extreme Temperature Events over the Mediterranean and Sahara Using Bias-Corrected CMIP6 Models. Atmosphere, 2022, 13, 741.	2.3	12
35	Observed and Coupled Model Intercomparison Project <scp>6</scp> multimodel simulated changes in nearâ€surface temperature properties over Ghana during the 20th century. International Journal of Climatology, 2022, 42, 3681-3701.	3.5	11
36	Spatial-Temporal Variability of Future Rainfall Erosivity and Its Impact on Soil Loss Risk in Kenya. Applied Sciences (Switzerland), 2021, 11, 9903.	2.5	10

#	Article	IF	Citations
37	Evaluation of Drought, Wet Events, and Climate Variability Impacts on Maize Crop Yields in East Africa During 1981â€“2017. International Journal of Plant Production, 2022, 16, 41-62.	2.2	10
38	Novel statistical downscaling emulator for precipitation projections using deep Convolutional Autoencoder over Northern Africa. Journal of Atmospheric and Solar-Terrestrial Physics, 2021, 218, 105614.	1.6	8
39	Projected changes in rainfall over Uganda based on CMIP6 models. Theoretical and Applied Climatology, 2022, 149, 1117-1134.	2.8	8
40	Mechanisms associated with September to November (SON) rainfall over Uganda during the recent decades. Geographica Pannonica, 2021, 25, 10-23.	1.3	7
41	Temporal patterns of remote-sensed tropospheric carbon dioxide and methane over an urban site in Malawi, Southeast Africa: Implications for climate effects. Atmospheric Pollution Research, 2021, 12, 125-135.	3.8	7
42	Evaluation of gridded precipitation datasets over Madagascar. International Journal of Climatology, 2022, 42, 7028-7046.	3.5	7
43	Summer monsoon rainfall variations and its association with atmospheric circulations over Sudan. Journal of Atmospheric and Solar-Terrestrial Physics, 2021, 225, 105751.	1.6	4
44	Possible changes in Sudan's future precipitation under the high and medium emission scenarios based on bias adjusted GCMs. Atmospheric Research, 2022, 269, 106036.	4.1	4
45	Interannual characteristics of rainfall over Madagascar and its relationship with the Indian Ocean sea surface temperature variation. Theoretical and Applied Climatology, 2022, 148, 349-362.	2.8	3
46	Statistical Evaluation of Changes and Periodicity in Rainfall Over East Africa During the Period 1960â€“2017. Pure and Applied Geophysics, 0, , .	1.9	1
47	Drought across East Africa under climate variability. , 2022, , 159-173.		0