

Sachindra Dhanapala Arachchige

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97
papers

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citations

36
h-index

55
g-index

101
ext. papers

4,479
ext. citations

3.8
avg, IF

6.39
L-index

#	Paper	IF	Citations
97	Drought risk assessment in the western part of Bangladesh. <i>Natural Hazards</i> , 2008 , 46, 391-413	3	282
96	Impact of climate change on irrigation water demand of dry season Boro rice in northwest Bangladesh. <i>Climatic Change</i> , 2011 , 105, 433-453	4.5	188
95	Rainfall variability and the trends of wet and dry periods in Bangladesh. <i>International Journal of Climatology</i> , 2010 , 30, 2299-2313	3.5	152
94	Statistical downscaling of precipitation using machine learning techniques. <i>Atmospheric Research</i> , 2018 , 212, 240-258	5.4	105
93	Impacts of climate variability and change on seasonal drought characteristics of Pakistan. <i>Atmospheric Research</i> , 2018 , 214, 364-374	5.4	99
92	Selection of climate models for projection of spatiotemporal changes in temperature of Iraq with uncertainties. <i>Atmospheric Research</i> , 2018 , 213, 509-522	5.4	78
91	Model output statistics downscaling using support vector machine for the projection of spatial and temporal changes in rainfall of Bangladesh. <i>Atmospheric Research</i> , 2018 , 213, 149-162	5.4	78
90	Least square support vector and multi-linear regression for statistically downscaling general circulation model outputs to catchment streamflows. <i>International Journal of Climatology</i> , 2013 , 33, 1087-1106	7.5	106
89	Trend Analysis of Droughts during Crop Growing Seasons of Nigeria. <i>Sustainability</i> , 2018 , 10, 871	3.6	72
88	Spatial distribution of unidirectional trends in temperature and temperature extremes in Pakistan. <i>Theoretical and Applied Climatology</i> , 2019 , 136, 899-913	3	69
87	Prediction of droughts over Pakistan using machine learning algorithms. <i>Advances in Water Resources</i> , 2020 , 139, 103562	4.7	68
86	Characterization of seasonal droughts in Balochistan Province, Pakistan. <i>Stochastic Environmental Research and Risk Assessment</i> , 2016 , 30, 747-762	3.5	66
85	Genetic Programming for the Downscaling of Extreme Rainfall Events on the East Coast of Peninsular Malaysia. <i>Atmosphere</i> , 2014 , 5, 914-936	2.7	66
84	Seasonal Drought Pattern Changes Due to Climate Variability: Case Study in Afghanistan. <i>Water (Switzerland)</i> , 2019 , 11, 1096	3	65
83	Performance Assessment of General Circulation Model in Simulating Daily Precipitation and Temperature Using Multiple Gridded Datasets. <i>Water (Switzerland)</i> , 2018 , 10, 1793	3	65
82	Statistical downscaling of general circulation model outputs to precipitation Part 2: bias-correction and future projections. <i>International Journal of Climatology</i> , 2014 , 34, 3282-3303	3.5	60
81	Precipitation projection using a CMIP5 GCM ensemble model: a regional investigation of Syria. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020 , 14, 90-106	4.5	59

80	Selection of multi-model ensemble of general circulation models for the simulation of precipitation and maximum and minimum temperature based on spatial assessment metrics. <i>Hydrology and Earth System Sciences</i> , 2019 , 23, 4803-4824	5.5	58
79	Analysis of Meteorological Drought Pattern During Different Climatic and Cropping Seasons in Bangladesh. <i>Journal of the American Water Resources Association</i> , 2015 , 51, 794-806	2.1	57
78	Changing Pattern of Droughts during Cropping Seasons of Bangladesh. <i>Water Resources Management</i> , 2018 , 32, 1555-1568	3.7	57
77	Projection of spatial and temporal changes of rainfall in Sarawak of Borneo Island using statistical downscaling of CMIP5 models. <i>Atmospheric Research</i> , 2017 , 197, 446-460	5.4	56
76	Selection of gridded precipitation data for Iraq using compromise programming. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019 , 132, 87-98	4.6	55
75	Evaluation of Gridded Precipitation Datasets over Arid Regions of Pakistan. <i>Water (Switzerland)</i> , 2019 , 11, 210	3	54
74	Trends in heat wave related indices in Pakistan. <i>Stochastic Environmental Research and Risk Assessment</i> , 2019 , 33, 287-302	3.5	53
73	Prediction of heat waves in Pakistan using quantile regression forests. <i>Atmospheric Research</i> , 2019 , 221, 1-11	5.4	49
72	Multi-model ensemble predictions of precipitation and temperature using machine learning algorithms. <i>Atmospheric Research</i> , 2020 , 236, 104806	5.4	49
71	Fidelity assessment of general circulation model simulated precipitation and temperature over Pakistan using a feature selection method. <i>Journal of Hydrology</i> , 2019 , 573, 281-298	6	48
70	Spatial distribution of secular trends in rainfall indices of Peninsular Malaysia in the presence of long-term persistence. <i>Meteorological Applications</i> , 2019 , 26, 655-670	2.1	48
69	Statistical downscaling of general circulation model outputs to precipitation Part 1: calibration and validation. <i>International Journal of Climatology</i> , 2014 , 34, 3264-3281	3.5	48
68	A MCDM-based framework for selection of general circulation models and projection of spatio-temporal rainfall changes: A case study of Nigeria. <i>Atmospheric Research</i> , 2019 , 225, 1-16	5.4	47
67	Impact of climate change on urban heat island effect and extreme temperatures: a case-study. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016 , 142, 172-186	6.4	45
66	Evaluation of Empirical Reference Evapotranspiration Models Using Compromise Programming: A Case Study of Peninsular Malaysia. <i>Sustainability</i> , 2019 , 11, 4267	3.6	44
65	Multilayer perceptron neural network for downscaling rainfall in arid region: A case study of Baluchistan, Pakistan. <i>Journal of Earth System Science</i> , 2015 , 124, 1325-1341	1.8	39
64	Uncertainty in Rainfall Intensity Duration Frequency Curves of Peninsular Malaysia under Changing Climate Scenarios. <i>Water (Switzerland)</i> , 2018 , 10, 1750	3	38
63	Spatial distribution of the trends in precipitation and precipitation extremes in the sub-Himalayan region of Pakistan. <i>Theoretical and Applied Climatology</i> , 2019 , 137, 2755-2769	3	36

62	Climate change uncertainties in seasonal drought severity-area-frequency curves: Case of arid region of Pakistan. <i>Journal of Hydrology</i> , 2019 , 570, 473-485	6	36
61	Spatiotemporal changes in aridity and the shift of drylands in Iran. <i>Atmospheric Research</i> , 2020 , 233, 104704	5.4	36
60	Projection of meteorological droughts in Nigeria during growing seasons under climate change scenarios. <i>Scientific Reports</i> , 2020 , 10, 10107	4.9	34
59	Spatiotemporal changes in aridity of Pakistan during 1901-2016. <i>Hydrology and Earth System Sciences</i> , 2019 , 23, 3081-3096	5.5	34
58	Spatial Pattern of the Unidirectional Trends in Thermal Bioclimatic Indicators in Iran. <i>Sustainability</i> , 2019 , 11, 2287	3.6	33
57	Physical-empirical models for prediction of seasonal rainfall extremes of Peninsular Malaysia. <i>Atmospheric Research</i> , 2020 , 233, 104720	5.4	33
56	Modeling climate change impacts on precipitation in arid regions of Pakistan: a non-local model output statistics downscaling approach. <i>Theoretical and Applied Climatology</i> , 2019 , 137, 1347-1364	3	30
55	Evaluating severity-area-frequency (SAF) of seasonal droughts in Bangladesh under climate change scenarios. <i>Stochastic Environmental Research and Risk Assessment</i> , 2020 , 34, 447-464	3.5	29
54	Selection of CMIP5 multi-model ensemble for the projection of spatial and temporal variability of rainfall in peninsular Malaysia. <i>Theoretical and Applied Climatology</i> , 2019 , 138, 999-1012	3	28
53	Spatial interpolation of climatic variables in a predominantly arid region with complex topography. <i>Environment Systems and Decisions</i> , 2014 , 34, 555-563	4.1	28
52	Spatiotemporal trends in reference evapotranspiration and its driving factors in Bangladesh. <i>Theoretical and Applied Climatology</i> , 2021 , 144, 793-808	3	27
51	Selection of GCMs for the projection of spatial distribution of heat waves in Pakistan. <i>Atmospheric Research</i> , 2020 , 233, 104688	5.4	24
50	Selection of general circulation models for the projections of spatio-temporal changes in temperature of Borneo Island based on CMIP5. <i>Theoretical and Applied Climatology</i> , 2020 , 139, 351-371	3	24
49	Multi-model ensemble approach for statistically downscaling general circulation model outputs to precipitation. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2014 , 140, 1161-1178	6.4	23
48	Spatiotemporal nexus between vegetation change and extreme climatic indices and their possible causes of change. <i>Journal of Environmental Management</i> , 2021 , 289, 112505	7.9	23
47	Prediction of meteorological drought by using hybrid support vector regression optimized with HHO versus PSO algorithms. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 39139-39158	5.1	23
46	Statistical Downscaling of General Circulation Model Outputs to Precipitation Accounting for Non-Stationarities in Predictor-Predictand Relationships. <i>PLoS ONE</i> , 2016 , 11, e0168701	3.7	22
45	Development of multi-model ensemble for projection of extreme rainfall events in Peninsular Malaysia 2019 , 50, 1772-1788		22

44	A novel framework for selecting general circulation models based on the spatial patterns of climate. <i>International Journal of Climatology</i> , 2020 , 40, 4422-4443	3.5	21
43	Evaluation of CMIP6 GCM rainfall in mainland Southeast Asia. <i>Atmospheric Research</i> , 2021 , 254, 105525	5.4	21
42	Cautionary note on the use of genetic programming in statistical downscaling. <i>International Journal of Climatology</i> , 2018 , 38, 3449-3465	3.5	19
41	Selection of CMIP5 general circulation model outputs of precipitation for peninsular Malaysia 2020 , 51, 781-798		16
40	GCM selection and temperature projection of Nigeria under different RCPs of the CMIP5 GCMS. <i>Theoretical and Applied Climatology</i> , 2020 , 141, 1611-1627	3	15
39	Machine learning for downscaling: the use of parallel multiple populations in genetic programming. <i>Stochastic Environmental Research and Risk Assessment</i> , 2019 , 33, 1497-1533	3.5	15
38	Comparison of CMIP6 and CMIP5 model performance in simulating historical precipitation and temperature in Bangladesh: a preliminary study. <i>Theoretical and Applied Climatology</i> , 2021 , 145, 1385-1406	3.6	15
37	River water level prediction in coastal catchment using hybridized relevance vector machine model with improved grasshopper optimization. <i>Journal of Hydrology</i> , 2021 , 598, 126477	6	13
36	Influence of Surface Water Bodies on the Land Surface Temperature of Bangladesh. <i>Sustainability</i> , 2019 , 11, 6754	3.6	13
35	Pros and cons of using wavelets in conjunction with genetic programming and generalised linear models in statistical downscaling of precipitation. <i>Theoretical and Applied Climatology</i> , 2019 , 138, 617-638	3.3	12
34	Evaluation of global climate models for precipitation projection in sub-Himalaya region of Pakistan. <i>Atmospheric Research</i> , 2020 , 245, 105061	5.4	11
33	Statistical downscaling of general circulation model outputs to catchment scale hydroclimatic variables: issues, challenges and possible solutions. <i>Journal of Water and Climate Change</i> , 2014 , 5, 496-523	2.3	11
32	Downscaling and Projection of Spatiotemporal Changes in Temperature of Bangladesh. <i>Earth Systems and Environment</i> , 2019 , 3, 381-398	7.5	10
31	Potential improvements to statistical downscaling of general circulation model outputs to catchment streamflows with downscaled precipitation and evaporation. <i>Theoretical and Applied Climatology</i> , 2015 , 122, 159-179	3	9
30	Spatiotemporal changes in precipitation extremes in the arid province of Pakistan with removal of the influence of natural climate variability. <i>Theoretical and Applied Climatology</i> , 2020 , 142, 1447-1462	3	9
29	High-Resolution Climate Projections for a Densely Populated Mediterranean Region. <i>Sustainability</i> , 2020 , 12, 3684	3.6	8
28	Annual statistical downscaling of precipitation and evaporation and monthly disaggregation. <i>Theoretical and Applied Climatology</i> , 2018 , 131, 181-200	3	8
27	Spatial Shift of Aridity and Its Impact on Land Use of Syria. <i>Sustainability</i> , 2019 , 11, 7047	3.6	7

26	Divergence of potential evapotranspiration trends over Pakistan during 1967-2016. <i>Theoretical and Applied Climatology</i> , 2020 , 141, 215-227	3	7
25	A novel selection method of CMIP6 GCMs for robust climate projection. <i>International Journal of Climatology</i> ,	3.5	6
24	Spatiotemporal distribution of drought and its possible associations with ENSO indices in Bangladesh. <i>Arabian Journal of Geosciences</i> , 2021 , 14, 1	1.8	6
23	Precipitation and runoff variation characteristics in typical regions of North China Plain: a case study of Hengshui City. <i>Theoretical and Applied Climatology</i> , 2020 , 142, 971-985	3	5
22	Spatiotemporal changes and modulations of extreme climatic indices in monsoon-dominated climate region linkage with large-scale atmospheric oscillation. <i>Atmospheric Research</i> , 2021 , 264, 105840	5.4	5
21	Statistical downscaling of general circulation model outputs to evaporation, minimum temperature and maximum temperature using a key-predictand and key-station approach. <i>Journal of Water and Climate Change</i> , 2015 , 6, 241-262	2.3	4
20	Drought Index Prediction Using Data Intelligent Analytic Models: A Review. <i>Springer Transactions in Civil and Environmental Engineering</i> , 2021 , 1-27	0.4	4
19	Multi-variable model output statistics downscaling for the projection of spatio-temporal changes in rainfall of Borneo Island. <i>Journal of Hydro-Environment Research</i> , 2020 , 31, 62-75	2.3	4
18	Groundwater-dependent irrigation costs and benefits for adaptation to global change. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2018 , 23, 953-979	3.9	4
17	Spatiotemporal changes in rainfall and droughts of Bangladesh for 1.5 and 2 °C temperature rise scenarios of CMIP6 models. <i>Theoretical and Applied Climatology</i> , 2021 , 146, 527-542	3	4
16	Differences in multi-model ensembles of CMIP5 and CMIP6 projections for future droughts in South Korea. <i>International Journal of Climatology</i> ,	3.5	4
15	Assessment of CMIP6 global climate models in reconstructing rainfall climatology of Bangladesh. <i>International Journal of Climatology</i> ,	3.5	3
14	Prediction of heat waves over Pakistan using support vector machine algorithm in the context of climate change. <i>Stochastic Environmental Research and Risk Assessment</i> , 2021 , 35, 1335	3.5	2
13	Volatility in Rainfall and Predictability of Droughts in Northwest Bangladesh. <i>Sustainability</i> , 2020 , 12, 9810	3.6	1
12	Comparison of precipitation projections of CMIP5 and CMIP6 global climate models over Yulin, China. <i>Theoretical and Applied Climatology</i> ,1	3	1
11	Replicability of Annual and Seasonal Precipitation by CMIP5 and CMIP6 GCMs over East Asia. <i>KSCE Journal of Civil Engineering</i> ,1	1.9	1
10	Spatiotemporal changes in global aridity in terms of multiple aridity indices: An assessment based on the CRU data. <i>Atmospheric Research</i> , 2022 , 268, 105998	5.4	1
9	Prediction of heat waves using meteorological variables in diverse regions of Iran with advanced machine learning models. <i>Stochastic Environmental Research and Risk Assessment</i> ,1	3.5	1

8	Analysis of historical drought and flood characteristics of Hengshui during the period 1649-2018: a typical city in North China. <i>Natural Hazards</i> , 2021 , 108, 2081-2099	3	1
7	Defining climate zone of Borneo based on cluster analysis. <i>Theoretical and Applied Climatology</i> , 2021 , 145, 1467-1484	3	1
6	Statistical downscaling of general circulation model outputs to precipitation, evaporation and temperature using a key station approach. <i>Journal of Water and Climate Change</i> , 2016 , 7, 683-707	2.3	1
5	Application of ensemble machine learning model in downscaling and projecting climate variables over different climate regions in Iran. <i>Environmental Science and Pollution Research</i> , 2021 , 1	5.1	0
4	Characteristics of air temperature in Poland from 1994 to 2019 based on hourly data. <i>International Journal of Climatology</i> , 2021 , 41, 4359-4385	3.5	0
3	Review of construction labor productivity factors from a geographical standpoint. <i>International Journal of Construction Management</i> , 1-19	1.9	0
2	Determination of cotton and wheat yield using the standard precipitation evaporation index in Pakistan. <i>Arabian Journal of Geosciences</i> , 2021 , 14, 1	1.8	0
1	Relative performance of CMIP5 and CMIP6 models in simulating rainfall in Peninsular Malaysia. <i>Theoretical and Applied Climatology</i> , 1	3	0