

# Shamsuddin Shahid

## List of Publications by Year in descending order

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Version: 2024-02-01

308  
papers

12,900  
citations

19636

61  
h-index

45285

90  
g-index

315  
all docs

315  
docs citations

315  
times ranked

6770  
citing authors

#	ARTICLE	IF	CITATIONS
1	Drought risk assessment in the western part of Bangladesh. <i>Natural Hazards</i> , 2008, 46, 391-413.	1.6	373
2	Impact of climate change on irrigation water demand of dry season Boro rice in northwest Bangladesh. <i>Climatic Change</i> , 2011, 105, 433-453.	1.7	234
3	Rainfall variability and the trends of wet and dry periods in Bangladesh. <i>International Journal of Climatology</i> , 2010, 30, 2299-2313.	1.5	209
4	An empirical study of construction and demolition waste generation and implication of recycling. <i>Waste Management</i> , 2019, 95, 10-21.	3.7	202
5	Trends in extreme rainfall events of Bangladesh. <i>Theoretical and Applied Climatology</i> , 2011, 104, 489-499.	1.3	201
6	Statistical downscaling of precipitation using machine learning techniques. <i>Atmospheric Research</i> , 2018, 212, 240-258.	1.8	188
7	Low impact development techniques to mitigate the impacts of climate-change-induced urban floods: Current trends, issues and challenges. <i>Sustainable Cities and Society</i> , 2020, 62, 102373.	5.1	181
8	Adaptation to climate change impacts on water demand. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2016, 21, 81-99.	1.0	177
9	Groundwater Drought in the Northwestern Districts of Bangladesh. <i>Water Resources Management</i> , 2010, 24, 1989-2006.	1.9	176
10	Recent trends in the climate of Bangladesh. <i>Climate Research</i> , 2010, 42, 185-193.	0.4	149
11	Impacts of climate variability and change on seasonal drought characteristics of Pakistan. <i>Atmospheric Research</i> , 2018, 214, 364-374.	1.8	146
12	Trends analysis of rainfall and rainfall extremes in Sarawak, Malaysia using modified Mann-Kendall test. <i>Meteorology and Atmospheric Physics</i> , 2019, 131, 263-277.	0.9	145
13	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.	1.9	142
14	Prediction of droughts over Pakistan using machine learning algorithms. <i>Advances in Water Resources</i> , 2020, 139, 103562.	1.7	140
15	Selection of climate models for projection of spatiotemporal changes in temperature of Iraq with uncertainties. <i>Atmospheric Research</i> , 2018, 213, 509-522.	1.8	136
16	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.	1.8	134
17	Quantifying hourly suspended sediment load using data mining models: Case study of a glacierized Andean catchment in Chile. <i>Journal of Hydrology</i> , 2018, 567, 165-179.	2.3	133
18	Long-term trends in daily temperature extremes in Iraq. <i>Atmospheric Research</i> , 2017, 198, 97-107.	1.8	128

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19	Changes in diurnal temperature range in Bangladesh during the time period 1961â€“2008. Atmospheric Research, 2012, 118, 260-270.	1.8	119
20	Multi-model ensemble predictions of precipitation and temperature using machine learning algorithms. Atmospheric Research, 2020, 236, 104806.	1.8	117
21	Improving streamflow prediction using a new hybrid ELM model combined with hybrid particle swarm optimization and grey wolf optimization. Knowledge-Based Systems, 2021, 230, 107379.	4.0	117
22	Spatial and temporal characteristics of droughts in the western part of Bangladesh. Hydrological Processes, 2008, 22, 2235-2247.	1.1	116
23	Groundwater level prediction using machine learning models: A comprehensive review. Neurocomputing, 2022, 489, 271-308.	3.5	115
24	Trends in rainfall and rainfall-related extremes in the east coast of peninsular Malaysia. Journal of Earth System Science, 2015, 124, 1609-1622.	0.6	112
25	Climate variability and changes in the major cities of Bangladesh: observations, possible impacts and adaptation. Regional Environmental Change, 2016, 16, 459-471.	1.4	111
26	Seasonal Drought Pattern Changes Due to Climate Variability: Case Study in Afghanistan. Water (Switzerland), 2019, 11, 1096.	1.2	110
27	Spatial distribution of unidirectional trends in temperature and temperature extremes in Pakistan. Theoretical and Applied Climatology, 2019, 136, 899-913.	1.3	109
28	Performance Assessment of General Circulation Model in Simulating Daily Precipitation and Temperature Using Multiple Gridded Datasets. Water (Switzerland), 2018, 10, 1793.	1.2	104
29	Precipitation projection using a CMIP5 GCM ensemble model: a regional investigation of Syria. Engineering Applications of Computational Fluid Mechanics, 2020, 14, 90-106.	1.5	104
30	Trend Analysis of Droughts during Crop Growing Seasons of Nigeria. Sustainability, 2018, 10, 871.	1.6	102
31	Unidirectional trends in annual and seasonal climate and extremes in Egypt. Theoretical and Applied Climatology, 2019, 136, 457-473.	1.3	97
32	Changing Pattern of Droughts during Cropping Seasons of Bangladesh. Water Resources Management, 2018, 32, 1555-1568.	1.9	93
33	Trends in heat wave related indices in Pakistan. Stochastic Environmental Research and Risk Assessment, 2019, 33, 287-302.	1.9	92
34	Changing characteristics of meteorological droughts in Nigeria during 1901â€“2010. Atmospheric Research, 2019, 223, 60-73.	1.8	91
35	Characterization of seasonal droughts in Balochistan Province, Pakistan. Stochastic Environmental Research and Risk Assessment, 2016, 30, 747-762.	1.9	90
36	Evaluation of Gridded Precipitation Datasets over Arid Regions of Pakistan. Water (Switzerland), 2019, 11, 210.	1.2	88

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37	Water resources management strategy for adaptation to droughts in China. Mitigation and Adaptation Strategies for Global Change, 2012, 17, 923-937.	1.0	87
38	Analysis of Meteorological Drought Pattern During Different Climatic and Cropping Seasons in Bangladesh. Journal of the American Water Resources Association, 2015, 51, 794-806.	1.0	86
39	Evaluation of CMIP6 GCM rainfall in mainland Southeast Asia. Atmospheric Research, 2021, 254, 105525.	1.8	85
40	The potential of novel data mining models for global solar radiation prediction. International Journal of Environmental Science and Technology, 2019, 16, 7147-7164.	1.8	81
41	Selection of gridded precipitation data for Iraq using compromise programming. Measurement: Journal of the International Measurement Confederation, 2019, 132, 87-98.	2.5	81
42	Spatial distribution of secular trends in annual and seasonal precipitation over Pakistan. Climate Research, 2017, 74, 95-107.	0.4	81
43	Copula based assessment of meteorological drought characteristics: Regional investigation of Iran. Agricultural and Forest Meteorology, 2019, 276-277, 107611.	1.9	79
44	Novel Hybrid Data-Intelligence Model for Forecasting Monthly Rainfall with Uncertainty Analysis. Water (Switzerland), 2019, 11, 502.	1.2	78
45	Spatial assessment of meteorological drought features over different climate regions in Iran. International Journal of Climatology, 2020, 40, 1864-1884.	1.5	78
46	Fidelity assessment of general circulation model simulated precipitation and temperature over Pakistan using a feature selection method. Journal of Hydrology, 2019, 573, 281-298.	2.3	77
47	Complementary data-intelligence model for river flow simulation. Journal of Hydrology, 2018, 567, 180-190.	2.3	76
48	Implementation of Univariate Paradigm for Streamflow Simulation Using Hybrid Data-Driven Model: Case Study in Tropical Region. IEEE Access, 2019, 7, 74471-74481.	2.6	76
49	Inconsistency in historical simulations and future projections of temperature and rainfall: A comparison of CMIP5 and CMIP6 models over Southeast Asia. Atmospheric Research, 2022, 265, 105927.	1.8	76
50	Genetic Programming for the Downscaling of Extreme Rainfall Events on the East Coast of Peninsular Malaysia. Atmosphere, 2014, 5, 914-936.	1.0	75
51	Projection of spatial and temporal changes of rainfall in Sarawak of Borneo Island using statistical downscaling of CMIP5 models. Atmospheric Research, 2017, 197, 446-460.	1.8	75
52	Prediction of heat waves in Pakistan using quantile regression forests. Atmospheric Research, 2019, 221, 1-11.	1.8	74
53	Assessment of Satellite-Based Precipitation Measurement Products over the Hot Desert Climate of Egypt. Remote Sensing, 2019, 11, 555.	1.8	74
54	Assessment of groundwater potential zones in an arid region based on catastrophe theory. Earth Science Informatics, 2015, 8, 539-549.	1.6	73

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55	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.	1.8	73
56	Probable Impacts of Climate Change on Public Health in Bangladesh. <i>Asia-Pacific Journal of Public Health</i> , 2010, 22, 310-319.	0.4	72
57	Evaluation of Empirical Reference Evapotranspiration Models Using Compromise Programming: A Case Study of Peninsular Malaysia. <i>Sustainability</i> , 2019, 11, 4267.	1.6	72
58	Spatiotemporal changes in aridity of Pakistan during 1901â€“2016. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 3081-3096.	1.9	68
59	Spatiotemporal nexus between vegetation change and extreme climatic indices and their possible causes of change. <i>Journal of Environmental Management</i> , 2021, 289, 112505.	3.8	68
60	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.	2.3	66
61	Spatial distribution of unidirectional trends in climate and weather extremes in Nile river basin. <i>Theoretical and Applied Climatology</i> , 2019, 137, 1181-1199.	1.3	66
62	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.	2.7	66
63	Gini coefficient to assess equity in domestic water supply in the Yellow River. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2012, 17, 65-75.	1.0	65
64	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.	0.9	65
65	Changes in reference evapotranspiration and its driving factors in peninsular Malaysia. <i>Atmospheric Research</i> , 2020, 246, 105096.	1.8	65
66	The Integration of Nature-Inspired Algorithms with Least Square Support Vector Regression Models: Application to Modeling River Dissolved Oxygen Concentration. <i>Water (Switzerland)</i> , 2018, 10, 1124.	1.2	64
67	Impacts and adaptation to climate change in Malaysian real estate. <i>International Journal of Climate Change Strategies and Management</i> , 2017, 9, 87-103.	1.5	63
68	Projection of meteorological droughts in Nigeria during growing seasons under climate change scenarios. <i>Scientific Reports</i> , 2020, 10, 10107.	1.6	63
69	Spatiotemporal trends in reference evapotranspiration and its driving factors in Bangladesh. <i>Theoretical and Applied Climatology</i> , 2021, 144, 793-808.	1.3	63
70	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.	1.3	63
71	Catastrophe theory to assess water security and adaptation strategy in the context of environmental change. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2014, 19, 463-477.	1.0	62
72	Climate change and crop farming in Bangladesh: an analysis of economic impacts. <i>International Journal of Climate Change Strategies and Management</i> , 2019, 11, 424-440.	1.5	62

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73	Global solar radiation prediction over North Dakota using air temperature: Development of novel hybrid intelligence model. <i>Energy Reports</i> , 2021, 7, 136-157.	2.5	62
74	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.	0.6	60
75	Uncertainty in Estimated Trends Using Gridded Rainfall Data: A Case Study of Bangladesh. <i>Water (Switzerland)</i> , 2019, 11, 349.	1.2	60
76	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.	1.5	60
77	Spatiotemporal changes in aridity and the shift of drylands in Iran. <i>Atmospheric Research</i> , 2020, 233, 104704.	1.8	58
78	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.	1.9	58
79	Impacts of climate change on groundwater level and irrigation cost in a groundwater dependent irrigated region. <i>Agricultural Water Management</i> , 2018, 208, 33-42.	2.4	57
80	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.	1.3	57
81	Vulnerability of the power sector of Bangladesh to climate change and extreme weather events. <i>Regional Environmental Change</i> , 2012, 12, 595-606.	1.4	56
82	A comparison between index of entropy and catastrophe theory methods for mapping groundwater potential in an arid region. <i>Environmental Monitoring and Assessment</i> , 2015, 187, 576.	1.3	56
83	Uncertainty in Rainfall Intensity Duration Frequency Curves of Peninsular Malaysia under Changing Climate Scenarios. <i>Water (Switzerland)</i> , 2018, 10, 1750.	1.2	56
84	Symmetrical uncertainty and random forest for the evaluation of gridded precipitation and temperature data. <i>Atmospheric Research</i> , 2019, 230, 104632.	1.8	56
85	Selection of GCMs for the projection of spatial distribution of heat waves in Pakistan. <i>Atmospheric Research</i> , 2020, 233, 104688.	1.8	56
86	Advances in CMIP6 INM-CM5 over CMIP5 INM-CM4 for precipitation simulation in South Korea. <i>Atmospheric Research</i> , 2021, 247, 105261.	1.8	56
87	Implementation of evolutionary computing models for reference evapotranspiration modeling: short review, assessment and possible future research directions. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019, 13, 811-823.	1.5	54
88	A review on green economy and development of green roads and highways using carbon neutral materials. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 101, 600-613.	8.2	53
89	Hourly River Flow Forecasting: Application of Emotional Neural Network Versus Multiple Machine Learning Paradigms. <i>Water Resources Management</i> , 2020, 34, 1075-1091.	1.9	53
90	Spatial Pattern of the Unidirectional Trends in Thermal Bioclimatic Indicators in Iran. <i>Sustainability</i> , 2019, 11, 2287.	1.6	52

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91	Forecasting standardized precipitation index using data intelligence models: regional investigation of Bangladesh. <i>Scientific Reports</i> , 2021, 11, 3435.	1.6	52
92	Physical-empirical models for prediction of seasonal rainfall extremes of Peninsular Malaysia. <i>Atmospheric Research</i> , 2020, 233, 104720.	1.8	51
93	Distributional changes in rainfall and river flow in Sarawak, Malaysia. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2017, 53, 489-500.	1.3	50
94	Assessment of drought risk index using drought hazard and vulnerability indices. <i>Arabian Journal of Geosciences</i> , 2018, 11, 1.	0.6	48
95	Parametric Assessment of Seasonal Drought Risk to Crop Production in Bangladesh. <i>Sustainability</i> , 2019, 11, 1442.	1.6	48
96	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.	1.3	47
97	Changes in Climatic Water Availability and Crop Water Demand for Iraq Region. <i>Sustainability</i> , 2020, 12, 3437.	1.6	47
98	Spatiotemporal differences and uncertainties in projections of precipitation and temperature in South Korea from <scp>CMIP6</scp> and <scp>CMIP5</scp> general circulation model<scp>s</scp>. <i>International Journal of Climatology</i> , 2021, 41, 5899-5919.	1.5	47
99	Impact of climate change on regional irrigation water demand in Baojixia irrigation district of China. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2016, 21, 233-247.	1.0	46
100	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.	1.3	45
101	Performance of five high resolution satellite-based precipitation products in arid region of Egypt: An evaluation. <i>Atmospheric Research</i> , 2020, 236, 104809.	1.8	45
102	Inter-comparison of historical simulation and future projections of rainfall and temperature by CMIP5 and CMIP6 GCMs over Egypt. <i>International Journal of Climatology</i> , 2022, 42, 4316-4332.	1.5	45
103	Spatial assessment of groundwater over-exploitation in northwestern districts of Bangladesh. <i>Journal of the Geological Society of India</i> , 2015, 85, 463-470.	0.5	44
104	The new concept of water resources management in China: ensuring water security in changing environment. <i>Environment, Development and Sustainability</i> , 2018, 20, 897-909.	2.7	44
105	Prediction of evaporation in arid and semi-arid regions: a comparative study using different machine learning models. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020, 14, 70-89.	1.5	44
106	Spatio-Temporal Pattern in the Changes in Availability and Sustainability of Water Resources in Afghanistan. <i>Sustainability</i> , 2019, 11, 5836.	1.6	43
107	Quantification and uncertainty of the impact of climate change on river discharge and sediment yield in the Dehbar river basin in Iran. <i>Journal of Soils and Sediments</i> , 2020, 20, 2977-2996.	1.5	43
108	Climate change and water resources management in Tuwei river basin of Northwest China. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2014, 19, 107-120.	1.0	42

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109	A GIS-based integration of catastrophe theory and analytical hierarchy process for mapping flood susceptibility: a case study of Teeb area, Southern Iraq. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	42
110	Unidirectional trends in daily rainfall extremes of Iraq. <i>Theoretical and Applied Climatology</i> , 2018, 134, 1165-1177.	1.3	42
111	GIS Integration of Remote Sensing and Topographic Data Using Fuzzy Logic for Ground Water Assessment in Midnapur District, India. <i>Geocarto International</i> , 2002, 17, 69-74.	1.7	41
112	Spatial interpolation of climatic variables in a predominantly arid region with complex topography. <i>Environment Systems and Decisions</i> , 2014, 34, 555-563.	1.9	41
113	Improving the Muskingum Flood Routing Method Using a Hybrid of Particle Swarm Optimization and Bat Algorithm. <i>Water (Switzerland)</i> , 2018, 10, 807.	1.2	41
114	GCM selection and temperature projection of Nigeria under different RCPs of the CMIP5 GCMS. <i>Theoretical and Applied Climatology</i> , 2020, 141, 1611-1627.	1.3	41
115	Prediction of copper ions adsorption by attapulgite adsorbent using tuned-artificial intelligence model. <i>Chemosphere</i> , 2021, 276, 130162.	4.2	41
116	Development of new machine learning model for streamflow prediction: case studies in Pakistan. <i>Stochastic Environmental Research and Risk Assessment</i> , 2022, 36, 999-1033.	1.9	41
117	Historic water consumptions and future management strategies for Haihe River basin of Northern China. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2015, 20, 371-387.	1.0	40
118	A GIS-Based Integrated Fuzzy Logic and Analytic Hierarchy Process Model for Assessing Water-Harvesting Zones in Northeastern Maysan Governorate, Iraq. <i>Arabian Journal for Science and Engineering</i> , 2017, 42, 2487-2499.	1.7	40
119	Modeling water quality and hydrological variables using ARIMA: a case study of Johor River, Malaysia. <i>Sustainable Water Resources Management</i> , 2018, 4, 991-998.	1.0	39
120	A novel selection method of CMIP6 GCMs for robust climate projection. <i>International Journal of Climatology</i> , 2022, 42, 4258-4272.	1.5	39
121	Viability of the advanced adaptive neuro-fuzzy inference system model on reservoir evaporation process simulation: case study of Nasser Lake in Egypt. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019, 13, 878-891.	1.5	38
122	Development of high-resolution daily gridded temperature datasets for the central north region of Egypt. <i>Scientific Data</i> , 2019, 6, 138.	2.4	38
123	Selection of CMIP5 general circulation model outputs of precipitation for peninsular Malaysia. <i>Hydrology Research</i> , 2020, 51, 781-798.	1.1	38
124	Construction labour productivity: review of factors identified. <i>International Journal of Construction Management</i> , 2022, 22, 413-425.	2.2	37
125	Performance evaluation of reanalysis precipitation products in Egypt using fuzzy entropy time series similarity analysis. <i>International Journal of Climatology</i> , 2021, 41, 5431-5446.	1.5	37
126	Future precipitation changes in Egypt under the 1.5 and 2.0 °C global warming goals using CMIP6 multimodel ensemble. <i>Atmospheric Research</i> , 2022, 265, 105908.	1.8	37

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127	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.	2.3	36
128	Evaluation of the performance of gridded precipitation products over Balochistan Province, Pakistan. , 0, 79, 73-86.		36
129	Effective Design and Planning Specification of Low Impact Development Practices Using Water Management Analysis Module (WMAM): Case of Malaysia. <i>Water (Switzerland)</i> , 2017, 9, 173.	1.2	35
130	Evaluation of global climate models for precipitation projection in sub-Himalaya region of Pakistan. <i>Atmospheric Research</i> , 2020, 245, 105061.	1.8	35
131	Deciphering transmissivity and hydraulic conductivity of the aquifer by vertical electrical sounding (VES) experiments in Northwest Bangladesh. <i>Applied Water Science</i> , 2016, 6, 35-45.	2.8	34
132	Development of Climate-Based Index for Hydrologic Hazard Susceptibility. <i>Sustainability</i> , 2018, 10, 2182.	1.6	34
133	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.	1.8	34
134	Absolute homogeneity assessment of precipitation time series in an arid region of Pakistan. <i>Atmosfera</i> , 2018, 31, 301-316.	0.3	34
135	Nitrate Adsorption on Clay Kaolin: Batch Tests. <i>Journal of Chemistry</i> , 2015, 2015, 1-7.	0.9	33
136	Challenges in water resources of Lagos mega city of Nigeria in the context of climate change. <i>Journal of Water and Climate Change</i> , 2020, 11, 1067-1083.	1.2	33
137	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.	1.3	33
138	Reliabilityâ€“Resiliencyâ€“Vulnerability Approach for Drought Analysis in South Korea Using 28 GCMs. <i>Sustainability</i> , 2018, 10, 3043.	1.6	32
139	Development of multi-model ensemble for projection of extreme rainfall events in Peninsular Malaysia. <i>Hydrology Research</i> , 2019, 50, 1772-1788.	1.1	32
140	Evaluation of remotely sensed precipitation sources for drought assessment in Semi-Arid Iraq. <i>Atmospheric Research</i> , 2020, 242, 105007.	1.8	32
141	Differences in extremes and uncertainties in future runoff simulations using SWAT and LSTM for SSP scenarios. <i>Science of the Total Environment</i> , 2022, 838, 156162.	3.9	32
142	Modeling Irrigation Water Demand in a Tropical Paddy Cultivated Area in the Context of Climate Change. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2017, 143, .	1.3	30
143	Downscaling and Projection of Spatiotemporal Changes in Temperature of Bangladesh. <i>Earth Systems and Environment</i> , 2019, 3, 381-398.	3.0	30
144	Open Channel Sluice Gate Scouring Parameters Prediction: Different Scenarios of Dimensional and Non-Dimensional Input Parameters. <i>Water (Switzerland)</i> , 2019, 11, 353.	1.2	30

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145	Determination of biochemical oxygen demand and dissolved oxygen for semi-arid river environment: application of soft computing models. <i>Environmental Science and Pollution Research</i> , 2019, 26, 923-937.	2.7	30
146	Potential impact of climate change on future water demand in Yulin city, Northwest China. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2015, 20, 1-19.	1.0	29
147	Spatial mapping of artesian zone at Iraqi southern desert using a GIS-based random forest machine learning model. <i>Modeling Earth Systems and Environment</i> , 2016, 2, 1.	1.9	29
148	Impact of temperature changes on groundwater levels and irrigation costs in a groundwater-dependent agricultural region in Northwest Bangladesh. <i>Hydrological Research Letters</i> , 2017, 11, 85-91.	0.3	29
149	Characteristics of Annual and Seasonal Trends of Rainfall and Temperature in Iraq. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2019, 55, 429-438.	1.3	29
150	Projection of Agricultural Water Stress for Climate Change Scenarios: A Regional Case Study of Iraq. <i>Agriculture (Switzerland)</i> , 2021, 11, 1288.	1.4	29
151	Assessment of Greenhouse Gas Emission Reduction Measures in Transportation Sector of Malaysia. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2014, 70, .	0.3	28
152	Integration of catastrophe and entropy theories for flood risk mapping in peninsular Malaysia. <i>Journal of Flood Risk Management</i> , 2021, 14, e12686.	1.6	28
153	Removal Techniques of Nitrate from Water. <i>Asian Journal of Chemistry</i> , 2014, 26, 7881-7886.	0.1	27
154	A Hybrid Model for Statistical Downscaling of Daily Rainfall. <i>Procedia Engineering</i> , 2016, 154, 1424-1430.	1.2	27
155	Spatial Mapping of Groundwater Potential Using Entropy Weighted Linear Aggregate Novel Approach and GIS. <i>Arabian Journal for Science and Engineering</i> , 2017, 42, 1185-1199.	1.7	27
156	Impact of landuse on groundwater quality of Bangladesh. <i>Sustainable Water Resources Management</i> , 2018, 4, 1031-1036.	1.0	26
157	Assessment of changing pattern of crop water stress in Bangladesh. <i>Environment, Development and Sustainability</i> , 2020, 22, 4619-4637.	2.7	26
158	A Newly Developed Integrative Bio-Inspired Artificial Intelligence Model for Wind Speed Prediction. <i>IEEE Access</i> , 2020, 8, 83347-83358.	2.6	26
159	Integrative stochastic model standardization with genetic algorithm for rainfall pattern forecasting in tropical and semi-arid environments. <i>Hydrological Sciences Journal</i> , 2020, 65, 1145-1157.	1.2	25
160	Differences in multi-model ensembles of CMIP5 and CMIP6 projections for future droughts in South Korea. <i>International Journal of Climatology</i> , 2022, 42, 2688-2716.	1.5	25
161	Effect of land use land cover changes on land surface temperature during 1984–2020: a case study of Baghdad city using landsat image. <i>Natural Hazards</i> , 2022, 112, 1223-1246.	1.6	25
162	Evaluation of spatio-temporal rainfall variability and performance of a stochastic rainfall model in Bangladesh. <i>International Journal of Climatology</i> , 2019, 39, 4256-4273.	1.5	24

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