Rajib Maity

List of Publications by Year in Descending Order

84 papers	**990** citations	**18** h-index	**28** g-index
92 ext. papers	**1,217** ext. citations	**3.2** avg, IF	**5.32** L-index

#	Paper	IF	Citations
84	Theory of Copula in Hydrology and Hydroclimatology. *Springer Transactions in Civil and Environmental Engineering*, **2022**, 373-416	0.4	
83	Short and Medium Range Forecast of Soil Moisture for the Different Climatic Regions of India Using Temporal Networks. *Water Resources Management*, **2022**, 36, 235	3.7	0
82	Future of solar energy potential in a changing climate across the world: A CMIP6 multi-model ensemble analysis. *Renewable Energy*, **2022**, 188, 819-829	8.1	2
81	Assessment of basin-wise future agricultural drought status across India under changing climate. *Journal of Water and Climate Change*, **2021**, 12, 2400-2421	2.3	2
80	Potential of Deep Learning in drought assessment by extracting information from hydrometeorological precursors. *Journal of Water and Climate Change*, **2021**, 12, 2774-2796	2.3	7
79	Global climate shift in 1970s causes a significant worldwide increase in precipitation extremes. *Scientific Reports*, **2021**, 11, 11574	4.9	5
78	Benefit of Time-Varying Models Developed Using Graphical Modeling Approach for Probabilistic Prediction of Monthly Streamflow. *Water Science and Technology Library*, **2021**, 115-126	0.3	
77	Time-Varying Downscaling Model (TVDM) and its Benefit to Capture Extreme Rainfall. *Water Science and Technology Library*, **2021**, 79-89	0.3	
76	Revealing alarming changes in spatial coverage of joint hot and wet extremes across India. *Scientific Reports*, **2021**, 11, 18031	4.9	2
75	Long-term simulation of daily rainfall across India: Performance of cumulus convection schemes in regional climate model during southwest and northeast monsoon. *Atmospheric Research*, **2021**, 259, 105675	5.4	
74	Assimilation of remote sensing based surface soil moisture to develop a spatially varying vertical soil moisture profile database for entire Indian mainland. *Journal of Hydrology*, **2021**, 601, 126807	6	2
73	Time-varying network-based approach for capturing hydrological extremes under climate change with application on drought. *Journal of Hydrology*, **2021**, 603, 126958	6	3
72	Estimation of Probable Maximum Precipitation in the context of climate change. *MethodsX*, **2020**, 7, 100904	1.9	8
71	Assessment of Extreme Precipitation in Future through Time-Invariant and Time-Varying Downscaling Approaches. *Water Resources Management*, **2020**, 34, 1809-1826	3.7	5
70	Spatial variation in long-lead predictability of summer monsoon rainfall using a time-varying model and global climatic indices. *International Journal of Climatology*, **2020**, 40, 5925-5940	3.5	8
69	Hybrid Deep Learning Approach for Multi-Step-Ahead Daily Rainfall Prediction Using GCM Simulations. *IEEE Access*, **2020**, 8, 52774-52784	3.5	19
68	Increase in probable maximum precipitation in a changing climate over India. *Journal of Hydrology*, **2020**, 585, 124806	6	18

67	Contrasting features of hydroclimatic teleconnections and the predictability of seasonal rainfall over east and west Japan. *Meteorological Applications*, **2020**, 27, e1881	2.1	3
66	Long-lead Prediction of ENSO Modoki Index using Machine Learning algorithms. *Scientific Reports*, **2020**, 10, 365	4.9	13
65	Southward shift of precipitation extremes over south Asia: Evidences from CORDEX data. *Scientific Reports*, **2020**, 10, 6452	4.9	21
64	High-resolution one-day probable maximum precipitation dataset across India and its future-projected changes over India. *Data in Brief*, **2020**, 30, 105525	1.2	1
63	Temporal Networks-Based Approach for Nonstationary Hydroclimatic Modeling and its Demonstration With Streamflow Prediction. *Water Resources Research*, **2020**, 56, e2020WR027086	5.4	11
62	Identification of potential causal variables for statistical downscaling models: effectiveness of graphical modeling approach. *Theoretical and Applied Climatology*, **2020**, 142, 1255-1269	3	2
61	How far the CORDEX high-resolution data represents observed precipitation: an analysis across Indian mainland. *Theoretical and Applied Climatology*, **2020**, 142, 899-910	3	1
60	Measuring near-saturated hydraulic conductivity of soils by quasi unit-gradient percolation☒. Application of the methodology. *Journal of Plant Nutrition and Soil Science*, **2019**, 182, 535-540	2.3	2
59	Measuring near-saturated hydraulic conductivity of soils by quasi unit-gradient percolation☒. Theory and numerical analysis. *Journal of Plant Nutrition and Soil Science*, **2019**, 182, 524-534	2.3	3
58	Predictability of Hydrological Systems Using the Wavelet Transformation: Application to Drought Prediction. *Springer Water*, **2019**, 109-137	0.3	2
57	Bias Correction of Zero-Inflated RCM Precipitation Fields: A Copula-Based Scheme for Both Mean and Extreme Conditions. *Journal of Hydrometeorology*, **2019**, 20, 595-611	3.7	14
56	Spectral Wave Characteristics over the Head Bay of Bengal: A Modeling Study. *Pure and Applied Geophysics*, **2019**, 176, 5463-5486	2.2	5
55	Hybrid Wavelet-ARX approach for modeling association between rainfall and meteorological forcings at river basin scale. *Journal of Hydrology*, **2019**, 577, 123918	6	1
54	Temporal evolution of precipitation-based climate change indices across India: contrast between pre- and post-1975 features. *Theoretical and Applied Climatology*, **2019**, 138, 1667-1678	3	14
53	Soil Moisture Retrieval Using Quad-Polarized SAR Data from Radar Imaging Satellite 1 (RISAT1) Through Artificial Intelligence-Based Soft Computing Techniques **2019**, 47, 1671-1682		0
52	Assessment of Streamflow Variability with Upgraded HydroClimatic Conceptual Streamflow Model. *Water Resources Management*, **2019**, 33, 1367-1382	3.7	2
51	Development of a spatially-varying Statistical Soil Moisture Profile model by coupling memory and forcing using hydrologic soil groups. *Journal of Hydrology*, **2019**, 570, 141-155	6	10
50	Development of a time-varying downscaling model considering non-stationarity using a Bayesian approach. *International Journal of Climatology*, **2018**, 38, 3157-3176	3.5	8

49	Statistical Methods in Hydrology and Hydroclimatology. *Springer Transactions in Civil and Environmental Engineering*, **2018**,	0.4	21
48	Temporal evolution of hydroclimatic teleconnection and a time-varying model for long-lead prediction of Indian summer monsoon rainfall. *Scientific Reports*, **2018**, 8, 10778	4.9	21
47	Modeling of local sea level rise and its future projection under climate change using regional information through EOF analysis. *Theoretical and Applied Climatology*, **2018**, 134, 1269-1285	3	2
46	Global Climate Pattern Behind Hydrological Extremes in Central India. *Water Science and Technology Library*, **2018**, 71-89	0.3	
45	Assessment of Trend in Global Drought Propensity in the Twenty-First Century Using Drought Management Index. *Water Resources Management*, **2017**, 31, 1209-1225	3.7	3
44	. *IEEE Transactions on Geoscience and Remote Sensing*, **2017**, 55, 1351-1362	8.1	13
43	Development of a method to identify change in the pattern of extreme streamflow events in future climate: Application on the Bhadra reservoir inflow in India. *Journal of Hydrology: Regional Studies*, **2017**, 9, 236-246	3.6	13
42	Hydroclimatic modelling of local sea level rise and its projection in future. *Theoretical and Applied Climatology*, **2017**, 130, 761-774	3	6
41	Spatio-temporal downscaling of projected precipitation in the 21st century: indication of a wetter monsoon over the Upper Mahanadi Basin, India. *Hydrological Sciences Journal*, **2016**, 1-16	3.5	7
40	Drought prediction using a wavelet based approach to model the temporal consequences of different types of droughts. *Journal of Hydrology*, **2016**, 539, 417-428	6	35
39	Uncovering global climate fields causing local precipitation extremes. *Hydrological Sciences Journal*, **2016**, 1-11	3.5	4
38	Statistical Modelling of Vertical Soil Moisture Profile: Coupling of Memory and Forcing. *Water Resources Management*, **2016**, 30, 1973-1986	3.7	8
37	Closure to Meteorological Drought Quantification with Standardized Precipitation Anomaly Index for the Regions with Strongly Seasonal and Periodic Precipitation by Kironmala Chanda and Rajib Maity. *Journal of Hydrologic Engineering - ASCE*, **2016**, 21, 07016004	1.8	
36	Do CMIP5 models hint at a warmer and wetter India in the 21st century?. *Journal of Water and Climate Change*, **2016**, 7, 280-295	2.3	10
35	Potential of Probabilistic Hydrometeorological Approach for Precipitation-Based Soil Moisture Estimation. *Journal of Hydrologic Engineering - ASCE*, **2015**, 20, 04014056	1.8	6
34	Alternative Approach for Estimation of Precipitation Using Doppler Weather Radar Data. *Journal of Hydrologic Engineering - ASCE*, **2015**, 20, 04015006	1.8	1
33	Meteorological Drought Quantification with Standardized Precipitation Anomaly Index for the Regions with Strongly Seasonal and Periodic Precipitation. *Journal of Hydrologic Engineering - ASCE*, **2015**, 20, 06015007	1.8	30
32	Predictor selection for streamflows using a graphical modeling approach. *Stochastic Environmental Research and Risk Assessment*, **2015**, 29, 1583-1599	3.5	5

31	A hydrometeorological approach for probabilistic simulation of monthly soil moisture under bare and crop land conditions. *Water Resources Research*, **2015**, 51, 2336-2355	5.4	10
30	Potential of Genetic Programming in Hydroclimatic Prediction of Droughts: An Indian Perspective **2015**, 381-398		1
29	Reply to the Discussion by Haddad et al. on "Hydroclimatic stream flow prediction using least square-support vector regression" by Bhagwat and Maity (2013)". *ISH Journal of Hydraulic Engineering*, **2014**, 20, 276-277	1.5	
28	Spatiotemporal variation of long-term drought propensity through reliability-resilience-vulnerability based Drought Management Index. *Water Resources Research*, **2014**, 50, 7662-7676	5.4	30
27	Development of HydroClimatic Conceptual Streamflow (HCCS) model for tropical river basin. *Journal of Water and Climate Change*, **2014**, 5, 36-60	2.3	5
26	Characterizing Drought Using the Reliability-Resilience-Vulnerability Concept. *Journal of Hydrologic Engineering - ASCE*, **2013**, 18, 859-869	1.8	33
25	Identification of hydrologic drought triggers from hydroclimatic predictor variables. *Water Resources Research*, **2013**, 49, 4476-4492	5.4	41
24	Hydroclimatic streamflow prediction using Least Square-Support Vector Regression. *ISH Journal of Hydraulic Engineering*, **2013**, 19, 320-328	1.5	14
23	Probabilistic simulation of surface soil moisture using hydrometeorological inputs. *ISH Journal of Hydraulic Engineering*, **2013**, 19, 227-234	1.5	3
22	Prediction of monthly rainfall on homogeneous monsoon regions of India based on large scale circulation patterns using Genetic Programming. *Journal of Hydrology*, **2012**, 454-455, 26-41	6	54
21	Probabilistic assessment of one-step-ahead rainfall variation by Split Markov Process. *Hydrological Processes*, **2012**, 26, 3182-3194	3.3	2
20	Multistep-ahead River Flow Prediction using LS-SVR at Daily Scale. *Journal of Water Resource and Protection*, **2012**, 04, 528-539	0.7	25
19	Importance analysis of local and global climate inputs for basin-scale streamflow prediction. *Water Resources Research*, **2011**, 47,	5.4	26
18	Short-Term Basin-Scale Streamflow Forecasting Using Large-Scale Coupled Atmospheric-Oceanic Circulation and Local Outgoing Longwave Radiation. *Journal of Hydrometeorology*, **2010**, 11, 370-387	3.7	14
17	Streamflow prediction using multi-site rainfall obtained from hydroclimatic teleconnection. *Journal of Hydrology*, **2010**, 395, 23-38	6	38
16	Potential of support vector regression for prediction of monthly streamflow using endogenous property. *Hydrological Processes*, **2010**, 24, 917-923	3.3	96
15	HYDROCLIMATOLOGICAL APPROACH FOR MONTHLY STREAMFLOW PREDICTION USING GENETIC PROGRAMMING. *ISH Journal of Hydraulic Engineering*, **2009**, 15, 89-107	1.5	2
14	Hydroclimatic influence of large-scale circulation on the variability of reservoir inflow. *Hydrological Processes*, **2009**, 23, 934-942	3.3	12

13	HYDROMETEROLOGICAL MODELING APPROACHES USING SUPPORT VECTOR REGRESSION (SVR) AND GENETIC PROGRAMMING (GP). *ISH Journal of Hydraulic Engineering*, **2009**, 15, 244-257	1.5	
12	Probabilistic prediction of hydroclimatic variables with nonparametric quantification of uncertainty. *Journal of Geophysical Research*, **2008**, 113,		35
11	Basin-scale stream-flow forecasting using the information of large-scale atmospheric circulation phenomena. *Hydrological Processes*, **2008**, 22, 643-650	3.3	32
10	Bayesian dynamic modelling for nonstationary hydroclimatic time series forecasting along with uncertainty quantification. *Hydrological Processes*, **2008**, 22, 3488-3499	3.3	16
9	Hydroclimatic teleconnection between global sea surface temperature and rainfall over India at subdivisional monthly scale. *Hydrological Processes*, **2007**, 21, 1802-1813	3.3	14
8	REVIEW OF HYDROCLIMATIC TELECONNECTION BETWEEN HYDROLOGIC VARIABLES AND LARGE-SCALE ATMOSPHERIC CIRCULATION PATTERNS WITH INDIAN PERSPECTIVE. *ISH Journal of Hydraulic Engineering*, **2007**, 13, 77-92	1.5	17
7	Regional Rainfall Forecasting using Large Scale Climate Teleconnections and Artificial Intelligence Techniques. *Journal of Intelligent Systems*, **2007**, 16,	1.5	6
6	Hydroclimatic association of the monthly summer monsoon rainfall over India with large-scale atmospheric circulations from tropical Pacific Ocean and the Indian Ocean region. *Atmospheric Science Letters*, **2006**, 7, 101-107	2.4	19
5	Artificial Neural Network Approach for Streamflow Forecasting in India Using ENSO and EQUINOO **2006**, 1		1
4	Bayesian dynamic modeling for monthly Indian summer monsoon rainfall using El Niño Southern Oscillation (ENSO) and Equatorial Indian Ocean Oscillation (EQUINOO). *Journal of Geophysical Research*, **2006**, 111,		63
3	Benefit of time-varying downscaling model for the assessment of urban temperature rise. *Modeling Earth Systems and Environment*, 1	3.2	0
2	Value addition in coupled model intercomparison project phase 6 over phase 5: global perspectives of precipitation, temperature and soil moisture fields. *Acta Geophysica*, 1	2.2	0
1	Hybrid deep learning approach for multi-step-ahead prediction for daily maximum temperature and heatwaves. *Theoretical and Applied Climatology*,	3	2