

Rajib Maity

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Potential of support vector regression for prediction of monthly streamflow using endogenous property. <i>Hydrological Processes</i> , 2010 , 24, 917-923	3.3	96
83	Bayesian dynamic modeling for monthly Indian summer monsoon rainfall using El Niño Southern Oscillation (ENSO) and Equatorial Indian Ocean Oscillation (EQUINOO). <i>Journal of Geophysical Research</i> , 2006 , 111,		63
82	Prediction of monthly rainfall on homogeneous monsoon regions of India based on large scale circulation patterns using Genetic Programming. <i>Journal of Hydrology</i> , 2012 , 454-455, 26-41	6	54
81	Identification of hydrologic drought triggers from hydroclimatic predictor variables. <i>Water Resources Research</i> , 2013 , 49, 4476-4492	5.4	41
80	Streamflow prediction using multi-site rainfall obtained from hydroclimatic teleconnection. <i>Journal of Hydrology</i> , 2010 , 395, 23-38	6	38
79	Drought prediction using a wavelet based approach to model the temporal consequences of different types of droughts. <i>Journal of Hydrology</i> , 2016 , 539, 417-428	6	35
78	Probabilistic prediction of hydroclimatic variables with nonparametric quantification of uncertainty. <i>Journal of Geophysical Research</i> , 2008 , 113,		35
77	Characterizing Drought Using the Reliability-Resilience-Vulnerability Concept. <i>Journal of Hydrologic Engineering - ASCE</i> , 2013 , 18, 859-869	1.8	33
76	Basin-scale stream-flow forecasting using the information of large-scale atmospheric circulation phenomena. <i>Hydrological Processes</i> , 2008 , 22, 643-650	3.3	32
75	Meteorological Drought Quantification with Standardized Precipitation Anomaly Index for the Regions with Strongly Seasonal and Periodic Precipitation. <i>Journal of Hydrologic Engineering - ASCE</i> , 2015 , 20, 06015007	1.8	30
74	Spatiotemporal variation of long-term drought propensity through reliability-resilience-vulnerability based Drought Management Index. <i>Water Resources Research</i> , 2014 , 50, 7662-7676	5.4	30
73	Importance analysis of local and global climate inputs for basin-scale streamflow prediction. <i>Water Resources Research</i> , 2011 , 47,	5.4	26
72	Multistep-ahead River Flow Prediction using LS-SVR at Daily Scale. <i>Journal of Water Resource and Protection</i> , 2012 , 04, 528-539	0.7	25
71	Southward shift of precipitation extremes over south Asia: Evidences from CORDEX data. <i>Scientific Reports</i> , 2020 , 10, 6452	4.9	21
70	Statistical Methods in Hydrology and Hydroclimatology. <i>Springer Transactions in Civil and Environmental Engineering</i> , 2018 ,	0.4	21
69	Temporal evolution of hydroclimatic teleconnection and a time-varying model for long-lead prediction of Indian summer monsoon rainfall. <i>Scientific Reports</i> , 2018 , 8, 10778	4.9	21
68	Hybrid Deep Learning Approach for Multi-Step-Ahead Daily Rainfall Prediction Using GCM Simulations. <i>IEEE Access</i> , 2020 , 8, 52774-52784	3.5	19

67	Hydroclimatic association of the monthly summer monsoon rainfall over India with large-scale atmospheric circulations from tropical Pacific Ocean and the Indian Ocean region. <i>Atmospheric Science Letters</i> , 2006 , 7, 101-107	2.4	19
66	Increase in probable maximum precipitation in a changing climate over India. <i>Journal of Hydrology</i> , 2020 , 585, 124806	6	18
65	REVIEW OF HYDROCLIMATIC TELECONNECTION BETWEEN HYDROLOGIC VARIABLES AND LARGE-SCALE ATMOSPHERIC CIRCULATION PATTERNS WITH INDIAN PERSPECTIVE. <i>ISH Journal of Hydraulic Engineering</i> , 2007 , 13, 77-92	1.5	17
64	Bayesian dynamic modelling for nonstationary hydroclimatic time series forecasting along with uncertainty quantification. <i>Hydrological Processes</i> , 2008 , 22, 3488-3499	3.3	16
63	Bias Correction of Zero-Inflated RCM Precipitation Fields: A Copula-Based Scheme for Both Mean and Extreme Conditions. <i>Journal of Hydrometeorology</i> , 2019 , 20, 595-611	3.7	14
62	Temporal evolution of precipitation-based climate change indices across India: contrast between pre- and post-1975 features. <i>Theoretical and Applied Climatology</i> , 2019 , 138, 1667-1678	3	14
61	Hydroclimatic streamflow prediction using Least Square-Support Vector Regression. <i>ISH Journal of Hydraulic Engineering</i> , 2013 , 19, 320-328	1.5	14
60	Short-Term Basin-Scale Streamflow Forecasting Using Large-Scale Coupled Atmospheric-Oceanic Circulation and Local Outgoing Longwave Radiation. <i>Journal of Hydrometeorology</i> , 2010 , 11, 370-387	3.7	14
59	Hydroclimatic teleconnection between global sea surface temperature and rainfall over India at subdivisional monthly scale. <i>Hydrological Processes</i> , 2007 , 21, 1802-1813	3.3	14
58	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017 , 55, 1351-1362	8.1	13
57	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. <i>Journal of Hydrology: Regional Studies</i> , 2017 , 9, 236-246	3.6	13
56	Long-lead Prediction of ENSO Modoki Index using Machine Learning algorithms. <i>Scientific Reports</i> , 2020 , 10, 365	4.9	13
55	Hydroclimatic influence of large-scale circulation on the variability of reservoir inflow. <i>Hydrological Processes</i> , 2009 , 23, 934-942	3.3	12
54	Temporal Networks-Based Approach for Nonstationary Hydroclimatic Modeling and its Demonstration With Streamflow Prediction. <i>Water Resources Research</i> , 2020 , 56, e2020WR027086	5.4	11
53	A hydrometeorological approach for probabilistic simulation of monthly soil moisture under bare and crop land conditions. <i>Water Resources Research</i> , 2015 , 51, 2336-2355	5.4	10
52	Do CMIP5 models hint at a warmer and wetter India in the 21st century?. <i>Journal of Water and Climate Change</i> , 2016 , 7, 280-295	2.3	10
51	Development of a spatially-varying Statistical Soil Moisture Profile model by coupling memory and forcing using hydrologic soil groups. <i>Journal of Hydrology</i> , 2019 , 570, 141-155	6	10
50	Estimation of Probable Maximum Precipitation in the context of climate change. <i>MethodsX</i> , 2020 , 7, 100904	10	8

49	Spatial variation in long-lead predictability of summer monsoon rainfall using a time-varying model and global climatic indices. <i>International Journal of Climatology</i> , 2020 , 40, 5925-5940	3.5	8
48	Development of a time-varying downscaling model considering non-stationarity using a Bayesian approach. <i>International Journal of Climatology</i> , 2018 , 38, 3157-3176	3.5	8
47	Statistical Modelling of Vertical Soil Moisture Profile: Coupling of Memory and Forcing. <i>Water Resources Management</i> , 2016 , 30, 1973-1986	3.7	8
46	Spatio-temporal downscaling of projected precipitation in the 21st century: indication of a wetter monsoon over the Upper Mahanadi Basin, India. <i>Hydrological Sciences Journal</i> , 2016 , 1-16	3.5	7
45	Potential of Deep Learning in drought assessment by extracting information from hydrometeorological precursors. <i>Journal of Water and Climate Change</i> , 2021 , 12, 2774-2796	2.3	7
44	Potential of Probabilistic Hydrometeorological Approach for Precipitation-Based Soil Moisture Estimation. <i>Journal of Hydrologic Engineering - ASCE</i> , 2015 , 20, 04014056	1.8	6
43	Hydroclimatic modelling of local sea level rise and its projection in future. <i>Theoretical and Applied Climatology</i> , 2017 , 130, 761-774	3	6
42	Regional Rainfall Forecasting using Large Scale Climate Teleconnections and Artificial Intelligence Techniques. <i>Journal of Intelligent Systems</i> , 2007 , 16,	1.5	6
41	Predictor selection for streamflows using a graphical modeling approach. <i>Stochastic Environmental Research and Risk Assessment</i> , 2015 , 29, 1583-1599	3.5	5
40	Assessment of Extreme Precipitation in Future through Time-Invariant and Time-Varying Downscaling Approaches. <i>Water Resources Management</i> , 2020 , 34, 1809-1826	3.7	5
39	Spectral Wave Characteristics over the Head Bay of Bengal: A Modeling Study. <i>Pure and Applied Geophysics</i> , 2019 , 176, 5463-5486	2.2	5
38	Development of HydroClimatic Conceptual Streamflow (HCCS) model for tropical river basin. <i>Journal of Water and Climate Change</i> , 2014 , 5, 36-60	2.3	5
37	Global climate shift in 1970s causes a significant worldwide increase in precipitation extremes. <i>Scientific Reports</i> , 2021 , 11, 11574	4.9	5
36	Uncovering global climate fields causing local precipitation extremes. <i>Hydrological Sciences Journal</i> , 2016 , 1-11	3.5	4
35	Assessment of Trend in Global Drought Propensity in the Twenty-First Century Using Drought Management Index. <i>Water Resources Management</i> , 2017 , 31, 1209-1225	3.7	3
34	Measuring near-saturated hydraulic conductivity of soils by quasi unit-gradient percolation. Theory and numerical analysis. <i>Journal of Plant Nutrition and Soil Science</i> , 2019 , 182, 524-534	2.3	3
33	Contrasting features of hydroclimatic teleconnections and the predictability of seasonal rainfall over east and west Japan. <i>Meteorological Applications</i> , 2020 , 27, e1881	2.1	3
32	Probabilistic simulation of surface soil moisture using hydrometeorological inputs. <i>ISH Journal of Hydraulic Engineering</i> , 2013 , 19, 227-234	1.5	3

31	Time-varying network-based approach for capturing hydrological extremes under climate change with application on drought. <i>Journal of Hydrology</i> , 2021 , 603, 126958	6	3
30	Measuring near-saturated hydraulic conductivity of soils by quasi unit-gradient percolation. Application of the methodology. <i>Journal of Plant Nutrition and Soil Science</i> , 2019 , 182, 535-540	2.3	2
29	Predictability of Hydrological Systems Using the Wavelet Transformation: Application to Drought Prediction. <i>Springer Water</i> , 2019 , 109-137	0.3	2
28	Probabilistic assessment of one-step-ahead rainfall variation by Split Markov Process. <i>Hydrological Processes</i> , 2012 , 26, 3182-3194	3.3	2
27	HYDROCLIMATOLOGICAL APPROACH FOR MONTHLY STREAMFLOW PREDICTION USING GENETIC PROGRAMMING. <i>ISH Journal of Hydraulic Engineering</i> , 2009 , 15, 89-107	1.5	2
26	Identification of potential causal variables for statistical downscaling models: effectiveness of graphical modeling approach. <i>Theoretical and Applied Climatology</i> , 2020 , 142, 1255-1269	3	2
25	Assessment of basin-wise future agricultural drought status across India under changing climate. <i>Journal of Water and Climate Change</i> , 2021 , 12, 2400-2421	2.3	2
24	Assessment of Streamflow Variability with Upgraded HydroClimatic Conceptual Streamflow Model. <i>Water Resources Management</i> , 2019 , 33, 1367-1382	3.7	2
23	Modeling of local sea level rise and its future projection under climate change using regional information through EOF analysis. <i>Theoretical and Applied Climatology</i> , 2018 , 134, 1269-1285	3	2
22	Revealing alarming changes in spatial coverage of joint hot and wet extremes across India. <i>Scientific Reports</i> , 2021 , 11, 18031	4.9	2
21	Assimilation of remote sensing based surface soil moisture to develop a spatially varying vertical soil moisture profile database for entire Indian mainland. <i>Journal of Hydrology</i> , 2021 , 601, 126807	6	2
20	Future of solar energy potential in a changing climate across the world: A CMIP6 multi-model ensemble analysis. <i>Renewable Energy</i> , 2022 , 188, 819-829	8.1	2
19	Hybrid deep learning approach for multi-step-ahead prediction for daily maximum temperature and heatwaves. <i>Theoretical and Applied Climatology</i> ,	3	2
18	Alternative Approach for Estimation of Precipitation Using Doppler Weather Radar Data. <i>Journal of Hydrologic Engineering - ASCE</i> , 2015 , 20, 04015006	1.8	1
17	High-resolution one-day probable maximum precipitation dataset across India and its future-projected changes over India. <i>Data in Brief</i> , 2020 , 30, 105525	1.2	1
16	Hybrid Wavelet-ARX approach for modeling association between rainfall and meteorological forcings at river basin scale. <i>Journal of Hydrology</i> , 2019 , 577, 123918	6	1
15	Artificial Neural Network Approach for Streamflow Forecasting in India Using ENSO and EQUINOO 2006 , 1		1
14	Potential of Genetic Programming in Hydroclimatic Prediction of Droughts: An Indian Perspective 2015 , 381-398		1

13	How far the CORDEX high-resolution data represents observed precipitation: an analysis across Indian mainland. <i>Theoretical and Applied Climatology</i> , 2020 , 142, 899-910	3	1
12	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
11	Short and Medium Range Forecast of Soil Moisture for the Different Climatic Regions of India Using Temporal Networks. <i>Water Resources Management</i> , 2022 , 36, 235	3.7	0
10	Benefit of time-varying downscaling model for the assessment of urban temperature rise. <i>Modeling Earth Systems and Environment</i> ,1	3.2	0
9	Value addition in coupled model intercomparison project phase 6 over phase 5: global perspectives of precipitation, temperature and soil moisture fields. <i>Acta Geophysica</i> ,1	2.2	0
8	Reply to the Discussion by Haddad et al. on Hydroclimatic stream flow prediction using least square-support vector regression by Bhagwat and Maity (2013) <i>ISH Journal of Hydraulic Engineering</i> , 2014 , 20, 276-277	1.5	
7	HYDROMETEROLOGICAL MODELING APPROACHES USING SUPPORT VECTOR REGRESSION (SVR) AND GENETIC PROGRAMMING (GP). <i>ISH Journal of Hydraulic Engineering</i> , 2009 , 15, 244-257	1.5	
6	Theory of Copula in Hydrology and Hydroclimatology. <i>Springer Transactions in Civil and Environmental Engineering</i> , 2022 , 373-416		0.4
5	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. <i>Journal of Hydrologic Engineering - ASCE</i> , 2016 , 21, 07016004	1.8	
4	Benefit of Time-Varying Models Developed Using Graphical Modeling Approach for Probabilistic Prediction of Monthly Streamflow. <i>Water Science and Technology Library</i> , 2021 , 115-126		0.3
3	Time-Varying Downscaling Model (TVDM) and its Benefit to Capture Extreme Rainfall. <i>Water Science and Technology Library</i> , 2021 , 79-89		0.3
2	Global Climate Pattern Behind Hydrological Extremes in Central India. <i>Water Science and Technology Library</i> , 2018 , 71-89		0.3
1	Long-term simulation of daily rainfall across India: Performance of cumulus convection schemes in regional climate model during southwest and northeast monsoon. <i>Atmospheric Research</i> , 2021 , 259, 105675	5.4	5