

Maheswaran Rathinasamy

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

1,536
citations

257101

24
h-index

315357

38
g-index

47
all docs

47
docs citations

47
times ranked

1096
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative study of different wavelets for hydrologic forecasting. Computers and Geosciences, 2012, 46, 284-295.	2.0	178
2	A hybrid SVM-PSO model for forecasting monthly streamflow. Neural Computing and Applications, 2014, 24, 1381-1389.	3.2	121
3	Hydrologic regionalization using wavelet-based multiscale entropy method. Journal of Hydrology, 2016, 538, 22-32.	2.3	86
4	Multiscale streamflow forecasting using a new Bayesian Model Average based ensemble multi-wavelet Volterra nonlinear method. Journal of Hydrology, 2013, 507, 186-200.	2.3	76
5	Bootstrap rank-ordered conditional mutual information (broCMI): A nonlinear input variable selection method for water resources modeling. Water Resources Research, 2016, 52, 2299-2326.	1.7	72
6	Wavelet-based multiscale performance analysis: An approach to assess and improve hydrological models. Water Resources Research, 2014, 50, 9721-9737.	1.7	67
7	Wavelet-Volterra coupled model for monthly stream flow forecasting. Journal of Hydrology, 2012, 450-451, 320-335.	2.3	65
8	Unravelling the spatial diversity of Indian precipitation teleconnections via a non-linear multi-scale approach. Nonlinear Processes in Geophysics, 2019, 26, 251-266.	0.6	49
9	Wavelet analysis of precipitation extremes over India and teleconnections to climate indices. Stochastic Environmental Research and Risk Assessment, 2019, 33, 2053-2069.	1.9	48
10	Network-based identification and characterization of teleconnections on different scales. Scientific Reports, 2019, 9, 8808.	1.6	48
11	Long term forecasting of groundwater levels with evidence of non-stationary and nonlinear characteristics. Computers and Geosciences, 2013, 52, 422-436.	2.0	47
12	Quantifying the roles of single stations within homogeneous regions using complex network analysis. Journal of Hydrology, 2018, 563, 802-810.	2.3	43
13	Spatiotemporal variability of Indian rainfall using multiscale entropy. Journal of Hydrology, 2020, 587, 124916.	2.3	42
14	Multi-scale event synchronization analysis for unravelling climate processes: a wavelet-based approach. Nonlinear Processes in Geophysics, 2017, 24, 599-611.	0.6	41
15	Wavelet entropy-based evaluation of intrinsic predictability of time series. Chaos, 2020, 30, 033117.	1.0	40
16	Regional scale groundwater modelling study for Ganga River basin. Journal of Hydrology, 2016, 541, 727-741.	2.3	38
17	Wavelet Spectrum and Self-Organizing Maps-Based Approach for Hydrologic Regionalization -a Case Study in the Western United States. Water Resources Management, 2016, 30, 4399-4413.	1.9	38
18	Application of multi-scale wavelet entropy and multi-resolution Volterra models for climatic downscaling. Journal of Hydrology, 2018, 556, 1078-1095.	2.3	34

#	ARTICLE	IF	CITATIONS
19	Forecasting of extreme flood events using different satellite precipitation products and wavelet-based machine learning methods. <i>Chaos</i> , 2020, 30, 063115.	1.0	34
20	Optimal design of hydrometric station networks based on complex network analysis. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 2235-2251.	1.9	31
21	Quantile-based Bayesian Model Averaging approach towards merging of precipitation products. <i>Journal of Hydrology</i> , 2022, 604, 127206.	2.3	31
22	Wavelets-based non-linear model for real-time daily flow forecasting in Krishna River. <i>Journal of Hydroinformatics</i> , 2013, 15, 1022-1041.	1.1	30
23	Accounting for temporal variability for improved precipitation regionalization based on self-organizing map coupled with information theory. <i>Journal of Hydrology</i> , 2020, 590, 125236.	2.3	28
24	Inter-Comparison of Gauge-Based Gridded Data, Reanalysis and Satellite Precipitation Product with an Emphasis on Hydrological Modeling. <i>Atmosphere</i> , 2020, 11, 1252.	1.0	27
25	Wavelet Volterra Coupled Models for forecasting of nonlinear and non-stationary time series. <i>Neurocomputing</i> , 2015, 149, 1074-1084.	3.5	18
26	Wavelet-based multiscale similarity measure for complex networks. <i>European Physical Journal B</i> , 2018, 91, 1.	0.6	18
27	Assessment of water balance for a forest dominated coastal river basin in India using a semi distributed hydrological model. <i>Modeling Earth Systems and Environment</i> , 2018, 4, 127-140.	1.9	17
28	Multiscale nonlinear model for monthly streamflow forecasting: a wavelet-based approach. <i>Journal of Hydroinformatics</i> , 2012, 14, 424-442.	1.1	16
29	Developing intensity duration frequency curves based on scaling theory using linear probability weighted moments: A case study from India. <i>Journal of Hydrology</i> , 2016, 542, 850-859.	2.3	16
30	A Wavelet-Based Second Order Nonlinear Model for Forecasting Monthly Rainfall. <i>Water Resources Management</i> , 2014, 28, 5411-5431.	1.9	15
31	Multiscale Spatiotemporal Analysis of Extreme Events in the Gomati River Basin, India. <i>Atmosphere</i> , 2021, 12, 480.	1.0	14
32	Intercomparison of downscaling methods for daily precipitation with emphasis on wavelet-based hybrid models. <i>Journal of Hydrology</i> , 2021, 599, 126373.	2.3	13
33	Comparison of different digital elevation models for drainage morphometric parameters: a case study from South India. <i>Arabian Journal of Geosciences</i> , 2020, 13, 1.	0.6	12
34	Performance of <i>Canna Indica</i> based microscale vertical flow constructed wetland under tropical conditions for domestic wastewater treatment. <i>International Journal of Phytoremediation</i> , 2022, 24, 684-694.	1.7	12
35	Ranking and characterization of precipitation extremes for the past 113 years for Indian western Himalayas. <i>International Journal of Climatology</i> , 2021, 41, 6602-6615.	1.5	11
36	A non-linear and non-stationary perspective for downscaling mean monthly temperature: a wavelet coupled second order Volterra model. <i>Stochastic Environmental Research and Risk Assessment</i> , 2017, 31, 2159-2181.	1.9	10

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37	Framework for developing IDF curves using satellite precipitation: a case study using GPM-IMERG V6 data. <i>Earth Science Informatics</i> , 2022, 15, 671-687.	1.6	10
38	Investigation of satellite precipitation product driven rainfall-runoff model using deep learning approaches in two different catchments of India. <i>Journal of Hydroinformatics</i> , 2022, 24, 16-37.	1.1	9
39	A novel method to improve vertical accuracy of CARTOSAT DEM using machine learning models. <i>Earth Science Informatics</i> , 2020, 13, 1139-1150.	1.6	8
40	Multi-scale investigation on streamflow temporal variability and its connection to global climate indices for unregulated rivers in India. <i>Journal of Water and Climate Change</i> , 2022, 13, 735-757.	1.2	8
41	Investigating the working efficiency of natural wastewater treatment systems: A step towards sustainable systems. <i>Water Practice and Technology</i> , 0, , .	1.0	5
42	Investigation of the scaling characteristics of LANDSAT temperature and vegetation data: a wavelet-based approach. <i>International Journal of Biometeorology</i> , 2017, 61, 1709-1721.	1.3	3
43	Game theoretic-based modelling of Krishna waters dispute: equilibrium solutions by hypergame analysis. <i>European Physical Journal B</i> , 2021, 94, 1.	0.6	3
44	Game-theoretic-based modelling of Krishna waters dispute: equilibrium solutions by Metagame Analysis. <i>European Physical Journal B</i> , 2021, 94, 1.	0.6	2