Maheswaran Rathinasamy

List of Publications by Citations

43 papers	982 citations	18 h-index	30 g-index
47 ext. papers	1,259 ext. citations	3.8 avg, IF	4.85 L-index

#	Paper	IF	Citations
43	Comparative study of different wavelets for hydrologic forecasting. *Computers and Geosciences*, **2012**, 46, 284-295	4.5	134
42	A hybrid SVM-PSO model for forecasting monthly streamflow. *Neural Computing and Applications*, **2014**, 24, 1381-1389	4.8	84
41	Multiscale streamflow forecasting using a new Bayesian Model Average based ensemble multi-wavelet Volterra nonlinear method. *Journal of Hydrology*, **2013**, 507, 186-200	6	68
40	Hydrologic regionalization using wavelet-based multiscale entropy method. *Journal of Hydrology*, **2016**, 538, 22-32	6	62
39	Wavelet-Volterra coupled model for monthly stream flow forecasting. *Journal of Hydrology*, **2012**, 450-451, 320-335	6	55
38	Bootstrap rank-ordered conditional mutual information (broCMI): A nonlinear input variable selection method for water resources modeling. *Water Resources Research*, **2016**, 52, 2299-2326	5.4	54
37	Wavelet-based multiscale performance analysis: An approach to assess and improve hydrological models. *Water Resources Research*, **2014**, 50, 9721-9737	5.4	50
36	Long term forecasting of groundwater levels with evidence of non-stationary and nonlinear characteristics. *Computers and Geosciences*, **2013**, 52, 422-436	4.5	42
35	Multi-scale event synchronization analysis for unravelling climate processes: a wavelet-based approach. *Nonlinear Processes in Geophysics*, **2017**, 24, 599-611	2.9	33
34	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	3.7	30
33	Network-based identification and characterization of teleconnections on different scales. *Scientific Reports*, **2019**, 9, 8808	4.9	27
32	Unravelling the spatial diversity of Indian precipitation teleconnections via a non-linear multi-scale approach. *Nonlinear Processes in Geophysics*, **2019**, 26, 251-266	2.9	27
31	Wavelets-based non-linear model for real-time daily flow forecasting in Krishna River. *Journal of Hydroinformatics*, **2013**, 15, 1022-1041	2.6	27
30	Quantifying the roles of single stations within homogeneous regions using complex network analysis. *Journal of Hydrology*, **2018**, 563, 802-810	6	27
29	Regional scale groundwater modelling study for Ganga River basin. *Journal of Hydrology*, **2016**, 541, 727-741	6	24
28	Application of multi-scale wavelet entropy and multi-resolution Volterra models for climatic downscaling. *Journal of Hydrology*, **2018**, 556, 1078-1095	6	23
27	Optimal design of hydrometric station networks based on complex network analysis. *Hydrology and Earth System Sciences*, **2020**, 24, 2235-2251	5.5	19

26	Wavelet analysis of precipitation extremes over India and teleconnections to climate indices. *Stochastic Environmental Research and Risk Assessment*, **2019**, 33, 2053-2069	3.5	19
25	Spatiotemporal variability of Indian rainfall using multiscale entropy. *Journal of Hydrology*, **2020**, 587, 124916	6	18
24	Wavelet entropy-based evaluation of intrinsic predictability of time series. *Chaos*, **2020**, 30, 033117	3.3	17
23	Forecasting of extreme flood events using different satellite precipitation products and wavelet-based machine learning methods. *Chaos*, **2020**, 30, 063115	3.3	15
22	Multiscale nonlinear model for monthly streamflow forecasting: a wavelet-based approach. *Journal of Hydroinformatics*, **2012**, 14, 424-442	2.6	15
21	Wavelet Volterra Coupled Models for forecasting of nonlinear and non-stationary time series. *Neurocomputing*, **2015**, 149, 1074-1084	5.4	14
20	Accounting for temporal variability for improved precipitation regionalization based on self-organizing map coupled with information theory. *Journal of Hydrology*, **2020**, 590, 125236	6	12
19	A Wavelet-Based Second Order Nonlinear Model for Forecasting Monthly Rainfall. *Water Resources Management*, **2014**, 28, 5411-5431	3.7	11
18	Wavelet-based multiscale similarity measure for complex networks. *European Physical Journal B*, **2018**, 91, 1	1.2	11
17	Developing intensity duration frequency curves based on scaling theory using linear probability weighted moments: A case study from India. *Journal of Hydrology*, **2016**, 542, 850-859	6	10
16	A non-linear and non-stationary perspective for downscaling mean monthly temperature: a wavelet coupled second order Volterra model. *Stochastic Environmental Research and Risk Assessment*, **2017**, 31, 2159-2181	3.5	9
15	Assessment of water balance for a forest dominated coastal river basin in India using a semi distributed hydrological model. *Modeling Earth Systems and Environment*, **2018**, 4, 127-140	3.2	8
14	Comparison of different digital elevation models for drainage morphometric parameters: a case study from South India. *Arabian Journal of Geosciences*, **2020**, 13, 1	1.8	5
13	Inter-Comparison of Gauge-Based Gridded Data, Reanalysis and Satellite Precipitation Product with an Emphasis on Hydrological Modeling. *Atmosphere*, **2020**, 11, 1252	2.7	5
12	Multiscale Spatiotemporal Analysis of Extreme Events in the Gomati River Basin, India. *Atmosphere*, **2021**, 12, 480	2.7	4
11	Ranking and characterization of precipitation extremes for the past 113 years for Indian western Himalayas. *International Journal of Climatology*,	3.5	4
10	Investigating the working efficiency of natural wastewater treatment systems: A step towards sustainable systems. *Water Practice and Technology*,	0.9	3
9	Investigation of the scaling characteristics of LANDSAT temperature and vegetation data: a wavelet-based approach. *International Journal of Biometeorology*, **2017**, 61, 1709-1721	3.7	2

8	Quantile-based Bayesian Model Averaging approach towards merging of precipitation products. *Journal of Hydrology*, **2021**, 127206	6	2
7	Framework for developing IDF curves using satellite precipitation: a case study using GPM-IMERG V6 data. *Earth Science Informatics*, **2022**, 15, 671	2.5	2
6	Multi Resolution Genetic Programming Approach for Stream Flow Forecasting. *Lecture Notes in Computer Science*, **2011**, 714-722	0.9	2
5	A novel method to improve vertical accuracy of CARTOSAT DEM using machine learning models. *Earth Science Informatics*, **2020**, 13, 1139-1150	2.5	2
4	Intercomparison of downscaling methods for daily precipitation with emphasis on wavelet-based hybrid models. *Journal of Hydrology*, **2021**, 599, 126373	6	2
3	Game-theoretic-based modelling of Krishna waters dispute: equilibrium solutions by Metagame Analysis. *European Physical Journal B*, **2021**, 94, 1	1.2	1
2	Game theoretic-based modelling of Krishna waters dispute: equilibrium solutions by hypergame analysis. *European Physical Journal B*, **2021**, 94, 1	1.2	1
1	Performance of based microscale vertical flow constructed wetland under tropical conditions for domestic wastewater treatment. *International Journal of Phytoremediation*, **2021**, 1-11	3.9	1