

Umamahesh Nanduri

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.

44
papers

540
citations

14
h-index

21
g-index

47
ext. papers

736
ext. citations

3.1
avg, IF

4.82
L-index

#	Paper	IF	Citations
44	What are the best covariates for developing non-stationary rainfall Intensity-Duration-Frequency relationship?. <i>Advances in Water Resources</i> , 2017 , 101, 11-22	4.7	59
43	Operation of a hydropower system considering environmental flow requirements: A case study in La Nga river basin, Vietnam. <i>Journal of Hydro-Environment Research</i> , 2012 , 6, 63-73	2.3	42
42	Optimal Irrigation Planning under Water Scarcity. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2006 , 132, 228-237	1.1	39
41	Detection and attribution of non-stationarity in intensity and frequency of daily and 4-h extreme rainfall of Hyderabad, India. <i>Journal of Hydrology</i> , 2015 , 530, 677-697	6	32
40	Assessment of inundation risk in urban floods using HEC RAS 2D. <i>Modeling Earth Systems and Environment</i> , 2019 , 5, 1839-1851	3.2	31
39	Modelling nonlinear trend for developing non-stationary rainfall intensity-duration-frequency curve. <i>International Journal of Climatology</i> , 2017 , 37, 1265-1281	3.5	27
38	Downscaling Monsoon Rainfall over River Godavari Basin under Different Climate-Change Scenarios. <i>Water Resources Management</i> , 2016 , 30, 5575-5587	3.7	27
37	Is the covariate based non-stationary rainfall IDF curve capable of encompassing future rainfall changes?. <i>Journal of Hydrology</i> , 2016 , 541, 1441-1455	6	23
36	Uncertainty and Nonstationarity in Streamflow Extremes under Climate Change Scenarios over a River Basin. <i>Journal of Hydrologic Engineering - ASCE</i> , 2017 , 22, 04017042	1.8	20
35	Equity in water supply in intermittent water distribution networks. <i>Water and Environment Journal</i> , 2014 , 28, 509-515	1.7	20
34	Covariate and parameter uncertainty in non-stationary rainfall IDF curve. <i>International Journal of Climatology</i> , 2018 , 38, 365-383	3.5	17
33	Modelling Impacts of Climate Change on a River Basin: Analysis of Uncertainty Using REA & Possibilistic Approach. <i>Water Resources Management</i> , 2018 , 32, 4833-4852	3.7	17
32	Assessment and evaluation of potential climate change impact on monsoon flows using machine learning technique over Wainganga River basin, India. <i>Hydrological Sciences Journal</i> , 2018 , 63, 1020-1046	3.5	16
31	Technical Communication: Two-Phase Stochastic Dynamic Programming Model for Optimal Operation of Irrigation Reservoir. <i>Water Resources Management</i> , 1997 , 11, 395-406	3.7	15
30	Assessment of uncertainty in estimating future flood return levels under climate change. <i>Natural Hazards</i> , 2018 , 93, 109-124	3	14
29	Spatio-Temporal Variation of Water Availability in a River Basin under CORDEX Simulated Future Projections. <i>Water Resources Management</i> , 2018 , 32, 1399-1419	3.7	13
28	Spatio-temporal analysis of rainfall extremes in the flood-prone Nagavali and Vamsadhara Basins in eastern India. <i>Weather and Climate Extremes</i> , 2020 , 29, 100265	6	12

27	Optimal irrigation planning model for an existing storage based irrigation system in India. <i>Irrigation and Drainage Systems</i> , 2011 , 25, 19-38		12
26	Floodplain Mapping and Management of Urban Catchment Using HEC-RAS: A Case Study of Hyderabad City. <i>Journal of the Institution of Engineers (India): Series A</i> , 2019 , 100, 49-63	1	12
25	Non-Stationary Rainfall Intensity-Duration-Frequency Relationship: a Comparison between Annual Maximum and Partial Duration Series. <i>Water Resources Management</i> , 2017 , 31, 1825-1841	3.7	11
24	El Niño Southern Oscillation cycle indicator for modeling extreme rainfall intensity over India. <i>Ecological Indicators</i> , 2018 , 84, 450-458	5.8	9
23	Short-Term Real-Time Reservoir Operation for Irrigation. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2013 , 139, 149-158	2.8	9
22	Influence of threshold selection in modeling peaks over threshold based nonstationary extreme rainfall series. <i>Journal of Hydrology</i> , 2021 , 593, 125625	6	8
21	Flood-hazard risk classification and mapping for urban catchment under different climate change scenarios: A case study of Hyderabad city. <i>Urban Climate</i> , 2021 , 36, 100793	6.8	7
20	Optimal multipurpose reservoir operation planning using Genetic Algorithm and Non Linear Programming (GA-NLP) hybrid approach. <i>ISH Journal of Hydraulic Engineering</i> , 2018 , 24, 258-265	1.5	6
19	Comparison of stochastic and fuzzy dynamic programming models for the operation of a multipurpose reservoir. <i>Water and Environment Journal</i> , 2011 , 25, 547-554	1.7	6
18	Identification of future meteorological drought hotspots over Indian region: A study based on NEX-GDDP data. <i>International Journal of Climatology</i> , 2021 , 41, 5644	3.5	6
17	Nonstationary Modeling of Meteorological Droughts: Application to a Region in India. <i>Journal of Hydrologic Engineering - ASCE</i> , 2021 , 26, 05020048	1.8	6
16	Future Projection of Precipitation and Temperature Extremes Using Change Factor Method over a River Basin: Case Study. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2018 , 22, 04018006	2.3	4
15	Heat wave magnitude over India under changing climate: Projections from CMIP5 and CMIP6 experiments. <i>International Journal of Climatology</i> ,	3.5	4
14	Rainfall Generator for Nonstationary Extreme Rainfall Condition. <i>Journal of Hydrologic Engineering - ASCE</i> , 2019 , 24, 04019027	1.8	3
13	Population exposure to compound extreme events in India under different emission and population scenarios. <i>Science of the Total Environment</i> , 2022 , 806, 150424	10.2	3
12	Multisite Downscaling of Monsoon Precipitation over the Godavari River Basin under the RCP 4.5 Scenario 2015 ,		2
11	Simulation of Urban Drainage System Using Disaggregated Rainfall Data. <i>Water Science and Technology Library</i> , 2018 , 123-133	0.3	2
10	Modeling Nonstationary Extreme Water Levels Considering Local Covariates in Ho Chi Minh City, Vietnam. <i>Journal of Hydrologic Engineering - ASCE</i> , 2018 , 23, 04018042	1.8	1

9	GIS BASED SOIL EROSION MODELLING FOR CONSERVATION PLANNING OF WATERSHEDS. <i>ISH Journal of Hydraulic Engineering</i> , 2005 , 11, 11-23	1.5	1
8	Two decades of ensemble flood forecasting: A state-of-the-art on past developments, present applications and future opportunities. <i>Hydrological Sciences Journal</i> ,	3.5	1
7	Optimal crop water allocation coupled with reservoir operation by Genetic Algorithm and Non-Linear Programming (GA-NLP) hybrid approach. <i>Journal of Physics: Conference Series</i> , 2019 , 1344, 012006	0.3	1
6	Investigating seasonal drought severity-area-frequency (SAF) curve over Indian region: incorporating GCM and scenario uncertainties. <i>Stochastic Environmental Research and Risk Assessment</i> ,1	3.5	0
5	Modelling spatial variation of extreme precipitation over Ho Chi Minh City under nonstationary condition. <i>Acta Geophysica</i> , 2019 , 67, 849-861	2.2	
4	Modelling Dissolved Pollutants in Krishna River Using Adaptive Neuro Fuzzy Inference Systems. <i>Journal of the Institution of Engineers (India): Series A</i> , 2014 , 95, 29-38	1	
3	Changes in ENSO and IOD Effects on the Extreme Rainfall of Hyderabad City, India. <i>Water Science and Technology Library</i> , 2018 , 91-100	0.3	
2	Analyzing Non-stationarity in the Hyderabad City Rainfall Intensity-Duration-Frequency Curves. <i>Water Science and Technology Library</i> , 2018 , 117-125	0.3	
1	Water Resources Availability and Its Teleconnection with Large Scale Climatic Oscillations Over Godavari River Basin. <i>Earth and Environmental Sciences Library</i> , 2022 , 279-302		