

# Umamahesh Nanduri

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

1,037  
citations

361296  
20  
h-index

454834  
30  
g-index

47  
all docs

47  
docs citations

47  
times ranked

794  
citing authors

#	ARTICLE	IF	CITATIONS
1	What are the best covariates for developing non-stationary rainfall Intensity-Duration-Frequency relationship?. <i>Advances in Water Resources</i> , 2017, 101, 11-22.	1.7	99
2	Assessment of inundation risk in urban floods using HEC RAS 2D. <i>Modeling Earth Systems and Environment</i> , 2019, 5, 1839-1851.	1.9	69
3	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.	1.0	55
4	Optimal Irrigation Planning under Water Scarcity. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2006, 132, 228-237.	0.6	48
5	Is the covariate based non-stationary rainfall IDF curve capable of encompassing future rainfall changes?. <i>Journal of Hydrology</i> , 2016, 541, 1441-1455.	2.3	47
6	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.	2.3	43
7	Downscaling Monsoon Rainfall over River Godavari Basin under Different Climate-Change Scenarios. <i>Water Resources Management</i> , 2016, 30, 5575-5587.	1.9	41
8	Population exposure to compound extreme events in India under different emission and population scenarios. <i>Science of the Total Environment</i> , 2022, 806, 150424.	3.9	40
9	Modelling nonlinear trend for developing non-stationary rainfall intensity-duration-frequency curve. <i>International Journal of Climatology</i> , 2017, 37, 1265-1281.	1.5	39
10	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.	1.6	39
11	Equity in water supply in intermittent water distribution networks. <i>Water and Environment Journal</i> , 2014, 28, 509-515.	1.0	37
12	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.	1.2	35
13	Influence of threshold selection in modeling peaks over threshold based nonstationary extreme rainfall series. <i>Journal of Hydrology</i> , 2021, 593, 125625.	2.3	32
14	Heat wave magnitude over India under changing climate: Projections from CMIP5 and CMIP6 experiments. <i>International Journal of Climatology</i> , 2022, 42, 331-351.	1.5	32
15	Uncertainty and Nonstationarity in Streamflow Extremes under Climate Change Scenarios over a River Basin. <i>Journal of Hydrologic Engineering - ASCE</i> , 2017, 22, .	0.8	31
16	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.	1.9	31
17	Covariate and parameter uncertainty in non-stationary rainfall IDF curve. <i>International Journal of Climatology</i> , 2018, 38, 365-383.	1.5	27
18	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.	0.6	24

#	ARTICLE	IF	CITATIONS
19	Nonstationary Modeling of Meteorological Droughts: Application to a Region in India. Journal of Hydrologic Engineering - ASCE, 2021, 26, 05020048.	0.8	22
20	Assessment of uncertainty in estimating future flood return levels under climate change. Natural Hazards, 2018, 93, 109-124.	1.6	21
21	El Niño Southern Oscillation cycle indicator for modeling extreme rainfall intensity over India. Ecological Indicators, 2018, 84, 450-458.	2.6	20
22	Non-Stationary Rainfall Intensity-Duration-Frequency Relationship: a Comparison between Annual Maximum and Partial Duration Series. Water Resources Management, 2017, 31, 1825-1841.	1.9	19
23	Spatio-Temporal Variation of Water Availability in a River Basin under CORDEX Simulated Future Projections. Water Resources Management, 2018, 32, 1399-1419.	1.9	19
24	Flood-hazard risk classification and mapping for urban catchment under different climate change scenarios: A case study of Hyderabad city. Urban Climate, 2021, 36, 100793.	2.4	19
25	Identification of future meteorological drought hotspots over Indian region: A study based on NEX-GDDP data. International Journal of Climatology, 2021, 41, 5644-5662.	1.5	19
26	Title is missing!. Water Resources Management, 1997, 11, 395-406.	1.9	17
27	Optimal irrigation planning model for an existing storage based irrigation system in India. Irrigation and Drainage Systems, 2011, 25, 19-38.	0.5	15
28	Two decades of ensemble flood forecasting: a state-of-the-art on past developments, present applications and future opportunities. Hydrological Sciences Journal, 2022, 67, 477-493.	1.2	15
29	Future Projection of Precipitation and Temperature Extremes Using Change Factor Method over a River Basin: Case Study. Journal of Hazardous, Toxic, and Radioactive Waste, 2018, 22, .	1.2	12
30	Copula-based drought risk analysis on rainfed agriculture under stationary and non-stationary settings. Hydrological Sciences Journal, 2022, 67, 1683-1701.	1.2	10
31	Short-Term Real-Time Reservoir Operation for Irrigation. Journal of Water Resources Planning and Management - ASCE, 2013, 139, 149-158.	1.3	9
32	Investigating seasonal drought severity-area-frequency (SAF) curve over Indian region: incorporating GCM and scenario uncertainties. Stochastic Environmental Research and Risk Assessment, 2022, 36, 1597-1614.	1.9	8
33	Comparison of stochastic and fuzzy dynamic programming models for the operation of a multipurpose reservoir. Water and Environment Journal, 2011, 25, 547-554.	1.0	7
34	Rapid Assessment of The October 2020 Hyderabad Urban Flood and Risk Analysis Using Geospatial Data. Current Science, 2022, 120, 1840.	0.4	7
35	Optimal multipurpose reservoir operation planning using Genetic Algorithm and Non Linear Programming (GA-NLP) hybrid approach. ISH Journal of Hydraulic Engineering, 2018, 24, 258-265.	1.1	6
36	Rainfall Generator for Nonstationary Extreme Rainfall Condition. Journal of Hydrologic Engineering - ASCE, 2019, 24, .	0.8	6

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37	GIS BASED SOIL EROSION MODELLING FOR CONSERVATION PLANNING OF WATERSHEDS. ISH Journal of Hydraulic Engineering, 2005, 11, 11-23.	1.1	4
38	Simulation of Urban Drainage System Using Disaggregated Rainfall Data. Water Science and Technology Library, 2018, , 123-133.	0.2	4
39	Investigating risk, reliability and return period under the influence of large scale modes, and regional hydrological variability in hydrologic extremes. Hydrological Sciences Journal, 2022, 67, 65-81.	1.2	3
40	Multisite Downscaling of Monsoon Precipitation over the Godavari River Basin under the RCP 4.5 Scenario. , 2015, , .		2
41	Modeling Nonstationary Extreme Water Levels Considering Local Covariates in Ho Chi Minh City, Vietnam. Journal of Hydrologic Engineering - ASCE, 2018, 23, .	0.8	2
42	Analyzing Non-stationarity in the Hyderabad City Rainfall Intensity-Duration-Frequency Curves. Water Science and Technology Library, 2018, , 117-125.	0.2	1
43	Optimal crop water allocation coupled with reservoir operation by Genetic Algorithm and Non-Linear Programming (GA-NLP) hybrid approach. Journal of Physics: Conference Series, 2019, 1344, 012006.	0.3	1
44	Modelling Dissolved Pollutants in Krishna River Using Adaptive Neuro Fuzzy Inference Systems. Journal of the Institution of Engineers (India): Series A, 2014, 95, 29-38.	0.6	0
45	Changes in ENSO and IOD Effects on the Extreme Rainfall of Hyderabad City, India. Water Science and Technology Library, 2018, , 91-100.	0.2	0
46	Modelling spatial variation of extreme precipitation over Ho Chi Minh City under nonstationary condition. Acta Geophysica, 2019, 67, 849-861.	1.0	0