

# Janga Reddy M

## 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.

70  
papers

1,922  
citations

22  
h-index

43  
g-index

75  
ext. papers

2,203  
ext. citations

2.7  
avg, IF

5.66  
L-index

#	Paper	IF	Citations
70	Multipurpose Reservoir Operation Using Particle Swarm Optimization. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2007</b> , 133, 192-201	2.8	188
69	Optimal Reservoir Operation Using Multi-Objective Evolutionary Algorithm. <i>Water Resources Management</i> , <b>2006</b> , 20, 861-878	3.7	170
68	Multi-objective particle swarm optimization for generating optimal trade-offs in reservoir operation. <i>Hydrological Processes</i> , <b>2007</b> , 21, 2897-2909	3.3	135
67	Ant Colony Optimization for Multi-Purpose Reservoir Operation. <i>Water Resources Management</i> , <b>2006</b> , 20, 879-898	3.7	115
66	Multiobjective Differential Evolution with Application to Reservoir System Optimization. <i>Journal of Computing in Civil Engineering</i> , <b>2007</b> , 21, 136-146	5	113
65	Application of copulas for derivation of drought severity-duration-frequency curves. <i>Hydrological Processes</i> , <b>2012</b> , 26, 1672-1685	3.3	96
64	Bivariate Flood Frequency Analysis of Upper Godavari River Flows Using Archimedean Copulas. <i>Water Resources Management</i> , <b>2012</b> , 26, 3995-4018	3.7	83
63	Risk Assessment of Droughts in Gujarat Using Bivariate Copulas. <i>Water Resources Management</i> , <b>2012</b> , 26, 3301-3327	3.7	73
62	An efficient multi-objective optimization algorithm based on swarm intelligence for engineering design. <i>Engineering Optimization</i> , <b>2007</b> , 39, 49-68	2	73
61	Trend analysis of rainfall in four meteorological subdivisions of southern India using nonparametric methods and discrete wavelet transforms. <i>International Journal of Climatology</i> , <b>2015</b> , 35, 1107-1124	3.5	70
60	Probabilistic assessment of flood risks using trivariate copulas. <i>Theoretical and Applied Climatology</i> , <b>2013</b> , 111, 341-360	3	68
59	Evaluation of trends and multivariate frequency analysis of droughts in three meteorological subdivisions of western India. <i>International Journal of Climatology</i> , <b>2014</b> , 34, 911-928	3.5	68
58	Ensemble prediction of regional droughts using climate inputs and the SVM-copula approach. <i>Hydrological Processes</i> , <b>2014</b> , 28, 4989-5009	3.3	64
57	Optimal reservoir operation for irrigation of multiple crops using elitist-mutated particle swarm optimization. <i>Hydrological Sciences Journal</i> , <b>2007</b> , 52, 686-701	3.5	46
56	Evolving strategies for crop planning and operation of irrigation reservoir system using multi-objective differential evolution. <i>Irrigation Science</i> , <b>2008</b> , 26, 177-190	3.1	39
55	Spatio-temporal analysis and derivation of copula-based intensity-area-frequency curves for droughts in western Rajasthan (India). <i>Stochastic Environmental Research and Risk Assessment</i> , <b>2013</b> , 27, 1975-1989	3.5	32
54	Multivariate modeling of droughts using copulas and meta-heuristic methods. <i>Stochastic Environmental Research and Risk Assessment</i> , <b>2014</b> , 28, 475-489	3.5	32

53	Evolutionary algorithms, swarm intelligence methods, and their applications in water resources engineering: a state-of-the-art review. <i>H2Open Journal</i> , <b>2020</b> , 3, 135-188	1.4	31
52	Performance evaluation of elitist-mutated multi-objective particle swarm optimization for integrated water resources management. <i>Journal of Hydroinformatics</i> , <b>2009</b> , 11, 79-88	2.6	30
51	Multiscale characterization and prediction of monsoon rainfall in India using Hilbert-Huang transform and time-dependent intrinsic correlation analysis. <i>Meteorology and Atmospheric Physics</i> , <b>2018</b> , 130, 667-688	2	28
50	Evaluating the influence of spatial resolutions of DEM on watershed runoff and sediment yield using SWAT. <i>Journal of Earth System Science</i> , <b>2015</b> , 124, 1517-1529	1.8	24
49	Optimal Design of Water Distribution Networks Considering Fuzzy Randomness of Demands Using Cross Entropy Optimization. <i>Water Resources Management</i> , <b>2014</b> , 28, 4075-4094	3.7	24
48	Analyzing the Hydroclimatic Teleconnections of Summer Monsoon Rainfall in Kerala, India, Using Multivariate Empirical Mode Decomposition and Time-Dependent Intrinsic Correlation. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2016</b> , 13, 1221-1225	4.1	22
47	Risk Assessment of Hydroclimatic Variability on Groundwater Levels in the Manjara Basin Aquifer in India Using Archimedean Copulas. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2012</b> , 17, 1345-1357	1.8	21
46	Chance Constrained Optimal Design of Composite Channels Using Meta-Heuristic Techniques. <i>Water Resources Management</i> , <b>2010</b> , 24, 2221-2235	3.7	21
45	Time-frequency characterization of sub-divisional scale seasonal rainfall in India using the Hilbert-Huang transform. <i>Stochastic Environmental Research and Risk Assessment</i> , <b>2016</b> , 30, 1063-1085	3.5	18
44	Assessing the Performance of Surrogate Measures for Water Distribution Network Reliability. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2020</b> , 146, 04020048	2.8	18
43	Optimal Reservoir Operation for Hydropower Production Using Particle Swarm Optimization and Sustainability Analysis of Hydropower. <i>ISH Journal of Hydraulic Engineering</i> , <b>2013</b> , 19, 196-210	1.5	18
42	Developing hourly intensity duration frequency curves for urban areas in India using multivariate empirical mode decomposition and scaling theory. <i>Stochastic Environmental Research and Risk Assessment</i> , <b>2018</b> , 32, 1889-1902	3.5	16
41	Reliability analysis of composite channels using first order approximation and Monte Carlo simulations. <i>Stochastic Environmental Research and Risk Assessment</i> , <b>2013</b> , 27, 477-487	3.5	16
40	Analysis of ENSO-based climate variability in modulating drought risks over western Rajasthan in India. <i>Journal of Earth System Science</i> , <b>2013</b> , 122, 253-269	1.8	15
39	Evaluation of trends and predictability of short-term droughts in three meteorological subdivisions of India using multivariate EMD-based hybrid modelling. <i>Hydrological Processes</i> , <b>2019</b> , 33, 130-143	3.3	15
38	Multiscale characterization of streamflow and suspended sediment concentration data using Hilbert-Huang transform and time dependent intrinsic correlation analysis. <i>Modeling Earth Systems and Environment</i> , <b>2016</b> , 2, 1-17	3.2	13
37	Overtopping Probability Constrained Optimal Design of Composite Channels Using Swarm Intelligence Technique. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , <b>2010</b> , 136, 532-542	1.1	12
36	Reliability-based design of Water Distribution Networks using Self-Adaptive Differential Evolution algorithm. <i>ISH Journal of Hydraulic Engineering</i> , <b>2018</b> , 24, 198-212	1.5	11

35	Multiscale Analysis of Suspended Sediment Concentration Data from Natural Channels Using the Hilbert-Huang Transform. <i>Aquatic Procedia</i> , <b>2015</b> , 4, 780-788		9
34	Optimization and uncertainty analysis of operational policies for multipurpose reservoir system. <i>Stochastic Environmental Research and Risk Assessment</i> , <b>2014</b> , 28, 1815-1833	3.5	9
33	Spatiotemporal Analysis of Water Balance Components and Their Projected Changes in Near-future Under Climate Change Over Sina Basin, India. <i>Water Resources Management</i> , <b>2020</b> , 34, 2657-2675	3.7	8
32	Non-stationarity analysis of flood flows using copula based change-point detection method: Application to case study of Godavari river basin. <i>Science of the Total Environment</i> , <b>2020</b> , 718, 134894	10.2	7
31	Development of an entropy-copula-based stochastic simulation model for generation of monthly inflows into the Hirakud Dam. <i>ISH Journal of Hydraulic Engineering</i> , <b>2013</b> , 19, 267-275	1.5	6
30	Regional Rainfall Forecasting using Large Scale Climate Teleconnections and Artificial Intelligence Techniques. <i>Journal of Intelligent Systems</i> , <b>2007</b> , 16,	1.5	6
29	Probabilistic multi-objective optimal design of composite channels using particle swarm optimization. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>2013</b> , 51, 459-464	1.9	5
28	Use of Model Tree and Gene Expression Programming to Predict the Suspended Sediment Load in Rivers. <i>Journal of Intelligent Systems</i> , <b>2009</b> , 18,	1.5	5
27	Multiscale Characterization and Prediction of Reservoir Inflows Using MEMD-SLR Coupled Approach. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2019</b> , 24, 04018059	1.8	5
26	Optimal Design of Pipe Networks Accounting for Future Demands and Phased Expansion using Integrated Dynamic Programming and Differential Evolution Approach. <i>Water Resources Management</i> , <b>2021</b> , 35, 1231-1250	3.7	5
25	Investigating the multiscale variability and teleconnections of extreme temperature over Southern India using the Hilbert-Huang transform. <i>Modeling Earth Systems and Environment</i> , <b>2017</b> , 3, 1	3.2	4
24	Slope-stability-constrained design of irrigation canals using particle swarm optimization. <i>Irrigation and Drainage</i> , <b>2011</b> , 60, 590-599	1.1	4
23	Elitist-Mutated Multi-Objective Particle Swarm Optimization for Engineering Design <b>2015</b> , 3534-3545		4
22	Change detection and attribution of flow regime: A case study of Allegheny river catchment, PA (US). <i>Science of the Total Environment</i> , <b>2019</b> , 662, 192-204	10.2	3
21	Gravitational search algorithm for probabilistic design of HBPS canals. <i>ISH Journal of Hydraulic Engineering</i> , <b>2015</b> , 21, 290-297	1.5	3
20	Identification of homogenous regions in rain-fed watershed using Kohonen neural networks. <i>ISH Journal of Hydraulic Engineering</i> , <b>2013</b> , 19, 55-66	1.5	3
19	Use of Particle Swarm Optimization for Optimal Design of Composite Channels. <i>Journal of Intelligent Systems</i> , <b>2010</b> , 19,	1.5	3
18	Comparative performance evaluation of self-adaptive differential evolution with GA, SCE and DE algorithms for the automatic calibration of a computationally intensive distributed hydrological model. <i>H2Open Journal</i> , <b>2020</b> , 3, 306-327	1.4	3

17	Links Between Global Climate Teleconnections and Indian Monsoon Rainfall <b>2019</b> , 61-72		2
16	Least cost design of water distribution network by Cross entropy optimization <b>2011</b> ,		2
15	Reliability-based optimal design of water distribution networks under uncertain demands using cross-entropy method. <i>ISH Journal of Hydraulic Engineering</i> , <b>2012</b> , 18, 258-268	1.5	2
14	Multiobjective Optimization in Water and Environmental Systems Management- MODE Approach. <i>Advances in Computer and Electrical Engineering Book Series</i> , <b>2016</b> , 120-136	0.3	2
13	Swarm Intelligence for Multi-Objective Optimization in Engineering Design. <i>Advances in Computer and Electrical Engineering Book Series</i> , <b>2019</b> , 180-194	0.3	2
12	SWARM INTELLIGENCE TECHNIQUES AND ITS APPLICATIONS IN WATER RESOURCES MANAGEMENT. <i>ISH Journal of Hydraulic Engineering</i> , <b>2009</b> , 15, 151-169	1.5	1
11	A fuzzy multi-objective multiple-pollutant model for rivers using an ant colony algorithm. <i>Water Management</i> , 1-16	1	1
10	Parameter Estimation of a Macroscale Hydrological Model Using an Adaptive Differential Evolution. <i>Water Science and Technology Library</i> , <b>2021</b> , 243-255	0.3	0
9	Swarm Intelligence for Multi-Objective Optimization in Engineering Design <b>2018</b> , 239-250		0
8	Improved MOSADE algorithm incorporating Sobol sequences for multi-objective design of Water Distribution Networks. <i>Applied Soft Computing Journal</i> , <b>2022</b> , 120, 108682	7.5	0
7	An integrated approach to streamflow estimation and flood inundation mapping using VIC, RAPID and LISFLOOD-FP. <i>Journal of Hydrology</i> , <b>2022</b> , 610, 127842	6	0
6	Analysing the Variability of Streamflow and Suspended Sediment Concentration Using Time Dependent Intrinsic Correlation. <i>Procedia Technology</i> , <b>2016</b> , 24, 54-61		
5	Sobol Sequence-based MOSaDE Algorithm for Multi-objective Design of Water Distribution Networks. <i>Studies in Computational Intelligence</i> , <b>2022</b> , 215-240	0.8	
4	Multiscale Modelling of Daily Suspended Sediment Load Using MEMD-SLR Coupled Approach. <i>Advances in Computational Intelligence and Robotics Book Series</i> , <b>2018</b> , 264-275	0.4	
3	Multiscale modelling of monthly streamflows using MEMD-GP coupled approach. <i>International Journal of River Basin Management</i> , <b>2020</b> , 18, 139-151	1.7	
2	Multiobjective Automatic Calibration of a Physically Based Hydrologic Model Using Multiobjective Self-Adaptive Differential Evolution Algorithm. <i>Water Science and Technology Library</i> , <b>2021</b> , 435-448	0.3	
1	Bivariate Drought Risk Estimation Using a Multivariate Standardized Drought Index in Marathwada Region, India <b>2022</b> , 173-189		