Janga Reddy M

List of Publications by Year
in descending order

73 papers	2,562 citations	257101 24 h-index	197535 49 g-index
75 all docs	75 docs citations	75 times ranked	2046 citing authors

#	Article	IF	Citations
1	Multipurpose Reservoir Operation Using Particle Swarm Optimization. Journal of Water Resources Planning and Management - ASCE, 2007, 133, 192-201.	1.3	228
2	Optimal Reservoir Operation Using Multi-Objective Evolutionary Algorithm. Water Resources Management, 2006, 20, 861-878.	1.9	201
3	Multi-objective particle swarm optimization for generating optimal trade-offs in reservoir operation. Hydrological Processes, 2007, 21, 2897-2909.	1.1	170
4	Ant Colony Optimization for Multi-Purpose Reservoir Operation. Water Resources Management, 2006, 20, 879-898.	1.9	150
5	Multiobjective Differential Evolution with Application to Reservoir System Optimization. Journal of Computing in Civil Engineering, 2007, 21, 136-146.	2.5	132
6	Application of copulas for derivation of drought severityâ€“durationâ€“frequency curves. Hydrological Processes, 2012, 26, 1672-1685.	1.1	119
7	Bivariate Flood Frequency Analysis of Upper Godavari River Flows Using Archimedean Copulas. Water Resources Management, 2012, 26, 3995-4018.	1.9	113
8	Trend analysis of rainfall in four meteorological subdivisions of southern India using nonparametric methods and discrete wavelet transforms. International Journal of Climatology, 2015, 35, 1107-1124.	1.5	99
9	An efficient multi-objective optimization algorithm based on swarm intelligence for engineering design. Engineering Optimization, 2007, 39, 49-68.	1.5	94
10	Risk Assessment of Droughts in Gujarat Using Bivariate Copulas. Water Resources Management, 2012, 26, 3301-3327.	1.9	92
11	Probabilistic assessment of flood risks using trivariate copulas. Theoretical and Applied Climatology, 2013, 111, 341-360.	1.3	91
12	Ensemble prediction of regional droughts using climate inputs and the SVMâ€“copula approach. Hydrological Processes, 2014, 28, 4989-5009.	1.1	88
13	Evaluation of trends and multivariate frequency analysis of droughts in three meteorological subdivisions of western India. International Journal of Climatology, 2014, 34, 911-928.	1.5	85
14	Evolutionary algorithms, swarm intelligence methods, and their applications in water resources engineering: a state-of-the-art review. H2Open Journal, 2020, 3, 135-188.	0.8	70
15	Optimal reservoir operation for irrigation of multiple crops using elitist-mutated particle swarm optimization. Hydrological Sciences Journal, 2007, 52, 686-701.	1.2	57
16	Evolving strategies for crop planning and operation of irrigation reservoir system using multi-objective differential evolution. Irrigation Science, 2008, 26, 177-190.	1.3	45
17	Spatio-temporal analysis and derivation of copula-based intensityâ€“areaâ€“frequency curves for droughts in western Rajasthan (India). Stochastic Environmental Research and Risk Assessment, 2013, 27, 1975-1989.	1.9	45
18	Multiscale characterization and prediction of monsoon rainfall in India using Hilbertâ€“Huang transform and time-dependent intrinsic correlation analysis. Meteorology and Atmospheric Physics, 2018, 130, 667-688.	0.9	44

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19	Multivariate modeling of droughts using copulas and meta-heuristic methods. Stochastic Environmental Research and Risk Assessment, 2014, 28, 475-489.	1.9	39
20	Performance evaluation of elitist-mutated multi-objective particle swarm optimization for integrated water resources management. Journal of Hydroinformatics, 2009, 11, 79-88.	1.1	38
21	Evaluating the influence of spatial resolutions of DEM on watershed runoff and sediment yield using SWAT. Journal of Earth System Science, 2015, 124, 1517-1529.	0.6	38
22	Optimal Design of Water Distribution Networks Considering Fuzzy Randomness of Demands Using Cross Entropy Optimization. Water Resources Management, 2014, 28, 4075-4094.	1.9	33
23	Optimal Reservoir Operation for Hydropower Production Using Particle Swarm Optimization and Sustainability Analysis of Hydropower. ISH Journal of Hydraulic Engineering, 2013, 19, 196-210.	1.1	28
24	Analyzing the Hydroclimatic Teleconnections of Summer Monsoon Rainfall in Kerala, India, Using Multivariate Empirical Mode Decomposition and Time-Dependent Intrinsic Correlation. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1221-1225.	1.4	28
25	Risk Assessment of Hydroclimatic Variability on Groundwater Levels in the Manjara Basin Aquifer in India Using Archimedean Copulas. Journal of Hydrologic Engineering - ASCE, 2012, 17, 1345-1357.	0.8	25
26	Assessing the Performance of Surrogate Measures for Water Distribution Network Reliability. Journal of Water Resources Planning and Management - ASCE, 2020, 146, .	1.3	25
27	Evaluation of trends and predictability of shortâ€term droughts in three meteorological subdivisions of India using multivariate EMDâ€based hybrid modelling. Hydrological Processes, 2019, 33, 130-143.	1.1	24
28	Developing hourly intensity duration frequency curves for urban areas in India using multivariate empirical mode decomposition and scaling theory. Stochastic Environmental Research and Risk Assessment, 2018, 32, 1889-1902.	1.9	23
29	Chance Constrained Optimal Design of Composite Channels Using Meta-Heuristic Techniques. Water Resources Management, 2010, 24, 2221-2235.	1.9	22
30	Timeâ€“frequency characterization of sub-divisional scale seasonal rainfall in India using the Hilbertâ€“Huang transform. Stochastic Environmental Research and Risk Assessment, 2016, 30, 1063-1085.	1.9	22
31	Reliability analysis of composite channels using first order approximation and Monte Carlo simulations. Stochastic Environmental Research and Risk Assessment, 2013, 27, 477-487.	1.9	21
32	Analysis of ENSO-based climate variability in modulating drought risks over western Rajasthan in India. Journal of Earth System Science, 2013, 122, 253-269.	0.6	19
33	Multiscale Characterization and Prediction of Reservoir Inflows Using MEMD-SLR Coupled Approach. Journal of Hydrologic Engineering - ASCE, 2019, 24, .	0.8	17
34	Overtopping Probability Constrained Optimal Design of Composite Channels Using Swarm Intelligence Technique. Journal of Irrigation and Drainage Engineering - ASCE, 2010, 136, 532-542.	0.6	16
35	Reliability-based design of Water Distribution Networks using Self-Adaptive Differential Evolution algorithm. ISH Journal of Hydraulic Engineering, 2018, 24, 198-212.	1.1	16
36	Regional Rainfall Forecasting using Large Scale Climate Teleconnections and Artificial Intelligence Techniques. Journal of Intelligent Systems, 2007, 16, .	1.2	15

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37	Spatiotemporal Analysis of Water Balance Components and Their Projected Changes in Near-future Under Climate Change Over Sina Basin, India. Water Resources Management, 2020, 34, 2657-2675.	1.9	15
38	Multiscale characterization of streamflow and suspended sediment concentration data using Hilbertâ€“Huang transform and time dependent intrinsic correlation analysis. Modeling Earth Systems and Environment, 2016, 2, 1-17.	1.9	14
39	Non-stationarity analysis of flood flows using copula based change-point detection method: Application to case study of Godavari river basin. Science of the Total Environment, 2020, 718, 134894.	3.9	14
40	An integrated approach to streamflow estimation and flood inundation mapping using VIC, RAPID and LISFLOOD-FP. Journal of Hydrology, 2022, 610, 127842.	2.3	14
41	Optimization and uncertainty analysis of operational policies for multipurpose reservoir system. Stochastic Environmental Research and Risk Assessment, 2014, 28, 1815-1833.	1.9	13
42	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. H2Open Journal, 2020, 3, 306-327.	0.8	11
43	Multiscale Analysis of Suspended Sediment Concentration Data from Natural Channels Using the Hilbert-Huang Transform. Aquatic Procedia, 2015, 4, 780-788.	0.9	10
44	Links Between Global Climate Teleconnections and Indian Monsoon Rainfall. , 2019, , 61-72.		10
45	Improved MOSADE algorithm incorporating Sobol sequences for multi-objective design of Water Distribution Networks. Applied Soft Computing Journal, 2022, 120, 108682.	4.1	8
46	Use of Model Tree and Gene Expression Programming to Predict the Suspended Sediment Load in Rivers. Journal of Intelligent Systems, 2009, 18, .	1.2	7
47	Optimal Design of Pipe Networks Accounting for Future Demands and Phased Expansion using Integrated Dynamic Programming and Differential Evolution Approach. Water Resources Management, 2021, 35, 1231-1250.	1.9	7
48	Development of an entropy-copula-based stochastic simulation model for generation of monthly inflows into the Hirakud Dam. ISH Journal of Hydraulic Engineering, 2013, 19, 267-275.	1.1	6
49	Probabilistic multi-objective optimal design of composite channels using particle swarm optimization. Journal of Hydraulic Research/De Recherches Hydrauliques, 2013, 51, 459-464.	0.7	6
50	Investigating the multiscale variability and teleconnections of extreme temperature over Southern India using the Hilbertâ€“Huang transform. Modeling Earth Systems and Environment, 2017, 3, 1.	1.9	6
51	Elitist-Mutated Multi-Objective Particle Swarm Optimization for Engineering Design. Advances in Information Quality and Management, 2014, , 3534-3545.	0.3	5
52	Slopeâ€stabilityâ€constrained design of irrigation canals using particle swarm optimization. Irrigation and Drainage, 2011, 60, 590-599.	0.8	4
53	Change detection and attribution of flow regime: A case study of Allegheny river catchment, PA (US). Science of the Total Environment, 2019, 662, 192-204.	3.9	4
54	Swarm Intelligence for Multi-Objective Optimization in Engineering Design. Advances in Computer and Electrical Engineering Book Series, 2019, , 180-194.	0.2	4

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55	Use of Particle Swarm Optimization for Optimal Design of Composite Channels. Journal of Intelligent Systems, 2010, 19, .	1.2	3
56	Least cost design of water distribution network by Cross entropy optimization. , 2011, , .		3
57	Reliability-based optimal design of water distribution networks under uncertain demands using cross-entropy method. ISH Journal of Hydraulic Engineering, 2012, 18, 258-268.	1.1	3
58	Identification of homogenous regions in rain-fed watershed using Kohonen neural networks. ISH Journal of Hydraulic Engineering, 2013, 19, 55-66.	1.1	3
59	Gravitational search algorithm for probabilistic design of HBPS canals. ISH Journal of Hydraulic Engineering, 2015, 21, 290-297.	1.1	3
60	A fuzzy multi-objective multiple-pollutant model for rivers using an ant colony algorithm. Water Management, 2022, 175, 190-205.	0.4	3
61	Assessing Suitability of Satellite Rainfall Data for Estimation of Daily Streamflows of a Small Tropical Catchment in India. , 2018, , .		2
62	Multiobjective Optimization in Water and Environmental Systems Management- MODE Approach. Advances in Computer and Electrical Engineering Book Series, 2016, , 120-136.	0.2	2
63	Swarm Intelligence for Multi-Objective Optimization in Engineering Design. , 2018, , 239-250.		2
64	Performance-based multi-objective design and expansion of water distribution networks considering life cycle costs and future demands. Water Science and Technology: Water Supply, 0, , .	1.0	2
65	Bivariate Drought Risk Estimation Using a Multivariate Standardized Drought Index in Marathwada Region, India. , 2022, , 173-189.		2
66	SWARM INTELLIGENCE TECHNIQUES AND ITS APPLICATIONS IN WATER RESOURCES MANAGEMENT. ISH Journal of Hydraulic Engineering, 2009, 15, 151-169.	1.1	1
67	Analysing the Variability of Streamflow and Suspended Sediment Concentration Using Time Dependent Intrinsic Correlation. Procedia Technology, 2016, 24, 54-61.	1.1	1
68	Parameter Estimation of a Macroscale Hydrological Model Using an Adaptive Differential Evolution. Water Science and Technology Library, 2021, , 243-255.	0.2	1
69	Evaluating the performance of bias-corrected IMERG satellite rainfall estimates for hydrological simulation over the Upper Bhima River basin, India. Geocarto International, 2024, 37, 15505-15529.	1.7	1
70	Copula-based Drought Severity-Area-Frequency Analysis in Western Rajasthan, India. , 2012, , .		0
71	Multiscale modelling of monthly streamflows using MEMD-GP coupled approach. International Journal of River Basin Management, 2020, 18, 139-151.	1.5	0
72	Multiobjective Automatic Calibration of a Physically Based Hydrologic Model Using Multiobjective Self-Adaptive Differential Evolution Algorithm. Water Science and Technology Library, 2021, , 435-448.	0.2	0

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73	Multiscale Modelling of Daily Suspended Sediment Load Using MEMD-SLR Coupled Approach. Advances in Computational Intelligence and Robotics Book Series, 2018, , 264-275.	0.4	0