

V Jothiprakash

List of Publications by Year in descending order

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89
papers

1,732
citations

257357

24
h-index

315616

38
g-index

94
all docs

94
docs citations

94
times ranked

1521
citing authors

#	ARTICLE	IF	CITATIONS
1	Impacts of land use—land cover change and urbanization on flooding: A case study of Oshiwara River Basin in Mumbai, India. <i>Catena</i> , 2016, 145, 142-154.	2.2	167
2	Single Reservoir Operating Policies Using Genetic Algorithm. <i>Water Resources Management</i> , 2006, 20, 917-929.	1.9	112
3	Impacts of urbanization on flooding of a coastal urban catchment: a case study of Mumbai City, India. <i>Natural Hazards</i> , 2015, 75, 887-908.	1.6	81
4	Multi-time-step ahead daily and hourly intermittent reservoir inflow prediction by artificial intelligent techniques using lumped and distributed data. <i>Journal of Hydrology</i> , 2012, 450-451, 293-307.	2.3	75
5	Hydrological impacts of land use—land cover change and detention basins on urban flood hazard: a case study of Poisar River basin, Mumbai, India. <i>Natural Hazards</i> , 2017, 87, 1267-1283.	1.6	71
6	Impact of rainfall variability and anthropogenic activities on streamflow changes and water stress conditions across Tapi Basin in India. <i>Science of the Total Environment</i> , 2019, 687, 885-897.	3.9	64
7	Optimization of Hydropower Reservoir Using Evolutionary Algorithms Coupled with Chaos. <i>Water Resources Management</i> , 2013, 27, 1963-1979.	1.9	57
8	Re-look to conventional techniques for trapping efficiency estimation of a reservoir. <i>International Journal of Sediment Research</i> , 2008, 23, 76-84.	1.8	54
9	Reservoir Sedimentation Estimation Using Artificial Neural Network. <i>Journal of Hydrologic Engineering - ASCE</i> , 2009, 14, 1035-1040.	0.8	48
10	Optimal Reservoir Operation for Hydropower Generation using Non-linear Programming Model. <i>Journal of the Institution of Engineers (India): Series A</i> , 2012, 93, 111-120.	0.6	45
11	Effect of Pruning and Smoothing while Using M5 Model Tree Technique for Reservoir Inflow Prediction. <i>Journal of Hydrologic Engineering - ASCE</i> , 2011, 16, 563-574.	0.8	41
12	Daily rainfall forecasting for one year in a single run using Singular Spectrum Analysis. <i>Journal of Hydrology</i> , 2018, 561, 609-621.	2.3	39
13	Development of Priority-Based Policies for Conjunctive Use of Surface and Groundwater. <i>Water International</i> , 2003, 28, 254-267.	0.4	37
14	Inter-comparison of time series models of lake levels predicted by several modeling strategies. <i>Journal of Hydrology</i> , 2014, 511, 530-545.	2.3	36
15	Streamflow variability and classification using false nearest neighbor method. <i>Journal of Hydrology</i> , 2015, 531, 706-715.	2.3	33
16	Flood Frequency Analysis Using L Moments: a Comparison between At-Site and Regional Approach. <i>Water Resources Management</i> , 2019, 33, 1013-1037.	1.9	33
17	Hybrid SSA-ARIMA-ANN Model for Forecasting Daily Rainfall. <i>Water Resources Management</i> , 2020, 34, 3609-3623.	1.9	32
18	Estimation of daily pan evaporation using neural networks and meta-heuristic approaches. <i>ISH Journal of Hydraulic Engineering</i> , 2020, 26, 421-429.	1.1	30

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19	Intermittent reservoir daily-inflow prediction using lumped and distributed data multi-linear regression models. <i>Journal of Earth System Science</i> , 2011, 120, 1067-1084.	0.6	29
20	Development of Operational Policy for a Multi-reservoir System in India using Genetic Algorithm. <i>Water Resources Management</i> , 2011, 25, 2405-2423.	1.9	29
21	Short-term rainfall prediction using ANN and MT techniques. <i>ISH Journal of Hydraulic Engineering</i> , 2012, 18, 20-26.	1.1	29
22	Orifice Spillway Aerator: Hydraulic Design. <i>Journal of Hydraulic Engineering</i> , 2012, 138, 563-572.	0.7	28
23	Extraction of Nonlinear Rainfall Trends Using Singular Spectrum Analysis. <i>Journal of Hydrologic Engineering - ASCE</i> , 2015, 20, .	0.8	28
24	Reservoir Evaporation Prediction Using Data-Driven Techniques. <i>Journal of Hydrologic Engineering - ASCE</i> , 2013, 18, 40-49.	0.8	27
25	Evaluation of reservoir sedimentation using data driven techniques. <i>Applied Soft Computing Journal</i> , 2013, 13, 3567-3581.	4.1	26
26	Modeling the Time Variation of Reservoir Trap Efficiency. <i>Journal of Hydrologic Engineering - ASCE</i> , 2010, 15, 1001-1015.	0.8	23
27	Comparison of Policies Derived from Stochastic Dynamic Programming and Genetic Algorithm Models. <i>Water Resources Management</i> , 2009, 23, 1563-1580.	1.9	21
28	Multi-reservoir optimization for hydropower production using NLP technique. <i>KSCE Journal of Civil Engineering</i> , 2014, 18, 344-354.	0.9	21
29	Improving the performance of data-driven techniques through data pre-processing for modelling daily reservoir inflow. <i>Hydrological Sciences Journal</i> , 2011, 56, 168-186.	1.2	20
30	Chaotic analysis of daily rainfall series in Koyna reservoir catchment area, India. <i>Stochastic Environmental Research and Risk Assessment</i> , 2013, 27, 1371-1381.	1.9	20
31	Delineation of potential zones for artificial recharge using gis. <i>Journal of the Indian Society of Remote Sensing</i> , 2003, 31, 37-47.	1.2	19
32	Sediment Yield Assessment of a Large Basin using PSIAC Approach in GIS Environment. <i>Water Resources Management</i> , 2012, 26, 799-840.	1.9	19
33	Flow characteristics of orifice spillway aerator: numerical model studies. <i>ISH Journal of Hydraulic Engineering</i> , 2015, 21, 216-230.	1.1	18
34	Statistical classification of streamflow based on flow variability in west flowing rivers of Kerala, India. <i>Theoretical and Applied Climatology</i> , 2019, 137, 1643-1658.	1.3	16
35	Chaotic Evolutionary Algorithms for Multi-Reservoir Optimization. <i>Water Resources Management</i> , 2013, 27, 5207.	1.9	14
36	Hydroclimatic teleconnections of large-scale oceanic-atmospheric circulations on hydrometeorological extremes of Tapi Basin, India. <i>Atmospheric Research</i> , 2020, 235, 104791.	1.8	14

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37	Optimal crop plans for a multi-reservoir system having intra-basin water transfer using multi-objective evolutionary algorithms coupled with chaos. <i>Computers and Electronics in Agriculture</i> , 2017, 140, 34-47.	3.7	13
38	Optimal crop planning using a chance constrained linear programming model. <i>Water Policy</i> , 2011, 13, 734-749.	0.7	12
39	Data-driven multi-time-step ahead daily rainfall forecasting using singular spectrum analysis-based data pre-processing. <i>Journal of Hydroinformatics</i> , 2018, 20, 645-667.	1.1	12
40	Spatio-temporal trend and homogeneity analysis of gridded and gauge precipitation in Indravati River basin, India. <i>Journal of Water and Climate Change</i> , 2020, 11, 178-199.	1.2	12
41	Behavioural analysis of a time seriesâ€“A chaotic approach. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2014, 39, 659-676.	0.8	11
42	Impact assessment of Hathnur reservoir on hydrological regimes of Tapi River, India. <i>ISH Journal of Hydraulic Engineering</i> , 2021, 27, 433-445.	1.1	11
43	Improving the optimal solution of GoYang network â€“ using genetic algorithm and differential evolution. <i>Water Science and Technology: Water Supply</i> , 2020, 20, 95-102.	1.0	11
44	Data-driven modelling framework for streamflow prediction in a physio-climatically heterogeneous river basin. <i>Soft Computing</i> , 2021, 25, 5951-5978.	2.1	11
45	TRAP EFFICIENCY ESTIMATION OF A LARGE RESERVOIR. <i>ISH Journal of Hydraulic Engineering</i> , 2008, 14, 88-101.	1.1	10
46	Hydraulic investigation and design of roof profile of an orifice spillway using experimental and numerical models. <i>Journal of Applied Water Engineering and Research</i> , 2018, 6, 85-94.	1.0	10
47	SOFT COMPUTING TOOLS IN RAINFALL-RUNOFF MODELING. <i>ISH Journal of Hydraulic Engineering</i> , 2009, 15, 84-96.	1.1	9
48	Artificial Intelligence Techniques for Predicting and Mapping Daily Pan Evaporation. <i>Journal of the Institution of Engineers (India): Series A</i> , 2017, 98, 219-231.	0.6	9
49	Reservoir Inflow Prediction Using Time Lagged Recurrent Neural Networks. , 2008, , .		8
50	Efficient discretization of state variables in stochastic dynamic programming model of Ukai reservoir, India. <i>ISH Journal of Hydraulic Engineering</i> , 2016, 22, 293-304.	1.1	8
51	A multiobjective fuzzy linear programming model for sustainable integrated operation of a multireservoir system. <i>Lakes and Reservoirs: Research and Management</i> , 2016, 21, 171-187.	0.6	8
52	Multi-output ANN Model for Prediction of Seven Meteorological Parameters in a Weather Station. <i>Journal of the Institution of Engineers (India): Series A</i> , 2014, 95, 221-229.	0.6	7
53	Design of a Pipe Network Using the Finite-Element Method Coupled with Particle-Swarm Optimization. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2017, 8, .	0.9	7
54	Hydraulic design considerations for orifice spillways. <i>ISH Journal of Hydraulic Engineering</i> , 2019, 25, 12-18.	1.1	7

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55	Long-Term Analysis of Precipitation in Slovakia. <i>Water (Switzerland)</i> , 2021, 13, 952.	1.2	7
56	Dynamic Analysis of Meteorological Parameters in KoÅ¡ice Climatic Station in Slovakia. <i>Water (Switzerland)</i> , 2018, 10, 702.	1.2	6
57	A Correlationâ€“Scaleâ€“Threshold Method for Spatial Variability of Rainfall. <i>Hydrology</i> , 2019, 6, 11.	1.3	6
58	Assessment of variability in runoff coefficients and their linkages with physiographic and climatic characteristics of two contrasting catchments. <i>Journal of Water and Climate Change</i> , 2019, 10, 464-483.	1.2	6
59	Hybrid Differential Evolution and Krill Herd Algorithm for the Optimal Design of Water Distribution Networks. <i>Journal of Computing in Civil Engineering</i> , 2022, 36, .	2.5	6
60	Prediction of meteorological variables using artificial neural networks. <i>International Journal of Hydrology Science and Technology</i> , 2011, 1, 192.	0.2	5
61	Complexity of streamflows in the west-flowing rivers of India. <i>Stochastic Environmental Research and Risk Assessment</i> , 2019, 33, 837-853.	1.9	5
62	Intermittent Reservoir Daily Inflow Prediction Using Stochastic and Model Tree Techniques. <i>Journal of the Institution of Engineers (India): Series A</i> , 2019, 100, 439-446.	0.6	5
63	Spatial rainfall variability in peninsular India: a nonlinear dynamic approach. <i>Stochastic Environmental Research and Risk Assessment</i> , 2019, 33, 465-480.	1.9	5
64	Evaluation of a multi-reservoir hydropower system using a simulation model. <i>ISH Journal of Hydraulic Engineering</i> , 2014, 20, 177-187.	1.1	4
65	Physical and numerical model studies for lower and upper nappe profiles of sharp-edged large orifice. <i>ISH Journal of Hydraulic Engineering</i> , 2016, 22, 227-235.	1.1	4
66	Chaos-directed genetic algorithms for water distribution network design: an enhanced search method. <i>Stochastic Environmental Research and Risk Assessment</i> , 2022, 36, 3377-3393.	1.9	4
67	Performance assessment of sewage treatment plants using compliance index. <i>Journal of Water Sanitation and Hygiene for Development</i> , 2022, 12, 485-497.	0.7	4
68	A weekly operational planning model for a run-off-the-river system: some simulation results from the Tambiraparani river, Tamil Nadu, India. <i>Water Policy</i> , 2010, 12, 318-335.	0.7	3
69	Daily precipitation mapping and forecasting using data driven techniques. <i>International Journal of Hydrology Science and Technology</i> , 2013, 3, 364.	0.2	3
70	Consequences of Continuous Zero Values and Constant Values in Time Series Modeling: Understanding through Chaotic Approach. <i>Journal of Hydrologic Engineering - ASCE</i> , 2016, 21, 05016012.	0.8	3
71	Regional flood frequency analysis using complex networks. <i>Stochastic Environmental Research and Risk Assessment</i> , 2022, 36, 115-135.	1.9	3
72	HYDRAULICS OF AERATOR FOR ORIFICE SPILLWAY. <i>ISH Journal of Hydraulic Engineering</i> , 2008, 14, 28-40.	1.1	2

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73	Reservoir Sedimentation Estimation Using Genetic Programming Technique. , 2009, , .		2
74	Performance assessment of storage policies of the Vaigai Reservoir using a simulation model. Water International, 2012, 37, 319-333.	0.4	2
75	Chaotic Analysis of Reservoir Inflow Series: A Case Study on Koyna Reservoir Inflow. Journal of the Institution of Engineers (India): Series A, 2013, 94, 89-97.	0.6	2
76	Evaluating a multi-reservoir system for sustainable integrated operation using a simulation model. Sustainable Water Resources Management, 2018, 4, 981-990.	1.0	2
77	Temporal Analysis of Daily and 10 Minutes of Rainfall of Poprad Station in Eastern Slovakia. Hydrology, 2020, 7, 32.	1.3	2
78	Regional Flood Frequency Analysis Using Fuzzy c-Means Clustering Algorithm for West-Flowing Rivers in Kerala, India. Journal of the Institution of Engineers (India): Series A, 2021, 102, 805-813.	0.6	2
79	SURGE ANALYSIS IN A LARGE LIFT IRRIGATION PROJECT THROUGH PHYSICAL MODELINGâ€”A CASE STUDY. ISH Journal of Hydraulic Engineering, 2007, 13, 102-114.	1.1	1
80	Streamflow Connectivity in a Large-Scale River Basin. Springer Water, 2019, , 205-223.	0.2	1
81	Spatial-temporal statistical analysis of daily rainfall for KoÅ¡ice station in eastern Slovakia. IOP Conference Series: Materials Science and Engineering, 2020, 867, 012035.	0.3	1
82	Model tree technique for streamflow forecasting. , 2021, , 215-237.		1
83	False Nearest Neighbour Method for the Analysis of Sea Surface Temperature Time Series. Lecture Notes in Civil Engineering, 2021, , 361-369.	0.3	1
84	Grouping in Singular Spectrum Analysis of Time Series. Journal of Hydrologic Engineering - ASCE, 2022, 27, .	0.8	1
85	GENETIC ALGORITHMS FOR MULTIRESERVOIR SYSTEM OPTIMIZATION. ISH Journal of Hydraulic Engineering, 2006, 12, 72-82.	1.1	0
86	Hydraulics of aerator for orifice spillway. ISH Journal of Hydraulic Engineering, 2008, 14, 148-149.	1.1	0
87	Closure to â€œOrifice Spillway Aerator: Hydraulic Designâ€•by V. V. Bhosekar, V. Jothiprakash, and P. B. Deolalikar. Journal of Hydraulic Engineering, 2015, 141, 07014017.	0.7	0
88	Improving the Performance of the Optimization Technique Using Chaotic Algorithm. Advances in Intelligent Systems and Computing, 2014, , 243-250.	0.5	0
89	Analysis of short â€œ term heavy rains in eastern Slovakia in the period 2003 - 2018. Selected Scientific Papers: Journal of Civil Engineering, 2020, 15, 29-37.	0.1	0