

# Purna C Nayak

## 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.

25  
papers

1,597  
citations

17  
h-index

25  
g-index

25  
ext. papers

1,784  
ext. citations

3.1  
avg, IF

4.53  
L-index

#	Paper	IF	Citations
25	A neuro-fuzzy computing technique for modeling hydrological time series. <i>Journal of Hydrology</i> , <b>2004</b> , 291, 52-66	6	460
24	Groundwater Level Forecasting in a Shallow Aquifer Using Artificial Neural Network Approach. <i>Water Resources Management</i> , <b>2006</b> , 20, 77-90	3.7	227
23	Short-term flood forecasting with a neurofuzzy model. <i>Water Resources Research</i> , <b>2005</b> , 41,	5.4	172
22	Fuzzy computing based rainfall-runoff model for real time flood forecasting. <i>Hydrological Processes</i> , <b>2005</b> , 19, 955-968	3.3	124
21	Models for estimating evapotranspiration using artificial neural networks, and their physical interpretation. <i>Hydrological Processes</i> , <b>2008</b> , 22, 2225-2234	3.3	104
20	Improving peak flow estimates in artificial neural network river flow models. <i>Hydrological Processes</i> , <b>2003</b> , 17, 677-686	3.3	75
19	Rainfall-runoff modeling using conceptual, data driven, and wavelet based computing approach. <i>Journal of Hydrology</i> , <b>2013</b> , 493, 57-67	6	68
18	Rainfall-runoff modeling through hybrid intelligent system. <i>Water Resources Research</i> , <b>2007</b> , 43,	5.4	51
17	Spatiotemporal Analysis of Drought Characteristics in the Bundelkhand Region of Central India using the Standardized Precipitation Index. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2015</b> , 20, 05015004 <sup>1.8</sup>	1.8	48
16	Drought indicators-based integrated assessment of drought vulnerability: a case study of Bundelkhand droughts in central India. <i>Natural Hazards</i> , <b>2016</b> , 81, 1627-1652	3	47
15	Time Series Modeling of River Flow Using Wavelet Neural Networks. <i>Journal of Water Resource and Protection</i> , <b>2011</b> , 03, 50-59	0.7	36
14	Comparison of multi-objective evolutionary neural network, adaptive neuro-fuzzy inference system and bootstrap-based neural network for flood forecasting. <i>Neural Computing and Applications</i> , <b>2013</b> , 23, 231-246	4.8	29
13	Trends in Rainfall and Peak Flows for some River Basins in India. <i>Current Science</i> , <b>2017</b> , 112, 1712	2.2	25
12	Comprehensive evaluation of the changing drought characteristics in Bundelkhand region of Central India. <i>Meteorology and Atmospheric Physics</i> , <b>2015</b> , 127, 163-182	2	23
11	Performance evaluation and hydrological trend detection of a reservoir under climate change condition. <i>Modeling Earth Systems and Environment</i> , <b>2015</b> , 1, 1	3.2	20
10	Regional Flood Frequency Analysis using Soft Computing Techniques. <i>Water Resources Management</i> , <b>2015</b> , 29, 1965-1978	3.7	20
9	Fuzzy model identification based on cluster estimation for reservoir inflow forecasting. <i>Hydrological Processes</i> , <b>2008</b> , 22, 827-841	3.3	19

8	Hierarchical neurofuzzy model for real-time flood forecasting. <i>International Journal of River Basin Management</i> , <b>2013</b> , 11, 253-268	1.7	10
7	Water balance approach to study the effect of climate change on groundwater storage for Sirhind command area in India. <i>International Journal of River Basin Management</i> , <b>2015</b> , 13, 243-261	1.7	9
6	River flow forecasting through nonlinear local approximation in a fuzzy model. <i>Neural Computing and Applications</i> , <b>2014</b> , 25, 1951-1965	4.8	9
5	Explaining Internal Behavior in a Fuzzy If-Then Rule-Based Flood-Forecasting Model. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2010</b> , 15, 20-28	1.8	7
4	Recharge source identification using isotope analysis and groundwater flow modeling for Puri city in India. <i>Applied Water Science</i> , <b>2017</b> , 7, 3583-3598	5	5
3	Irrigation planning for sustainable rain-fed agriculture in the drought-prone Bundelkhand region of Madhya Pradesh, India. <i>Journal of Water and Climate Change</i> , <b>2014</b> , 5, 408-426	2.3	5
2	Modeling of a River Basin Using SWAT Model. <i>Water Science and Technology Library</i> , <b>2018</b> , 707-714	0.3	3
1	Spatio-temporal analysis of rainfall pattern in the Western Ghats region of India. <i>Meteorology and Atmospheric Physics</i> , <b>2021</b> , 133, 1089-1109	2	1