

# C T Dhanya

## List of Articles by Year in descending order

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60

PR articles

1,385

PR citations

341738

21

PR h-index

380384

35

g-index

67

documents

1563

doc citations

383540

21

h-index

2435

citing authors

#	ARTICLE	IF	CITATIONS
1	Identifying the pollution sources of River Yamuna through field observations and participatory approach. <i>Journal of Earth System Science</i> , 2025, 134, .	1.6	4
2	Improved streamflow simulations in hydrologically diverse basins using physically-informed deep learning models. <i>Hydrological Sciences Journal</i> , 2025, 70, 775-788.	2.5	4
3	A surrogate machine learning model using random forests for real-time flood inundation simulations. <i>Environmental Modelling and Software</i> , 2025, 188, 106439.	4.3	4
4	Towards an Indian land data assimilation system (ILDAS): A coupled hydrologic-hydraulic system for water balance assessments. <i>Journal of Hydrology</i> , 2024, 629, 130604.	6.0	11
5	Do groundwater systems experience a "silent" stress? A paradox of rising groundwater levels and stressed aquifers. <i>Groundwater for Sustainable Development</i> , 2024, 25, 101111.	5.4	4
6	A novel framework for assessment of human impact of floods: Demonstrated for the Indian subcontinent. <i>Journal of Hydrology</i> , 2024, 635, 131110.	6.0	11
7	Quantification of the Escalating Influence of Anthropogenic Factors in Suspended-Sediment Concentration Regimes. <i>Journal of Hydrologic Engineering - ASCE</i> , 2024, 29, .	1.6	2
8	Increased socio-vulnerability to floods around flood protection structures: case study of Ganga and Brahmaputra basins (India). <i>Hydrological Sciences Journal</i> , 2024, 69, 2466-2480.	2.5	2
9	Reducing the Uncertainty in the Tropical Precipitation through a Multi-Criteria Decision-Making Approach. <i>International Journal of Climatology</i> , 2024, 44, 5773-5790.	3.0	1
10	Vulnerability assessment of thermal power plants in India under water stress conditions. <i>Energy</i> , 2023, 276, 127553.	8.9	10
11	Mutual information based weighted variance approach for uncertainty quantification of climate projections. <i>MethodsX</i> , 2023, 10, 102063.	1.6	13
12	Impact of lockdowns and possible quantification of pollution sources on the water quality of the Yamuna River. <i>Hydrological Sciences Journal</i> , 2023, 68, 1539-1552.	2.5	4
13	Unraveling the pertinence of drought indices in the changing climate. <i>Environmental Research Letters</i> , 2023, 18, 064024.	4.9	0
14	Time-varying Intensity-Duration-Frequency relationship through climate-informed covariates. <i>Journal of Hydrology</i> , 2022, 604, 127178.	6.0	32
15	The Role of Global Data Sets for Riverine Flood Risk Management at National Scales. <i>Water Resources Research</i> , 2022, 58, .	4.6	32
16	Quantification of model uncertainty in sub-daily extreme precipitation projections. <i>Global and Planetary Change</i> , 2022, 218, 103967.	3.7	8
17	Quantifying the Effect of GRACE Terrestrial Water Storage Anomaly in the Simulation of Extreme Flows. <i>Journal of Hydrologic Engineering - ASCE</i> , 2021, 26, .	1.6	3
18	Spatio-temporal effect of climate and land-use change on water balance of the Ganga river basin. <i>Journal of Hydro-Environment Research</i> , 2021, 36, 50-66.	2.3	11

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19	An improved error decomposition scheme for satellite-based precipitation products. <i>Journal of Hydrology</i> , 2021, 598, 126434.	6.0	29
20	A Robust Drought Index Accounting Changing Precipitation Characteristics. <i>Water Resources Research</i> , 2021, 57, .	4.6	11
21	Impact of sustainable land management on vegetation cover using remote sensing in Magera micro Watershed, Omo Gibe Basin, Ethiopia. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2021, 103, 102495.	3.4	11
22	The potential of GRACE in assessing the flood potential of Peninsular Indian River basins. <i>International Journal of Remote Sensing</i> , 2020, 41, 9009-9038.	2.5	26
23	Decision tree-based reduction of bias in monthly IMERG satellite precipitation dataset over India. <i>H2Open Journal</i> , 2020, 3, 236-255.	1.7	9
24	Modeling the impact of climate change on the environmental flow indicators over Omo-Gibe basin, Ethiopia. <i>Modeling Earth Systems and Environment</i> , 2020, 6, 2063-2089.	2.6	18
25	Expanding contingency table for intensity and frequency based "true" detection of rainy events in precipitation datasets. <i>Atmospheric Research</i> , 2020, 244, 105119.	4.2	6
26	Quantifying the shifts and intensification in the annual cycles of diurnal temperature extremes for human comfort and crop production. <i>Environmental Research Letters</i> , 2019, 14, 054016.	4.9	9
27	Bringing realism into a dynamic copula-based non-stationary intensity-duration model. <i>Advances in Water Resources</i> , 2019, 130, 325-338.	4.0	31
28	Water Quality-Based Environmental Flow under Plausible Temperature and Pollution Scenarios. <i>Journal of Hydrologic Engineering - ASCE</i> , 2019, 24, .	1.6	17
29	Examination of mean precipitation and moisture transport in reanalysis products over India. <i>ISH Journal of Hydraulic Engineering</i> , 2019, 25, 51-61.	1.4	14
30	Coupling of 1D models (SWAT and SWMM) with 2D model (iRIC) for mapping inundation in Brahmani and Baitarani river delta. <i>Natural Hazards</i> , 2018, 92, 1821-1840.	3.1	40
31	Modeling of extreme risk in river water quality under climate change. <i>Journal of Water and Climate Change</i> , 2018, 9, 512-524.	3.2	18
32	Sequential calibration of a water quality model using reach-specific parameter estimates. <i>Hydrology Research</i> , 2018, 49, 1042-1055.	2.6	16
33	Regionalization of rainfall characteristics in India incorporating climatic variables and using self-organizing maps. <i>ISH Journal of Hydraulic Engineering</i> , 2018, 24, 147-156.	1.4	25
34	Reliability of reanalyses products in simulating precipitation and temperature characteristics over India. <i>Journal of Earth System Science</i> , 2018, 127, .	1.6	40
35	Dry and wet spell variability during monsoon in gauge-based gridded daily precipitation datasets over India. <i>Journal of Hydrology</i> , 2017, 546, 204-218.	6.0	49
36	Estimation of environmental flow incorporating water quality and hypothetical climate change scenarios. <i>Environmental Monitoring and Assessment</i> , 2017, 189, .	2.9	22

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37	Sensitivity analysis of hydrological models: review and way forward. <i>Journal of Water and Climate Change</i> , 2017, 8, 557-575.	3.2	43
38	Increasing probability of mortality during Indian heat waves. <i>Science Advances</i> , 2017, 3, .	10.9	363
39	GIS-based SWMM model for simulating the catchment response to flood events. <i>Hydrology Research</i> , 2017, 48, 384-394.	2.6	54
40	Unravelling Diurnal Asymmetry of Surface Temperature in Different Climate Zones. <i>Scientific Reports</i> , 2017, 7, .	3.4	53
41	An investigation of predictability dynamics of temperature and precipitation in reanalysis datasets over the continental United States. <i>Atmospheric Research</i> , 2017, 183, 341-350.	4.2	18
42	Flood control in an urban drainage system using a linear controller. <i>Water Practice and Technology</i> , 2017, 12, 942-952.	1.9	6
43	On the inherent predictability of precipitation across the United States. <i>Theoretical and Applied Climatology</i> , 2017, 133, 1035-1050.	2.4	3
44	Evaluation of ERA-Interim, MERRA, NCEP-DOE R2 and CFSR Reanalysis precipitation Data using Gauge Observation over Ethiopia for a period of 33 years. <i>AIMS Environmental Science</i> , 2017, 4, 596-620.	1.2	15
45	A PSO approach for optimum design of dynamic inversion controller in water distribution systems. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2016, 65, 570-581.	1.2	2
46	A regional scale performance evaluation of SMOS and ESA-CCI soil moisture products over India with simulated soil moisture from MERRA-Land. <i>Remote Sensing of Environment</i> , 2016, 186, 514-527.	11.2	48
47	Regional scale groundwater modelling study for Ganga River basin. <i>Journal of Hydrology</i> , 2016, 541, 727-741.	6.0	49
48	Changing characteristics of extreme wet and dry spells of Indian monsoon rainfall. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 2146-2160.	3.0	131
49	Dynamic coupling of support vector machine and K-nearest neighbour for downscaling daily rainfall. <i>Journal of Hydrology</i> , 2015, 525, 286-301.	6.0	40
50	Predictability and chaotic nature of daily streamflow. <i>Australian Journal of Water Resources</i> , 2013, 17, .	1.4	1
51	Regionalization of Rainfall Using RCDA Cluster Ensemble Algorithm in India. <i>Journal of Software Engineering and Applications</i> , 2012, 05, 568-573.	0.6	10
52	Predictive uncertainty of chaotic daily streamflow using ensemble wavelet networks approach. <i>Water Resources Research</i> , 2011, 47, .	4.6	36
53	Multivariate nonlinear ensemble prediction of daily chaotic rainfall with climate inputs. <i>Journal of Hydrology</i> , 2011, 403, 292-306.	6.0	39
54	Nonlinear ensemble prediction of chaotic daily rainfall. <i>Advances in Water Resources</i> , 2010, 33, 327-347.	4.0	95

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55	Data Mining for Evolving Fuzzy Association Rules for Predicting Monsoon Rainfall of India. Journal of Intelligent Systems, 2009, 18, 193-210.	1.0	14
56	DATA MINING AND ITS APPLICATIONS FOR MODELLING RAINFALL EXTREMES. ISH Journal of Hydraulic Engineering, 2009, 15, 25-51.	1.4	3
57	Data mining for evolution of association rules for droughts and floods in India using climate inputs. Journal of Geophysical Research, 2009, 114, .	3.5	48
58	Selection of principles of transboundary water resources management in the Indian context based on multi-criteria evaluation. Water Policy, 0, 28, 163-195.	1.7	0
59	SPAR-TC: A framework for accounting spatial representativeness in triple collocation. Environmental Modelling and Software, 0, 198, 106874.	4.3	0
60	Drying of Northern Arabian Sea's Lower Atmosphere Amplifies the Monsoon Droughts Over the Western Front of India. Journal of Geophysical Research D: Atmospheres, 0, 131, .	3.0	0