

Chandranath Chatterjee

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

2,996
citations

159525

30
h-index

168321

53
g-index

70
all docs

70
docs citations

70
times ranked

2595
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding flood regime changes of the Mahanadi River. ISH Journal of Hydraulic Engineering, 2023, 29, 389-402.	1.1	2
2	PRISM: Priority-Aware Service Availability in Multi-UAV Networks for IoT Applications. IEEE Internet of Things Journal, 2022, 9, 8597-8606.	5.5	0
3	Understanding the impacts of predecessor rain events on flood hazard in a changing climate. Hydrological Processes, 2022, 36, .	1.1	12
4	CEDAN: Cost-Effective Data Aggregation for UAV-Enabled IoT Networks. IEEE Transactions on Mobile Computing, 2022, , 1-1.	3.9	1
5	Evaluation of Spatio-Temporal Evapotranspiration Using Satellite-Based Approach and Lysimeter in the Agriculture Dominated Catchment. Journal of the Indian Society of Remote Sensing, 2021, 49, 1939-1950.	1.2	13
6	Climate-changed versus land-use altered streamflow: A relative contribution assessment using three complementary approaches at a decadal time-spell. Journal of Hydrology, 2021, 596, 126064.	2.3	18
7	Estimation of nitrogen status and yield of rice crop using unmanned aerial vehicle equipped with multispectral camera. Journal of Applied Remote Sensing, 2021, 15, .	0.6	4
8	A non-destructive approach for assessment of nitrogen status of wheat crop using unmanned aerial vehicle equipped with RGB camera. Arabian Journal of Geosciences, 2021, 14, 1.	0.6	5
9	Comparative Evaluation of Simplified Surface Energy Balance Index-Based Actual ET against Lysimeter Data in a Tropical River Basin. Sustainability, 2021, 13, 13786.	1.6	6
10	Hydrodynamic Modeling for Flood Hazard Assessment in a Data Scarce Region: a Case Study of Bharathapuzha River Basin. Environmental Modeling and Assessment, 2020, 25, 97-114.	1.2	28
11	Analysis of persistence in the flood timing and the role of catchment wetness on flood generation in a large river basin in India. Theoretical and Applied Climatology, 2020, 139, 373-388.	1.3	16
12	Implications of climate change on water storage and filling time of a multipurpose reservoir in India. Journal of Hydrology, 2020, 590, 125542.	2.3	13
13	Impact of climate change on streamflow regime of a large Indian river basin using a novel monthly hybrid bias correction technique and a conceptual modeling framework. Journal of Hydrology, 2020, 590, 125448.	2.3	16
14	Energy-Aware Multi-UAV Networks for On-Demand Task Execution. , 2020, , .		2
15	Simulating hydrological response of a monsoon dominated reservoir catchment and command with heterogeneous cropping pattern using VIC model. Journal of Earth System Science, 2020, 129, 1.	0.6	20
16	Evaluation of Simplified Surface Energy Balance Index (S-SEBI) Method for Estimating Actual Evapotranspiration in Kangsabati Reservoir Command Using Landsat 8 Imagery. Journal of the Indian Society of Remote Sensing, 2020, 48, 1421-1432.	1.2	19
17	Water scarcity-risk assessment in data-scarce river basins under decadal climate change using a hydrological modelling approach. Journal of Hydrology, 2020, 590, 125260.	2.3	44
18	QoE Analysis in Cache-Enabled Multi-UAV Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 6680-6687.	3.9	23

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19	Enhancing real-time streamflow forecasts with wavelet-neural network based error-updating schemes and ECMWF meteorological predictions in Variable Infiltration Capacity model. <i>Journal of Hydrology</i> , 2019, 575, 890-910.	2.3	32
20	Drought characterization over India under projected climate scenario. <i>International Journal of Climatology</i> , 2019, 39, 1889-1911.	1.5	94
21	Spatio-temporal trends of rainfall across Indian river basins. <i>Theoretical and Applied Climatology</i> , 2018, 132, 419-436.	1.3	109
22	An analysis of precipitation climatology over Indian urban agglomeration. <i>Theoretical and Applied Climatology</i> , 2018, 133, 421-436.	1.3	15
23	Modelling the dynamics of evapotranspiration using Variable Infiltration Capacity model and regionally calibrated Hargreaves approach. <i>Irrigation Science</i> , 2018, 36, 289-300.	1.3	35
24	Flood Forecasting and Uncertainty Assessment Using Wavelet- and Bootstrap-Based Neural Networks. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2018, , 74-93.	0.4	1
25	Enhancing the applicability of Kohonen Self-Organizing Map (KSOM) estimator for gap-filling in hydrometeorological timeseries data. <i>Journal of Hydrology</i> , 2017, 549, 133-147.	2.3	16
26	Does the GPM mission improve the systematic error component in satellite rainfall estimates over TRMM? An evaluation at a pan-India scale. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 6117-6134.	1.9	48
27	A wavelet-based non-linear autoregressive with exogenous inputs (WNARX) dynamic neural network model for real-time flood forecasting using satellite-based rainfall products. <i>Journal of Hydrology</i> , 2016, 539, 57-73.	2.3	86
28	Modeling urban floods and drainage using SWMM and MIKE URBAN: a case study. <i>Natural Hazards</i> , 2016, 84, 749-776.	1.6	180
29	Assessment of Cartosat-1 DEM for Modeling Floods in Data Scarce Regions. <i>Water Resources Management</i> , 2016, 30, 1293-1309.	1.9	21
30	Regional Flood Frequency Analysis using Soft Computing Techniques. <i>Water Resources Management</i> , 2015, 29, 1965-1978.	1.9	29
31	Identification of the best multi-model combination for simulating river discharge. <i>Journal of Hydrology</i> , 2015, 525, 313-325.	2.3	43
32	Reservoir Inflow Forecasting Using Ensemble Models Based on Neural Networks, Wavelet Analysis and Bootstrap Method. <i>Water Resources Management</i> , 2015, 29, 4863-4883.	1.9	74
33	Flood risk modeling for optimal rice planning for delta region of Mahanadi river basin in India. <i>Natural Hazards</i> , 2015, 76, 347-372.	1.6	40
34	Evaluation of TRMM rainfall estimates over a large Indian river basin (Mahanadi). <i>Hydrology and Earth System Sciences</i> , 2014, 18, 2493-2502.	1.9	62
35	Are recent frequent high floods in Mahanadi basin in eastern India due to increase in extreme rainfalls?. <i>Journal of Hydrology</i> , 2014, 517, 847-862.	2.3	91
36	Flood hazard assessment with multiparameter approach derived from coupled 1D and 2D hydrodynamic flow model. <i>Natural Hazards</i> , 2014, 70, 1553-1574.	1.6	46

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37	Hydrological Modeling to Identify and Manage Critical Erosion-Prone Areas for Improving Reservoir Life: Case Study of Barakar Basin. <i>Journal of Hydrologic Engineering - ASCE</i> , 2014, 19, 196-204.	0.8	12
38	Wavelet Bootstrap Multiple Linear Regression Based Hybrid Modeling for Daily River Discharge Forecasting. <i>Water Resources Management</i> , 2014, 28, 2793-2811.	1.9	67
39	Effect of Utilization of Discrete Wavelet Components on Flood Forecasting Performance of Wavelet Based ANFIS Models. <i>Water Resources Management</i> , 2014, 28, 1733-1749.	1.9	62
40	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> , 2013, 23, 231-246.	3.2	40
41	Hierarchical neurofuzzy model for real-time flood forecasting. <i>International Journal of River Basin Management</i> , 2013, 11, 253-268.	1.5	12
42	Spatial variability of climate change impacts on yield of rice and wheat in the Indian Ganga Basin. <i>Science of the Total Environment</i> , 2013, 468-469, S132-S138.	3.9	71
43	Improving reliability of river flow forecasting using neural networks, wavelets and self-organising maps. <i>Journal of Hydroinformatics</i> , 2013, 15, 486-502.	1.1	29
44	River-Flow Forecasting Using Higher-Order Neural Networks. <i>Journal of Hydrologic Engineering - ASCE</i> , 2012, 17, 655-666.	0.8	18
45	A new wavelet-“bootstrap”ANN hybrid model for daily discharge forecasting. <i>Journal of Hydroinformatics</i> , 2011, 13, 500-519.	1.1	113
46	Development of Regional Flood Frequency Relationships for Gauged and Ungauged Catchments Using L-Moments. , 2011, , 104-127.		3
47	Uncertainty assessment and ensemble flood forecasting using bootstrap based artificial neural networks (BANNs). <i>Journal of Hydrology</i> , 2010, 382, 20-33.	2.3	152
48	Development of an accurate and reliable hourly flood forecasting model using wavelet-“bootstrap”ANN (WBANN) hybrid approach. <i>Journal of Hydrology</i> , 2010, 394, 458-470.	2.3	239
49	Flood Forecasting Using ANN, Neuro-Fuzzy, and Neuro-GA Models. <i>Journal of Hydrologic Engineering - ASCE</i> , 2009, 14, 647-652.	0.8	166
50	Hydrodynamic modelling of a large flood-prone river system in India with limited data. <i>Hydrological Processes</i> , 2009, 23, 2774-2791.	1.1	76
51	Flood inundation modeling using MIKE FLOOD and remote sensing data. <i>Journal of the Indian Society of Remote Sensing</i> , 2009, 37, 107-118.	1.2	143
52	Hydrodynamic simulation of the operational management of a proposed flood emergency storage area at the Middle Elbe River. <i>River Research and Applications</i> , 2008, 24, 900-913.	0.7	27
53	Comparison of hydrodynamic models of different complexities to model floods with emergency storage areas. <i>Hydrological Processes</i> , 2008, 22, 4695-4709.	1.1	67
54	Runoff estimation for an ungauged catchment using geomorphological instantaneous unit hydrograph (GIUH) models. <i>Hydrological Processes</i> , 2007, 21, 1829-1840.	1.1	75

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55	Closure to "Regional Flood Frequency Analysis Using L-Moments for North Brahmaputra Region of India" by Rakesh Kumar and Chandranath Chatterjee. Journal of Hydrologic Engineering - ASCE, 2006, 11, 380-382.	0.8	6
56	Flood Estimation by GIUH-Based Clark and Nash Models. Journal of Hydrologic Engineering - ASCE, 2006, 11, 515-525.	0.8	53
57	Integrating Remote Sensing and GIS Techniques with Groundwater Flow Modeling for Assessment of Waterlogged Areas. Water Resources Management, 2005, 19, 539-554.	1.9	16
58	Regional Flood Frequency Analysis Using L-Moments for North Brahmaputra Region of India. Journal of Hydrologic Engineering - ASCE, 2005, 10, 1-7.	0.8	88
59	Development of a Management Model for a Surface Waterlogged and Drainage Congested Area. Water Resources Management, 2004, 18, 497-518.	1.9	8
60	GIUH based Clark and Nash models for runoff estimation for an ungauged basin and their uncertainty analysis. International Journal of River Basin Management, 2004, 2, 281-290.	1.5	18
61	Title is missing!. Water Resources Management, 2003, 17, 243-257.	1.9	79
62	Erosion study of a part of Majuli River-Island using remote sensing data. Journal of the Indian Society of Remote Sensing, 2003, 31, 12-18.	1.2	29
63	Delineation of surface waterlogged areas in parts of Bihar using IRS-1C LISS-III data. Journal of the Indian Society of Remote Sensing, 2003, 31, 57-65.	1.2	14
64	Regional Flood Frequency Analysis Using L-moments for Sone Subzone-1 (d) of India. , 2003, , 1.		0
65	ESTIMATION OF SCS CURVE NUMBERS FOR A BASIN USING RAINFALL-RUNOFF DATA. ISH Journal of Hydraulic Engineering, 2002, 8, 40-49.	1.1	2
66	Discharge Characteristics of Chimney Weir under Free-Flow Conditions. Journal of Irrigation and Drainage Engineering - ASCE, 2002, 128, 175-179.	0.6	1
67	Sensitivity Analysis of the GIUH based Clark Model for a Catchment. Water Resources Management, 2002, 16, 263-278.	1.9	39
68	Flow Characteristics of Chimney Weir under Submergence. Journal of Irrigation and Drainage Engineering - ASCE, 1998, 124, 96-101.	0.6	4
69	Improved Cartosat-1 Based DEM for Flood Inundation Modeling in the Delta Region of Mahanadi River Basin, India. Journal of the Indian Society of Remote Sensing, 0, , 1.	1.2	3