

# Bhabagrahi Sahoo

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

1,346  
citations

304368

22  
h-index

360668

35  
g-index

60  
all docs

60  
docs citations

60  
times ranked

1146  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Low-Impact Development Scenarios on Pluvial Flood Susceptibility in a Scantily Gauged Urbanâ€“Peri-Urban Catchment. <i>Journal of Hydrologic Engineering - ASCE</i> , 2022, 27, .	0.8	5
2	Understanding the impacts of predecessor rain events on flood hazard in a changing climate. <i>Hydrological Processes</i> , 2022, 36, .	1.1	12
3	How reliable are the evapotranspiration estimates by Soil and Water Assessment Tool (SWAT) and Variable Infiltration Capacity (VIC) models for catchment-scale drought assessment and irrigation planning?. <i>Journal of Hydrology</i> , 2021, 592, 125838.	2.3	45
4	Evaluation of Spatio-Temporal Evapotranspiration Using Satellite-Based Approach and Lysimeter in the Agriculture Dominated Catchment. <i>Journal of the Indian Society of Remote Sensing</i> , 2021, 49, 1939-1950.	1.2	13
5	Climate-changed versus land-use altered streamflow: A relative contribution assessment using three complementary approaches at a decadal time-spell. <i>Journal of Hydrology</i> , 2021, 596, 126064.	2.3	18
6	Identification of Suitable Hydrological Models for Streamflow Assessment in the Kangsabati River Basin, India, by Using Different Model Selection Scores. <i>Natural Resources Research</i> , 2021, 30, 4187-4205.	2.2	41
7	A simplified modelling framework for real-time assessment of conservative pollutants in ungauged rivers during cloudy periods. <i>Journal of Environmental Management</i> , 2021, 293, 112821.	3.8	6
8	A multilinear discrete Nash-cascade model for stage-hydrograph routing in compound river channels. <i>Hydrological Sciences Journal</i> , 2020, 65, 335-347.	1.2	11
9	Is hillslope-based catchment decomposition approach superior to hydrologic response unit (HRU) for stream-aquifer interaction modelling: Inference from two process-based coupled models. <i>Journal of Hydrology</i> , 2020, 591, 125588.	2.3	11
10	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. <i>Journal of Hydrology</i> , 2020, 590, 125448.	2.3	16
11	Copula-based probabilistic spectral algorithms for high-frequent streamflow estimation. <i>Remote Sensing of Environment</i> , 2020, 251, 112092.	4.6	24
12	Evaluation of Simplified Surface Energy Balance Index (S-SEBI) Method for Estimating Actual Evapotranspiration in Kangsabati Reservoir Command Using Landsat 8 Imagery. <i>Journal of the Indian Society of Remote Sensing</i> , 2020, 48, 1421-1432.	1.2	19
13	A novel embedded pothole module for Soil and Water Assessment Tool (SWAT) improving streamflow estimation in paddy-dominated catchments. <i>Journal of Hydrology</i> , 2020, 588, 125103.	2.3	29
14	Evaluation of Nexus-Sustainability and Conventional Approaches for Optimal Water-Energy-Land-Crop Planning in an Irrigated Canal Command. <i>Water Resources Management</i> , 2020, 34, 2329-2351.	1.9	9
15	Water scarcity-risk assessment in data-scarce river basins under decadal climate change using a hydrological modelling approach. <i>Journal of Hydrology</i> , 2020, 590, 125260.	2.3	44
16	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
17	A geomorphologyâ€“based integrated streamâ€“aquifer interaction model for semiâ€“gauged catchments. <i>Hydrological Processes</i> , 2019, 33, 1362-1377.	1.1	12
18	A SWAT-Copula based approach for monitoring and assessment of drought propagation in an irrigation command. <i>Ecological Engineering</i> , 2019, 127, 417-430.	1.6	54

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19	Modelling the variability of hillslope drainage using grid-based hillslope width function estimation algorithm. ISH Journal of Hydraulic Engineering, 2019, 25, 71-78.	1.1	9
20	Impact of LULC change on the runoff, base flow and evapotranspiration dynamics in eastern Indian river basins during 1985â€“2005 using variable infiltration capacity approach. Journal of Earth System Science, 2018, 127, 1.	0.6	67
21	Hillslope-storage Boussinesq model for simulating subsurface water storage dynamics in scantily-gauged catchments. Advances in Water Resources, 2018, 121, 219-234.	1.7	16
22	An embedded VPMM-AD model for riverine transient flow and non-reactive contaminant transports. Journal of Hydrology, 2018, 563, 711-725.	2.3	7
23	Modelling the dynamics of evapotranspiration using Variable Infiltration Capacity model and regionally calibrated Hargreaves approach. Irrigation Science, 2018, 36, 289-300.	1.3	35
24	Mapping of heavy metal pollution in river water at daily time-scale using spatio-temporal fusion of MODIS-aqua and Landsat satellite imageries. Journal of Environmental Management, 2017, 192, 1-14.	3.8	46
25	Modeling the water and nitrogen transports in a soilâ€“paddyâ€“atmosphere system using HYDRUS-1D and lysimeter experiment. Paddy and Water Environment, 2017, 15, 831-846.	1.0	31
26	Effect of Evapotranspiration on the Discharge Estimation in Baitarani Watershed, India, in the Context of Climate Change. , 2017, , .		4
27	Evaluation of Variable-Infiltration Capacity Model and MODIS-Terra Satellite-Derived Grid-Scale Evapotranspiration Estimates in a River Basin with Tropical Monsoon-Type Climatology. Journal of Irrigation and Drainage Engineering - ASCE, 2017, 143, .	0.6	105
28	Enhancing the applicability of Kohonen Self-Organizing Map (KSOM) estimator for gap-filling in hydrometeorological timeseries data. Journal of Hydrology, 2017, 549, 133-147.	2.3	16
29	Improving river water quality monitoring using satellite data products and a genetic algorithm processing approach. Sustainability of Water Quality and Ecology, 2017, 9-10, 88-114.	2.0	19
30	Modeling the River-Aquifer Flow-Interaction Using a Coupled hsB-VPMM Approach. , 2017, , .		0
31	A wavelet-based non-linear autoregressive with exogenous inputs (WNARX) dynamic neural network model for real-time flood forecasting using satellite-based rainfall products. Journal of Hydrology, 2016, 539, 57-73.	2.3	86
32	Variable parameter McCarthyâ€“Muskingum flow transport model for compound channels accounting for distributed non-uniform lateral flow. Journal of Hydrology, 2015, 530, 698-715.	2.3	23
33	Estimating Floods from an Ungauged River Basin Using GIUH-Based Nash Model. , 2015, , 123-133.		3
34	Rating Curve Development at Ungauged River Sites using Variable Parameter Muskingum Discharge Routing Method. Water Resources Management, 2014, 28, 3783-3800.	1.9	19
35	Field Application of the Multilinear Muskingum Discharge Routing Method. Water Resources Management, 2013, 27, 1193-1205.	1.9	17
36	Erratum for â€œStandardization of Reference Evapotranspiration Models for a Subhumid Valley Rangeland in the Eastern Himalayasâ€“by Bhabagrahi Sahoo, Imtisenla Walling, Bidyut C. Deka, and Bhagwati P. Bhatt. Journal of Irrigation and Drainage Engineering - ASCE, 2013, 139, 432-432.	0.6	2

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37	Closure to “Standardization of Reference Evapotranspiration Models for a Subhumid Valley Rangeland in the Eastern Himalayas” by Bhabagrahi Sahoo, Imtisenla Walling, Bidyut C. Deka, and Bhagwati P. Bhatt. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2013, 139, 795-796.	0.6	4
38	Standardization of Reference Evapotranspiration Models for a Subhumid Valley Rangeland in the Eastern Himalayas. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2012, 138, 880-895.	0.6	34
39	Comparison of Variable Parameter Muskingum-Cunge and Variable Parameter McCarthy-Muskingum Routing Methods. , 2012, , .		2
40	Hydrological Applications of the Approximate Convection-Diffusion Equations. , 2011, , .		0
41	Green-Ampt Infiltration Models for Varied Field Conditions: A Revisit. <i>Water Resources Management</i> , 2011, 25, 3505-3536.	1.9	67
42	Real-time flood stage forecasting by Variable Parameter Muskingum Stage hydrograph routing method. <i>Hydrology Research</i> , 2011, 42, 150-161.	1.1	11
43	Real-Time Flood Forecasting by a Hydrometric Data-Based Technique. , 2010, , 169-196.		1
44	On the practical applicability of the VPMS routing method for rating curve development at ungauged river sites. <i>Water Resources Research</i> , 2010, 46, .	1.7	36
45	Multilinear Muskingum Method for Stage-Hydrograph Routing in Compound Channels. <i>Journal of Hydrologic Engineering - ASCE</i> , 2009, 14, 663-670.	0.8	16
46	Volume Conservation Controversy of the Variable Parameter Muskingum “Cunge Method. <i>Journal of Hydraulic Engineering</i> , 2008, 134, 475-485.	0.7	32
47	A methodology for discharge estimation and rating curve development at ungauged river sites. <i>Water Resources Research</i> , 2007, 43, .	1.7	69
48	Applicability criteria of the variable parameter Muskingum stage and discharge routing methods. <i>Water Resources Research</i> , 2007, 43, .	1.7	25
49	Limitations of real-time models for forecasting river flooding from monsoon rainfall. <i>Natural Hazards</i> , 2007, 42, 415-422.	1.6	6
50	Fuzzy Multiobjective and Linear Programming Based Management Models for Optimal Land-Water-Crop System Planning. <i>Water Resources Management</i> , 2006, 20, 931-948.	1.9	81
51	Flood Estimation by GIUH-Based Clark and Nash Models. <i>Journal of Hydrologic Engineering - ASCE</i> , 2006, 11, 515-525.	0.8	53