Bhabagrahi Sahoo

List of Publications by Year
in descending order

51	1,346	304743	361022
papers	citations	22 h-index	35 g-index

60	60	60	1146
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of Low-Impact Development Scenarios on Pluvial Flood Susceptibility in a Scantily Gauged Urbanâ€“Peri-Urban Catchment. Journal of Hydrologic Engineering - ASCE, 2022, 27, .	1.9	5
2	Understanding the impacts of predecessor rain events on flood hazard in a changing climate. Hydrological Processes, 2022, 36, .	2.6	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?. Journal of Hydrology, 2021, 592, 125838.	5.4	45
4	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.	2.4	13
5	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.	5.4	18
6	Identification of Suitable Hydrological Models for Streamflow Assessment in the Kangsabati River Basin, India, by Using Different Model Selection Scores. Natural Resources Research, 2021, 30, 4187-4205.	4.7	41
7	A simplified modelling framework for real-time assessment of conservative pollutants in ungauged rivers during cloudy periods. Journal of Environmental Management, 2021, 293, 112821.	7.8	6
8	A multilinear discrete Nash-cascade model for stage-hydrograph routing in compound river channels. Hydrological Sciences Journal, 2020, 65, 335-347.	2.6	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. Journal of Hydrology, 2020, 591, 125588.	5.4	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. Journal of Hydrology, 2020, 590, 125448.	5.4	16
11	Copula-based probabilistic spectral algorithms for high-frequent streamflow estimation. Remote Sensing of Environment, 2020, 251, 112092.	11.0	24
12	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.	2.4	19
13	A novel embedded pothole module for Soil and Water Assessment Tool (SWAT) improving streamflow estimation in paddy-dominated catchments. Journal of Hydrology, 2020, 588, 125103.	5.4	29
14	Evaluation of Nexus-Sustainability and Conventional Approaches for Optimal Water-Energy-Land-Crop Planning in an Irrigated Canal Command. Water Resources Management, 2020, 34, 2329-2351.	3.9	9
15	Water scarcity-risk assessment in data-scarce river basins under decadal climate change using a hydrological modelling approach. Journal of Hydrology, 2020, 590, 125260.	5.4	44
16	Enhancing real-time streamflow forecasts with wavelet-neural network based error-updating schemes and ECMWF meteorological predictions in Variable Infiltration Capacity model. Journal of Hydrology, 2019, 575, 890-910.	5.4	32
17	A geomorphologyâ€based integrated streamâ€“aquifer interaction model for semiâ€gauged catchments. Hydrological Processes, 2019, 33, 1362-1377.	2.6	12
18	A SWAT-Copula based approach for monitoring and assessment of drought propagation in an irrigation command. Ecological Engineering, 2019, 127, 417-430.	3.6	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.	2.1	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.	1.3	67
21	Hillslope-storage Boussinesq model for simulating subsurface water storage dynamics in scantily-gauged catchments. Advances in Water Resources, 2018, 121, 219-234.	3.8	16
22	An embedded VPMM-AD model for riverine transient flow and non-reactive contaminant transports. Journal of Hydrology, 2018, 563, 711-725.	5.4	7
23	Modelling the dynamics of evapotranspiration using Variable Infiltration Capacity model and regionally calibrated Hargreaves approach. Irrigation Science, 2018, 36, 289-300.	2.8	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.	7.8	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.	1.8	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, .	1.0	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.	5.4	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.	5.4	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.	5.4	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.	3.9	19
35	Field Application of the Multilinear Muskingum Discharge Routing Method. Water Resources Management, 2013, 27, 1193-1205.	3.9	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.	1.0	2

#	Article	IF	Citations
37	Closure to 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, 795-796.	1.0	4
38	Standardization of Reference Evapotranspiration Models for a Subhumid Valley Rangeland in the Eastern Himalayas. Journal of Irrigation and Drainage Engineering - ASCE, 2012, 138, 880-895.	1.0	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. Water Resources Management, 2011, 25, 3505-3536.	3.9	67
42	Real-time flood stage forecasting by Variable Parameter Muskingum Stage hydrograph routing method. Hydrology Research, 2011, 42, 150-161.	2.7	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. Water Resources Research, 2010, 46, .	4.2	36
45	Multilinear Muskingum Method for Stage-Hydrograph Routing in Compound Channels. Journal of Hydrologic Engineering - ASCE, 2009, 14, 663-670.	1.9	16
46	Volume Conservation Controversy of the Variable Parameter Muskingumâ€“Cunge Method. Journal of Hydraulic Engineering, 2008, 134, 475-485.	1.5	32
47	A methodology for discharge estimation and rating curve development at ungauged river sites. Water Resources Research, 2007, 43, .	4.2	69
48	Applicability criteria of the variable parameter Muskingum stage and discharge routing methods. Water Resources Research, 2007, 43, .	4.2	25
49	Limitations of real-time models for forecasting river flooding from monsoon rainfall. Natural Hazards, 2007, 42, 415-422.	3.4	6
50	Fuzzy Multiobjective and Linear Programming Based Management Models for Optimal Land-Water-Crop System Planning. Water Resources Management, 2006, 20, 931-948.	3.9	81
51	Flood Estimation by GIUH-Based Clark and Nash Models. Journal of Hydrologic Engineering - ASCE, 2006, 11, 515-525.	1.9	53