Rajib Kumar Bhattacharjya

List of Publications by Year
in descending order

52 papers	740 citations	687220 13 h-index	552653 26 g-index
52 all docs	52 docs citations	52 times ranked	496 citing authors

#	Article	IF	Citations
1	Optimal Management of Coastal Aquifers Using Linked Simulation Optimization Approach. Water Resources Management, 2005, 19, 295-320.	1.9	125
2	ANN-GA-Based Model for Multiple Objective Management of Coastal Aquifers. Journal of Water Resources Planning and Management - ASCE, 2009, 135, 314-322.	1.3	73
3	Optimal Design of Composite Channels Using Genetic Algorithm. Journal of Irrigation and Drainage Engineering - ASCE, 2004, 130, 286-295.	0.6	71
4	Artificial Neural Networks Approximation of Density Dependent Saltwater Intrusion Process in Coastal Aquifers. Journal of Hydrologic Engineering - ASCE, 2007, 12, 273-282.	0.8	44
5	Optimal Design of a Stable Trapezoidal Channel Section Using Hybrid Optimization Techniques. Journal of Irrigation and Drainage Engineering - ASCE, 2007, 133, 323-329.	0.6	35
6	Optimal Design of Open Channel Section Incorporating Critical Flow Condition. Journal of Irrigation and Drainage Engineering - ASCE, 2006, 132, 513-518.	0.6	30
7	Innovative trend analysis of spatial and temporal rainfall variations in Umiam and Umtru watersheds in Meghalaya, India. Theoretical and Applied Climatology, 2020, 142, 1397-1412.	1.3	23
8	Modified genetic algorithms for solving facility layout problems. International Journal on Interactive Design and Manufacturing, 2017, 11, 713-725.	1.3	22
9	Change in snow cover area of Brahmaputra river basin and its sensitivity to temperature. Environmental Systems Research, 2015, 4, .	1.5	21
10	Determination of an optimal unit pulse response function using real-coded genetic algorithm. Journal of Hydrology, 2005, 303, 199-214.	2.3	19
11	Optimal design of unit hydrographs using probability distribution and genetic algorithms. Sadhana - Academy Proceedings in Engineering Sciences, 2004, 29, 499-508.	0.8	18
12	Solving Groundwater Flow Inverse Problem Using Spreadsheet Solver. Journal of Hydrologic Engineering - ASCE, 2011, 16, 472-477.	0.8	18
13	Study of Integrated Social Vulnerability Index SoVIint of Hilly Region of Uttarakhand, India. Environmental and Climate Technologies, 2020, 24, 105-122.	0.5	18
14	Evaluating two GIS-based semi-distributed hydrological models in the Bhagirathi-Alkhnanda River catchment in India. Water Policy, 2020, 22, 991-1014.	0.7	14
15	Groundwater Circulation Well for Controlling Saltwater Intrusion in Coastal aquifers: Numerical study with Experimental Validation. Water Resources Management, 2020, 34, 3551-3563.	1.9	14
16	Monitoring of River Center Line and Width—A Study on River Brahmaputra. Journal of the Indian Society of Remote Sensing, 2014, 42, 475-482.	1.2	13
17	Development of an Improved Pollution Source Identification Model Using Numerical and ANN Based Simulation-Optimization Model. Water Resources Management, 2016, 30, 5163-5176.	1.9	13
18	Evaluation of Optimal River Training Work Using GA Based Linked Simulation-Optimization Approach. Water Resources Management, 2014, 28, 2077-2092.	1.9	12

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19	Development of Unknown Pollution Source Identification Models Using GMS ANN–Based Simulation Optimization Methodology. Journal of Hazardous, Toxic, and Radioactive Waste, 2015, 19, 04014034.	1.2	12
20	Performance of an Artificial Neural Network model for simulating saltwater intrusion process in coastal aquifers when training with noisy data. KSCE Journal of Civil Engineering, 2009, 13, 205-215.	0.9	10
21	Geomorphology-based Time-Lagged Recurrent Neural Networks for runoff forecasting. KSCE Journal of Civil Engineering, 2012, 16, 862-869.	0.9	10
22	New Hybrid Optimization Methodology to Identify Pollution Sources Considering the Source Locations and Source Flux as Unknown. Journal of Hazardous, Toxic, and Radioactive Waste, 2019, 23, 04018037.	1.2	10
23	Assessing the Impacts of Interbasin Water Transfer Reservoir on Streamflow. Journal of Hydrologic Engineering - ASCE, 2020, 25, .	0.8	10
24	Identification of Unknown Groundwater Pollution Sources and Determination of Optimal Well Locations Using ANN-GA Based Simulation-Optimization Model. Journal of Water Resource and Protection, 2016, 08, 411-424.	0.3	10
25	Flooding Probability-Based Optimal Design of Trapezoidal Open Channel Using Freeboard as a Design Variable. Journal of Irrigation and Drainage Engineering - ASCE, 2008, 134, 405-408.	0.6	9
26	Estimation of Integrated Flood Vulnerability Index for the Hilly Region of Uttarakhand, India. Journal of Hazardous, Toxic, and Radioactive Waste, 2020, 24, .	1.2	9
27	GRNN Model for prediction of groundwater fluctuation in the state of Uttarakhand of India using GRACE data under limited bore well data. Journal of Hydroinformatics, 2021, 23, 567-588.	1.1	9
28	Sediment analysis and modelling based approach for optimal allocation of riverine sandbar for socio economic benefits. Ecological Engineering, 2021, 173, 106415.	1.6	8
29	Geomorphology Based Semi-Distributed Approach for Modelling Rainfall-Runoff Process. Water Resources Management, 2013, 27, 567-579.	1.9	7
30	Firefly Algorithm and Its Applications in Engineering Optimization. Modeling and Optimization in Science and Technologies, 2020, , 93-103.	0.7	7
31	Solution of source identification problem by using GMS and MATLAB. ISH Journal of Hydraulic Engineering, 2013, 19, 297-304.	1.1	6
32	Simulation–Optimization-Based Virus Source Identification Model for 3D Unconfined Aquifer Considering Source Locations and Number as Variable. Journal of Hazardous, Toxic, and Radioactive Waste, 2017, 21, 04016019.	1.2	6
33	ANN-SCS-based hybrid model in conjunction with GCM to evaluate the impact of climate change on the flow scenario of the River Subansiri. Journal of Water and Climate Change, 2020, 11, 1150-1164.	1.2	6
34	A statistical bias correction technique for global climate model predicted near-surface temperature in India using the generalized regression neural network. Journal of Water and Climate Change, 2022, 13, 854-871.	1.2	6
35	Mapping agricultural activities and their temporal variations in the riverine ecosystem of the Brahmaputra River using geospatial techniques. Remote Sensing Applications: Society and Environment, 2020, 20, 100423.	0.8	5
36	Discussion of "Flooding Probability Constrained Optimal Design of Trapezoidal Channels" by Amlan Das. Journal of Irrigation and Drainage Engineering - ASCE, 2009, 135, 129-131.	0.6	3

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37	Behaviour of contaminant transport in unconfined coastal aquifer: An experimental evaluation. Journal of Earth System Science, 2020, 129, 1.	0.6	3
38	A GA Based Iterative Model for Identification of Unknown Groundwater Pollution Sources Considering Noisy Data. Modeling and Optimization in Science and Technologies, 2020, , 303-321.	0.7	3
39	Efficiency of Binary Coded Genetic Algorithm in Stability Analysis of an Earthen Slope. Modeling and Optimization in Science and Technologies, 2020, , 323-334.	0.7	3
40	OPTIMAL DESIGN OF OPEN CHANNEL SECTION CONSIDERING FREEBOARD. ISH Journal of Hydraulic Engineering, 2005, 11, 141-151.	1.1	1
41	Discussion of â€œAlternate Decision Making in Water Distribution Network with NSGA-IIâ€•by Md. Atiquzzaman, Shie-Yui Liong, and Xinying Yu. Journal of Water Resources Planning and Management - ASCE, 2007, 133, 565-566.	1.3	1
42	Discussion of â€œEvolutionary Algorithms for the Determination of Critical Depths in Conduitsâ€•by A. Kanani, M. Bakhtiari, S. M. Borghei, and D.-S. Jeng. Journal of Irrigation and Drainage Engineering - ASCE, 2010, 136, 221-223.	0.6	1
43	Hybrid-Optimization Approach for Estimating Parameters of a Virus Transport Process in Aquifer. Journal of Hazardous, Toxic, and Radioactive Waste, 2015, 19, 04014025.	1.2	1
44	A Modified Penalty Parameter Approach for Optimal Estimation of UH with Simultaneous Estimation of Infiltration Parameters. Journal of the Institution of Engineers (India): Series A, 2018, 99, 609-615.	0.6	1
45	Discussion of â€œOptimal Pumping from Skimming Wellsâ€•by S. V. Rao, Sudhir Kumar, Shashank Shekhar, and D. Chakraborty. Journal of Hydrologic Engineering - ASCE, 2007, 12, 706-707.	0.8	0
46	Discussion of â€œInvertible Alternatives to Normal and Lognormal Distributionsâ€•by Prabhata K. Swamee and Pushpa N. Rathie. Journal of Hydrologic Engineering - ASCE, 2008, 13, 197-197.	0.8	0
47	Optimal design of waterâ€conveying canal considering seismic stability of side slopes. Irrigation and Drainage, 2010, 59, 291-302.	0.8	0
48	Coastal Aquifer Management Models: A Comprehensive Review on Model Development. Water Science and Technology Library, 2016, , 95-106.	0.2	0
49	Environmental Impact Assessment & Management: Need of the Hour. SSRN Electronic Journal, 0, , .	0.4	0
50	Determination of illegal pumping and monitoring network using genetic algorithm based simulation optimization model. , 2015, , .		0
51	Stability Analysis of Earthen Embankment of Kollong River, Near Raha, Nagaon, Assam. Water Science and Technology Library, 2018, , 255-263.	0.2	0
52	Linked Simulation Optimization Model for Evaluation of Optimal Bank Protection Measures. Modeling and Optimization in Science and Technologies, 2020, , 283-302.	0.7	0