

# Rajib Kumar Bhattacharjya

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

49  
papers

558  
citations

11  
h-index

22  
g-index

52  
ext. papers

643  
ext. citations

2  
avg, IF

4.4  
L-index

#	Paper	IF	Citations
49	GRNN Model for prediction of groundwater fluctuation in the state of Uttarakhand of India using GRACE data under limited bore well data. <i>Journal of Hydroinformatics</i> , <b>2021</b> , 23, 567-588	2.6	2
48	Sediment analysis and modelling based approach for optimal allocation of riverine sandbar for socio economic benefits. <i>Ecological Engineering</i> , <b>2021</b> , 173, 106415	3.9	0
47	Behaviour of contaminant transport in unconfined coastal aquifer: An experimental evaluation. <i>Journal of Earth System Science</i> , <b>2020</b> , 129, 1	1.8	
46	Linked Simulation Optimization Model for Evaluation of Optimal Bank Protection Measures. <i>Modeling and Optimization in Science and Technologies</i> , <b>2020</b> , 283-302	0.6	
45	Study of Integrated Social Vulnerability Index SoVInt of Hilly Region of Uttarakhand, India. <i>Environmental and Climate Technologies</i> , <b>2020</b> , 24, 105-122	1.5	5
44	A GA Based Iterative Model for Identification of Unknown Groundwater Pollution Sources Considering Noisy Data. <i>Modeling and Optimization in Science and Technologies</i> , <b>2020</b> , 303-321	0.6	2
43	Efficiency of Binary Coded Genetic Algorithm in Stability Analysis of an Earthen Slope. <i>Modeling and Optimization in Science and Technologies</i> , <b>2020</b> , 323-334	0.6	3
42	Firefly Algorithm and Its Applications in Engineering Optimization. <i>Modeling and Optimization in Science and Technologies</i> , <b>2020</b> , 93-103	0.6	2
41	Mapping agricultural activities and their temporal variations in the riverine ecosystem of the Brahmaputra River using geospatial techniques. <i>Remote Sensing Applications: Society and Environment</i> , <b>2020</b> , 20, 100423	2.8	1
40	Evaluating two GIS-based semi-distributed hydrological models in the Bhagirathi-Alkhnanda River catchment in India. <i>Water Policy</i> , <b>2020</b> , 22, 991-1014	1.6	4
39	Estimation of Integrated Flood Vulnerability Index for the Hilly Region of Uttarakhand, India. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , <b>2020</b> , 24, 04020051	2.3	3
38	Groundwater Circulation Well for Controlling Saltwater Intrusion in Coastal aquifers: Numerical study with Experimental Validation. <i>Water Resources Management</i> , <b>2020</b> , 34, 3551-3563	3.7	8
37	Assessing the Impacts of Interbasin Water Transfer Reservoir on Streamflow. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2020</b> , 25, 05020034	1.8	4
36	Innovative trend analysis of spatial and temporal rainfall variations in Umiam and Umtru watersheds in Meghalaya, India. <i>Theoretical and Applied Climatology</i> , <b>2020</b> , 142, 1397-1412	3	8
35	ANN-SCS-based hybrid model in conjunction with GCM to evaluate the impact of climate change on the flow scenario of the River Subansiri. <i>Journal of Water and Climate Change</i> , <b>2020</b> , 11, 1150-1164	2.3	3
34	New Hybrid Optimization Methodology to Identify Pollution Sources Considering the Source Locations and Source Flux as Unknown. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , <b>2019</b> , 23, 04018037	2.3	8
33	Stability Analysis of Earthen Embankment of Kollong River, Near Raha, Nagaon, Assam. <i>Water Science and Technology Library</i> , <b>2018</b> , 255-263	0.3	

32	A Modified Penalty Parameter Approach for Optimal Estimation of UH with Simultaneous Estimation of Infiltration Parameters. <i>Journal of the Institution of Engineers (India): Series A</i> , <b>2018</b> , 99, 609-615	1	1
31	Modified genetic algorithms for solving facility layout problems. <i>International Journal on Interactive Design and Manufacturing</i> , <b>2017</b> , 11, 713-725	1.9	19
30	Simulation-Optimization-Based Virus Source Identification Model for 3D Unconfined Aquifer Considering Source Locations and Number as Variable. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , <b>2017</b> , 21, 04016019	2.3	6
29	Coastal Aquifer Management Models: A Comprehensive Review on Model Development. <i>Water Science and Technology Library</i> , <b>2016</b> , 95-106	0.3	
28	Identification of Unknown Groundwater Pollution Sources and Determination of Optimal Well Locations Using ANN-GA Based Simulation-Optimization Model. <i>Journal of Water Resource and Protection</i> , <b>2016</b> , 08, 411-424	0.7	6
27	Development of an Improved Pollution Source Identification Model Using Numerical and ANN Based Simulation-Optimization Model. <i>Water Resources Management</i> , <b>2016</b> , 30, 5163-5176	3.7	9
26	Development of Unknown Pollution Source Identification Models Using GMS ANNBased Simulation Optimization Methodology. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , <b>2015</b> , 19, 04014034	2.3	11
25	Change in snow cover area of Brahmaputra river basin and its sensitivity to temperature. <i>Environmental Systems Research</i> , <b>2015</b> , 4,	4.3	15
24	Hybrid-Optimization Approach for Estimating Parameters of a Virus Transport Process in Aquifer. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , <b>2015</b> , 19, 04014025	2.3	1
23	Evaluation of Optimal River Training Work Using GA Based Linked Simulation-Optimization Approach. <i>Water Resources Management</i> , <b>2014</b> , 28, 2077-2092	3.7	9
22	Monitoring of River Center Line and WidthA Study on River Brahmaputra <b>2014</b> , 42, 475-482		6
21	Solution of source identification problem by using GMS and MATLAB. <i>ISH Journal of Hydraulic Engineering</i> , <b>2013</b> , 19, 297-304	1.5	5
20	Geomorphology Based Semi-Distributed Approach for Modelling Rainfall-Runoff Process. <i>Water Resources Management</i> , <b>2013</b> , 27, 567-579	3.7	6
19	Geomorphology-based Time-Lagged Recurrent Neural Networks for runoff forecasting. <i>KSCE Journal of Civil Engineering</i> , <b>2012</b> , 16, 862-869	1.9	7
18	Solving Groundwater Flow Inverse Problem Using Spreadsheet Solver. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2011</b> , 16, 472-477	1.8	14
17	Discussion of Evolutionary Algorithms for the Determination of Critical Depths in ConduitsBy A. Kanani, M. Bakhtiari, S. M. Borghei, and D.-S. Jeng. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , <b>2010</b> , 136, 221-223	1.1	1
16	ANN-GA-Based Model for Multiple Objective Management of Coastal Aquifers. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2009</b> , 135, 314-322	2.8	69
15	Discussion of Flooding Probability Constrained Optimal Design of Trapezoidal ChannelsBy Amlan Das. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , <b>2009</b> , 135, 129-131	1.1	2

14	Optimal design of water-conveying canal considering seismic stability of side slopes. <i>Irrigation and Drainage</i> , <b>2009</b> , 59, 291-302	1.1	
13	Performance of an Artificial Neural Network model for simulating saltwater intrusion process in coastal aquifers when training with noisy data. <i>KSCE Journal of Civil Engineering</i> , <b>2009</b> , 13, 205-215	1.9	10
12	Discussion of Invertible Alternatives to Normal and Lognormal Distributions by Prabhata K. Swamee and Pushpa N. Rathie. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2008</b> , 13, 197-197	1.8	
11	Flooding Probability-Based Optimal Design of Trapezoidal Open Channel Using Freeboard as a Design Variable. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , <b>2008</b> , 134, 405-408	1.1	7
10	Artificial Neural Networks Approximation of Density Dependent Saltwater Intrusion Process in Coastal Aquifers. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2007</b> , 12, 273-282	1.8	37
9	Discussion of Alternate Decision Making in Water Distribution Network with NSGA-II by Md. Atiquzzaman, Shie-Yui Liong, and Xinying Yu. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2007</b> , 133, 565-566	2.8	1
8	Discussion of Optimal Pumping from Skimming Wells by S. V. Rao, Sudhir Kumar, Shashank Shekhar, and D. Chakraborty. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2007</b> , 12, 706-707	1.8	
7	Optimal Design of a Stable Trapezoidal Channel Section Using Hybrid Optimization Techniques. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , <b>2007</b> , 133, 323-329	1.1	31
6	Optimal Design of Open Channel Section Incorporating Critical Flow Condition. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , <b>2006</b> , 132, 513-518	1.1	27
5	Determination of an optimal unit pulse response function using real-coded genetic algorithm. <i>Journal of Hydrology</i> , <b>2005</b> , 303, 199-214	6	16
4	Optimal Management of Coastal Aquifers Using Linked Simulation Optimization Approach. <i>Water Resources Management</i> , <b>2005</b> , 19, 295-320	3.7	113
3	OPTIMAL DESIGN OF OPEN CHANNEL SECTION CONSIDERING FREEBOARD. <i>ISH Journal of Hydraulic Engineering</i> , <b>2005</b> , 11, 141-151	1.5	0
2	Optimal design of unit hydrographs using probability distribution and genetic algorithms. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , <b>2004</b> , 29, 499-508	1	14
1	Optimal Design of Composite Channels Using Genetic Algorithm. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , <b>2004</b> , 130, 286-295	1.1	62