

Rajib Kumar Bhattacharjya

List of Publications by Citations

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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	Optimal Management of Coastal Aquifers Using Linked Simulation Optimization Approach. <i>Water Resources Management</i> , 2005 , 19, 295-320	3.7	113
48	ANN-GA-Based Model for Multiple Objective Management of Coastal Aquifers. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2009 , 135, 314-322	2.8	69
47	Optimal Design of Composite Channels Using Genetic Algorithm. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2004 , 130, 286-295	1.1	62
46	Artificial Neural Networks Approximation of Density Dependent Saltwater Intrusion Process in Coastal Aquifers. <i>Journal of Hydrologic Engineering - ASCE</i> , 2007 , 12, 273-282	1.8	37
45	Optimal Design of a Stable Trapezoidal Channel Section Using Hybrid Optimization Techniques. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2007 , 133, 323-329	1.1	31
44	Optimal Design of Open Channel Section Incorporating Critical Flow Condition. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2006 , 132, 513-518	1.1	27
43	Modified genetic algorithms for solving facility layout problems. <i>International Journal on Interactive Design and Manufacturing</i> , 2017 , 11, 713-725	1.9	19
42	Determination of an optimal unit pulse response function using real-coded genetic algorithm. <i>Journal of Hydrology</i> , 2005 , 303, 199-214	6	16
41	Change in snow cover area of Brahmaputra river basin and its sensitivity to temperature. <i>Environmental Systems Research</i> , 2015 , 4,	4.3	15
40	Solving Groundwater Flow Inverse Problem Using Spreadsheet Solver. <i>Journal of Hydrologic Engineering - ASCE</i> , 2011 , 16, 472-477	1.8	14
39	Optimal design of unit hydrographs using probability distribution and genetic algorithms. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2004 , 29, 499-508	1	14
38	Development of Unknown Pollution Source Identification Models Using GMS ANNBased Simulation Optimization Methodology. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2015 , 19, 04014034	2.3	11
37	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> , 2009 , 13, 205-215	1.9	10
36	Evaluation of Optimal River Training Work Using GA Based Linked Simulation-Optimization Approach. <i>Water Resources Management</i> , 2014 , 28, 2077-2092	3.7	9
35	Development of an Improved Pollution Source Identification Model Using Numerical and ANN Based Simulation-Optimization Model. <i>Water Resources Management</i> , 2016 , 30, 5163-5176	3.7	9
34	Groundwater Circulation Well for Controlling Saltwater Intrusion in Coastal aquifers: Numerical study with Experimental Validation. <i>Water Resources Management</i> , 2020 , 34, 3551-3563	3.7	8
33	Innovative trend analysis of spatial and temporal rainfall variations in Umiam and Umtru watersheds in Meghalaya, India. <i>Theoretical and Applied Climatology</i> , 2020 , 142, 1397-1412	3	8

32	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> , 2019 , 23, 04018037	2.3	8
31	Geomorphology-based Time-Lagged Recurrent Neural Networks for runoff forecasting. <i>KSCE Journal of Civil Engineering</i> , 2012 , 16, 862-869	1.9	7
30	Flooding Probability-Based Optimal Design of Trapezoidal Open Channel Using Freeboard as a Design Variable. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2008 , 134, 405-408	1.1	7
29	Geomorphology Based Semi-Distributed Approach for Modelling Rainfall-Runoff Process. <i>Water Resources Management</i> , 2013 , 27, 567-579	3.7	6
28	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> , 2017 , 21, 04016019	2.3	6
27	Monitoring of River Center Line and Width A Study on River Brahmaputra 2014 , 42, 475-482		6
26	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> , 2016 , 08, 411-424	0.7	6
25	Solution of source identification problem by using GMS and MATLAB. <i>ISH Journal of Hydraulic Engineering</i> , 2013 , 19, 297-304	1.5	5
24	Study of Integrated Social Vulnerability Index SoVlint of Hilly Region of Uttarakhand, India. <i>Environmental and Climate Technologies</i> , 2020 , 24, 105-122	1.5	5
23	Evaluating two GIS-based semi-distributed hydrological models in the Bhagirathi-Alkhnanda River catchment in India. <i>Water Policy</i> , 2020 , 22, 991-1014	1.6	4
22	Assessing the Impacts of Interbasin Water Transfer Reservoir on Streamflow. <i>Journal of Hydrologic Engineering - ASCE</i> , 2020 , 25, 05020034	1.8	4
21	Efficiency of Binary Coded Genetic Algorithm in Stability Analysis of an Earthen Slope. <i>Modeling and Optimization in Science and Technologies</i> , 2020 , 323-334	0.6	3
20	Estimation of Integrated Flood Vulnerability Index for the Hilly Region of Uttarakhand, India. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2020 , 24, 04020051	2.3	3
19	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> , 2020 , 11, 1150-1164	2.3	3
18	Discussion of Flooding Probability Constrained Optimal Design of Trapezoidal Channels by Amlan Das. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2009 , 135, 129-131	1.1	2
17	A GA Based Iterative Model for Identification of Unknown Groundwater Pollution Sources Considering Noisy Data. <i>Modeling and Optimization in Science and Technologies</i> , 2020 , 303-321	0.6	2
16	Firefly Algorithm and Its Applications in Engineering Optimization. <i>Modeling and Optimization in Science and Technologies</i> , 2020 , 93-103	0.6	2
15	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> , 2021 , 23, 567-588	2.6	2

14	Hybrid-Optimization Approach for Estimating Parameters of a Virus Transport Process in Aquifer. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2015 , 19, 04014025	2.3	1
13	Discussion of Evolutionary Algorithms for the Determination of Critical Depths in Conduits by A. Kanani, M. Bakhtiari, S. M. Borghei, and D.-S. Jeng. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2010 , 136, 221-223	1.1	1
12	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> , 2007 , 133, 565-566	2.8	1
11	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> , 2020 , 20, 100423	2.8	1
10	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> , 2018 , 99, 609-615	1	1
9	OPTIMAL DESIGN OF OPEN CHANNEL SECTION CONSIDERING FREEBOARD. <i>ISH Journal of Hydraulic Engineering</i> , 2005 , 11, 141-151	1.5	0
8	Sediment analysis and modelling based approach for optimal allocation of riverine sandbar for socio economic benefits. <i>Ecological Engineering</i> , 2021 , 173, 106415	3.9	0
7	Behaviour of contaminant transport in unconfined coastal aquifer: An experimental evaluation. <i>Journal of Earth System Science</i> , 2020 , 129, 1	1.8	
6	Coastal Aquifer Management Models: A Comprehensive Review on Model Development. <i>Water Science and Technology Library</i> , 2016 , 95-106	0.3	
5	Optimal design of water-conveying canal considering seismic stability of side slopes. <i>Irrigation and Drainage</i> , 2009 , 59, 291-302	1.1	
4	Discussion of Invertible Alternatives to Normal and Lognormal Distributions by Prabhata K. Swamee and Pushpa N. Rathie. <i>Journal of Hydrologic Engineering - ASCE</i> , 2008 , 13, 197-197	1.8	
3	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> , 2007 , 12, 706-707	1.8	
2	Linked Simulation Optimization Model for Evaluation of Optimal Bank Protection Measures. <i>Modeling and Optimization in Science and Technologies</i> , 2020 , 283-302	0.6	
1	Stability Analysis of Earthen Embankment of Kollong River, Near Raha, Nagaon, Assam. <i>Water Science and Technology Library</i> , 2018 , 255-263	0.3	