Madan Kumar Jha

List of Publications by Year in descending order

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		87723	82410
121	5,724 citations	38	72
papers	citations	h-index	g-index
122	122	122	4202
122	122	122	4383
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Application of catastrophe theory to spatial analysis of groundwater potential in a sub-humid tropical region: a hybrid approach. Geocarto International, 2022, 37, 700-719.	1.7	7
2	Management of groundwater drought risk by reliability theory and copula model in Sina basin, India. Sustainable Water Resources Management, 2022, 8, 1.	1.0	2
3	Groundwater recharge over the past 100 years: Regional spatiotemporal assessment and climate change impact over the <scp>Saguenayâ€Lacâ€Saintâ€Jean</scp> region, Canada. Hydrological Processes, 2022, 36, .	1.1	9
4	Long-term trends and projections of hydrological fluxes under RCP climate change scenarios for a mountainous river catchment of northeast India. Journal of Water and Climate Change, 2022, 13, 1776-1789.	1,2	4
5	A Novel GIS-Based Modeling Approach for Evaluating Aquifer Susceptibility to Anthropogenic Contamination. Sustainability, 2022, 14, 4538.	1.6	7
6	Thank You to Our 2021 Reviewers. Water Resources Research, 2022, 58, .	1.7	0
7	Evaluation of water demand and supply under varying meteorological conditions in Eastern India and mitigation strategies for sustainable agricultural production. Environment, Development and Sustainability, 2021, 23, 1264-1291.	2.7	4
8	Planning rainwater conservation measures using geospatial and multi-criteria decision making tools. Environmental Science and Pollution Research, 2021, 28, 1734-1751.	2.7	9
9	Observed rainfall changes in the past century (1901–2019) over the wettest place on Earth. Environmental Research Letters, 2021, 16, 024018.	2.2	66
10	Assessing Multi-Criteria Decision Analysis Models for Predicting Groundwater Quality in a River Basin of South India. Sustainability, 2021, 13, 6719.	1.6	7
11	Investigating Groundwater Condition and Seawater Intrusion Status in Coastal Aquifer Systems of Eastern India. Water (Switzerland), 2021, 13, 1952.	1.2	11
12	Efficacy of machine learning techniques in predicting groundwater fluctuations in agro-ecological zones of India. Science of the Total Environment, 2021, 785, 147319.	3.9	34
13	Modeling Soil Moisture and Flow Dynamics of Variably Saturated Heterogeneous Lateritic Porous Media under Wheat Crop. Journal of Irrigation and Drainage Engineering - ASCE, 2021, 147, 04021049.	0.6	O
14	Assessment of precipitation trends and its implications in the semi-arid region of Southern India. Environmental Challenges, 2021, 5, 100269.	2.0	18
15	Probability-based approach for evaluating groundwater risk assessment in Sina basin, India. , 2020, , 289-304.		1
16	Identification of critical areas and evaluation of best management practices using SWAT for sustainable watershed management. Science of the Total Environment, 2020, 744, 140737.	3.9	57
17	Optimization modeling for conjunctive use planning in Upper Damodar River basin, India. Journal of Cleaner Production, 2020, 273, 123098.	4.6	9
18	Insight into the precipitation behavior of gridded precipitation data in the Sina basin. Environmental Monitoring and Assessment, 2020, 192, 729.	1.3	13

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19	Predicting groundwater depth fluctuations using deep learning, extreme learning machine and Gaussian process: a comparative study. Earth Science Informatics, 2020, 13, 1237-1250.	1.6	24
20	Assessing groundwater quality for drinking water supply using hybrid fuzzy-GIS-based water quality index. Water Research, 2020, 179, 115867.	5.3	146
21	Mapping of laterite zones using 2D electrical resistivity tomography survey in parts of Paschim Medinipur, West Bengal, India: An approach for artificial groundwater recharge. Journal of Earth System Science, 2020, 129, 1.	0.6	4
22	Chlorophyll Meter-Based Nitrogen Management in a Rice–Wheat Cropping System in Eastern India. International Journal of Plant Production, 2020, 14, 355-371.	1.0	6
23	Neural network modeling for groundwater-level forecasting in coastal aquifers. Neural Computing and Applications, 2020, 32, 12737-12754.	3.2	56
24	Optimizing chlorophyll meter (SPAD) reading to allow efficient nitrogen use in rice and wheat under rice-wheat cropping system in eastern India. Plant Production Science, 2020, 23, 270-285.	0.9	21
25	Assessing Variability of Infiltration Characteristics and Reliability of Infiltration Models in a Tropical Sub-humid Region of India. Scientific Reports, 2020, 10, 1515.	1.6	35
26	Development of a rainfall Stability Index using probabilistic indicators. Ecological Indicators, 2020, 115, 106406.	2.6	4
27	Simulation-Optimization for Conjunctive Water Resources Management and Optimal Crop Planning in Kushabhadra-Bhargavi River Delta of Eastern India. International Journal of Environmental Research and Public Health, 2020, 17, 3521.	1.2	9
28	Clustering of Groundwater Wells and Spatial Variation of Groundwater Recharge in Sina Basin, India. Asian Journal of Water, Environment and Pollution, 2020, 17, 11-21.	0.4	2
29	Overview, Current Status, and Future Prospect of Stochastic Time Series Modeling in Subsurface Hydrology., 2019,, 133-151.		7
30	Development and Evaluation of Hybrid Artificial Neural Network Architectures for Modeling Spatio-Temporal Groundwater Fluctuations in a Complex Aquifer System. Water Resources Management, 2019, 33, 2381-2397.	1.9	31
31	On the estimation of hydraulic conductivity of layered vadose zones with limited data availability. Journal of Earth System Science, 2019, 128, 1.	0.6	5
32	Comparison of Drought Indices in a Semi-Arid River Basin of India. Water Resources Management, 2019, 33, 75-102.	1.9	70
33	Simulation of regional irrigation requirement with SWAT in different agro-climatic zones driven by observed climate and two reanalysis datasets. Science of the Total Environment, 2019, 649, 846-865.	3.9	39
34	Infiltration characteristics of lateritic vadose zones: Field experiments and modeling. Soil and Tillage Research, 2019, 187, 219-234.	2.6	25
35	Analysis of trend in temperature and rainfall time series of an Indian arid region: comparative evaluation of salient techniques. Theoretical and Applied Climatology, 2019, 136, 301-320.	1.3	61
36	Scientific Framework For Subsurface Characterization and Evaluation of Grain-Size Analysis Methods. , 2019, , 261-272.		0

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37	Long-term geochemical assessment of groundwater in a hardrock aquifer system. International Journal of Agricultural Engineering, 2019, 12, 264-285.	0.0	0
38	Hydrogeologic and hydraulic characterization of aquifer and nonaquifer layers in a lateritic terrain (West Bengal, India). Hydrogeology Journal, 2018, 26, 1947-1973.	0.9	9
39	Assessing the accuracy of GIS-based Multi-Criteria Decision Analysis approaches for mapping groundwater potential. Ecological Indicators, 2018, 91, 24-37.	2.6	120
40	Application of Archimedean copulas to the impact assessment of hydro-climatic variables in semi-arid aquifers of western India. Hydrogeology Journal, 2018, 26, 89-108.	0.9	12
41	CHLOROPHYLLMETER-BASED NITROGEN MANAGEMENT OF WHEAT IN EASTERN INDIA. Experimental Agriculture, 2018, 54, 349-362.	0.4	6
42	Comparative evaluation of GIS-based models for mapping aquifer vulnerability in hard-rock terrains. Environmental Earth Sciences, 2018, 77, 1.	1.3	14
43	Mapping lithological variations in a river basin of West Bengal, India using electrical resistivity survey: implications for artificial recharge. Environmental Earth Sciences, 2018, 77, 1.	1.3	9
44	Framework for Standardizing Less Data-Intensive Methods of Reference Evapotranspiration Estimation. Water Resources Management, 2018, 32, 4159-4175.	1.9	5
45	Assessment and mapping of groundwater vulnerability to pollution: Current status and challenges. Earth-Science Reviews, 2018, 185, 901-927.	4.0	167
46	Comprehensive risk assessment of groundwater contamination in a weathered hard-rock aquifer system of India. Journal of Cleaner Production, 2018, 201, 853-868.	4.6	20
47	Development and analysis of the Soil Water Infiltration Global database. Earth System Science Data, 2018, 10, 1237-1263.	3.7	85
48	Evaluating persistence and identifying trends and abrupt changes in monthly and annual rainfalls of a semi-arid region in Western India. Theoretical and Applied Climatology, 2017, 128, 689-708.	1.3	23
49	Multi-criteria analysis and GIS modeling for identifying prospective water harvesting and artificial recharge sites for sustainable water supply. Journal of Cleaner Production, 2017, 142, 1436-1456.	4.6	156
50	Comparison of Analytic Hierarchy Process, Catastrophe and Entropy techniques for evaluating groundwater prospect of hard-rock aquifer systems. Journal of Hydrology, 2017, 548, 605-624.	2.3	110
51	Numerical groundwater-flow modeling to evaluate potential effects of pumping and recharge: implications for sustainable groundwater management in the Mahanadi delta region, India. Hydrogeology Journal, 2017, 25, 2489-2511.	0.9	37
52	Pattern recognition in lithology classification: modeling using neural networks, self-organizing maps and genetic algorithms. Hydrogeology Journal, 2017, 25, 311-330.	0.9	54
53	Evaluation of groundwater resources for sustainable groundwater development in a semiarid river basin of India. Environmental Earth Sciences, 2017, 76, 1.	1.3	6
54	Ground Water Contamination: Recent Advances in Identifying Sources. , 2017, , 97-134.		0

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55	Exploring hydrogeology and groundwater dynamics in a lateritic terrain of West Bengal, India, under limited data conditions. Environmental Earth Sciences, 2016, 75, 1.	1.3	8
56	Hydrologic and hydrogeologic analyses of an alluvial aquifer underlying Kushabhadra-Bhargavi River basin, Odisha, India. Arabian Journal of Geosciences, 2016, 9, 1.	0.6	1
57	GIS-Based Probabilistic Models as Spatial Prediction Tools for Mapping Regional Groundwater Potential., 2016,, 85-98.		0
58	GIS-based water balance modeling for estimating regional specific yield and distributed recharge in data-scarce hard-rock regions. Journal of Hydro-Environment Research, 2015, 9, 554-568.	1.0	26
59	Identifying sources of groundwater contamination in a hard-rock aquifer system using multivariate statistical analyses and GIS-based geostatistical modeling techniques. Journal of Hydrology: Regional Studies, 2015, 4, 80-110.	1.0	137
60	On the statistical forecasting of groundwater levels in unconfined aquifer systems. Environmental Earth Sciences, 2015, 73, 3119-3136.	1.3	25
61	Parameter identification and uncertainty analysis for simulating streamflow in a river basin of Eastern India. Hydrological Processes, 2015, 29, 3744-3766.	1.1	55
62	Evaluation of a GIS-Based Watershed Model for Streamflow and Sediment-Yield Simulation in the Upper Baitarani River Basin of Eastern India. Journal of Hydrologic Engineering - ASCE, 2015, 20, .	0.8	13
63	Evaluation of GIS-based multicriteria decision analysis and probabilistic modeling for exploring groundwater prospects. Environmental Earth Sciences, 2015, 74, 2223-2246.	1.3	36
64	Using Artificial Neural Network Approach for Simultaneous Forecasting of Weekly Groundwater Levels at Multiple Sites. Water Resources Management, 2015, 29, 5521-5532.	1.9	97
65	Assessing Climate Change Impact on Water Balance Components of a River Basin Using SWAT Model. Water Resources Management, 2015, 29, 4767-4785.	1.9	89
66	Efficacy of neural network and genetic algorithm techniques in simulating spatioâ€temporal fluctuations of groundwater. Hydrological Processes, 2015, 29, 671-691.	1.1	61
67	Characterizing rainfall-groundwater dynamics in a hard-rock aquifer system using time series, geographic information system and geostatistical modelling. Hydrological Processes, 2014, 28, 2824-2843.	1.1	45
68	Rainwater harvesting planning using geospatial techniques and multicriteria decision analysis. Resources, Conservation and Recycling, 2014, 83, 96-111.	5.3	108
69	Application of genetic algorithm technique to inverse modeling of tide–aquifer interaction. Environmental Earth Sciences, 2014, 71, 3655-3672.	1.3	13
70	Comparative evaluation of numerical model and artificial neural network for simulating groundwater flow in Kathajodi–Surua Inter-basin of Odisha, India. Journal of Hydrology, 2013, 495, 38-51.	2.3	112
71	Groundwater-level prediction using multiple linear regression and artificial neural network techniques: a comparative assessment. Hydrogeology Journal, 2013, 21, 1865-1887.	0.9	140
72	OPTIMAL DEVELOPMENT OF GROUNDWATER IN A WELL COMMAND OF EASTERN INDIA USING INTEGRATED SIMULATION AND OPTIMIZATION MODELLING. Irrigation and Drainage, 2013, 62, 363-376.	0.8	4

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73	Precision nitrogen management using chlorophyll meter for Improving Growth, Productivity and N Use Efficiency of Rice in Subtropical Climate. Journal of Agricultural Science, 2013, 5, .	0.1	14
74	Sustainable Management of Groundwater Resources in Developing Countries: Constraints and Challenges., 2013,, 325-348.		2
75	Efficacy of Tide-Aquifer Interaction Models for Characterizing Coastal Aquifer Systems. , 2013, , 435-444.		1
76	Hydrologic Time Series Analysis: Theory and Practice., 2012,,.		118
77	Hydrologic and Hydrogeologic Characterization of a Deltaic Aquifer System in Orissa, Eastern India. Water Resources Management, 2012, 26, 1899-1928.	1.9	7
78	A data-driven approach for analyzing dynamics of tide–aquifer interaction in coastal aquifer systems. Environmental Earth Sciences, 2012, 65, 1333-1355.	1.3	6
79	Modeling Short-Term Spatial and Temporal Variability of Groundwater Level Using Geostatistics and GIS. Natural Resources Research, 2012, 21, 117-136.	2.2	45
80	Methods for Time Series Analysis. , 2012, , 51-84.		6
81	Current Status of Time Series Analysis in Hydrological Sciences. , 2012, , 96-136.		1
82	Analysis of Trends in Low-Flow Time Series of Canadian Rivers. , 2012, , 201-221.		1
83	Efficacy of Time Series Tests: A Critical Assessment. , 2012, , 139-164.		0
84	GIS-based assessment and characterization of groundwater quality in a hard-rock hilly terrain of Western India. Environmental Monitoring and Assessment, 2011, 174, 645-663.	1.3	52
85	Assessment of Groundwater Potential in a Semi-Arid Region of India Using Remote Sensing, GIS and MCDM Techniques. Water Resources Management, 2011, 25, 1359-1386.	1.9	390
86	Groundwater assessment in Salboni Block, West Bengal (India) using remote sensing, geographical information system and multi-criteria decision analysis techniques. Hydrogeology Journal, 2010, 18, 1713-1728.	0.9	311
87	Evaluation of HEC-HMS and WEPP for simulating watershed runoff using remote sensing and geographical information system. Paddy and Water Environment, 2010, 8, 131-144.	1.0	88
88	Delineation of groundwater recharge zones and identification of artificial recharge sites in West Medinipur district, West Bengal, using RS, GIS and MCDM techniques. Environmental Earth Sciences, 2010, 59, 1209-1222.	1.3	313
89	Artificial Neural Network Modeling for Groundwater Level Forecasting in a River Island of Eastern India. Water Resources Management, 2010, 24, 1845-1865.	1.9	157
90	Modeling and evaluation of greenhouse for floriculture in subtropics. Energy and Buildings, 2010, 42, 1075-1083.	3.1	28

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91	Natural and Anthropogenic Disasters: An Overview. , 2010, , 1-16.		7
92	Sustainable Management of Disasters: Challenges and Prospects. , 2010, , 598-609.		0
93	Potential of Geospatial Technologies for Mitigating Land and Water Related Disasters., 2010,, 469-502.		0
94	Decision Support System: Concept and Potential for Integrated Water Resources Management. , 2010, , 503-535.		0
95	Cost-effective Approaches for Sustainable Groundwater Management in Alluvial Aquifer Systems. Water Resources Management, 2009, 23, 219-233.	1.9	32
96	Simulation-Optimization Modelling for Sustainable Groundwater Management in a Coastal Basin of Orissa, India. Water Resources Management, 2009, 23, 235-263.	1.9	46
97	Design and technology for greenhouse cooling in tropical and subtropical regions: A review. Energy and Buildings, 2009, 41, 1269-1275.	3.1	115
98	Integrated remote sensing and GISâ€based approach for assessing groundwater potential in West Medinipur district, West Bengal, India. International Journal of Remote Sensing, 2009, 30, 231-250.	1.3	323
99	Simulation Modeling for Efficient Groundwater Management in Balasore Coastal Basin, India. Water Resources Management, 2008, 22, 23-50.	1.9	91
100	Hydraulic Parameters of Coastal Aquifer Systems by Direct Methods and an Extended Tide–Aquifer Interaction Technique. Water Resources Management, 2008, 22, 1899-1923.	1.9	45
101	Ensuring sustainable water supplies: A study of groundwater conditions in Salboni Block, West Bengal. Environmental Quality Management, 2008, 18, 29-46.	1.0	0
102	Vertical electrical sounding survey and resistivity inversion using genetic algorithm optimization technique. Journal of Hydrology, 2008, 359, 71-87.	2.3	40
103	Comparative evaluation of statistical tests for time series analysis: application to hydrological time series / Evaluation comparative de tests statistiques pour l'analyse de séries temporelles: application à des séries temporelles hydrologiques. Hydrological Sciences Journal, 2008, 53, 353-366.	1.2	73
104	Groundwater management and development by integrated remote sensing and geographic information systems: prospects and constraints. Water Resources Management, 2007, 21, 427-467.	1.9	384
105	Challenges of using remote sensing and GIS in developing nations. Hydrogeology Journal, 2007, 15, 197-200.	0.9	59
106	Harnessing earth observation (EO) capabilities in hydrogeology: an Indian perspective. Hydrogeology Journal, 2007, 15, 155-158.	0.9	24
107	Modelling Infiltration and quantifying Spatial Soil Variability in a Wasteland of Kharagpur, India. Biosystems Engineering, 2006, 95, 569-582.	1.9	69
108	Evaluation of Traditional and Nontraditional Optimization Techniques for Determining Well Parameters from Step-Drawdown Test Data. Journal of Hydrologic Engineering - ASCE, 2006, 11, 617-630.	0.8	30

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109	Field Investigation of Water Movement and Nitrate Transport under Perched Water Table Conditions. Biosystems Engineering, 2005, 92, 69-84.	1.9	22
110	Water Quality of the Monobe River with Dams (I): Seasonal Variations and Changes in Surface Water Quality from Upper to Lower Reaches. Journal of Rainwater Catchment Systems, 2004, 9, 1-10.	0.2	0
111	Planning and Design of Cost-effective Water Harvesting Structures for Efficient Utilization of Scarce Water Resources in Semi-arid Regions of Rajasthan, India. Water Resources Management, 2004, 18, 219-235.	1.9	39
112	Determining Hydraulic Characteristics of Production Wells using Genetic Algorithm. Water Resources Management, 2004, 18, 353-377.	1.9	14
113	Determination of hydraulic parameters of an unconfined alluvial aquifer by the floodwave-response technique. Hydrogeology Journal, 2004, 12, 628-642.	0.9	17
114	On the Basic Stochastic Characteristics (Moments) of Global Annual Precipitations. Journal of Rainwater Catchment Systems, 2004, 10, 7-14.	0.2	0
115	On the Estimation of Phreatic Aquifer Parameters by the Tidal Response Technique. Water Resources Management, 2003, 17, 69-88.	1.9	25
116	Estimation of Aquifer Parameters from Pumping Test Data by Genetic Algorithm Optimization Technique. Journal of Irrigation and Drainage Engineering - ASCE, 2003, 129, 348-359.	0.6	61
117	Dynamics of water flow and fertilizer solute leaching in lateritic soils of Kharagpur region, India. Agricultural Water Management, 2003, 63, 77-98.	2.4	20
118	Field Investigations for Sustainable Groundwater Utilization in the Konan Basin. Water Resources Management, 1999, 13, 443-470.	1.9	24
119	Effective Utilization of Chaurs in North Bihar, India. Biosystems Engineering, 1995, 60, 237-247.	0.4	1
120	Mole drainage: Prospective drainage solution to Bangkok clay soils. Agricultural Water Management, 1995, 28, 253-270.	2.4	12
121	Trends and Variability of Rainfall in Tripura State of India in 1986–2019 and Key Drivers. Pure and Applied Geophysics, 0, , 1.	0.8	O