

Madan Kumar Jha

List of Publications by Citations

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119
papers

3,910
citations

35
h-index

61
g-index

122
ext. papers

4,730
ext. citations

4
avg, IF

6.13
L-index

#	Paper	IF	Citations
119	Groundwater management and development by integrated remote sensing and geographic information systems: prospects and constraints. <i>Water Resources Management</i> , 2007 , 21, 427-467	3.7	305
118	Assessment of Groundwater Potential in a Semi-Arid Region of India Using Remote Sensing, GIS and MCDM Techniques. <i>Water Resources Management</i> , 2011 , 25, 1359-1386	3.7	277
117	Integrated remote sensing and GIS-based approach for assessing groundwater potential in West Medinipur district, West Bengal, India. <i>International Journal of Remote Sensing</i> , 2009 , 30, 231-250	3.1	258
116	Delineation of groundwater recharge zones and identification of artificial recharge sites in West Medinipur district, West Bengal, using RS, GIS and MCDM techniques. <i>Environmental Earth Sciences</i> , 2010 , 59, 1209-1222	2.9	237
115	Groundwater assessment in Salboni Block, West Bengal (India) using remote sensing, geographical information system and multi-criteria decision analysis techniques. <i>Hydrogeology Journal</i> , 2010 , 18, 1713-1728	3.1	224
114	Artificial Neural Network Modeling for Groundwater Level Forecasting in a River Island of Eastern India. <i>Water Resources Management</i> , 2010 , 24, 1845-1865	3.7	120
113	Identifying sources of groundwater contamination in a hard-rock aquifer system using multivariate statistical analyses and GIS-based geostatistical modeling techniques. <i>Journal of Hydrology: Regional Studies</i> , 2015 , 4, 80-110	3.6	109
112	Multi-criteria analysis and GIS modeling for identifying prospective water harvesting and artificial recharge sites for sustainable water supply. <i>Journal of Cleaner Production</i> , 2017 , 142, 1436-1456	10.3	105
111	Groundwater-level prediction using multiple linear regression and artificial neural network techniques: a comparative assessment. <i>Hydrogeology Journal</i> , 2013 , 21, 1865-1887	3.1	91
110	Design and technology for greenhouse cooling in tropical and subtropical regions: A review. <i>Energy and Buildings</i> , 2009 , 41, 1269-1275	7	82
109	Simulation Modeling for Efficient Groundwater Management in Balasore Coastal Basin, India. <i>Water Resources Management</i> , 2008 , 22, 23-50	3.7	82
108	Assessing the accuracy of GIS-based Multi-Criteria Decision Analysis approaches for mapping groundwater potential. <i>Ecological Indicators</i> , 2018 , 91, 24-37	5.8	79
107	Assessment and mapping of groundwater vulnerability to pollution: Current status and challenges. <i>Earth-Science Reviews</i> , 2018 , 185, 901-927	10.2	78
106	Rainwater harvesting planning using geospatial techniques and multicriteria decision analysis. <i>Resources, Conservation and Recycling</i> , 2014 , 83, 96-111	11.9	78
105	Hydrologic Time Series Analysis: Theory and Practice 2012 ,		76
104	Comparative evaluation of numerical model and artificial neural network for simulating groundwater flow in Kathajodi-Burua Inter-basin of Odisha, India. <i>Journal of Hydrology</i> , 2013 , 495, 38-51	6	75
103	Comparison of Analytic Hierarchy Process, Catastrophe and Entropy techniques for evaluating groundwater prospect of hard-rock aquifer systems. <i>Journal of Hydrology</i> , 2017 , 548, 605-624	6	71

102	Using Artificial Neural Network Approach for Simultaneous Forecasting of Weekly Groundwater Levels at Multiple Sites. <i>Water Resources Management</i> , 2015 , 29, 5521-5532	3.7	69
101	Evaluation of HEC-HMS and WEPP for simulating watershed runoff using remote sensing and geographical information system. <i>Paddy and Water Environment</i> , 2010 , 8, 131-144	1.6	68
100	Assessing groundwater quality for drinking water supply using hybrid fuzzy-GIS-based water quality index. <i>Water Research</i> , 2020 , 179, 115867	12.5	60
99	Assessing Climate Change Impact on Water Balance Components of a River Basin Using SWAT Model. <i>Water Resources Management</i> , 2015 , 29, 4767-4785	3.7	59
98	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. <i>Hydrological Sciences Journal</i> , 2008 , 53, 353-366	3.5	59
97	Development and analysis of the Soil Water Infiltration Global database. <i>Earth System Science Data</i> , 2018 , 10, 1237-1263	10.5	54
96	Challenges of using remote sensing and GIS in developing nations. <i>Hydrogeology Journal</i> , 2007 , 15, 197-200	3.0	47
95	Efficacy of neural network and genetic algorithm techniques in simulating spatio-temporal fluctuations of groundwater. <i>Hydrological Processes</i> , 2015 , 29, 671-691	3.3	46
94	Estimation of Aquifer Parameters from Pumping Test Data by Genetic Algorithm Optimization Technique. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2003 , 129, 348-359	1.1	46
93	Modelling Infiltration and quantifying Spatial Soil Variability in a Wasteland of Kharagpur, India. <i>Biosystems Engineering</i> , 2006 , 95, 569-582	4.8	45
92	Simulation-Optimization Modelling for Sustainable Groundwater Management in a Coastal Basin of Orissa, India. <i>Water Resources Management</i> , 2009 , 23, 235-263	3.7	42
91	Parameter identification and uncertainty analysis for simulating streamflow in a river basin of Eastern India. <i>Hydrological Processes</i> , 2015 , 29, 3744-3766	3.3	41
90	Pattern recognition in lithology classification: modeling using neural networks, self-organizing maps and genetic algorithms. <i>Hydrogeology Journal</i> , 2017 , 25, 311-330	3.1	41
89	GIS-based assessment and characterization of groundwater quality in a hard-rock hilly terrain of Western India. <i>Environmental Monitoring and Assessment</i> , 2011 , 174, 645-63	3.1	38
88	Hydraulic Parameters of Coastal Aquifer Systems by Direct Methods and an Extended Tide-Aquifer Interaction Technique. <i>Water Resources Management</i> , 2008 , 22, 1899-1923	3.7	37
87	Comparison of Drought Indices in a Semi-Arid River Basin of India. <i>Water Resources Management</i> , 2019 , 33, 75-102	3.7	37
86	Characterizing rainfall-groundwater dynamics in a hard-rock aquifer system using time series, geographic information system and geostatistical modelling. <i>Hydrological Processes</i> , 2014 , 28, 2824-2843	3.3	36
85	Analysis of trend in temperature and rainfall time series of an Indian arid region: comparative evaluation of salient techniques. <i>Theoretical and Applied Climatology</i> , 2019 , 136, 301-320	3	36

84	Modeling Short-Term Spatial and Temporal Variability of Groundwater Level Using Geostatistics and GIS. <i>Natural Resources Research</i> , 2012 , 21, 117-136	4.9	34
83	Vertical electrical sounding survey and resistivity inversion using genetic algorithm optimization technique. <i>Journal of Hydrology</i> , 2008 , 359, 71-87	6	31
82	Simulation of regional irrigation requirement with SWAT in different agro-climatic zones driven by observed climate and two reanalysis datasets. <i>Science of the Total Environment</i> , 2019 , 649, 846-865	10.2	31
81	Evaluation of GIS-based multicriteria decision analysis and probabilistic modeling for exploring groundwater prospects. <i>Environmental Earth Sciences</i> , 2015 , 74, 2223-2246	2.9	27
80	Neural network modeling for groundwater-level forecasting in coastal aquifers. <i>Neural Computing and Applications</i> , 2020 , 32, 12737-12754	4.8	27
79	Numerical groundwater-flow modeling to evaluate potential effects of pumping and recharge: implications for sustainable groundwater management in the Mahanadi delta region, India. <i>Hydrogeology Journal</i> , 2017 , 25, 2489-2511	3.1	27
78	Planning and Design of Cost-effective Water Harvesting Structures for Efficient Utilization of Scarce Water Resources in Semi-arid Regions of Rajasthan, India. <i>Water Resources Management</i> , 2004 , 18, 219-235	3.7	25
77	Evaluation of Traditional and Nontraditional Optimization Techniques for Determining Well Parameters from Step-Drawdown Test Data. <i>Journal of Hydrologic Engineering - ASCE</i> , 2006 , 11, 617-630 ^{1.8}		24
76	On the Estimation of Phreatic Aquifer Parameters by the Tidal Response Technique. <i>Water Resources Management</i> , 2003 , 17, 69-88	3.7	23
75	Harnessing earth observation (EO) capabilities in hydrogeology: an Indian perspective. <i>Hydrogeology Journal</i> , 2007 , 15, 155-158	3.1	22
74	Observed rainfall changes in the past century (1901-2019) over the wettest place on Earth. <i>Environmental Research Letters</i> , 2021 , 16, 024018	6.2	22
73	Modeling and evaluation of greenhouse for floriculture in subtropics. <i>Energy and Buildings</i> , 2010 , 42, 1075-1083	7	21
72	Field Investigations for Sustainable Groundwater Utilization in the Konan Basin. <i>Water Resources Management</i> , 1999 , 13, 443-470	3.7	21
71	Identification of critical areas and evaluation of best management practices using SWAT for sustainable watershed management. <i>Science of the Total Environment</i> , 2020 , 744, 140737	10.2	21
70	GIS-based water balance modeling for estimating regional specific yield and distributed recharge in data-scarce hard-rock regions. <i>Journal of Hydro-Environment Research</i> , 2015 , 9, 554-568	2.3	20
69	Evaluating persistence and identifying trends and abrupt changes in monthly and annual rainfalls of a semi-arid region in Western India. <i>Theoretical and Applied Climatology</i> , 2017 , 128, 689-708	3	19
68	Cost-effective Approaches for Sustainable Groundwater Management in Alluvial Aquifer Systems. <i>Water Resources Management</i> , 2009 , 23, 219-233	3.7	18
67	Development and Evaluation of Hybrid Artificial Neural Network Architectures for Modeling Spatio-Temporal Groundwater Fluctuations in a Complex Aquifer System. <i>Water Resources Management</i> , 2019 , 33, 2381-2397	3.7	17

66	Field Investigation of Water Movement and Nitrate Transport under Perched Water Table Conditions. <i>Biosystems Engineering</i> , 2005 , 92, 69-84	4.8	17
65	On the statistical forecasting of groundwater levels in unconfined aquifer systems. <i>Environmental Earth Sciences</i> , 2015 , 73, 3119-3136	2.9	15
64	Determination of hydraulic parameters of an unconfined alluvial aquifer by the floodwave-response technique. <i>Hydrogeology Journal</i> , 2004 , 12, 628-642	3.1	15
63	Dynamics of water flow and fertilizer solute leaching in lateritic soils of Kharagpur region, India. <i>Agricultural Water Management</i> , 2003 , 63, 77-98	5.9	15
62	Assessing Variability of Infiltration Characteristics and Reliability of Infiltration Models in a Tropical Sub-humid Region of India. <i>Scientific Reports</i> , 2020 , 10, 1515	4.9	14
61	Determining Hydraulic Characteristics of Production Wells using Genetic Algorithm. <i>Water Resources Management</i> , 2004 , 18, 353-377	3.7	12
60	Application of genetic algorithm technique to inverse modeling of tide-aquifer interaction. <i>Environmental Earth Sciences</i> , 2014 , 71, 3655-3672	2.9	11
59	Infiltration characteristics of lateritic vadose zones: Field experiments and modeling. <i>Soil and Tillage Research</i> , 2019 , 187, 219-234	6.5	11
58	Evaluation of a GIS-Based Watershed Model for Streamflow and Sediment-Yield Simulation in the Upper Baitarani River Basin of Eastern India. <i>Journal of Hydrologic Engineering - ASCE</i> , 2015 , 20,	1.8	10
57	Comprehensive risk assessment of groundwater contamination in a weathered hard-rock aquifer system of India. <i>Journal of Cleaner Production</i> , 2018 , 201, 853-868	10.3	9
56	Precision nitrogen management using chlorophyll meter for Improving Growth, Productivity and N Use Efficiency of Rice in Subtropical Climate. <i>Journal of Agricultural Science</i> , 2013 , 5,	1	9
55	Comparative evaluation of GIS-based models for mapping aquifer vulnerability in hard-rock terrains. <i>Environmental Earth Sciences</i> , 2018 , 77, 1	2.9	7
54	Efficacy of machine learning techniques in predicting groundwater fluctuations in agro-ecological zones of India. <i>Science of the Total Environment</i> , 2021 , 785, 147319	10.2	7
53	Hydrogeologic and hydraulic characterization of aquifer and nonaquifer layers in a lateritic terrain (West Bengal, India). <i>Hydrogeology Journal</i> , 2018 , 26, 1947-1973	3.1	6
52	Application of Archimedean copulas to the impact assessment of hydro-climatic variables in semi-arid aquifers of western India. <i>Hydrogeology Journal</i> , 2018 , 26, 89-108	3.1	6
51	Simulation-Optimization for Conjunctive Water Resources Management and Optimal Crop Planning in Kushabhadra-Bhargavi River Delta of Eastern India. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	6
50	Insight into the precipitation behavior of gridded precipitation data in the Sina basin. <i>Environmental Monitoring and Assessment</i> , 2020 , 192, 729	3.1	6
49	Predicting groundwater depth fluctuations using deep learning, extreme learning machine and Gaussian process: a comparative study. <i>Earth Science Informatics</i> , 2020 , 13, 1237-1250	2.5	6

48	Exploring hydrogeology and groundwater dynamics in a lateritic terrain of West Bengal, India, under limited data conditions. <i>Environmental Earth Sciences</i> , 2016 , 75, 1	2.9	6
47	Mapping lithological variations in a river basin of West Bengal, India using electrical resistivity survey: implications for artificial recharge. <i>Environmental Earth Sciences</i> , 2018 , 77, 1	2.9	6
46	Hydrologic and Hydrogeologic Characterization of a Deltaic Aquifer System in Orissa, Eastern India. <i>Water Resources Management</i> , 2012 , 26, 1899-1928	3.7	5
45	Mole drainage: Prospective drainage solution to Bangkok clay soils. <i>Agricultural Water Management</i> , 1995 , 28, 253-270	5.9	5
44	Optimizing chlorophyll meter (SPAD) reading to allow efficient nitrogen use in rice and wheat under rice-wheat cropping system in eastern India. <i>Plant Production Science</i> , 2020 , 23, 270-285	2.4	4
43	CHLOROPHYLLMETER-BASED NITROGEN MANAGEMENT OF WHEAT IN EASTERN INDIA. <i>Experimental Agriculture</i> , 2018 , 54, 349-362	1.7	4
42	Framework for Standardizing Less Data-Intensive Methods of Reference Evapotranspiration Estimation. <i>Water Resources Management</i> , 2018 , 32, 4159-4175	3.7	4
41	A data-driven approach for analyzing dynamics of tide-aquifer interaction in coastal aquifer systems. <i>Environmental Earth Sciences</i> , 2012 , 65, 1333-1355	2.9	4
40	Evaluation of groundwater resources for sustainable groundwater development in a semiarid river basin of India. <i>Environmental Earth Sciences</i> , 2017 , 76, 1	2.9	4
39	Natural and Anthropogenic Disasters: An Overview 2010 , 1-16		4
38	Methods for Time Series Analysis 2012 , 51-84		4
37	Trend and Homogeneity in Subsurface Hydrologic Variables: Case Study in a Hard-Rock Aquifer of Western India 2012 , 165-180		4
36	Investigating Groundwater Condition and Seawater Intrusion Status in Coastal Aquifer Systems of Eastern India. <i>Water (Switzerland)</i> , 2021 , 13, 1952	3	4
35	Evaluation of water demand and supply under varying meteorological conditions in Eastern India and mitigation strategies for sustainable agricultural production. <i>Environment, Development and Sustainability</i> , 2021 , 23, 1264-1291	4.5	4
34	Overview, Current Status, and Future Prospect of Stochastic Time Series Modeling in Subsurface Hydrology 2019 , 133-151		3
33	On the estimation of hydraulic conductivity of layered vadose zones with limited data availability. <i>Journal of Earth System Science</i> , 2019 , 128, 1	1.8	3
32	OPTIMAL DEVELOPMENT OF GROUNDWATER IN A WELL COMMAND OF EASTERN INDIA USING INTEGRATED SIMULATION AND OPTIMIZATION MODELLING. <i>Irrigation and Drainage</i> , 2013 , 62, 363-376	1.1	3
31	Optimization modeling for conjunctive use planning in Upper Damodar River basin, India. <i>Journal of Cleaner Production</i> , 2020 , 273, 123098	10.3	3

30	Mapping of laterite zones using 2D electrical resistivity tomography survey in parts of Paschim Medinipur, West Bengal, India: An approach for artificial groundwater recharge. <i>Journal of Earth System Science</i> , 2020 , 129, 1	1.8	2
29	Chlorophyll Meter-Based Nitrogen Management in a Rice-Wheat Cropping System in Eastern India. <i>International Journal of Plant Production</i> , 2020 , 14, 355-371	2.4	2
28	Assessing Multi-Criteria Decision Analysis Models for Predicting Groundwater Quality in a River Basin of South India. <i>Sustainability</i> , 2021 , 13, 6719	3.6	2
27	Application of catastrophe theory to spatial analysis of groundwater potential in a sub-humid tropical region: a hybrid approach. <i>Geocarto International</i> , 2020 , 1-20	2.7	1
26	Clustering of Groundwater Wells and Spatial Variation of Groundwater Recharge in Sina Basin, India. <i>Asian Journal of Water, Environment and Pollution</i> , 2020 , 17, 11-21	0.7	1
25	Analysis of Trends in Low-Flow Time Series of Canadian Rivers 2012 , 201-221		1
24	Sustainable Management of Groundwater Resources in Developing Countries: Constraints and Challenges 2013 , 325-348		1
23	Probability-based approach for evaluating groundwater risk assessment in Sina basin, India 2020 , 289-304		1
22	Development of a rainfall Stability Index using probabilistic indicators. <i>Ecological Indicators</i> , 2020 , 115, 106406	5.8	1
21	Planning rainwater conservation measures using geospatial and multi-criteria decision making tools. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 1734-1751	5.1	1
20	Assessment of precipitation trends and its implications in the semi-arid region of Southern India. <i>Environmental Challenges</i> , 2021 , 5, 100269	2.6	1
19	Groundwater recharge over the past 100 years: Regional spatiotemporal assessment and climate change impact over the Saguenay-Lac-Saint-Jean region, Canada. <i>Hydrological Processes</i> , 2022 , 36,	3.3	1
18	Current Status of Time Series Analysis in Hydrological Sciences 2012 , 96-136		0
17	A Novel GIS-Based Modeling Approach for Evaluating Aquifer Susceptibility to Anthropogenic Contamination. <i>Sustainability</i> , 2022 , 14, 4538	3.6	0
16	Ensuring sustainable water supplies: A study of groundwater conditions in Salboni Block, West Bengal. <i>Environmental Quality Management</i> , 2008 , 18, 29-46	0.8	
15	Water Quality of the Monobe River with Dams (I) : Seasonal Variations and Changes in Surface Water Quality from Upper to Lower Reaches. <i>Journal of Rainwater Catchment Systems</i> , 2004 , 9, 1-10	0.2	
14	Management of groundwater drought risk by reliability theory and copula model in Sina basin, India. <i>Sustainable Water Resources Management</i> , 2022 , 8, 1	1.9	
13	On the Basic Stochastic Characteristics (Moments) of Global Annual Precipitations. <i>Journal of Rainwater Catchment Systems</i> , 2004 , 10, 7-14	0.2	

- 12 Scientific Framework For Subsurface Characterization and Evaluation of Grain-Size Analysis Methods **2019**, 261-272
- 11 Long-term geochemical assessment of groundwater in a hardrock aquifer system. *International Journal of Agricultural Engineering*, **2019**, 12, 264-285 ○
- 10 GIS-Based Probabilistic Models as Spatial Prediction Tools for Mapping Regional Groundwater Potential **2016**, 85-98
- 9 Ground Water Contamination: Recent Advances in Identifying Sources **2017**, 97-134
- 8 Sustainable Management of Disasters: Challenges and Prospects **2010**, 598-609
- 7 Potential of Geospatial Technologies for Mitigating Land and Water Related Disasters **2010**, 469-502
- 6 Decision Support System: Concept and Potential for Integrated Water Resources Management **2010**, 503-535
- 5 Efficacy of Time Series Tests: A Critical Assessment **2012**, 139-164
- 4 Efficacy of Tide-Aquifer Interaction Models for Characterizing Coastal Aquifer Systems **2013**, 435-444
- 3 Hydrologic and hydrogeologic analyses of an alluvial aquifer underlying Kushabhadra-Bhargavi River basin, Odisha, India. *Arabian Journal of Geosciences*, **2016**, 9, 1 1.8
- 2 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 1.1
- 1 Trends and Variability of Rainfall in Tripura State of India in 1986-2019 and Key Drivers. *Pure and Applied Geophysics*, 1 2.2