List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2136474/publications.pdf Version: 2024-02-01

		87888	82547
121	5,724	38	72
papers	citations	h-index	g-index
122	122	122	4383
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	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.	3.9	390
2	Groundwater management and development by integrated remote sensing and geographic information systems: prospects and constraints. Water Resources Management, 2007, 21, 427-467.	3.9	384
3	Integrated remote sensing and CISâ€based approach for assessing groundwater potential in West Medinipur district, West Bengal, India. International Journal of Remote Sensing, 2009, 30, 231-250.	2.9	323
4	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.	2.7	313
5	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.	2.1	311
6	Assessment and mapping of groundwater vulnerability to pollution: Current status and challenges. Earth-Science Reviews, 2018, 185, 901-927.	9.1	167
7	Artificial Neural Network Modeling for Groundwater Level Forecasting in a River Island of Eastern India. Water Resources Management, 2010, 24, 1845-1865.	3.9	157
8	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.	9.3	156
9	Assessing groundwater quality for drinking water supply using hybrid fuzzy-GIS-based water quality index. Water Research, 2020, 179, 115867.	11.3	146
10	Groundwater-level prediction using multiple linear regression and artificial neural network techniques: a comparative assessment. Hydrogeology Journal, 2013, 21, 1865-1887.	2.1	140
11	ldentifying sources of groundwater contamination in a hard-rock aquifer system using multivariate statistical analyses and ClS-based geostatistical modeling techniques. Journal of Hydrology: Regional Studies, 2015, 4, 80-110.	2.4	137
12	Assessing the accuracy of GIS-based Multi-Criteria Decision Analysis approaches for mapping groundwater potential. Ecological Indicators, 2018, 91, 24-37.	6.3	120
13	Hydrologic Time Series Analysis: Theory and Practice. , 2012, , .		118
14	Design and technology for greenhouse cooling in tropical and subtropical regions: A review. Energy and Buildings, 2009, 41, 1269-1275.	6.7	115
15	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.	5.4	112
16	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.	5.4	110
17	Rainwater harvesting planning using geospatial techniques and multicriteria decision analysis. Resources, Conservation and Recycling, 2014, 83, 96-111.	10.8	108
18	Using Artificial Neural Network Approach for Simultaneous Forecasting of Weekly Groundwater Levels at Multiple Sites. Water Resources Management, 2015, 29, 5521-5532.	3.9	97

#	Article	IF	CITATIONS
19	Simulation Modeling for Efficient Groundwater Management in Balasore Coastal Basin, India. Water Resources Management, 2008, 22, 23-50.	3.9	91
20	Assessing Climate Change Impact on Water Balance Components of a River Basin Using SWAT Model. Water Resources Management, 2015, 29, 4767-4785.	3.9	89
21	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.	1.8	88
22	Development and analysis of the Soil Water Infiltration Global database. Earth System Science Data, 2018, 10, 1237-1263.	9.9	85
23	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 Ã des séries temporelles hydrologiques. Hydrological Sciences Journal, 2008, 53, 353-366.	2.6	73
24	Comparison of Drought Indices in a Semi-Arid River Basin of India. Water Resources Management, 2019, 33, 75-102.	3.9	70
25	Modelling Infiltration and quantifying Spatial Soil Variability in a Wasteland of Kharagpur, India. Biosystems Engineering, 2006, 95, 569-582.	4.3	69
26	Observed rainfall changes in the past century (1901–2019) over the wettest place on Earth. Environmental Research Letters, 2021, 16, 024018.	5.2	66
27	Estimation of Aquifer Parameters from Pumping Test Data by Genetic Algorithm Optimization Technique. Journal of Irrigation and Drainage Engineering - ASCE, 2003, 129, 348-359.	1.0	61
28	Efficacy of neural network and genetic algorithm techniques in simulating spatioâ€ŧemporal fluctuations of groundwater. Hydrological Processes, 2015, 29, 671-691.	2.6	61
29	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.	2.8	61
30	Challenges of using remote sensing and GIS in developing nations. Hydrogeology Journal, 2007, 15, 197-200.	2.1	59
31	Identification of critical areas and evaluation of best management practices using SWAT for sustainable watershed management. Science of the Total Environment, 2020, 744, 140737.	8.0	57
32	Neural network modeling for groundwater-level forecasting in coastal aquifers. Neural Computing and Applications, 2020, 32, 12737-12754.	5.6	56
33	Parameter identification and uncertainty analysis for simulating streamflow in a river basin of Eastern India. Hydrological Processes, 2015, 29, 3744-3766.	2.6	55
34	Pattern recognition in lithology classification: modeling using neural networks, self-organizing maps and genetic algorithms. Hydrogeology Journal, 2017, 25, 311-330.	2.1	54
35	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.	2.7	52
36	Simulation-Optimization Modelling for Sustainable Groundwater Management in a Coastal Basin of Orissa, India. Water Resources Management, 2009, 23, 235-263.	3.9	46

#	Article	IF	CITATIONS
37	Hydraulic Parameters of Coastal Aquifer Systems by Direct Methods and an Extended Tide–Aquifer Interaction Technique. Water Resources Management, 2008, 22, 1899-1923.	3.9	45
38	Modeling Short-Term Spatial and Temporal Variability of Groundwater Level Using Geostatistics and GIS. Natural Resources Research, 2012, 21, 117-136.	4.7	45
39	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.	2.6	45
40	Vertical electrical sounding survey and resistivity inversion using genetic algorithm optimization technique. Journal of Hydrology, 2008, 359, 71-87.	5.4	40
41	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.	3.9	39
42	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.	8.0	39
43	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.	2.1	37
44	Evaluation of GIS-based multicriteria decision analysis and probabilistic modeling for exploring groundwater prospects. Environmental Earth Sciences, 2015, 74, 2223-2246.	2.7	36
45	Assessing Variability of Infiltration Characteristics and Reliability of Infiltration Models in a Tropical Sub-humid Region of India. Scientific Reports, 2020, 10, 1515.	3.3	35
46	Efficacy of machine learning techniques in predicting groundwater fluctuations in agro-ecological zones of India. Science of the Total Environment, 2021, 785, 147319.	8.0	34
47	Cost-effective Approaches for Sustainable Groundwater Management in Alluvial Aquifer Systems. Water Resources Management, 2009, 23, 219-233.	3.9	32
48	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.	3.9	31
49	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.	1.9	30
50	Modeling and evaluation of greenhouse for floriculture in subtropics. Energy and Buildings, 2010, 42, 1075-1083.	6.7	28
51	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.	2.2	26
52	On the Estimation of Phreatic Aquifer Parameters by the Tidal Response Technique. Water Resources Management, 2003, 17, 69-88.	3.9	25
53	On the statistical forecasting of groundwater levels in unconfined aquifer systems. Environmental Earth Sciences, 2015, 73, 3119-3136.	2.7	25
54	Infiltration characteristics of lateritic vadose zones: Field experiments and modeling. Soil and Tillage Research, 2019, 187, 219-234.	5.6	25

#	Article	IF	CITATIONS
55	Field Investigations for Sustainable Groundwater Utilization in the Konan Basin. Water Resources Management, 1999, 13, 443-470.	3.9	24
56	Harnessing earth observation (EO) capabilities in hydrogeology: an Indian perspective. Hydrogeology Journal, 2007, 15, 155-158.	2.1	24
57	Predicting groundwater depth fluctuations using deep learning, extreme learning machine and Gaussian process: a comparative study. Earth Science Informatics, 2020, 13, 1237-1250.	3.2	24
58	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.	2.8	23
59	Field Investigation of Water Movement and Nitrate Transport under Perched Water Table Conditions. Biosystems Engineering, 2005, 92, 69-84.	4.3	22
60	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.	2.0	21
61	Dynamics of water flow and fertilizer solute leaching in lateritic soils of Kharagpur region, India. Agricultural Water Management, 2003, 63, 77-98.	5.6	20
62	Comprehensive risk assessment of groundwater contamination in a weathered hard-rock aquifer system of India. Journal of Cleaner Production, 2018, 201, 853-868.	9.3	20
63	Assessment of precipitation trends and its implications in the semi-arid region of Southern India. Environmental Challenges, 2021, 5, 100269.	4.2	18
64	Determination of hydraulic parameters of an unconfined alluvial aquifer by the floodwave-response technique. Hydrogeology Journal, 2004, 12, 628-642.	2.1	17
65	Determining Hydraulic Characteristics of Production Wells using Genetic Algorithm. Water Resources Management, 2004, 18, 353-377.	3.9	14
66	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, .	0.2	14
67	Comparative evaluation of GIS-based models for mapping aquifer vulnerability in hard-rock terrains. Environmental Earth Sciences, 2018, 77, 1.	2.7	14
68	Application of genetic algorithm technique to inverse modeling of tide–aquifer interaction. Environmental Earth Sciences, 2014, 71, 3655-3672.	2.7	13
69	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, .	1.9	13
70	Insight into the precipitation behavior of gridded precipitation data in the Sina basin. Environmental Monitoring and Assessment, 2020, 192, 729.	2.7	13
71	Mole drainage: Prospective drainage solution to Bangkok clay soils. Agricultural Water Management, 1995, 28, 253-270.	5.6	12
72	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.	2.1	12

#	Article	IF	CITATIONS
73	Investigating Groundwater Condition and Seawater Intrusion Status in Coastal Aquifer Systems of Eastern India. Water (Switzerland), 2021, 13, 1952.	2.7	11
74	Hydrogeologic and hydraulic characterization of aquifer and nonaquifer layers in a lateritic terrain (West Bengal, India). Hydrogeology Journal, 2018, 26, 1947-1973.	2.1	9
75	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.	2.7	9
76	Optimization modeling for conjunctive use planning in Upper Damodar River basin, India. Journal of Cleaner Production, 2020, 273, 123098.	9.3	9
77	Planning rainwater conservation measures using geospatial and multi-criteria decision making tools. Environmental Science and Pollution Research, 2021, 28, 1734-1751.	5.3	9
78	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.	2.6	9
79	Groundwater recharge over the past 100 years: Regional spatiotemporal assessment and climate change impact over the <scp>Saguenay‣acâ€Saintâ€Jean</scp> region, Canada. Hydrological Processes, 2022, 36, .	2.6	9
80	Exploring hydrogeology and groundwater dynamics in a lateritic terrain of West Bengal, India, under limited data conditions. Environmental Earth Sciences, 2016, 75, 1.	2.7	8
81	Hydrologic and Hydrogeologic Characterization of a Deltaic Aquifer System in Orissa, Eastern India. Water Resources Management, 2012, 26, 1899-1928.	3.9	7
82	Overview, Current Status, and Future Prospect of Stochastic Time Series Modeling in Subsurface Hydrology. , 2019, , 133-151.		7
83	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.	3.5	7
84	Assessing Multi-Criteria Decision Analysis Models for Predicting Groundwater Quality in a River Basin of South India. Sustainability, 2021, 13, 6719.	3.2	7
85	Natural and Anthropogenic Disasters: An Overview. , 2010, , 1-16.		7
86	A Novel GIS-Based Modeling Approach for Evaluating Aquifer Susceptibility to Anthropogenic Contamination. Sustainability, 2022, 14, 4538.	3.2	7
87	A data-driven approach for analyzing dynamics of tide–aquifer interaction in coastal aquifer systems. Environmental Earth Sciences, 2012, 65, 1333-1355.	2.7	6
88	Evaluation of groundwater resources for sustainable groundwater development in a semiarid river basin of India. Environmental Earth Sciences, 2017, 76, 1.	2.7	6
89	CHLOROPHYLLMETER-BASED NITROGEN MANAGEMENT OF WHEAT IN EASTERN INDIA. Experimental Agriculture, 2018, 54, 349-362.	0.9	6
90	Chlorophyll Meter-Based Nitrogen Management in a Rice–Wheat Cropping System in Eastern India. International Journal of Plant Production, 2020, 14, 355-371.	2.2	6

#	Article	IF	CITATIONS
91	Methods for Time Series Analysis. , 2012, , 51-84.		6
92	Framework for Standardizing Less Data-Intensive Methods of Reference Evapotranspiration Estimation. Water Resources Management, 2018, 32, 4159-4175.	3.9	5
93	On the estimation of hydraulic conductivity of layered vadose zones with limited data availability. Journal of Earth System Science, 2019, 128, 1.	1.3	5
94	OPTIMAL DEVELOPMENT OF GROUNDWATER IN A WELL COMMAND OF EASTERN INDIA USING INTEGRATED SIMULATION AND OPTIMIZATION MODELLING. Irrigation and Drainage, 2013, 62, 363-376.	1.7	4
95	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.	1.3	4
96	Development of a rainfall Stability Index using probabilistic indicators. Ecological Indicators, 2020, 115, 106406.	6.3	4
97	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.	5.0	4
98	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.	2.9	4
99	Sustainable Management of Groundwater Resources in Developing Countries: Constraints and Challenges. , 2013, , 325-348.		2
100	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.	0.5	2
101	Management of groundwater drought risk by reliability theory and copula model in Sina basin, India. Sustainable Water Resources Management, 2022, 8, 1.	2.1	2
102	Effective Utilization of Chaurs in North Bihar, India. Biosystems Engineering, 1995, 60, 237-247.	0.4	1
103	Hydrologic and hydrogeologic analyses of an alluvial aquifer underlying Kushabhadra-Bhargavi River basin, Odisha, India. Arabian Journal of Geosciences, 2016, 9, 1.	1.3	1
104	Probability-based approach for evaluating groundwater risk assessment in Sina basin, India. , 2020, , 289-304.		1
105	Current Status of Time Series Analysis in Hydrological Sciences. , 2012, , 96-136.		1
106	Analysis of Trends in Low-Flow Time Series of Canadian Rivers. , 2012, , 201-221.		1
107	Efficacy of Tide-Aquifer Interaction Models for Characterizing Coastal Aquifer Systems. , 2013, , 435-444.		1
108	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

#	Article	IF	CITATIONS
109	Ensuring sustainable water supplies: A study of groundwater conditions in Salboni Block, West Bengal. Environmental Quality Management, 2008, 18, 29-46.	1.9	0
110	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.	1.0	0
111	On the Basic Stochastic Characteristics (Moments) of Global Annual Precipitations. Journal of Rainwater Catchment Systems, 2004, 10, 7-14.	0.2	0
112	Sustainable Management of Disasters: Challenges and Prospects. , 2010, , 598-609.		0
113	Potential of Geospatial Technologies for Mitigating Land and Water Related Disasters. , 2010, , 469-502.		0
114	Decision Support System: Concept and Potential for Integrated Water Resources Management. , 2010, , 503-535.		0
115	Efficacy of Time Series Tests: A Critical Assessment. , 2012, , 139-164.		0
116	CIS-Based Probabilistic Models as Spatial Prediction Tools for Mapping Regional Groundwater Potential. , 2016, , 85-98.		0
117	Ground Water Contamination: Recent Advances in Identifying Sources. , 2017, , 97-134.		0
118	Scientific Framework For Subsurface Characterization and Evaluation of Grain-Size Analysis Methods. , 2019, , 261-272.		0
119	Long-term geochemical assessment of groundwater in a hardrock aquifer system. International Journal of Agricultural Engineering, 2019, 12, 264-285.	0.0	0
120	Trends and Variability of Rainfall in Tripura State of India in 1986–2019 and Key Drivers. Pure and Applied Geophysics, 0, , 1.	1.9	0
121	Thank You to Our 2021 Reviewers. Water Resources Research, 2022, 58, .	4.2	0