Adarsh S

List of Publications by Year
in descending order

72 papers	865 citations	516215 16 h-index	580395 25 g-index
73 all docs	73 docs citations	73 times ranked	702 citing authors

#	Article	IF	Citations
1	Trend analysis of rainfall in four meteorological subdivisions of southern India using nonparametric methods and discrete wavelet transforms. International Journal of Climatology, 2015, 35, 1107-1124.	1.5	99
2	Multiscale characterization and prediction of monsoon rainfall in India using Hilbertâ€"Huang transform and time-dependent intrinsic correlation analysis. Meteorology and Atmospheric Physics, 2018, 130, 667-688.	0.9	44
3	On the complexities of sediment load modeling using integrative machine learning: Application of the great river of LoÃza in Puerto Rico. Journal of Hydrology, 2020, 585, 124759.	2.3	39
4	Multifractal characterization of meteorological drought in India using detrended fluctuation analysis. International Journal of Climatology, 2019, 39, 4234-4255.	1.5	37
5	Multifractal description of daily rainfall fields over India. Journal of Hydrology, 2020, 586, 124913.	2.3	37
6	A novel approach for predicting daily pan evaporation in the coastal regions of Iran using support vector regression coupled with krill herd algorithm model. Theoretical and Applied Climatology, 2020, 142, 349-367.	1.3	32
7	A multivariate EMD-LSTM model aided with Time Dependent Intrinsic Cross-Correlation for monthly rainfall prediction. Applied Soft Computing Journal, 2022, 123, 108941.	4.1	29
8	Analyzing the Hydroclimatic Teleconnections of Summer Monsoon Rainfall in Kerala, India, Using Multivariate Empirical Mode Decomposition and Time-Dependent Intrinsic Correlation. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1221-1225.	1.4	28
9	Evaluation of trends and predictability of shortâ€term droughts in three meteorological subdivisions of India using multivariate EMDâ€based hybrid modelling. Hydrological Processes, 2019, 33, 130-143.	1.1	24
10	Adaptive EEMD-ANN hybrid model for Indian summer monsoon rainfall forecasting. Theoretical and Applied Climatology, 2020, 141, 1-17.	1.3	24
11	Modeling future irrigation water demands in the context of climate change: a case study of Jayakwadi command area, India. Modeling Earth Systems and Environment, 2021, 7, 1963-1977.	1.9	24
12	Developing hourly intensity duration frequency curves for urban areas in India using multivariate empirical mode decomposition and scaling theory. Stochastic Environmental Research and Risk Assessment, 2018, 32, 1889-1902.	1.9	23
13	Chance Constrained Optimal Design of Composite Channels Using Meta-Heuristic Techniques. Water Resources Management, 2010, 24, 2221-2235.	1.9	22
14	Timeâ€"frequency characterization of sub-divisional scale seasonal rainfall in India using the Hilbertâ€"Huang transform. Stochastic Environmental Research and Risk Assessment, 2016, 30, 1063-1085.	1.9	22
15	Reliability analysis of composite channels using first order approximation and Monte Carlo simulations. Stochastic Environmental Research and Risk Assessment, 2013, 27, 477-487.	1.9	21
16	Scale dependent prediction of reference evapotranspiration based on Multi-Variate Empirical mode decomposition. Ain Shams Engineering Journal, 2018, 9, 1839-1848.	3.5	20
17	Multiscale Characterization and Prediction of Reservoir Inflows Using MEMD-SLR Coupled Approach. Journal of Hydrologic Engineering - ASCE, 2019, 24, .	0.8	17
18	Ranking of gridded precipitation datasets by merging compromise programming and global performance index: a case study of the Amu Darya basin. Theoretical and Applied Climatology, 2021, 144, 985-999.	1.3	17

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19	Overtopping Probability Constrained Optimal Design of Composite Channels Using Swarm Intelligence Technique. Journal of Irrigation and Drainage Engineering - ASCE, 2010, 136, 532-542.	0.6	16
20	Modeling the concurrent impact of extreme rainfall and reservoir storage on Kerala floods 2018: a Copula approach. Modeling Earth Systems and Environment, 2019, 5, 1283-1296.	1.9	16
21	Multifractal description of streamflow and suspended sediment concentration data from Indian river basins. Acta Geophysica, 2020, 68, 519-535.	1.0	16
22	Multiscale coherence analysis of reference evapotranspiration of north-western Iran using wavelet transform. Journal of Water and Climate Change, 2022, 13, 505-521.	1.2	15
23	Multiscale characterization of streamflow and suspended sediment concentration data using Hilbertâ€"Huang transform and time dependent intrinsic correlation analysis. Modeling Earth Systems and Environment, 2016, 2, 1-17.	1.9	14
24	Empirical forecasting and Indian Ocean dipole teleconnections of southâ€"west monsoon rainfall in Kerala. Meteorology and Atmospheric Physics, 2019, 131, 1055-1065.	0.9	14
25	Flood prediction based on climatic signals using wavelet neural network. Acta Geophysica, 2021, 69, 1413-1426.	1.0	14
26	Developing Short Term Drought Severity-Duration-Frequency Curves for Kerala Meteorological Subdivision, India Using Bivariate Copulas. KSCE Journal of Civil Engineering, 2018, 22, 962-973.	0.9	13
27	Hybridized Deep Learning Model for Perfobond Rib Shear Strength Connector Prediction. Complexity, 2021, 2021, 1-21.	0.9	11
28	Multiscale Analysis of Suspended Sediment Concentration Data from Natural Channels Using the Hilbert-Huang Transform. Aquatic Procedia, 2015, 4, 780-788.	0.9	10
29	Links Between Global Climate Teleconnections and Indian Monsoon Rainfall. , 2019, , 61-72.		10
30	Prediction of Ultimate Bearing Capacity of Cohesionless Soils Using Soft Computing Techniques. , 2012, 2012, 1-10.		9
31	Multiscale running correlation analysis of water quality datasets of Noyyal River, India, using the Hilbertâ€"Huang Transform. International Journal of Environmental Science and Technology, 2020, 17, 1251-1270.	1.8	9
32	Spatiotemporal variability of multifractal properties of fineresolution daily gridded rainfall fields over India. Natural Hazards, 2021, 106, 1951-1979.	1.6	9
33	Unveiling the multiscale teleconnection between Pacific Decadal Oscillation and global surface temperature using time-dependent intrinsic correlation analysis. International Journal of Climatology, 2017, 37, 548-558.	1.5	8
34	Multifractal Cross Correlation Analysis of Agro-Meteorological Datasets (Including Reference) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142	1.0	8
35	Modeling parametric uncertainty in optimal open channel design using FORM-PGSL coupled approach. Stochastic Environmental Research and Risk Assessment, 2012, 26, 709-720.	1.9	7
36	Analyzing the Hydrologic Variability of Kallada River, India Using Continuous Wavelet Transform and Fractal Theory. Water Conservation Science and Engineering, 2018, 3, 305-319.	0.9	7

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37	A predictive model for salt intrusion in estuaries applied to the Muthupet estuary (India) and Bouregreg estuary (Morocco). ISH Journal of Hydraulic Engineering, 2020, 26, 430-447.	1.1	7
38	Minimum Cost Design of Irrigation Canals Using Probabilistic Global Search Lausanne. Arabian Journal for Science and Engineering, 2013, 38, 2631-2637.	1.1	6
39	Probabilistic multi-objective optimal design of composite channels using particle swarm optimization. Journal of Hydraulic Research/De Recherches Hydrauliques, 2013, 51, 459-464.	0.7	6
40	Trend analysis of sediment flux time series from tropical river basins in India using non-parametric tests and multiscale decomposition. Modeling Earth Systems and Environment, 2016, 2, 1-16.	1.9	6
41	Investigating the multiscale variability and teleconnections of extreme temperature over Southern India using the Hilbert–Huang transform. Modeling Earth Systems and Environment, 2017, 3, 1.	1.9	6
42	Unravelling the scaling characteristics of daily streamflows of Brahmani river basin, India, using arbitrary-order Hilbert spectral and detrended fluctuation analyses. SN Applied Sciences, 2019, 1, 1.	1.5	6
43	RANKING OF CMIP5-BASED GENERAL CIRCULATION MODELS USING COMPROMISE PROGRAMMING AND TOPSIS FOR PRECIPITATION: A CASE STUDY OF UPPER GODAVARI BASIN, INDIA. International Journal of Big Data Mining for Global Warming, 2020, 02, 2050007.	0.5	6
44	Credibility of design rainfall estimates for drainage infrastructures: extent of disregard in Nigeria and proposed framework for practice. Natural Hazards, 0, , 1.	1.6	5
45	Multifractal characterization and cross correlations of reference evapotranspiration time series of India. European Physical Journal: Special Topics, 2021, 230, 3845-3859.	1.2	5
46	Slope–stability–constrained design of irrigation canals using particle swarm optimization. Irrigation and Drainage, 2011, 60, 590-599.	0.8	4
47	Incorporation of non-stationarity in precipitation intensity-duration-frequency curves for Kerala, India. IOP Conference Series: Earth and Environmental Science, 2020, 491, 012013.	0.2	4
48	Use of Particle Swarm Optimization for Optimal Design of Composite Channels. Journal of Intelligent Systems, 2010, 19, .	1.2	3
49	Briefing: Design of minimum water loss canals using swarm intelligence. Water Management, 2012, 165, 3-7.	0.4	3
50	Optimal design of drainage channels using probabilistic search. Water Management, 2013, 166, 285-300.	0.4	3
51	Gravitational search algorithm for probabilistic design of HBPS canals. ISH Journal of Hydraulic Engineering, 2015, 21, 290-297.	1.1	3
52	Developing stage–discharge relationships using multivariate empirical mode decomposition-based hybrid modeling. Applied Water Science, 2018, 8, 1.	2.8	3
53	An investigation on drought teleconnection with indian ocean dipole and el-nino southern oscillation for peninsular india using time dependent intrinsic correlation. IOP Conference Series: Earth and Environmental Science, 2020, 491, 012007.	0.2	3
54	Assessment of hydrogeochemical processes in the aquifers of Coimbatore city, India with special reference to nickel contamination. Groundwater for Sustainable Development, 2020, 11, 100393.	2.3	3

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55	Analyzing the non-linear trend and multiscale teleconnections of regional monsoon indices using empirical mode decomposition. Modeling Earth Systems and Environment, 2017, 3, 669-682.	1.9	2
56	Implications of turbulence shear by non-cohesive sediments on the break-up of kaolin flocs. Regional Studies in Marine Science, 2020, 39, 101427.	0.4	2
57	An investigation into the impact of reservoir management Kerala floods 2018: A case study of the Kakki reservoir. IOP Conference Series: Earth and Environmental Science, 2020, 491, 012005.	0.2	2
58	Spatial downscaling of radar-derived rainfall field by two-dimensional wavelet transform. Hydrology Research, 2020, 51, 456-469.	1.1	2
59	Investigating the multiscale teleconnections of Maddenâ€"Julian oscillation and monthly rainfall using time-dependent intrinsic cross-correlation. Natural Hazards, 2022, 112, 1795-1822.	1.6	2
60	Investigating the Drought Teleconnections of Peninsular India Using Partial and Multiple Wavelet Coherence. Lecture Notes in Civil Engineering, 2022, , 511-523.	0.3	2
61	On the detection and attribution of streamflow persistence of rivers in Peninsular India. Acta Geophysica, 2022, 70, 1373-1383.	1.0	2
62	Analysing the Variability of Streamflow and Suspended Sediment Concentration Using Time Dependent Intrinsic Correlation. Procedia Technology, 2016, 24, 54-61.	1.1	1
63	Investigation and comparison of one-dimensional (1-D) analytical models prediction for salt intrusion condition in two selected estuaries. Marine Georesources and Geotechnology, 2020, 38, 374-384.	1.2	1
64	Liquefaction Susceptibility Mapping of Kollam Coastal Stretch, Kerala, Considering Geotechnical Parameters. Lecture Notes in Civil Engineering, 2021, , 471-480.	0.3	1
65	Multiscale modelling of monthly streamflows using MEMD-GP coupled approach. International Journal of River Basin Management, 2020, 18, 139-151.	1.5	0
66	Application of artificial intelligence techniques in prediction of cyclic resistance ratio (CRR) of clean sands. IOP Conference Series: Earth and Environmental Science, 2020, 491, 012048.	0.2	0
67	Analyzing the streamflow-sediment links of three major river basins in India using multifractal theory. IOP Conference Series: Earth and Environmental Science, 2020, 491, 012006.	0.2	0
68	Multifractal fingerprinting of fine resolution daily gridded rainfall of Kerala meteorological subdivision, India using detrended fluctuation analysis. AIP Conference Proceedings, 2021, , .	0.3	0
69	Air quality in five major cities of India induced by the COVID-19 pandemic lockdown. Toxicological and Environmental Chemistry, 2021, 103, 50-55.	0.6	0
70	Multiscale Modelling of Daily Suspended Sediment Load Using MEMD-SLR Coupled Approach. Advances in Computational Intelligence and Robotics Book Series, 2018, , 264-275.	0.4	0
71	Strain Energy-Based Modeling of Soil Liquefaction Using Data-Driven Techniques. Lecture Notes in Civil Engineering, 2021, , 727-737.	0.3	0
72	Spatiotemporal Analysis of Drought Persistence of Peninsular India. Lecture Notes in Civil Engineering, 2022, , 253-264.	0.3	0