Upaka S Rathnayake

List of Publications by Year
in descending order

49	593	686830 13	752256 20
papers	citations	h-index	g-index

49	49	49	328
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Comparing Combined 1D/2D and 2D Hydraulic Simulations Using High-Resolution Topographic Data: Examples from Sri Lankaâ€"Lower Kelani River Basin. Hydrology, 2022, 9, 39.	1.3	10
2	Spatiotemporal rainfall variability and trend analysis over Mahaweli Basin, Sri Lanka. Arabian Journal of Geosciences, 2022, 15, 1.	0.6	14
3	Evaluation of Future Streamflow in the Upper Part of the Nilwala River Basin (Sri Lanka) under Climate Change. Hydrology, 2022, 9, 48.	1.3	14
4	Impact of Climate Change and Variability on Spatiotemporal Variation of Forest Cover; World Heritage Sinharaja Rainforest, Sri Lanka. Forest and Society, 2022, 6, .	0.3	2
5	Column Study for Adsorption of Copper and Cadmium Using Activated Carbon Derived from Sewage Sludge. Advances in Civil Engineering, 2022, 2022, 1-11.	0.4	14
6	Greywater adsorption into soil during irrigation. Applied Water Science, 2022, 12, .	2.8	0
7	A Cascaded Adaptive Network-Based Fuzzy Inference System for Hydropower Forecasting. Sensors, 2022, 22, 2905.	2.1	10
8	Estimation of Potential Evapotranspiration across Sri Lanka Using a Distributed Dual-Source Evapotranspiration Model under Data Scarcity. Advances in Meteorology, 2022, 2022, 1-14.	0.6	2
9	A Simplified Mathematical Formulation for Water Quality Index (WQI): A Case Study in the Kelani River Basin, Sri Lanka. Fluids, 2022, 7, 147.	0.8	10
10	Evaluation of Satellite Rainfall Products over the Mahaweli River Basin in Sri Lanka. Advances in Meteorology, 2022, 2022, 1-20.	0.6	9
11	Forecasting Electricity Power Generation of Pawan Danavi Wind Farm, Sri Lanka, Using Gene Expression Programming. Applied Computational Intelligence and Soft Computing, 2022, 2022, 1-11.	1.6	0
12	Interpretation of Machine-Learning-Based (Black-box) Wind Pressure Predictions for Low-Rise Gable-Roofed Buildings Using Shapley Additive Explanations (SHAP). Buildings, 2022, 12, 734.	1.4	18
13	Multidecadal Land Use Patterns and Land Surface Temperature Variation in Sri Lanka. Applied and Environmental Soil Science, 2022, 2022, 1-11.	0.8	2
14	Predicting Bulk Average Velocity with Rigid Vegetation in Open Channels Using Tree-Based Machine Learning: A Novel Approach Using Explainable Artificial Intelligence. Sensors, 2022, 22, 4398.	2.1	11
15	An Efficient Automatic Fruit-360 Image Identification and Recognition Using a Novel Modified Cascaded-ANFIS Algorithm. Sensors, 2022, 22, 4401.	2.1	12
16	Analysis of Meandering River Morphodynamics Using Satellite Remote Sensing Dataâ€"An Application in the Lower Deduru Oya (River), Sri Lanka. Land, 2022, 11, 1091.	1.2	5
17	Influence of Crumb Rubber and Coconut Coir on Strength and Durability Characteristics of Interlocking Paving Blocks. Buildings, 2022, 12, 1001.	1.4	5
18	Static optimal control of combined sewer networks under enhanced cost functions to minimize the adverse environmental effects. ISH Journal of Hydraulic Engineering, 2021, 27, 210-223.	1.1	4

#	Article	IF	Citations
19	Artificial neural network based PERSIANN data sets in evaluation of hydrologic utility of precipitation estimations in a tropical watershed of Sri Lanka. AIMS Geosciences, 2021, 7, 478-489.	0.4	8
20	Ecosystem-Based Adaptation for the Impact of Climate Change and Variation in the Water Management Sector of Sri Lanka. Mathematical Problems in Engineering, 2021, 2021, 1-10.	0.6	6
21	Forecasting Wind Power Generation Using Artificial Neural Network: â€œPawan Danawiâ€â€”A Case Study from Sri Lanka. Journal of Electrical and Computer Engineering, 2021, 2021, 1-10.	0.6	19
22	Hydrological Models and Artificial Neural Networks (ANNs) to Simulate Streamflow in a Tropical Catchment of Sri Lanka. Applied Computational Intelligence and Soft Computing, 2021, 2021, 1-9.	1.6	17
23	Development of Wind Power Prediction Models for Pawan Danavi Wind Farm in Sri Lanka. Mathematical Problems in Engineering, 2021, 2021, 1-13.	0.6	7
24	Regression-Based Prediction of Power Generation at Samanalawewa Hydropower Plant in Sri Lanka Using Machine Learning. Mathematical Problems in Engineering, 2021, 2021, 1-12.	0.6	12
25	A new hybrid fuzzy time series model with an application to predict PM10 concentration. Ecotoxicology and Environmental Safety, 2021, 227, 112875.	2.9	15
26	Hydrologic Utility of Satellite-Based and Gauge-Based Gridded Precipitation Products in the Huai Bang Sai Watershed of Northeastern Thailand. Hydrology, 2021, 8, 165.	1.3	8
27	Projected Moisture Index (MI) for Tropical Sri Lanka. Advances in Civil Engineering, 2021, 2021, 1-19.	0.4	0
28	Comparison of Different Analyzing Techniques in Identifying Rainfall Trends for Colombo, Sri Lanka. Advances in Meteorology, 2020, 2020, 1-10.	0.6	8
29	Statistical evaluation and hydrologic simulation capacity of different satellite-based precipitation products (SbPPs) in the Upper Nan River Basin, Northern Thailand. Journal of Hydrology: Regional Studies, 2020, 32, 100743.	1.0	12
30	Evaluation of Future Climate and Potential Impact on Streamflow in the Upper Nan River Basin of Northern Thailand. Advances in Meteorology, 2020, 2020, 1-15.	0.6	23
31	Projection of Future Hydropower Generation in Samanalawewa Power Plant, Sri Lanka. Mathematical Problems in Engineering, 2020, 2020, 1-11.	0.6	16
32	Artificial Neural Network to Estimate the Paddy Yield Prediction Using Climatic Data. Mathematical Problems in Engineering, 2020, 2020, 1-11.	0.6	43
33	Relationships between Hydropower Generation and Rainfall-Gauged and Ungauged Catchments from Sri Lanka. Mathematical Problems in Engineering, 2020, 2020, 1-8.	0.6	2
34	Inflow Forecast of Iranamadu Reservoir, Sri Lanka, under Projected Climate Scenarios Using Artificial Neural Networks. Applied Computational Intelligence and Soft Computing, 2020, 2020, 1-11.	1.6	13
35	Comparison of Statistical, Graphical, and Wavelet Transform Analyses for Rainfall Trends and Patterns in Badulu Oya Catchment, Sri Lanka. Complexity, 2020, 2020, 1-13.	0.9	10
36	Impact of climate variability on hydropower generation: A case study from Sri Lanka. ISH Journal of Hydraulic Engineering, 2020, 26, 301-309.	1.1	22

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37	Climate Variation and Hydropower Generation in Samanalawewa Hydropower Scheme, Sri Lanka. Engineer: Journal of the Institution of Engineers, Sri Lanka, 2020, 53, 19.	0.1	1
38	Comparison of Statistical Methods to Graphical Methods in Rainfall Trend Analysis: Case Studies from Tropical Catchments. Advances in Meteorology, 2019, 2019, 1-10.	0.6	21
39	Dynamic control of urban sewer systems to reduce combined sewer overflows and their adverse impacts. Journal of Hydrology, 2019, 579, 124150.	2.3	35
40	Rainfall Trend Analysis in Uma Oya Basin, Sri Lanka, and Future Water Scarcity Problems in Perspective of Climate Variability. Advances in Meteorology, 2019, 2019, 1-10.	0.6	20
41	Impact of climate variability on hydropower generation in an un-gauged catchment: Erathna run-of-the-river hydropower plant, Sri Lanka. Applied Water Science, 2019, 9, 1.	2.8	13
42	Rainfall and Atmospheric Temperature against the Other Climatic Factors: A Case Study from Colombo, Sri Lanka. Mathematical Problems in Engineering, 2019, 2019, 1-15.	0.6	13
43	Gene expression programming and artificial neural network to estimate atmospheric temperature in Tabuk, Saudi Arabia. Applied Water Science, 2018, 8, 1.	2.8	20
44	Effect of pollution on diversity of marine gastropods and its role in trophic structure at Nasese Shore, Suva, Fiji Islands. Journal of Asia-Pacific Biodiversity, 2017, 10, 192-198.	0.2	13
45	Two consecutive storms and optimal control of urban sewer networks to minimize the pollution load of combined sewer systems. Sustainable Water Resources Management, 2017, 3, 33-40.	1.0	5
46	Review of binary tournament constraint handling technique in NSGA II for optimal control of combined sewer systems. Journal of Information and Optimization Sciences, 2016, 37, 37-49.	0.2	5
47	Diversity and distribution of fauna of the Nasese Shore, Suva, Fiji Islands with reference to existing threats to the biota. Journal of Asia-Pacific Biodiversity, 2016, 9, 11-16.	0.2	9
48	Migrating Storms and Optimal Control of Urban Sewer Networks. Hydrology, 2015, 2, 230-241.	1.3	18
49	Evolutionary Multi-Objective Optimal Control of Combined Sewer Overflows. Water Resources Management, 2015, 29, 2715-2731.	1.9	37