

# Upaka S Rathnayake

## List of Publications by Year in descending order

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49  
papers

593  
citations

686830

13  
h-index

752256

20  
g-index

49  
all docs

49  
docs citations

49  
times ranked

328  
citing authors

#	ARTICLE	IF	CITATIONS
1	Artificial Neural Network to Estimate the Paddy Yield Prediction Using Climatic Data. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-11.	0.6	43
2	Evolutionary Multi-Objective Optimal Control of Combined Sewer Overflows. <i>Water Resources Management</i> , 2015, 29, 2715-2731.	1.9	37
3	Dynamic control of urban sewer systems to reduce combined sewer overflows and their adverse impacts. <i>Journal of Hydrology</i> , 2019, 579, 124150.	2.3	35
4	Evaluation of Future Climate and Potential Impact on Streamflow in the Upper Nan River Basin of Northern Thailand. <i>Advances in Meteorology</i> , 2020, 2020, 1-15.	0.6	23
5	Impact of climate variability on hydropower generation: A case study from Sri Lanka. <i>ISH Journal of Hydraulic Engineering</i> , 2020, 26, 301-309.	1.1	22
6	Comparison of Statistical Methods to Graphical Methods in Rainfall Trend Analysis: Case Studies from Tropical Catchments. <i>Advances in Meteorology</i> , 2019, 2019, 1-10.	0.6	21
7	Gene expression programming and artificial neural network to estimate atmospheric temperature in Tabuk, Saudi Arabia. <i>Applied Water Science</i> , 2018, 8, 1.	2.8	20
8	Rainfall Trend Analysis in Uma Oya Basin, Sri Lanka, and Future Water Scarcity Problems in Perspective of Climate Variability. <i>Advances in Meteorology</i> , 2019, 2019, 1-10.	0.6	20
9	Forecasting Wind Power Generation Using Artificial Neural Network: “Pawan Danawi” A Case Study from Sri Lanka. <i>Journal of Electrical and Computer Engineering</i> , 2021, 2021, 1-10.	0.6	19
10	Migrating Storms and Optimal Control of Urban Sewer Networks. <i>Hydrology</i> , 2015, 2, 230-241.	1.3	18
11	Interpretation of Machine-Learning-Based (Black-box) Wind Pressure Predictions for Low-Rise Gable-Roofed Buildings Using Shapley Additive Explanations (SHAP). <i>Buildings</i> , 2022, 12, 734.	1.4	18
12	Hydrological Models and Artificial Neural Networks (ANNs) to Simulate Streamflow in a Tropical Catchment of Sri Lanka. <i>Applied Computational Intelligence and Soft Computing</i> , 2021, 2021, 1-9.	1.6	17
13	Projection of Future Hydropower Generation in Samanalawewa Power Plant, Sri Lanka. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-11.	0.6	16
14	A new hybrid fuzzy time series model with an application to predict PM10 concentration. <i>Ecotoxicology and Environmental Safety</i> , 2021, 227, 112875.	2.9	15
15	Spatiotemporal rainfall variability and trend analysis over Mahaweli Basin, Sri Lanka. <i>Arabian Journal of Geosciences</i> , 2022, 15, 1.	0.6	14
16	Evaluation of Future Streamflow in the Upper Part of the Nilwala River Basin (Sri Lanka) under Climate Change. <i>Hydrology</i> , 2022, 9, 48.	1.3	14
17	Column Study for Adsorption of Copper and Cadmium Using Activated Carbon Derived from Sewage Sludge. <i>Advances in Civil Engineering</i> , 2022, 2022, 1-11.	0.4	14
18	Effect of pollution on diversity of marine gastropods and its role in trophic structure at Nasese Shore, Suva, Fiji Islands. <i>Journal of Asia-Pacific Biodiversity</i> , 2017, 10, 192-198.	0.2	13

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19	Impact of climate variability on hydropower generation in an un-gauged catchment: Erathna run-of-the-river hydropower plant, Sri Lanka. <i>Applied Water Science</i> , 2019, 9, 1.	2.8	13
20	Inflow Forecast of Iranamadu Reservoir, Sri Lanka, under Projected Climate Scenarios Using Artificial Neural Networks. <i>Applied Computational Intelligence and Soft Computing</i> , 2020, 2020, 1-11.	1.6	13
21	Rainfall and Atmospheric Temperature against the Other Climatic Factors: A Case Study from Colombo, Sri Lanka. <i>Mathematical Problems in Engineering</i> , 2019, 2019, 1-15.	0.6	13
22	Statistical evaluation and hydrologic simulation capacity of different satellite-based precipitation products (SbPPs) in the Upper Nan River Basin, Northern Thailand. <i>Journal of Hydrology: Regional Studies</i> , 2020, 32, 100743.	1.0	12
23	Regression-Based Prediction of Power Generation at Samanalawewa Hydropower Plant in Sri Lanka Using Machine Learning. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-12.	0.6	12
24	An Efficient Automatic Fruit-360 Image Identification and Recognition Using a Novel Modified Cascaded-ANFIS Algorithm. <i>Sensors</i> , 2022, 22, 4401.	2.1	12
25	Predicting Bulk Average Velocity with Rigid Vegetation in Open Channels Using Tree-Based Machine Learning: A Novel Approach Using Explainable Artificial Intelligence. <i>Sensors</i> , 2022, 22, 4398.	2.1	11
26	Comparison of Statistical, Graphical, and Wavelet Transform Analyses for Rainfall Trends and Patterns in Badulu Oya Catchment, Sri Lanka. <i>Complexity</i> , 2020, 2020, 1-13.	0.9	10
27	Comparing Combined 1D/2D and 2D Hydraulic Simulations Using High-Resolution Topographic Data: Examples from Sri Lanka's Lower Kelani River Basin. <i>Hydrology</i> , 2022, 9, 39.	1.3	10
28	A Cascaded Adaptive Network-Based Fuzzy Inference System for Hydropower Forecasting. <i>Sensors</i> , 2022, 22, 2905.	2.1	10
29	A Simplified Mathematical Formulation for Water Quality Index (WQI): A Case Study in the Kelani River Basin, Sri Lanka. <i>Fluids</i> , 2022, 7, 147.	0.8	10
30	Diversity and distribution of fauna of the Nasese Shore, Suva, Fiji Islands with reference to existing threats to the biota. <i>Journal of Asia-Pacific Biodiversity</i> , 2016, 9, 11-16.	0.2	9
31	Evaluation of Satellite Rainfall Products over the Mahaweli River Basin in Sri Lanka. <i>Advances in Meteorology</i> , 2022, 2022, 1-20.	0.6	9
32	Comparison of Different Analyzing Techniques in Identifying Rainfall Trends for Colombo, Sri Lanka. <i>Advances in Meteorology</i> , 2020, 2020, 1-10.	0.6	8
33	Artificial neural network based PERSIANN data sets in evaluation of hydrologic utility of precipitation estimations in a tropical watershed of Sri Lanka. <i>AIMS Geosciences</i> , 2021, 7, 478-489.	0.4	8
34	Hydrologic Utility of Satellite-Based and Gauge-Based Gridded Precipitation Products in the Huai Bang Sai Watershed of Northeastern Thailand. <i>Hydrology</i> , 2021, 8, 165.	1.3	8
35	Development of Wind Power Prediction Models for Pawan Danavi Wind Farm in Sri Lanka. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-13.	0.6	7
36	Ecosystem-Based Adaptation for the Impact of Climate Change and Variation in the Water Management Sector of Sri Lanka. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-10.	0.6	6

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37	Review of binary tournament constraint handling technique in NSGA II for optimal control of combined sewer systems. <i>Journal of Information and Optimization Sciences</i> , 2016, 37, 37-49.	0.2	5
38	Two consecutive storms and optimal control of urban sewer networks to minimize the pollution load of combined sewer systems. <i>Sustainable Water Resources Management</i> , 2017, 3, 33-40.	1.0	5
39	Analysis of Meandering River Morphodynamics Using Satellite Remote Sensing Data—An Application in the Lower Deduru Oya (River), Sri Lanka. <i>Land</i> , 2022, 11, 1091.	1.2	5
40	Influence of Crumb Rubber and Coconut Coir on Strength and Durability Characteristics of Interlocking Paving Blocks. <i>Buildings</i> , 2022, 12, 1001.	1.4	5
41	Static optimal control of combined sewer networks under enhanced cost functions to minimize the adverse environmental effects. <i>ISH Journal of Hydraulic Engineering</i> , 2021, 27, 210-223.	1.1	4
42	Relationships between Hydropower Generation and Rainfall-Gauged and Ungauged Catchments from Sri Lanka. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-8.	0.6	2
43	Impact of Climate Change and Variability on Spatiotemporal Variation of Forest Cover; World Heritage Sinharaja Rainforest, Sri Lanka. <i>Forest and Society</i> , 2022, 6, .	0.3	2
44	Estimation of Potential Evapotranspiration across Sri Lanka Using a Distributed Dual-Source Evapotranspiration Model under Data Scarcity. <i>Advances in Meteorology</i> , 2022, 2022, 1-14.	0.6	2
45	Multidecadal Land Use Patterns and Land Surface Temperature Variation in Sri Lanka. <i>Applied and Environmental Soil Science</i> , 2022, 2022, 1-11.	0.8	2
46	Climate Variation and Hydropower Generation in Samanalawewa Hydropower Scheme, Sri Lanka. <i>Engineer: Journal of the Institution of Engineers, Sri Lanka</i> , 2020, 53, 19.	0.1	1
47	Projected Moisture Index (MI) for Tropical Sri Lanka. <i>Advances in Civil Engineering</i> , 2021, 2021, 1-19.	0.4	0
48	Greywater adsorption into soil during irrigation. <i>Applied Water Science</i> , 2022, 12, .	2.8	0
49	Forecasting Electricity Power Generation of Pawan Danavi Wind Farm, Sri Lanka, Using Gene Expression Programming. <i>Applied Computational Intelligence and Soft Computing</i> , 2022, 2022, 1-11.	1.6	0