Subbarayan Saravanan

List of Publications by Year
in descending order

56	1,086	516561	454834
papers	citations	16	30
		h-index	g-index

58	58	58	912
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorption of Malachite Green dye onto activated carbon derived from Borassus aethiopum flower biomass. Journal of Hazardous Materials, 2010, 181, 271-280.	6.5	244
2	Groundwater potential zone mapping using analytical hierarchy process (AHP) and GIS for Kancheepuram District, Tamilnadu, India. Modeling Earth Systems and Environment, 2020, 6, 1105-1122.	1.9	126
3	GIS-based multi-criteria analysis for identification of potential groundwater recharge zones - a case study from Ponnaniyaru watershed, Tamil Nadu, India. HydroResearch, 2020, 3, 1-14.	1.7	98
4	Assessment of land use and land cover change detection and prediction using remote sensing and CA Markov in the northern coastal districts of Tamil Nadu, India. Environmental Science and Pollution Research, 2022, 29, 86055-86067.	2.7	47
5	Genetic programming based monthly groundwater level forecast models with uncertainty quantification. Modeling Earth Systems and Environment, 2016, 2, 1.	1.9	36
6	Artificial neural network and sensitivity analysis in the landslide susceptibility mapping of Idukki district, India. Geocarto International, 2022, 37, 5693-5715.	1.7	32
7	Simulation of monthly streamflow using the SWAT model of the Ib River watershed, India. HydroResearch, 2020, 3, 95-105.	1.7	24
8	Assessment of potentially vulnerable zones using geospatial approach along the coast of Cuddalore district, East coast of India. ISH Journal of Hydraulic Engineering, 2022, 28, 422-432.	1.1	23
9	Delineation of groundwater potential zone using analytical hierarchy process and GIS for Gundihalla watershed, Karnataka, India. Arabian Journal of Geosciences, 2020, 13, 1.	0.6	22
10	Assessment of Groundwater Vulnerability Using GIS and DRASTIC for Upper Palar River Basin, Tamil Nadu. Journal of the Geological Society of India, 2019, 94, 387-394.	0.5	21
11	Evolution of a hybrid approach for groundwater vulnerability assessment using hierarchical fuzzy-DRASTIC models in the Cuddalore Region, India. Environmental Earth Sciences, 2021, 80, 1.	1.3	20
12	Utility of Landsat Data for Assessing Mangrove Degradation in Muthupet Lagoon, South India. , 2019, , 471-484.		18
13	Impact of climate change on hydrology components using CORDEX South Asia climate model in Wunna, Bharathpuzha, and Mahanadi, India. Environmental Monitoring and Assessment, 2020, 192, 678.	1.3	18
14	Mamdani fuzzy based decision support system for prediction of groundwater quality: an application of soft computing in water resources. Environmental Science and Pollution Research, 2020, 27, 25535-25552.	2.7	18
15	Flood susceptibility mapping of Northeast coastal districts of Tamil Nadu India using Multi-source Geospatial data and Machine Learning techniques. Geocarto International, 2024, 37, 15252-15281.	1.7	18
16	Application of multi-influence factor (MIF) technique for the identification of suitable sites for urban settlement in Tiruchirappalli City, Tamil Nadu, India. Asia-Pacific Journal of Regional Science, 2021, 5, 797-823.	1.1	17
17	Delineation of groundwater potential zones for Arkavathi sub-watershed, Karnataka, India using remote sensing and GIS. Environmental Challenges, 2021, 5, 100380.	2.0	16
18	Assessment of groundwater vulnerability using analytical hierarchy process and evidential belief function with DRASTIC parameters, Cuddalore, India. International Journal of Environmental Science and Technology, 2023, 20, 1837-1856.	1.8	15

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19	Nanofiltration in Transforming Surface Water into Healthy Water: Comparison with Reverse Osmosis. Journal of Chemistry, 2015, 2015, 1-6.	0.9	14
20	Treatability studies of textile wastewater on an aerobic fluidized bed biofilm reactor (FABR): a case study. Water Science and Technology, 2009, 59, 1817-1821.	1.2	13
21	Geomorphology Based Semi-distributed Approach for Modeling Rainfall-runoff Modeling Using GIS. Aquatic Procedia, 2015, 4, 908-916.	0.9	13
22	Assessing Coastal Aquifer to Seawater Intrusion: Application of the GALDIT Method to the Cuddalore Aquifer, India. , 2019, , 233-250.		13
23	Integration of SAR and multi-spectral imagery in flood inundation mapping â€" a case study on Kerala floods 2018. ISH Journal of Hydraulic Engineering, 2022, 28, 480-490.	1.1	12
24	Impact of land-use change on soil erosion in the Coonoor Watershed, Nilgiris Mountain Range, Tamil Nadu, India. Arabian Journal of Geosciences, 2021, 14, 1.	0.6	12
25	GIS-Based Study on the Association Between Road Centrality and Socio-demographic Parameters: a Case Study. Journal of Geovisualization and Spatial Analysis, 2022, 6, 1.	2.1	12
26	Satellite-derived GRACE groundwater storage variation in complex aquifer system in India. Sustainable Water Resources Management, 2020, 6, 1.	1.0	11
27	Cyclone vulnerability assessment of cuddalore coast in Tamil Nadu, India using remote sensing, and GIS. MATEC Web of Conferences, 2018, 229, 02022.	0.1	10
28	Evaluation of various spatial rainfall datasets for streamflow simulation using SWAT model of Wunna basin, India. International Journal of River Basin Management, 2022, 20, 389-398.	1.5	10
29	Persistent Scatterer Interferometry in the post-event monitoring of the Idukki Landslides. Geocarto International, 2022, 37, 1514-1528.	1.7	10
30	Assessing the impact of 2018 tropical rainfall and the consecutive flood-related damages for the state of Kerala, India. , 2021, , 379-395.		10
31	Application of Frequency Ratio and Logistic Regression Model in the Assessment of Landslide Susceptibility Mapping for Nilgiris District, Tamilnadu, India. Indian Geotechnical Journal, 2021, 51, 773-787.	0.7	9
32	Monitoring Spatial and Temporal Scales of Shoreline Changes in the Cuddalore Region, India. , 2019, , 99-112.		8
33	Assessing the impact of damage and government response toward the cyclone Gaja in Tamil Nadu, India. , 2021, , 577-590.		8
34	Adaptation of satellite-based precipitation product to study runoff and sediment of Indian River watersheds. Arabian Journal of Geosciences, 2022, 15, 1.	0.6	8
35	Network constrained and classified spatial pattern analysis of healthcare facilities and their relationship with the road structure: a case study of Thiruvananthapuram city. Spatial Information Research, 0, , 1.	1.3	7
36	A comparative analysis on groundwater vulnerability modelsâ€"fuzzy DRASTIC and fuzzy DRASTIC-L. Environmental Science and Pollution Research, 2022, 29, 86005-86019.	2.7	7

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37	Delineation of Groundwater Potential Zones for Hard Rock Region in Karnataka Using AHP and GIS. Advances in Science, Technology and Innovation, 2019, , 315-317.	0.2	7
38	GIS Based Road Connectivity Evaluation Using Graph Theory. Lecture Notes in Civil Engineering, 2020, , 213-226.	0.3	7
39	Modelling of Flood Susceptibility Based on GIS and Analytical Hierarchy Processâ€"A Case Study of Adayar River Basin, Tamilnadu, India. Disaster Risk Reduction, 2020, , 91-110.	0.2	7
40	Morphometric analysis and prioritization of sub-watersheds of Himayatsagar catchment, Ranga Reddy District, Telangana, India using remote sensing and GIS techniques. International Journal of Systems Assurance Engineering and Management, 0, , 1.	1.5	6
41	Comparative study on treatment of cassava wastewater using free, immobilized and biofilm of Trichoderma harzianum - Trichoderma viride consortium. , 0, 156, 370-377.		6
42	Application of frequency ratio, analytical hierarchy process, and multi-influencing factor methods for delineating groundwater potential zones. International Journal of Environmental Science and Technology, 0, , 1.	1.8	6
43	Experimental Investigation of Response of Vertical Slender Cylinder under Breaking Wave Impact. Aquatic Procedia, 2015, 4, 227-233.	0.9	5
44	Impact of Land-use Change on Soil Erosion in the Coonoor Watershed, Nilgiris Mountain Range, Tamil Nadu, India. Advances in Science, Technology and Innovation, 2019, , 109-111.	0.2	5
45	Assessing streamflow modeling using single and multi-site calibration approach on Bharathpuzha catchment, India: a case study. Modeling Earth Systems and Environment, 0, , .	1.9	5
46	Assessment and evaluation of groundwater vulnerability index maps of Upper Palar River Basin, Tamilnadu, India. Journal of Earth System Science, 2020, 129, 1.	0.6	4
47	Contribution of SAR-driven displacement measurement in assessing the triggering factors of rainfall-induced landslides. Geocarto International, 2020, , 1-21.	1.7	4
48	Batch and column studies on the removal of methyl orange by Acalypha indica biomass using gravitational search algorithm as an optimization tool. , 0, 147, 385-397.		4
49	Evaluation of Blue and Green Water Using Combine Stream Flow and Soil Moisture Simulation in Wunna Watershed, India. Water Conservation Science and Engineering, 2022, 7, 211-225.	0.9	4
50	Integrated GIS and AHP techniques for land suitability assessment of cotton crop in Perambalur District, South India. International Journal of Systems Assurance Engineering and Management, 2024, 15, 267-278.	1.5	4
51	Spatial interdependence of fractal dimension and topological parameters of road network: a geographically weighted regression approach. Spatial Information Research, 2021, 29, 737-747.	1.3	2
52	Removal of solids from surfactant wastewater through synergetic utilization of Strychnos potatorum and Colocasia esculenta. , 0, 156, 357-369.		2
53	Modeling of flood events using spatially distributed unit hydrograph. , 2006, , .		1
54	A GIS-based spatially distributed crop water demand modelling for Pullambadi canal command area in lower Cauvery basin, Tamil Nadu, India. Arabian Journal of Geosciences, 2020, 13, 1.	0.6	0

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55	Virtual Learning System: A Conceptual Framework of Network Optimization. Advances in Intelligent and Soft Computing, 2012, , 789-795.	0.2	0
56	A GIS-Based Spatially Distributed Crop Water Demand Modelling for Pullambadi Canal Command Area in Lower Cauvery Basin, Tamil Nadu, India. Advances in Science, Technology and Innovation, 2019, , 33-35.	0.2	0