Raaj Ramsankaran

List of Publications by Year
in descending order

54 papers	1,160 citations	516561 16 h-index	414303 32 g-index
63 all docs	63 docs citations	63 times ranked	1601 citing authors

#	Article	IF	Citations
1	Semi-automated mapping of glacial lakes – a study in Sikkim Himalayas, India. Geocarto International, 2022, 37, 8254-8272.	1.7	4
2	Sensitivity‐Based Soil Moisture Assimilation for Improved Streamflow Forecast Using a Novel Forward Sensitivity Method (FSM) Approach. Water Resources Research, 2022, 58, .	1.7	3
3	Meteorological drought monitoring across the main river basins of Ethiopia using satellite rainfall product. Environmental Systems Research, 2022, 11, .	1.5	8
4	Assimilation of SMAP Products for Improving Streamflow Simulations over Tropical Climate Region—Is Spatial Information More Important Than Temporal Information?. Remote Sensing, 2022, 14, 1607.	1.8	9
5	Results from the Ice Thickness Models Intercomparison eXperiment Phase 2 (ITMIX2). Frontiers in Earth Science, 2021, 8, .	0.8	22
6	Error Analysis of TMPA Near Real-Time Precipitation Estimates for an Indian Monsoon Region. Water Science and Technology Library, 2021, , 529-540.	0.2	0
7	UAV-Based Survey of Glaciers in Himalayas: Challenges and Recommendations. Journal of the Indian Society of Remote Sensing, 2021, 49, 1171-1187.	1.2	18
8	Earth Observation and Hydraulic Data Assimilation for Improved Flood Inundation Forecasting. , 2021, , 255-294.		8
9	On the Impacts of Observation Location, Timing, and Frequency on Flood Extent Assimilation Performance. Water Resources Research, 2021, 57, e2020WR028238.	1.7	15
10	A Mutual Information‐Based Likelihood Function for Particle Filter Flood Extent Assimilation. Water Resources Research, 2021, 57, e2020WR027859.	1.7	15
11	A simple machine learning approach to model real-time streamflow using satellite inputs: Demonstration in a data scarce catchment. Journal of Hydrology, 2021, 595, 126046.	2.3	29
12	Modelling ice thickness distribution and volume of Patsio Glacier in Western Himalayas. Journal of Earth System Science, 2021, 130, 1.	0.6	7
13	Understanding the macro-micro dynamics of urban densification: A case study of different sized Indian cities. Land Use Policy, 2021, 107, 105469.	2.5	10
14	Modelling ice thickness and storage volume of svalbard glaciers monitored through Indian Arctic Programme. Polar Science, 2021, 30, 100741.	0.5	1
15	Estimation of recent changes in thickness and mass balance of the Patsio glacier in the Great Himalayan region using geodetic technique and ancillary data. Geocarto International, 2020, 35, 47-63.	1.7	9
16	Geospatial approach for assessing spatiotemporal dynamics of urban green space distribution among neighbourhoods: A demonstration in Mumbai. Urban Forestry and Urban Greening, 2020, 48, 126585.	2.3	26
17	Identification of Potential Sites for Future Lake Formation and Expansion of Existing Lakes in Glaciers of Chandra Basin, Western Himalayas, India. Frontiers in Earth Science, 2020, 8, .	0.8	9
18	Modeling ice thickness distribution and storage volume of glaciers in Chandra Basin, western Himalayas. Journal of Mountain Science, 2020, 17, 2011-2022.	0.8	15

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19	Machine learning techniques for regional scale estimation of high-resolution cloud-free daily sea surface temperatures from MODIS data. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 166, 228-240.	4.9	17
20	Decadal Estimates of Surface Mass Balance for Glaciers in Chandra Basin, Western Himalayas, India—A Geodetic Approach. , 2019, , 109-125.		6
21	GIS-based integrated multi-criteria modelling framework for watershed prioritisation in India—A demonstration in Marol watershed. Journal of Hydrology, 2019, 578, 124131.	2.3	10
22	Observational Needs of Sea Surface Temperature. Frontiers in Marine Science, 2019, 6, .	1.2	89
23	A Machine Learning Approach for Improving Near-Real-Time Satellite-Based Rainfall Estimates by Integrating Soil Moisture. Remote Sensing, 2019, 11, 2221.	1.8	26
24	Benchmarking the Indian National CartoDEM against SRTM for 1D hydraulic modelling. International Journal of River Basin Management, 2019, 17, 479-488.	1.5	3
25	Impact of Window Size in Remote Sensing Based Glacier Feature Tracking — a Study on Chhota Shigri Glacier, Western Himalayas, India. , 2019, , .		3
26	Investigating the performance of satellite and reanalysis rainfall products at monthly timescales across different rainfall regimes of Ethiopia. International Journal of Remote Sensing, 2019, 40, 4019-4042.	1.3	32
27	Linking remotely sensed Urban Green Space (UGS) distribution patterns and Socio-Economic Status (SES) - A multi-scale probabilistic analysis based in Mumbai, India. GIScience and Remote Sensing, 2019, 56, 645-669.	2.4	41
28	Error modelling for modified-INSAT multi-spectral rainfall algorithm. International Journal of Remote Sensing, 2018, 39, 1836-1852.	1.3	3
29	Spatially distributed ice-thickness modelling for Chhota Shigri Glacier in western Himalayas, India. International Journal of Remote Sensing, 2018, 39, 3320-3343.	1.3	49
30	GIS-based modelling of soil erosion processes using the modified-MMF (MMMF) model in a large watershed having vast agro-climatological differences. Earth Surface Processes and Landforms, 2018, 43, 2064-2076.	1.2	10
31	Comprehensive inter-comparison of INSAT multispectral rainfall algorithm estimates and TMPA 3B42-RT V7 estimates across different climate regions of India during southwest monsoon period. Environmental Monitoring and Assessment, 2018, 190, 45.	1.3	5
32	Improved streamflow simulations by coupling soil moisture analytical relationship in EnKF based hydrological data assimilation framework. Advances in Water Resources, 2018, 121, 173-188.	1.7	26
33	Quantification of annual glacier surface mass balance for the Chhota Shigri Glacier, Western Himalayas, India using an Equilibrium-Line Altitude (ELA) based approach. International Journal of Remote Sensing, 2018, 39, 9092-9112.	1.3	17
34	Towards operational SAR-based flood mapping using neuro-fuzzy texture-based approaches. Remote Sensing of Environment, 2018, 215, 313-329.	4.6	54
35	Investigating the Performance of Snowmelt Runoff Model Using Temporally Varying Near-Surface Lapse Rate in Western Himalayas. Current Science, 2018, 114, 808.	0.4	7
36	Inter-comparison of remote sensing sensing-based shoreline mapping techniques at different coastal stretches of India. Environmental Monitoring and Assessment, 2017, 189, 290.	1.3	45

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37	Remote Sensing and Geographical Information Systems in Watershed Management: An Overview. , 2017, , 51-79.		1
38	Improving streamflow simulations and forecasting performance of SWAT model by assimilating remotely sensed soil moisture observations. Journal of Hydrology, 2017, 555, 683-696.	2.3	50
39	How accurate are estimates of glacier ice thickness? Results from ITMIX, the Ice Thickness Models Intercomparison eXperiment. Cryosphere, 2017, 11, 949-970.	1.5	173
40	Optimized glcm-based texture features for improved SAR-based flood mapping. , 2017, , .		4
41	Weakening of Indian Summer Monsoon Rainfall due to Changes in Land Use Land Cover. Scientific Reports, 2016, 6, 32177.	1.6	165
42	Modified-INSAT Multi-Spectral Rainfall Algorithm (M-IMSRA) at climate region scale: Development and validation. Remote Sensing of Environment, 2016, 187, 186-201.	4.6	18
43	Multi-Index Rain Detection: A New Approach for Regional Rain Area Detection from Remotely Sensed Data. Journal of Hydrometeorology, 2014, 15, 2314-2330.	0.7	12
44	Comparison of the performance of the newly developed CDWM Filter with Enhanced LEE and Enhanced Frost Filters over the SAR image. , 2014, , .		5
45	Generation and Validation of the Interferometric SAR DEMs from TanDEM-X data for Gangotri and Hamtah Glaciers of Indian Himalayas. Procedia Technology, 2014, 16, 793-805.	1.1	18
46	Physically-based distributed soil erosion and sediment yield model (DREAM) for simulating individual storm events. Hydrological Sciences Journal, 2013, 58, 872-891.	1.2	15
47	Geospatially based distributed rainfall€runoff modelling for simulation of internal and outlet responses in a semi€forested lower Himalayan watershed. Hydrological Processes, 2012, 26, 1405-1426.	1.1	1
48	Geospatial Based Assessment of Spatial Variation of Groundwater Nitrate Nitrogen in Shandong Intensive Farming Regions of China. Sensor Letters, 2012, 10, 491-500.	0.4	2
49	Numerical modelling of hydrodynamics and sediment transport processes during storm events in a non-perennial river. Journal of Hydrology and Hydromechanics, 2010, 58, 36-48.	0.7	5
50	Geospatial-based automated watershed modeling in Garhwal Himalaya. Journal of Hydroinformatics, 2010, 12, 502-520.	1.1	9
51	Vegetation recovery monitoring over the waste dump in Haizhou opencast coalmine area, China, during 1975€"2000 using NDVI and VF index. Journal of the Indian Society of Remote Sensing, 2009, 37, 631-645.	1.2	8
52	Simulation of surface runoff and sediment yield using the water erosion prediction project (WEPP) model: a study in Kaneli watershed, Himalaya, India / Simulation de ruissellement de surface et d'érosion à l'aide du modèle WEPP: cas du bassin versant de Kaneli, Himalaya, Inde. Hydrological Sciences Journal, 2009, 54, 513-525.	1.2	4
53	Mapping of suspended sediments using site specific seasonal algorithms. Journal of the Indian Society of Remote Sensing, 2008, 36, 61-68.	1.2	6
54	Spatially varying WIndow based maximum likelihood Feature Tracking (SWIFT) Method for Glacier Surface Velocity Estimations. Geocarto International, 0, , 1-26.	1.7	0