Amit Kumar

List of Publications by Year
in descending order

59 papers	1,245 citations	411340 20 h-index	466096 32 g-index
61 all docs	61 docs citations	61 times ranked	1284 citing authors

#	Article	IF	Citations
1	Measuring the control of landscape modifications on surface temperature in India. Geocarto International, 2024, 37, 15736-15753.	1.7	4
2	Estimating floodwater depth using SAR-derived flood inundation maps and geomorphic model in kosi river basin (India). Geocarto International, 2022, 37, 4336-4360.	1.7	13
3	Synergistic evaluation of Sentinel 1 and 2 for biomass estimation in a tropical forest of India. Advances in Space Research, 2022, 69, 1752-1767.	1.2	21
4	Long-term precipitation monitoring and its linkage with flood scenario in changing climate conditions in Kashmir valley. Geocarto International, 2022, 37, 5497-5522.	1.7	8
5	Effect of vegetation structure on above ground biomass in tropical deciduous forests of Central India. Geocarto International, 2022, 37, 6294-6310.	1.7	11
6	Airborne hyperspectral AVIRIS-NG data for vegetation carbon stock mapping based on red edge position parameter and narrowband vegetation indices in Sholayar reserve forest, Kerala. Geocarto International, 2022, 37, 8172-8189.	1.7	2
7	COVID-19 pandemic hazard–risk–vulnerability analysis: a framework for an effective Pan-India response. Geocarto International, 2022, 37, 9098-9109.	1.7	9
8	Distribution mapping of Bauhinia vahlii Wight & Arn. in India using ecological niche modelling. Tropical Ecology, 2022, 63, 286-299.	0.6	4
9	Spatial pattern of tree diversity and impacts of ecological disturbances on forest structure in tropical deciduous forests of Central India. Biotropica, 2022, 54, 1363-1375.	0.8	4
10	Modelling the potential risk zone of Lantana camara invasion and response to climate change in eastern India. Ecological Processes, 2022, 11, .	1.6	14
11	Primary productivity estimation of forest based on in-situ biophysical parameters and sentinel satellite data using vegetation photosynthesis model in an eastern Indian tropical dry deciduous forest. Tropical Ecology, 2022, 63, 409-422.	0.6	1
12	Analyzing urban damage and surface deformation based hazard-risk in Kathmandu city occurred during Nepal earthquake (2015) using SAR interferometry. Advances in Space Research, 2022, 70, 3892-3904.	1.2	9
13	Spatial heterogeneity for urban built-up footprint and its characterization using microwave remote sensing. Advances in Space Research, 2022, 70, 3822-3832.	1.2	9
14	Deforestation and Forests Degradation Impacts on the Environment. Water Science and Technology Library, 2022, , 19-46.	0.2	3
15	Vulnerability Assessment of the Indian Himalayan Forests in Terms of Biomass Production and Carbon Sequestration Potential in Changing Climatic Conditions. , 2022, , 147-161.		5
16	Analysing climatic variability and extremes events in the Himalayan regions focusing on mountainous urban agglomerations. Geocarto International, 2022, 37, 14148-14170.	1.7	7
17	Evaluating long-term variability in precipitation and temperature in eastern plateau region, India, and its impact on urban environment. Environment, Development and Sustainability, 2021, 23, 3731-3761.	2.7	5
18	Evaluating the contribution of urban ecosystem services in regulating thermal comfort. Spatial Information Research, 2021, 29, 71-82.	1.3	6

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19	Lockdown to Contain the COVID-19 Pandemic: An Opportunity to Create a Less Polluted Environment in India. Aerosol and Air Quality Research, 2021, 21, 200229.	0.9	14
20	Onsite age discrimination of an endangered medicinal and aromatic plant species *Valeriana jatamansi* using field hyperspectral remote sensing and machine learning techniques. International Journal of Remote Sensing, 2021, 42, 3777-3796.	1.3	8
21	Spatio-temporal Mapping to Investigate Coral Bleaching in Andaman and Nicobar Islands, India Using Geoinformatics. Journal of the Indian Society of Remote Sensing, 2021, 49, 1879-1894.	1.2	3
22	Modelling potentially suitable lac cultivation zones of Butea monosperma to promote livelihood security in rural India. Vegetos, 2021, 34, 630-637.	0.8	8
23	Influence of Super Cyclone â€œAmphanâ€•in the Indian Subcontinent amid COVID-19 Pandemic. Remote Sensing in Earth Systems Sciences, 2021, 4, 96-103.	1.1	22
24	Present and future projections of heatwave hazard-risk over India: A regional earth system model assessment. Environmental Research, 2021, 201, 111573.	3.7	37
25	Vulnerability Assessment of the Indian Himalayan Forests in Terms of Biomass Production and Carbon Sequestration Potential in Changing Climatic Conditions. , 2021, , 1-15.		0
26	Potential of hyperspectral AVIRIS-NG data for vegetation characterization, species spectral separability, and mapping. Applied Geomatics, 2021, 13, 361-372.	1.2	11
27	Introduction to GPS/GNSS technology. , 2021, , 3-20.		6
28	Quantifying Tree Diversity, Carbon Stocks, and Sequestration Potential for Diverse Land Uses in Northeast India. Frontiers in Environmental Science, 2021, 9, .	1.5	21
29	Quantifying Temperature and Precipitation Change Caused by Land Cover Change: A Case Study of India Using the WRF Model. Frontiers in Environmental Science, 2021, 9, .	1.5	23
30	Forest health estimation in Sholayar Reserve Forest, Kerala using AVIRIS-NG hyperspectral data. Spatial Information Research, 2020, 28, 25-38.	1.3	8
31	Major forests and plant species discrimination in Mudumalai forestÂregion using airborne hyperspectral sensing. Journal of Asia-Pacific Biodiversity, 2020, 13, 637-651.	0.2	15
32	Ecological niche modeling for assessing potential distribution of Pterocarpus marsupium Roxb. In Ranchi, eastern India. Ecological Research, 2020, 35, 1095-1105.	0.7	14
33	Google Earth Engine for concurrent flood monitoring in the lower basin of Indo-Gangetic-Brahmaputra plains. Natural Hazards, 2020, 104, 1947-1952.	1.6	37
34	Turbulence of tropical cyclone â€˜Faniâ€™ in the Bay of Bengal and Indian subcontinent. Natural Hazards, 2020, 103, 1613-1622.	1.6	26
35	The dark cloud with a silver lining: Assessing the impact of the SARS COVID-19 pandemic on the global environment. Science of the Total Environment, 2020, 732, 139297.	3.9	163
36	Evaluating the 2018 extreme flood hazard events in Kerala, India. Remote Sensing Letters, 2020, 11, 436-445.	0.6	60

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37	Impact of 2014 Kashmir flood on land use/land cover transformation in Dal lake and its surroundings, Kashmir valley. SN Applied Sciences, 2020, 2, 1.	1.5	11
38	Climate models predict a divergent future for the medicinal tree Boswellia serrata Roxb. in India. Global Ecology and Conservation, 2020, 23, e01040.	1.0	26
39	Flood Inundation Mapping and Impact Assessment Using Multi-Temporal Optical and SAR Satellite Data: a Case Study of 2017 Flood in Darbhanga District, Bihar, India. Water Resources Management, 2020, 34, 1871-1892.	1.9	51
40	Remote Sensing approach to evaluate anthropogenic influences on Forest Cover of Palamau Tiger Reserve, Eastern India. Ecological Processes, 2020, 9, .	1.6	6
41	Climate Change Impacts and Implications: An Indian Perspective. Environmental Science and Engineering, 2020, , 11-30.	0.1	8
42	Ecosystem-Based Adaptation to Climate Change and Disaster Risk Reduction in Eastern Himalayan Forests of Arunachal Pradesh, Northeast India. Disaster Resilience and Green Growth, 2020, , 391-408.	0.2	4
43	Kharif crop characterization using combination of SAR and MSI Optical Sentinel Satellite datasets. Journal of Earth System Science, 2019, 128, 1.	0.6	25
44	Evaluating urban growth and its implication on flood hazard and vulnerability in Srinagar city, Kashmir Valley, using geoinformatics. Arabian Journal of Geosciences, 2019, 12, 1.	0.6	22
45	Tree diversity assessment and above ground forests biomass estimation using SAR remote sensing: A case study of higher altitude vegetation of North-East Himalayas, India. Physics and Chemistry of the Earth, 2019, 111, 53-64.	1.2	25
46	Monitoring and modelling spatio-temporal urban growth of Delhi using Cellular Automata and geoinformatics. Cities, 2019, 90, 52-63.	2.7	76
47	Flood hazard vulnerability assessment in Kashmir Valley, India using geospatial approach. Physics and Chemistry of the Earth, 2018, 105, 59-71.	1.2	10
48	Spatio-temporal landscape modeling of urban growth patterns in Dhanbad Urban Agglomeration, India using geoinformatics techniques. Egyptian Journal of Remote Sensing and Space Science, 2017, 20, 91-102.	1.1	32
49	Analysing urban sprawl and land consumption patterns in major capital cities in the Himalayan region using geoinformatics. Applied Geography, 2017, 89, 112-123.	1.7	55
50	Plant diversity patterns and conservation status of eastern Himalayan forests in Arunachal Pradesh, Northeast India. Forest Ecosystems, 2017, 4, .	1.3	47
51	Geoinformatics based groundwater potential assessment in hard rock terrain of Ranchi urban environment, Jharkhand state (India) using MCDM–AHP techniques. Groundwater for Sustainable Development, 2016, 2-3, 27-41.	2.3	42
52	Spatio-temporal variability of surface water quality of fresh water resources in Ranchi Urban Agglomeration, India using geospatial techniques. Applied Water Science, 2015, 5, 13-26.	2.8	10
53	Urban Built-up Area Assessment of Ranchi Township Using Cartosat-I Stereopairs Satellite Images. Journal of the Indian Society of Remote Sensing, 2013, 41, 141-155.	1.2	15
54	Spatio-temporal assessment of urban environmental conditions in Ranchi Township, India using remote sensing and Geographical Information System techniques. International Journal of Urban Sciences, 2013, 17, 117-141.	1.3	27

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55	Built-up and vegetation extraction and density mapping using WorldView-II. Geocarto International, 2012, 27, 557-568.	1.7	40
56	Evaluation of urban sprawl pattern in the tribal-dominated cities of Jharkhand state, India. International Journal of Remote Sensing, 2011, 32, 7651-7675.	1.3	39
57	Evaluating the Long-term Urban Expansion of Ranchi Urban Agglomeration, India Using Geospatial Technology. Journal of the Indian Society of Remote Sensing, 2011, 39, 213-224.	1.2	32
58	ASSESSING HUMAN AND CARBON FOOTPRINT OF RANCHI URBAN ENVIRONMENT USING REMOTE SENSING TECHNOLOGY. Journal of Urban and Environmental Engineering, 0, , 257-265.	0.3	1
59	Deforestation in India: Consequences and Sustainable Solutions. , 0, , .		19