

Praveen Kumar Thakur

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

1,232
citations

430754

18
h-index

414303

32
g-index

84
all docs

84
docs citations

84
times ranked

1248
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | River bank erosion hazard study of river Ganga, upstream of Farakka barrage using remote sensing and GIS. <i>Natural Hazards</i> , 2012, 61, 967-987. | 1.6 | 144 |
| 2 | Index-based groundwater vulnerability mapping models using hydrogeological settings: A critical evaluation. <i>Environmental Impact Assessment Review</i> , 2015, 51, 38-49. | 4.4 | 130 |
| 3 | Human-induced land use land cover change and its impact on hydrology. <i>HydroResearch</i> , 2019, 1, 48-56. | 1.7 | 89 |
| 4 | Detecting, mapping and analysing of flood water propagation using synthetic aperture radar (SAR) satellite data and GIS: A case study from the Kendrapara District of Orissa State of India. <i>Egyptian Journal of Remote Sensing and Space Science</i> , 2018, 21, S37-S41. | 1.1 | 59 |
| 5 | Assessment of land use land cover change impact on hydrological regime of a basin. <i>Environmental Earth Sciences</i> , 2017, 76, 1. | 1.3 | 56 |
| 6 | Cause and Process Mechanism of Rockslide Triggered Flood Event in Rishiganga and Dhauliganga River Valleys, Chamoli, Uttarakhand, India Using Satellite Remote Sensing and in situ Observations. <i>Journal of the Indian Society of Remote Sensing</i> , 2021, 49, 1011-1024. | 1.2 | 51 |
| 7 | Decadal Urban Land Use/Land Cover Changes and Its Impact on Surface Runoff Potential for the Dhaka City and Surroundings Using Remote Sensing. <i>Remote Sensing</i> , 2021, 13, 83. | 1.8 | 50 |
| 8 | Spectral similarity approach for mapping turbidity of an inland waterbody. <i>Journal of Hydrology</i> , 2017, 550, 527-537. | 2.3 | 34 |
| 9 | Estimation of Snow Cover Area, Snow Physical Properties and Glacier Classification in Parts of Western Himalayas Using C-Band SAR Data. <i>Journal of the Indian Society of Remote Sensing</i> , 2017, 45, 525-539. | 1.2 | 31 |
| 10 | GIS based spatial distribution mapping and suitability evaluation of groundwater quality for domestic and agricultural purpose in Kaithal district, Haryana state, India. <i>Environmental Earth Sciences</i> , 2010, 61, 1587-1597. | 1.3 | 30 |
| 11 | Snow physical parameters estimation using space-based Synthetic Aperture Radar. <i>Geocarto International</i> , 2012, 27, 263-288. | 1.7 | 30 |
| 12 | One-dimensional hydrodynamic modeling of GLOF and impact on hydropower projects in Dhauliganga River using remote sensing and GIS applications. <i>Natural Hazards</i> , 2016, 83, 1057-1075. | 1.6 | 28 |
| 13 | Revisiting 2013 Uttarakhand flash floods through hydrological evaluation of precipitation data sources and morphometric prioritization. <i>Geomatics, Natural Hazards and Risk</i> , 2022, 13, 646-666. | 2.0 | 27 |
| 14 | Assessment of the effect of slope on runoff potential of a watershed using NRCS-CN method. <i>International Journal of Hydrology Science and Technology</i> , 2013, 3, 141. | 0.2 | 26 |
| 15 | Identification of flash-floods-prone river reaches in Beas river basin using GIS-based multi-criteria technique: validation using field and satellite observations. <i>Natural Hazards</i> , 2021, 105, 2431-2453. | 1.6 | 24 |
| 16 | Hydrological Parameters Estimation Using Remote Sensing and GIS for Indian Region: A Review. <i>Proceedings of the National Academy of Sciences India Section A - Physical Sciences</i> , 2017, 87, 641-659. | 0.8 | 23 |
| 17 | Analyzing future water availability and hydrological extremes in the Krishna basin under changing climatic conditions. <i>Arabian Journal of Geosciences</i> , 2018, 11, 1. | 0.6 | 21 |
| 18 | Water level status of Indian reservoirs: A synoptic view from altimeter observations. <i>Advances in Space Research</i> , 2021, 68, 619-640. | 1.2 | 19 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Assessment of Cryospheric Parameters Over the Himalaya and Antarctic Regions using SCATSAT-1 Enhanced Resolution Data. <i>Current Science</i> , 2019, 117, 1002. | 0.4 | 19 |
| 20 | Quantitative assessment of sustainability of proposed watershed development plans for kharod watershed, western India. <i>Journal of the Indian Society of Remote Sensing</i> , 2007, 35, 231-241. | 1.2 | 17 |
| 21 | Snow Cover Area Mapping Using Synthetic Aperture Radar in Manali Watershed of Beas River in the Northwest Himalayas. <i>Journal of the Indian Society of Remote Sensing</i> , 2013, 41, 933-945. | 1.2 | 17 |
| 22 | Satellite-Based Mapping and Monitoring of Heavy Snowfall in North Western Himalaya and its Hydrologic Consequences. <i>Current Science</i> , 2017, 113, 2328. | 0.4 | 17 |
| 23 | SNOW COVER AND GLACIER DYNAMICS STUDY USING C-AND L-BAND SAR DATASETS IN PARTS OF NORTH WEST HIMALAYA. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLII-5, 375-382. | 0.2 | 17 |
| 24 | SARAL/AltiKa Waveform Analysis to Monitor Inland Water Levels: A Case Study of Maithon Reservoir, Jharkhand, India. <i>Marine Geodesy</i> , 2015, 38, 597-613. | 0.9 | 16 |
| 25 | Estimation of structural vulnerability for flooding using geospatial tools in the rural area of Orissa, India. <i>Natural Hazards</i> , 2012, 61, 501-520. | 1.6 | 14 |
| 26 | Snow depth retrieval in North-Western Himalayan region using pursuit-monostatic TanDEM-X datasets applying polarimetric synthetic aperture radar interferometry based inversion Modelling. <i>International Journal of Remote Sensing</i> , 2021, 42, 2872-2897. | 1.3 | 14 |
| 27 | Spaceborne Multifrequency PolInSAR-Based Inversion Modelling for Forest Height Retrieval. <i>Remote Sensing</i> , 2020, 12, 4042. | 1.8 | 13 |
| 28 | Hydrodynamic modelling and vulnerability analysis to assess flood risk in a dense Indian city using geospatial techniques. <i>Natural Hazards</i> , 2021, 105, 2117-2145. | 1.6 | 13 |
| 29 | Spatio-temporal analysis of glacier surface velocity in dhauliganga basin using geo-spatial techniques. <i>Environmental Earth Sciences</i> , 2021, 80, 1. | 1.3 | 11 |
| 30 | An integrated approach for identification of waterlogged areas using RS and GIS technique and groundwater modelling. <i>Sustainable Water Resources Management</i> , 2019, 5, 1887-1901. | 1.0 | 10 |
| 31 | The use of SARAL/AltiKa altimeter measurements for multi-site hydrodynamic model validation and rating curves estimation: An application to Brahmaputra River. <i>Advances in Space Research</i> , 2021, 68, 691-702. | 1.2 | 10 |
| 32 | SYNERGISTIC USE OF REMOTE SENSING, GIS AND HYDROLOGICAL MODELS FOR STUDY OF AUGUST 2018 KERALA FLOODS. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLIII-B3-2020, 1263-1270. | 0.2 | 9 |
| 33 | Application of Remote Sensing and GIS in Performance Evaluation of Irrigation Project at Disaggregated Level. <i>Journal of the Indian Society of Remote Sensing</i> , 2020, 48, 979-997. | 1.2 | 8 |
| 34 | Quantifying the sensitivity of band ratio methods for clean glacier ice mapping. <i>Spatial Information Research</i> , 2021, 29, 281-295. | 1.3 | 8 |
| 35 | Channel responses to flooding of Ganga River, Bihar India, 2019 using SAR and optical remote sensing. <i>Advances in Space Research</i> , 2022, 69, 1930-1947. | 1.2 | 8 |
| 36 | ROLE OF SAR DATA IN WATER BODY MAPPING AND RESERVOIR SEDIMENTATION ASSESSMENT. <i>ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences</i> , 0, IV-5, 151-158. | 0.0 | 8 |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Characterization and Retrieval of Snow and Urban Land Cover Parameters using Hyperspectral Imaging. Current Science, 2019, 116, 1182. | 0.4 | 7 |
| 38 | EXPERIMENTAL FLOOD EARLY WARNING SYSTEM IN PARTS OF BEAS BASIN USING INTEGRATION OF WEATHER FORECASTING, HYDROLOGICAL AND HYDRODYNAMIC MODELS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-5, 221-225. | 0.2 | 7 |
| 39 | ESTIMATION OF REVISED CAPACITY IN GOBIND SAGAR RESERVOIR USING GOOGLE EARTH ENGINE AND GIS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-5, 589-595. | 0.2 | 7 |
| 40 | River Bank Erosion Hazard Study of River Ganga, Upstream of Farakka Barrage Using Remote Sensing and GIS. , 2014, , 261-283. | | 6 |
| 41 | TRAINING, EDUCATION, RESEARCH AND CAPACITY BUILDING NEEDS AND FUTURE REQUIREMENTS IN APPLICATIONS OF GEOSPATIAL TECHNOLOGY FOR WATER RESOURCES MANAGEMENT. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-5, 29-36. | 0.2 | 6 |
| 42 | Ice sheet features identification, glacier velocity estimation, and glacier zones classification using high-resolution optical and SAR data. Proceedings of SPIE, 2016, , . | 0.8 | 5 |
| 43 | Suitability Analysis of Groundwater Quality for Domestic and Irrigation Usage in Yamuna Nagar District, India: A GIS Approach. Journal of the Indian Society of Remote Sensing, 2012, 40, 155-165. | 1.2 | 4 |
| 44 | Hydrometeorological Hazards Mapping, Monitoring and Modelling. , 2019, , 139-169. | | 4 |
| 45 | Snow Density retrieval using Hybrid polarimetric RISAT-1 datasets. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, , 1-1. | 2.3 | 4 |
| 46 | Geospatial investigation on transitional (quiescence to surge initiation) phase dynamics of Monacobreen tidewater glacier, Svalbard. Advances in Space Research, 2022, 69, 1813-1839. | 1.2 | 4 |
| 47 | TEMPORAL MONITORING OF GLACIER CHANGE IN DHAULIGANGA BASIN, KUMAUN HIMALAYA USING GEO-SPATIAL TECHNIQUES. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, IV-5, 203-207. | 0.0 | 4 |
| 48 | ASSESSMENT OF EARLY SEASON AGRICULTURAL DROUGHT USING REMOTE SENSING. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B3-2020, 1691-1695. | 0.2 | 4 |
| 49 | Meteorological parameters and water balance components of Priyadarshini Lake at the Schirmacher Oasis, East Antarctica. Polar Science, 2021, 30, 100763. | 0.5 | 4 |
| 50 | Spatio-temporal changes in radar zones and ELA estimation of glaciers in NyÅ...lesund using Sentinel-1 SAR. Polar Science, 2022, 31, 100786. | 0.5 | 4 |
| 51 | A new method for SARAL/AltiKa waveform classification: contextual analysis over the Maithon Reservoir, Jharkhand, India. Proceedings of SPIE, 2016, , . | 0.8 | 3 |
| 52 | Pol-InSAR based snow depth retrieval using spaceborne TerraSAR-X data. , 2017, , . | | 3 |
| 53 | Improving stream flow estimation by incorporating time delay approach in soft computing models. ISH Journal of Hydraulic Engineering, 2019, , 1-12. | 1.1 | 3 |
| 54 | X-Band Polarimetric Sar Copolar Phase Difference for Fresh Snow Depth Estimation in the Northwestern Himalayan Watershed. , 2019, , . | | 3 |

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| 55 | Hydrological Modelling in North Western Himalaya. , 2019, , 109-138. | | 3 |
| 56 | PSInSAR-Based Surface Deformation Mapping of Angkor Wat Cultural Heritage Site. Journal of the Indian Society of Remote Sensing, 2021, 49, 827-842. | 1.2 | 3 |
| 57 | Glacier Change Studies under Changing Climate Using Geospatial Tools and Techniques. Journal of the Indian Society of Remote Sensing, 2021, 49, 2387. | 1.2 | 3 |
| 58 | INTEGRATED FLOOD STUDY OF BAGMATI RIVER BASIN WITH HYDRO PROCESSING, FLOOD INUNDATION MAPPING & 1-D HYDRODYNAMIC MODELING USING REMOTE SENSING AND GIS. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, IV-5, 165-172. | 0.0 | 3 |
| 59 | INTERCOMPARISON OF DIFFERENT RAINFALL PRODUCTS AND VALIDATION OF WRF MODELLED RAINFALL ESTIMATION IN N-W HIMALAYA DURING MONSOON PERIOD. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, IV-5, 351-358. | 0.0 | 3 |
| 60 | ASSESSMENT OF SNOW AVALANCHE SUSCEPTIBILITY OF ROAD NETWORK - A CASE STUDY OF ALAKNANDA BASIN. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-5, 461-468. | 0.2 | 3 |
| 61 | Hydrological Modelling and data assimilation of Satellite Snow Cover Area using a Land Surface Model, VIC. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B8, 353-360. | 0.2 | 3 |
| 62 | ASSESSING THE IMPACT OF CANAL NETWORK ON SURFACE WATERLOGGING USING REMOTE SENSING DATASETS IN ROHTAK DISTRICT, HARYANA. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-5, 261-266. | 0.2 | 3 |
| 63 | Mapping and identification of ice-sheet and glacier features using optical and SAR data in parts of central Dronning Maud Land (cDML), East Antarctica. Polar Science, 2021, , 100740. | 0.5 | 2 |
| 64 | SEASONAL COMPARISON OF ERA-INTERIM PRECIPITATION DATASET FOR ENTIRE INDIAN REGION. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-5, 567-573. | 0.2 | 2 |
| 65 | Hydrological Modelling and data assimilation of Satellite Snow Cover Area using a Land Surface Model, VIC. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B8, 353-360. | 0.2 | 2 |
| 66 | APPLICATION OF GIS FOR THE DESIGN OF POTABLE WATER DISTRIBUTION SYSTEM IN IIRS. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, IV-5, 87-94. | 0.0 | 2 |
| 67 | Cryosphere Studies in Northwest Himalaya. , 2019, , 69-107. | | 1 |
| 68 | Groundwater modeling with inputs from geospatial technology for assessing the sustainability of water use in the Solani watershed, Ganga river basin (India). Groundwater for Sustainable Development, 2021, 12, 100511. | 2.3 | 1 |
| 69 | Snow, Glacier, and Glacier Lake Mapping and Monitoring Using Remote Sensing Data. Geography of the Physical Environment, 2021, , 57-84. | 0.2 | 1 |
| 70 | INSAR COHERENCE AND POLARIMETRIC PARAMETERS BASED CHARACTERIZATION OF FLOODED AREA “ CASE STUDY OF A NATURAL WORLD HERITAGE SITE KAZIRANGA NATIONAL PARK. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, IV-5, 265-272. | 0.0 | 1 |
| 71 | INDIAN INLAND WATER AND PARTS OF ANTARCTIC ICE SHEET ELEVATION AND ICE SHEET VELOCITY MONITORING USING ALTIMETRY AND SAR BASED DATASETS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-5, 367-373. | 0.2 | 1 |
| 72 | PSInSAR Study of Lyngenfjord Norway, using TerraSAR-X Data. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, IV-5, 245-251. | 0.0 | 1 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | ESTIMATION OF HYDRO-METEOROLOGICAL EXTREMES IN BEAS BASIN OVER HISTORIC, PRESENT AND FUTURE SCENARIO. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B5-2020, 139-147. | 0.2 | 1 |
| 74 | SIGNIFICANCE OF REMOTE SENSING BASED PRECIPITATION AND TERRAIN INFORMATION FOR IMPROVED HYDROLOGICAL AND HYDRODYNAMIC SIMULATION IN PARTS OF HIMALAYAN RIVER BASINS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B3-2020, 911-918. | 0.2 | 1 |
| 75 | Role of Geospatial Technology in Hydrological and Hydrodynamic Modeling-With Focus on Floods Studies. Water Science and Technology Library, 2022, , 483-503. | 0.2 | 1 |
| 76 | IMPORTANCE OF INCORPORATION OF GEOSPATIAL TECHNOLOGY APPLICATIONS IN WATER RESOURCES AT GRADUATE AND POST-GRADUATE COURSES OF CIVIL ENGINEERING. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-5, 111-116. | 0.2 | 0 |
| 77 | ROLE OF EARTH OBSERVATION DATA AND HYDROLOGICAL MODELING IN SUPPORTING UN SDGs IN NORTH WEST HIMALAYA. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B3-2020, 853-860. | 0.2 | 0 |
| 78 | Application of Active Space-Borne Microwave Remote Sensing in Flood Hazard Management. Water Science and Technology Library, 2022, , 457-482. | 0.2 | 0 |