

# Prashant K Srivastava

## List of Publications by Year in descending order

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202  
papers

6,329  
citations

53751

45  
h-index

91828

69  
g-index

218  
all docs

218  
docs citations

218  
times ranked

5113  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-satellite precipitation products for meteorological drought assessment and forecasting in Central India. Geocarto International, 2022, 37, 1899-1918.	1.7	25
2	Band selection algorithms for foliar trait retrieval using AVIRIS-NG: a comparison of feature based attribute evaluators. Geocarto International, 2022, 37, 4071-4087.	1.7	5
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	Appraisal of dual polarimetric radar vegetation index in first order microwave scattering algorithm using sentinel 1A (C - band) and ALOS - 2 (L - band) SAR data. Geocarto International, 2022, 37, 6232-6250.	1.7	4
5	Optimal band characterization in reformation of hyperspectral indices for species diversity estimation. Physics and Chemistry of the Earth, 2022, 126, 103040.	1.2	10
6	Assessment of tropical cyclone amphan affected inundation areas using sentinel-1 satellite data. Tropical Ecology, 2022, 63, 9-19.	0.6	7
7	Machine learning algorithms for soil moisture estimation using Sentinel-1: Model development and implementation. Advances in Space Research, 2022, 69, 1799-1812.	1.2	25
8	Model-based ensembles: Lessons learned from retrospective analysis of COVID-19 infection forecasts across 10 countries. Science of the Total Environment, 2022, 806, 150639.	3.9	8
9	Synergy of Vegetation and Soil Microwave Scattering Model for Leaf Area Index Retrieval Using C-Band Sentinel-1A Satellite Data. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	6
10	Investigation of optimal vegetation indices for retrieval of leaf chlorophyll and leaf area index using enhanced learning algorithms. Computers and Electronics in Agriculture, 2022, 192, 106581.	3.7	24
11	Improving Spatial Representation of Soil Moisture Through the Incorporation of Single-Channel Algorithm With Different Downscaling Approaches. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-10.	2.7	5
12	Synergistic Evaluation of Passive Microwave and Optical/IR Data for Modelling Vegetation Transmissivity towards Improved Soil Moisture Retrieval. Sensors, 2022, 22, 1354.	2.1	2
13	Tree's detection & health's assessment from ultra-high resolution UAV imagery and deep learning. Geocarto International, 2022, 37, 10459-10479.	1.7	6
14	Climate Change and Its Impact on Forest of Indian Himalayan Region: A Review. Springer Climate, 2022, , 207-222.	0.3	7
15	Far-field bistatic scattering simulation for rice crop biophysical parameters retrieval using modified radiative transfer model at X- and C-band. Remote Sensing of Environment, 2022, 272, 112959.	4.6	6
16	A hyperspectral R based leaf area index estimator: model development and implementation using AVIRIS-NG. Geocarto International, 2022, 37, 12792-12809.	1.7	3
17	Spatio-Temporal Monitoring of Atmospheric Pollutants Using Earth Observation Sentinel 5P TROPOMI Data: Impact of Stubble Burning a Case Study. ISPRS International Journal of Geo-Information, 2022, 11, 301.	1.4	10
18	Assessing the niche of Rhododendron arboreum using entropy and machine learning algorithms: role of atmospheric, ecological, and hydrological variables. Journal of Applied Remote Sensing, 2022, 16, .	0.6	3

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19	Evaluating long-term variability in precipitation and temperature in eastern plateau region, India, and its impact on urban environment. <i>Environment, Development and Sustainability</i> , 2021, 23, 3731-3761.	2.7	5
20	Sensitivity analysis of artificial neural network for chlorophyll prediction using hyperspectral data. <i>Environment, Development and Sustainability</i> , 2021, 23, 5504-5519.	2.7	20
21	Land use/land cover in view of earth observation: data sources, input dimensions, and classifiers—a review of the state of the art. <i>Geocarto International</i> , 2021, 36, 957-988.	1.7	89
22	Assessment of red-edge vegetation descriptors in a modified water cloud model for forward modelling using Sentinel-1A and Sentinel-2 satellite data. <i>International Journal of Remote Sensing</i> , 2021, 42, 794-804.	1.3	15
23	Soil erosion in future scenario using CMIP5 models and earth observation datasets. <i>Journal of Hydrology</i> , 2021, 594, 125851.	2.3	38
24	Multi-level impacts of the COVID-19 lockdown on agricultural systems in India: The case of Uttar Pradesh. <i>Agricultural Systems</i> , 2021, 187, 103027.	3.2	71
25	Denoising AVIRIS-NG Data for Generation of New Chlorophyll Indices. <i>IEEE Sensors Journal</i> , 2021, 21, 6982-6989.	2.4	13
26	Integrated assessment of extreme events and hydrological responses of Indo-Nepal Gandak River Basin. <i>Environment, Development and Sustainability</i> , 2021, 23, 8643-8668.	2.7	13
27	Estimation of potential evapotranspiration using INSAT-3D satellite data over an agriculture area. , 2021, , 143-155.		3
28	GIS-based analysis for soil moisture estimation via kriging with external drift. , 2021, , 391-408.		4
29	Modelling key parameters characterising land surface using the SimSphere SVAT model. , 2021, , 409-442.		0
30	Estimation of evapotranspiration using surface energy balance system and satellite datasets. , 2021, , 157-183.		2
31	Satellite Based Fraction of Absorbed Photosynthetically Active Radiation Is Congruent with Plant Diversity in India. <i>Remote Sensing</i> , 2021, 13, 159.	1.8	7
32	Subsurface nutrient modelling using finite element model under Boro rice cropping system. <i>Environment, Development and Sustainability</i> , 2021, 23, 11837-11858.	2.7	3
33	Bistatic scatterometer for the retrieval of soil moisture. , 2021, , 279-305.		0
34	Future challenges in agricultural water management. , 2021, , 445-456.		6
35	Artificial neural network for the estimation of soil moisture using earth observation datasets. , 2021, , 227-239.		1
36	Drought Identification and Trend Analysis Using Long-Term CHIRPS Satellite Precipitation Product in Bundelkhand, India. <i>Sustainability</i> , 2021, 13, 1042.	1.6	33

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37	Future pathway for research and emerging applications in GPS/GNSS. , 2021, , 429-438.		2
38	Development of android application for visualisation of soil water demand. , 2021, , 375-389.		2
39	Roughness characterization and disaggregation of coarse resolution SMAP soil moisture using single-channel algorithm. Journal of Applied Remote Sensing, 2021, 15, .	0.6	4
40	Highlighting the compound risk of COVID-19 and environmental pollutants using geospatial technology. Scientific Reports, 2021, 11, 8363.	1.6	11
41	SMAP Soil Moisture Product Assessment over Wales, U.K., Using Observations from the WSMN Ground Monitoring Network. Sustainability, 2021, 13, 6019.	1.6	3
42	Long-Term Trend Analysis of Precipitation and Extreme Events over Kosi River Basin in India. Water (Switzerland), 2021, 13, 1695.	1.2	12
43	A new model for an improved AMSR2 satellite soil moisture retrieval over agricultural areas. Computers and Electronics in Agriculture, 2021, 186, 106205.	3.7	10
44	Random Forests with Bagging and Genetic Algorithms Coupled with Least Trimmed Squares Regression for Soil Moisture Deficit Using SMOS Satellite Soil Moisture. ISPRS International Journal of Geo-Information, 2021, 10, 507.	1.4	5
45	Integrating Multi-Sensors Data for Species Distribution Mapping Using Deep Learning and Envelope Models. Remote Sensing, 2021, 13, 3284.	1.8	8
46	Evaluation of Radar/Optical Based Vegetation Descriptors in Water Cloud Model for Soil Moisture Retrieval. IEEE Sensors Journal, 2021, 21, 21030-21037.	2.4	3
47	Comparison of soil dielectric mixing models for soil moisture retrieval using SMAP brightness temperature over croplands in India. Journal of Hydrology, 2021, 602, 126673.	2.3	4
48	Irrigation water demand estimation in Bundelkhand region using the variable infiltration capacity model. , 2021, , 331-347.		0
49	Application of geospatial technology in agricultural water management. , 2021, , 31-45.		4
50	Exploring the potential of SCAT-SAR SWI for soil moisture retrievals at selected COSMOS-UK sites. International Journal of Remote Sensing, 2021, 42, 9155-9169.	1.3	6
51	Statistical Unfolding Approach to Understand Influencing Factors for Taxol Content Variation in High Altitude Himalayan Region. Forests, 2021, 12, 1726.	0.9	3
52	Active-Passive Approach for NISAR High Resolution Soil Moisture Products: Retrieval and Accuracy Assessment over Indian Cropland. , 2021, , .		0
53	Integrated framework for soil and water conservation in Kosi River Basin. Geocarto International, 2020, 35, 391-410.	1.7	26
54	Evaluating the capabilities of optical/TIR imaging sensing systems for quantifying soil water content. Geocarto International, 2020, 35, 494-511.	1.7	17

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55	Mapping and monitoring of the land use/cover changes in the wider area of Itanos, Crete, using very high resolution EO imagery with specific interest in archaeological sites. Environment, Development and Sustainability, 2020, 22, 3433-3460.	2.7	8
56	ScatSat-1 Leaf Area Index Product: Models Comparison, Development, and Validation Over Cropland. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 563-567.	1.4	12
57	Appraisal of hydro-meteorological factors during extreme precipitation event: case study of Kedarnath cloudburst, Uttarakhand, India. Natural Hazards, 2020, 100, 635-654.	1.6	15
58	Performance assessment of evapotranspiration estimated from different data sources over agricultural landscape in Northern India. Theoretical and Applied Climatology, 2020, 140, 145-156.	1.3	11
59	Evaluation of bias-adjusted satellite precipitation estimations for extreme flood events in Langat river basin, Malaysia. Hydrology Research, 2020, 51, 105-126.	1.1	18
60	An Integrated Spatiotemporal Pattern Analysis Model to Assess and Predict the Degradation of Protected Forest Areas. ISPRS International Journal of Geo-Information, 2020, 9, 530.	1.4	9
61	Short-Term Statistical Forecasts of COVID-19 Infections in India. IEEE Access, 2020, 8, 186932-186938.	2.6	23
62	Optimization of dual-polarized bistatic specular scatterometer for studying microwave scattering response and vegetation growth parameters retrieval of paddy crop using a machine learning algorithm. Computers and Electronics in Agriculture, 2020, 175, 105592.	3.7	10
63	Future perspectives and challenges in hyperspectral remote sensing. , 2020, , 429-439.		14
64	Quantifying Land Cover Changes in a Mediterranean Environment Using Landsat TM and Support Vector Machines. Forests, 2020, 11, 750.	0.9	24
65	Revisiting hyperspectral remote sensing: origin, processing, applications and way forward. , 2020, , 3-21.		14
66	Hyperspectral remote sensing in precision agriculture: present status, challenges, and future trends. , 2020, , 121-146.		41
67	Spaceborne Multifrequency PolInSAR-Based Inversion Modelling for Forest Height Retrieval. Remote Sensing, 2020, 12, 4042.	1.8	13
68	Use of Hyperion for Mangrove Forest Carbon Stock Assessment in Bhitarkanika Forest Reserve: A Contribution Towards Blue Carbon Initiative. Remote Sensing, 2020, 12, 597.	1.8	41
69	Appraisal of SMAP Operational Soil Moisture Product from a Global Perspective. Remote Sensing, 2020, 12, 1977.	1.8	14
70	Evaluating the 2018 extreme flood hazard events in Kerala, India. Remote Sensing Letters, 2020, 11, 436-445.	0.6	60
71	Appraisal of kappa-based metrics and disagreement indices of accuracy assessment for parametric and nonparametric techniques used in LULC classification and change detection. Modeling Earth Systems and Environment, 2020, 6, 1045-1059.	1.9	56
72	Synergetic use of in situ and hyperspectral data for mapping species diversity and above ground biomass in Shoolpaneshwar Wildlife Sanctuary, Gujarat. Tropical Ecology, 2020, 61, 106-115.	0.6	14

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73	Precision of raw and bias-adjusted satellite precipitation estimations (TRMM, IMERG, CMORPH, and) Tj ETQq1 1 0.784314 rgBT /Overl Climate Change, 2020, 11, 322-342.	1.2	17
74	Spectroradiometry as a tool for monitoring soil contamination by heavy metals in a floodplain site. , 2020, , 249-268.		7
75	Identification of functionally distinct plants using linear spectral mixture analysis. , 2020, , 95-106.		1
76	Evaluation of satellite precipitation products for extreme flood events: case study in Peninsular Malaysia. Journal of Water and Climate Change, 2019, 10, 871-892.	1.2	17
77	Forest biomass estimation using remote sensing and field inventory: a case study of Tripura, India. Environmental Monitoring and Assessment, 2019, 191, 593.	1.3	16
78	Spatial distribution of mangrove forest species and biomass assessment using field inventory and earth observation hyperspectral data. Biodiversity and Conservation, 2019, 28, 2143-2162.	1.2	59
79	Integration of Microwave and Optical/Infrared Derived Datasets for a Drought Hazard Inventory in a Sub-Tropical Region of India. Remote Sensing, 2019, 11, 439.	1.8	18
80	GIS and Remote Sensing Aided Information for Soil Moisture Estimation: A Comparative Study of Interpolation Techniques. Resources, 2019, 8, 70.	1.6	46
81	Large scale operational soil moisture mapping from passive MW radiometry: SMOS product evaluation in Europe & USA. International Journal of Applied Earth Observation and Geoinformation, 2019, 80, 206-217.	1.4	11
82	Operational Soil Moisture from ASCAT in Support of Water Resources Management. Remote Sensing, 2019, 11, 579.	1.8	17
83	Exploring the synergy between Landsat and ASAR towards improving thematic mapping accuracy of optical EO data. Applied Geomatics, 2019, 11, 277-288.	1.2	1
84	Heavy Metal Soil Contamination Detection Using Combined Geochemistry and Field Spectroradiometry in the United Kingdom. Sensors, 2019, 19, 762.	2.1	40
85	Evaluation of Satellite Precipitation Data for Drought Monitoring in Bundelkhand Region, India. , 2019, , .		7
86	Deriving forest fire probability maps from the fusion of visible/infrared satellite data and geospatial data mining. Modeling Earth Systems and Environment, 2019, 5, 627-643.	1.9	17
87	Aspect of ECMWF downscaled Regional Climate Modeling in simulating Indian summer monsoon rainfall and dependencies on lateral boundary conditions. Theoretical and Applied Climatology, 2019, 135, 1559-1581.	1.3	31
88	Comprehensive evaluation of soil moisture retrieval models under different crop cover types using C-band synthetic aperture radar data. Geocarto International, 2019, 34, 1022-1041.	1.7	43
89	Crop Phenology and Soil Moisture Applications of SCATSAT-1. Current Science, 2019, 117, 1022.	0.4	17
90	Monitoring Changes in Urban Cover Using Landsat Satellite Images and Demographical Information. , 2019, , 981-995.		0

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91	Assessment of Agricultural Drought Using A Climate Change Initiative (CCI) Soil Moisture Derived/Soil Moisture Deficit: Case Study From Bundelkhand. , 2019, , 63-72.		0
92	Rainfall Forecasting using a Triple Exponential Smoothing State Space Model. , 2019, , 381-390.		0
93	Morphometric Analysis and Prioritization of Sub-Watersheds in the Kosi River Basin for Soil and Water Conservation. , 2019, , 353-368.		0
94	Multi-temporal NDVI and surface temperature analysis for Urban Heat Island inbuilt surrounding of sub-humid region: A case study of two geographical regions. Remote Sensing Applications: Society and Environment, 2018, 10, 163-172.	0.8	32
95	Quantifying land use/land cover spatio-temporal landscape pattern dynamics from Hyperion using SVMs classifier and FRAGSTATS. Geocarto International, 2018, 33, 862-878.	1.7	76
96	Delineation and classification of rural-urban fringe using geospatial technique and onboard DMSP-Operational Linescan System. Geocarto International, 2018, 33, 375-396.	1.7	23
97	Modelling of land use land cover change using earth observation data-sets of Tons River Basin, Madhya Pradesh, India. Geocarto International, 2018, 33, 1202-1222.	1.7	115
98	Identification of Painted Rock-Shelter Sites Using GIS Integrated with a Decision Support System and Fuzzy Logic. ISPRS International Journal of Geo-Information, 2018, 7, 326.	1.4	8
99	Soil erosion assessment on hillslope of GCE using RUSLE model. Journal of Earth System Science, 2018, 127, 1.	0.6	9
100	Remote Sensing of Aerosols From Space: Retrieval of Properties and Applications. , 2018, , 45-83.		22
101	Earth Observation-Based Operational Estimation of Soil Moisture and Evapotranspiration for Agricultural Crops in Support of Sustainable Water Management. Sustainability, 2018, 10, 181.	1.6	44
102	Uncertainty in a Lumped and a Semi-Distributed Model for Discharge Prediction in Ghatshila Catchment. Water (Switzerland), 2018, 10, 381.	1.2	9
103	Robust machine learning techniques for rice crop variables estimation using multiangular bistatic scattering coefficients. Journal of Applied Remote Sensing, 2018, 12, 1.	0.6	4
104	The Use of Hyperspectral Earth Observation Data for Land Use/Cover Classification Present Status, Challenges, and Future Outlook. , 2018, , 147-173.		6
105	Floodplain Mapping through Support Vector Machine and Optical/Infrared Images from Landsat 8 OLI/TIRS Sensors: Case Study from Varanasi. Water Resources Management, 2017, 31, 1157-1171.	1.9	53
106	Vegetation water content retrieval using scatterometer data at X-band. Geocarto International, 2017, , 1-10.	1.7	1
107	Quantitative Analysis of Transient Intertidal Submarine Groundwater Discharge in Coastal Aquifer of Western Japan. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2017, 87, 423-432.	0.8	3
108	SWAT Model calibration and uncertainty analysis for streamflow prediction of the Tons River Basin, India, using Sequential Uncertainty Fitting (SUFI-2) algorithm. Modeling Earth Systems and Environment, 2017, 3, 1.	1.9	72



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109	Assessment of flood inundation mapping of Surat city by coupled 1D/2D hydrodynamic modeling: a case application of the new HEC-RAS 5. <i>Natural Hazards</i> , 2017, 89, 93-130.	1.6	155
110	Satellite Soil Moisture: Review of Theory and Applications in Water Resources. <i>Water Resources Management</i> , 2017, 31, 3161-3176.	1.9	73
111	Dual-polarimetric C-band SAR data for land use/land cover classification by incorporating textural information. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	1.3	46
112	Trend and variability of atmospheric ozone over middle Indo-Gangetic Plain: impacts of seasonality and precursor gases. <i>Environmental Science and Pollution Research</i> , 2017, 24, 164-179.	2.7	29
113	Reference Evapotranspiration Retrievals from a Mesoscale Model Based Weather Variables for Soil Moisture Deficit Estimation. <i>Sustainability</i> , 2017, 9, 1971.	1.6	12
114	Knowledge-based decision tree approach for mapping spatial distribution of rice crop using C-band synthetic aperture radar-derived information. <i>Journal of Applied Remote Sensing</i> , 2017, 11, 1.	0.6	16
115	Monitoring Changes in Urban Cover Using Landsat Satellite Images and Demographical Information. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , 2017, , 89-103.	0.3	1
116	Satellite radiance assimilation using a 3DVAR assimilation system for hurricane Sandy forecasts. <i>Natural Hazards</i> , 2016, 82, 845-855.	1.6	2
117	Forecasting Arabian Sea level rise using exponential smoothing state space models and ARIMA from TOPEX and Jason satellite radar altimeter data. <i>Meteorological Applications</i> , 2016, 23, 633-639.	0.9	9
118	Precipitation trend analysis of Sindh River basin, India, from 102-year record (1901-2002). <i>Atmospheric Science Letters</i> , 2016, 17, 71-77.	0.8	80
119	Integrating Soil Hydraulic Parameter and Microwave Precipitation with Morphometric Analysis for Watershed Prioritization. <i>Water Resources Management</i> , 2016, 30, 5385-5405.	1.9	24
120	Uncertainty Quantification in the Infrared Surface Emissivity Model (ISEM). <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016, 9, 5888-5892.	2.3	3
121	Seasonal ensemble generator for radar rainfall using copula and autoregressive model. <i>Stochastic Environmental Research and Risk Assessment</i> , 2016, 30, 27-38.	1.9	9
122	Support vector machines and generalized linear models for quantifying soil dehydrogenase activity in agro-forestry system of mid altitude central Himalaya. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	6
123	Operational evapotranspiration estimates from SEVIRI in support of sustainable water management. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2016, 49, 175-187.	1.4	29
124	High-resolution WRF simulation of cloud properties over the super typhoon Haiyan: physics parameterizations and comparison against MODIS. <i>Theoretical and Applied Climatology</i> , 2016, 126, 427-435.	1.3	1
125	Reduced major axis approach for correcting GPM/GMI radiometric biases to coincide with radiative transfer simulation. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 168, 40-45.	1.1	4
126	Seasonal evaluation of evapotranspiration fluxes from MODIS satellite and mesoscale model downscaled global reanalysis datasets. <i>Theoretical and Applied Climatology</i> , 2016, 124, 461-473.	1.3	27



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127	Artificial neural network with different learning parameters for crop classification using multispectral datasets. , 2015, , .		7
128	An introduction to factor analysis for radio frequency interference detection on satellite observations. Meteorological Applications, 2015, 22, 436-443.	0.9	10
129	Quantifying the prediction accuracy of a 1-D SVAT model at a range of ecosystems in the USA and Australia: evidence towards its use as a tool to study Earth's system interactions. Geoscientific Model Development, 2015, 8, 3257-3284.	1.3	5
130	Urban vegetation cover extraction from hyperspectral imagery and geographic information system spatial analysis techniques: case of Athens, Greece. Journal of Applied Remote Sensing, 2015, 9, 096088.	0.6	38
131	Appraisal of NLDAS-2 Multi-Model Simulated Soil Moistures for Hydrological Modelling. Water Resources Management, 2015, 29, 3503-3517.	1.9	34
132	Geochemical modeling to evaluate the mangrove forest water. Arabian Journal of Geosciences, 2015, 8, 4687-4702.	0.6	14
133	Performance Assessment of the SEVIRI Evapotranspiration Operational Product: Results Over Diverse Mediterranean Ecosystems. IEEE Sensors Journal, 2015, 15, 3412-3423.	2.4	17
134	Crop variables estimation by adaptive neuro-fuzzy inference system using bistatic scatterometer data. , 2015, , .		4
135	Evaluation of radar vegetation indices for vegetation water content estimation using data from a ground-based SMAP simulator. , 2015, , .		7
136	Variational Bayes and the Principal Component Analysis Coupled With Bayesian Regulation Backpropagation Network to Retrieve Total Precipitable Water (TPW) From GCOM-W1/AMSR2. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 4819-4824.	2.3	3
137	CLOUDET: A Cloud Detection and Estimation Algorithm for Passive Microwave Imagers and Sounders Aided by Naïve Bayes Classifier and Multilayer Perceptron. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 4296-4301.	2.3	6
138	Evaluation of Dielectric Mixing Models for Passive Microwave Soil Moisture Retrieval Using Data From ComRAD Ground-Based SMAP Simulator. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 4345-4354.	2.3	44
139	WRF Dynamical Downscaling and Bias Correction Schemes for NCEP Estimated Hydro-Meteorological Variables. Water Resources Management, 2015, 29, 2267-2284.	1.9	45
140	Predicting Spatial and Decadal LULC Changes Through Cellular Automata Markov Chain Models Using Earth Observation Datasets and Geo-information. Environmental Processes, 2015, 2, 61-78.	1.7	253
141	SWAT Model Calibration and Uncertainty Analysis for Streamflow Prediction in the Kunwari River Basin, India, Using Sequential Uncertainty Fitting. Environmental Processes, 2015, 2, 79-95.	1.7	137
142	Integrating TRMM and MODIS satellite with socio-economic vulnerability for monitoring drought risk over a tropical region of India. Physics and Chemistry of the Earth, 2015, 83-84, 14-27.	1.2	53
143	Assessing the influence of atmospheric and topographic correction and inclusion of SWIR bands in burned scars detection from high-resolution EO imagery: a case study using ASTER. Natural Hazards, 2015, 78, 1609-1628.	1.6	9
144	Stratiform/convective rain delineation for TRMM microwave imager. Journal of Atmospheric and Solar-Terrestrial Physics, 2015, 133, 25-35.	0.6	4

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145	Impact of complexity of radar rainfall uncertainty model on flow simulation. Atmospheric Research, 2015, 161-162, 93-101.	1.8	7
146	Synergistic multi-sensor and multi-frequency retrieval of cloud ice water path constrained by CloudSat collocations. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 161, 21-34.	1.1	5
147	Rain Rate Retrieval Algorithm for Conical-Scanning Microwave Imagers Aided by Random Forest, RReliefF, and Multivariate Adaptive Regression Splines (RAMARS). IEEE Sensors Journal, 2015, 15, 2186-2193.	2.4	9
148	Decision Support System integrated with Geographic Information System to target restoration actions in watersheds of arid environment: A case study of Hathmati watershed, Sabarkantha district, Gujarat. Journal of Earth System Science, 2015, 124, 71-86.	0.6	34
149	Performance evaluation of WRF-Noah Land surface model estimated soil moisture for hydrological application: Synergistic evaluation using SMOS retrieved soil moisture. Journal of Hydrology, 2015, 529, 200-212.	2.3	50
150	Evaluation of the Soil Moisture Operational Estimates From SMOS in Europe: Results Over Diverse Ecosystems. IEEE Sensors Journal, 2015, 15, 5243-5251.	2.4	20
151	Tracking a tropical cyclone through WRF's ARW simulation and sensitivity of model physics. Natural Hazards, 2015, 76, 1473-1495.	1.6	59
152	Modeling groundwater quality over a humid subtropical region using numerical indices, earth observation datasets, and X-ray diffraction technique: a case study of Allahabad district, India. Environmental Geochemistry and Health, 2015, 37, 157-180.	1.8	115
153	Assessing impact of climate change on Mundra mangrove forest ecosystem, Gulf of Kutch, western coast of India: a synergistic evaluation using remote sensing. Theoretical and Applied Climatology, 2015, 120, 685-700.	1.3	31
154	Soil characterization based on land cover heterogeneity over a tropical landscape: an integrated approach using earth observation data-sets. Geocarto International, 2014, , 1-24.	1.7	10
155	Ice cloud detection from AMSU-A, MHS, and HIRS satellite instruments inferred by cloud profiling radar. Remote Sensing Letters, 2014, 5, 1012-1021.	0.6	3
156	Appraisal of land use/land cover of mangrove forest ecosystem using support vector machine. Environmental Earth Sciences, 2014, 71, 2245-2255.	1.3	126
157	An exploratory investigation of an adaptive neuro fuzzy inference system (ANFIS) for estimating hydrometeors from TRMM/TMI in synergy with TRMM/PR. Atmospheric Research, 2014, 145-146, 57-68.	1.8	20
158	Assessment of SMOS soil moisture retrieval parameters using tau-omega algorithms for soil moisture deficit estimation. Journal of Hydrology, 2014, 519, 574-587.	2.3	49
159	Non-parametric rain/no rain screening method for satellite-borne passive microwave radiometers at 19-85 GHz channels with the Random Forests algorithm. International Journal of Remote Sensing, 2014, 35, 3254-3267.	1.3	23
160	An appraisal of the accuracy of operational soil moisture estimates from SMOS MIRAS using validated in situ observations acquired in a Mediterranean environment. International Journal of Remote Sensing, 2014, 35, 5239-5250.	1.3	30
161	Morphometric analysis of Upper Tons basin from Northern Foreland of Peninsular India using CARTOSAT satellite and GIS. Geocarto International, 2014, 29, 895-914.	1.7	108
162	Evaluation of TRMM rainfall for soil moisture prediction in a subtropical climate. Environmental Earth Sciences, 2014, 71, 4421-4431.	1.3	54

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163	Estimation of land surface temperature from atmospherically corrected LANDSAT TM image using 6S and NCEP global reanalysis product. <i>Environmental Earth Sciences</i> , 2014, 72, 5183-5196.	1.3	19
164	Sensitivity and uncertainty analysis of mesoscale model downscaled hydro-meteorological variables for discharge prediction. <i>Hydrological Processes</i> , 2014, 28, 4419-4432.	1.1	71
165	Multivariate distributed ensemble generator: A new scheme for ensemble radar precipitation estimation over temperate maritime climate. <i>Journal of Hydrology</i> , 2014, 511, 17-27.	2.3	31
166	Sensitivity associated with bright band/melting layer location on radar reflectivity correction for attenuation at C-band using differential propagation phase measurements. <i>Atmospheric Research</i> , 2014, 135-136, 143-158.	1.8	10
167	Chlorophyll Retrieval Using Ground Based Hyperspectral Data from a Tropical Area of India Using Regression Algorithms. <i>Society of Earth Scientists Series</i> , 2014, , 177-194.	0.2	5
168	Remote Sensing Based Identification of Painted Rock Shelter Sites: Appraisal Using Advanced Wide Field Sensor, Neural Network and Field Observations. <i>Society of Earth Scientists Series</i> , 2014, , 195-212.	0.2	5
169	Sensitivity Exploration of SimSphere Land Surface Model Towards Its Use for Operational Products Development from Earth Observation Data. <i>Society of Earth Scientists Series</i> , 2014, , 35-56.	0.2	7
170	Application of Geo-Spatial Technique for Flood Inundation Mapping of Low Lying Areas. <i>Society of Earth Scientists Series</i> , 2014, , 113-130.	0.2	6
171	Appraisal of SMOS soil moisture at a catchment scale in a temperate maritime climate. <i>Journal of Hydrology</i> , 2013, 498, 292-304.	2.3	73
172	Prioritization of Malesari mini-watersheds through morphometric analysis: a remote sensing and GIS perspective. <i>Environmental Earth Sciences</i> , 2013, 69, 2643-2656.	1.3	160
173	Integrated Assessment of Groundwater Influenced by a Confluence River System: Concurrence with Remote Sensing and Geochemical Modelling. <i>Water Resources Management</i> , 2013, 27, 4291-4313.	1.9	90
174	Flood Hazards Mitigation Analysis Using Remote Sensing and GIS: Correspondence with Town Planning Scheme. <i>Water Resources Management</i> , 2013, 27, 2353-2368.	1.9	122
175	Data Fusion Techniques for Improving Soil Moisture Deficit Using SMOS Satellite and WRF-NOAH Land Surface Model. <i>Water Resources Management</i> , 2013, 27, 5069.	1.9	44
176	Error Correction Modelling of Wind Speed Through Hydro-Meteorological Parameters and Mesoscale Model: A Hybrid Approach. <i>Water Resources Management</i> , 2013, 27, 1-23.	1.9	45
177	Reconstruction of contested landscape: Detecting land cover transformation hosting cultural heritage sites from Central India using remote sensing. <i>Land Use Policy</i> , 2013, 34, 193-203.	2.5	58
178	Machine Learning Techniques for Downscaling SMOS Satellite Soil Moisture Using MODIS Land Surface Temperature for Hydrological Application. <i>Water Resources Management</i> , 2013, 27, 3127-3144.	1.9	237
179	Fuzzy logic based melting layer recognition from 3ÅGHz dual polarization radar: appraisal with NWP model and radio sounding observations. <i>Theoretical and Applied Climatology</i> , 2013, 112, 317-338.	1.3	22
180	Comparative assessment of evapotranspiration derived from <sc>NCEP</sc> and <sc>ECMWF</sc> global datasets through Weather Research and Forecasting model. <i>Atmospheric Science Letters</i> , 2013, 14, 118-125.	0.8	59

#	ARTICLE	IF	CITATIONS
181	Fluoride contamination mapping of groundwater in Northern India integrated with geochemical indicators and GIS. <i>Water Science and Technology: Water Supply</i> , 2013, 13, 1513-1523.	1.0	48
182	Land degradation severity assessment with sand encroachment in an ecologically fragile arid environment: a geospatial perspective. <i>QScience Connect</i> , 2013, , 43.	0.2	6
183	MODELING IMPACT OF LAND USE CHANGE TRAJECTORIES ON GROUNDWATER QUALITY USING REMOTE SENSING AND GIS. <i>Environmental Engineering and Management Journal</i> , 2013, 12, 2343-2355.	0.2	62
184	Modeling mineral phase change chemistry of groundwater in a rural-urban fringe. <i>Water Science and Technology</i> , 2012, 66, 1502-1510.	1.2	46
185	Integrated framework for monitoring groundwater pollution using a geographical information system and multivariate analysis. <i>Hydrological Sciences Journal</i> , 2012, 57, 1453-1472.	1.2	70
186	Selection of classification techniques for land use/land cover change investigation. <i>Advances in Space Research</i> , 2012, 50, 1250-1265.	1.2	279
187	Artificial intelligence techniques for clutter identification with polarimetric radar signatures. <i>Atmospheric Research</i> , 2012, 109-110, 95-113.	1.8	75
188	A Jossâ€“Waldvogel disdrometer derived rainfall estimation study by collocated tipping bucket and rapid response rain gauges. <i>Atmospheric Science Letters</i> , 2012, 13, 139-150.	0.8	29
189	Soil chemical changes resulting from irrigating with petrochemical effluents. <i>International Journal of Environmental Science and Technology</i> , 2012, 9, 361-370.	1.8	11
190	Characterizing Monsoonal Variation on Water Quality Index of River Mahi in India Using Geographical Information System. <i>Water Quality Exposure and Health</i> , 2(3â€“4):193â€“203 (2011). <i>Water Quality, Exposure, and Health</i> , 2012, 4, 23-24.	1.5	2
191	Water Harvesting Structure Positioning by Using Geo-Visualization Concept and Prioritization of Mini-Watersheds Through Morphometric Analysis in the Lower Tapi Basin. <i>Journal of the Indian Society of Remote Sensing</i> , 2012, 40, 299-312.	1.2	124
192	Performance evaluation of the TRMM precipitation estimation using ground-based radars from the GPM validation network. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2012, 77, 194-208.	0.6	76
193	Mapping spatial distribution of pollutants in groundwater of a tropical area of India using remote sensing and GIS. <i>Applied Geomatics</i> , 2012, 4, 21-32.	1.2	75
194	Ecological monitoring of wetlands in semi-arid region of Konya closed Basin, Turkey. <i>Regional Environmental Change</i> , 2012, 12, 133-144.	1.4	55
195	Characterizing Monsoonal Variation on Water Quality Index of River Mahi in India using Geographical Information System. <i>Water Quality, Exposure, and Health</i> , 2011, 2, 193-203.	1.5	83
196	Integrating GIS and remote sensing for identification of groundwater potential zones in the hilly terrain of Pavagarh, Gujarat, India. <i>Water International</i> , 2010, 35, 233-245.	0.4	233
197	Effect of canal on land use/land cover using remote sensing and GIS. <i>Journal of the Indian Society of Remote Sensing</i> , 2009, 37, 527-537.	1.2	44
198	Landscape transform and spatial metrics for mapping spatiotemporal land cover dynamics using Earth Observation data-sets. <i>Geocarto International</i> , 0, , 1-15.	1.7	46

#	ARTICLE	IF	CITATIONS
199	A statistical significance of differences in classification accuracy of crop types using different classification algorithms. Geocarto International, 0, , 1-19.	1.7	26
200	Rainfall rate estimation over India using global precipitation measurementâ€™s microwave imager datasets and different variants of fuzzy information system. Geocarto International, 0, , 1-19.	1.7	2
201	Development of hyperspectral indices for anti-cancerous Taxol content estimation in the Himalayan region. Geocarto International, 0, , 1-14.	1.7	3
202	INTEGRATION OF SATELLITE, GLOBAL REANALYSIS DATA AND MACROSCALE HYDROLOGICAL MODEL FOR DROUGHT ASSESSMENT IN SUB-TROPICAL REGION OF INDIA. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-3, 1347-1351.	0.2	6