

N R Patel

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

1,413
citations

430874

18
h-index

345221

36
g-index

49
all docs

49
docs citations

49
times ranked

1517
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Assessment of agricultural drought in Rajasthan (India) using remote sensing derived Vegetation Condition Index (VCI) and Standardized Precipitation Index (SPI). Egyptian Journal of Remote Sensing and Space Science, 2015, 18, 53-63. | 2.0 | 219 |
| 2 | Analyzing spatial patterns of meteorological drought using standardized precipitation index. Meteorological Applications, 2007, 14, 329-336. | 2.1 | 174 |
| 3 | Assessing potential of MODIS derived temperature/vegetation condition index (TVDI) to infer soil moisture status. International Journal of Remote Sensing, 2009, 30, 23-39. | 2.9 | 146 |
| 4 | Analysis of agricultural drought using vegetation temperature condition index (VTCI) from Terra/MODIS satellite data. Environmental Monitoring and Assessment, 2012, 184, 7153-7163. | 2.7 | 94 |
| 5 | Estimation and analysis of terrestrial net primary productivity over India by remote-sensing-driven terrestrial biosphere model. Environmental Monitoring and Assessment, 2010, 170, 195-213. | 2.7 | 93 |
| 6 | Monitoring spatio-temporal pattern of drought stress using integrated drought index over Bundelkhand region, India. Natural Hazards, 2015, 77, 663-677. | 3.4 | 53 |
| 7 | Greening and Browning Trends of Vegetation in India and Their Responses to Climatic and Non-Climatic Drivers. Climate, 2020, 8, 92. | 2.8 | 52 |
| 8 | Crop yield prediction in cotton for regional level using random forest approach. Spatial Information Research, 2021, 29, 195-206. | 2.2 | 47 |
| 9 | Desertification in western Rajasthan (India): an assessment using remote sensing derived rain-use efficiency and residual trend methods. Natural Hazards, 2017, 86, 297-313. | 3.4 | 42 |
| 10 | Remote sensing of regional yield assessment of wheat in Haryana, India. International Journal of Remote Sensing, 2006, 27, 4071-4090. | 2.9 | 40 |
| 11 | Analyzing the dynamics and inter-linkages of carbon and water fluxes in subtropical pine (Pinus Tj ETQq1 1 0.784314 rgBT /Qverlock 10 | 4.8 | 37 |
| 12 | Spatio-temporal variation in terminal drought over western India using dryness index derived from long-term MODIS data. Ecological Informatics, 2016, 32, 28-38. | 5.2 | 36 |
| 13 | Measurement and Scaling of Carbon Dioxide (CO ₂) Exchanges in Wheat Using Flux-Tower and Remote Sensing. Journal of the Indian Society of Remote Sensing, 2011, 39, 383-391. | 2.4 | 30 |
| 14 | Mapping of regional evapotranspiration in wheat using Terra/MODIS satellite data. Hydrological Sciences Journal, 2006, 51, 325-335. | 2.6 | 26 |
| 15 | Evaluation of remote-sensing-based models of gross primary productivity over Indian sal forest using flux tower and MODIS satellite data. International Journal of Remote Sensing, 2017, 38, 5069-5090. | 2.9 | 26 |
| 16 | Estimating Gross Primary Production of a Forest Plantation Area Using Eddy Covariance Data and Satellite Imagery. Journal of the Indian Society of Remote Sensing, 2016, 44, 895-904. | 2.4 | 21 |
| 17 | Monitoring of water stress in wheat using multispectral indices derived from Landsat-TM. Geocarto International, 2016, 31, 682-693. | 3.5 | 20 |
| 18 | An Estimation of Hydrometeorological Drought Stress over the Central Part of India using Geo-information Technology. Journal of the Indian Society of Remote Sensing, 2020, 48, 1-9. | 2.4 | 20 |

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|----|---|-----|-----------|
| 19 | Satellite-derived vegetation temperature condition index to infer root zone soil moisture in semi-arid province of Rajasthan, India. <i>Geocarto International</i> , 2022, 37, 179-195. | 3.5 | 18 |
| 20 | Dynamics of CO ₂ fluxes and controlling environmental factors in sugarcane (C4)–wheat (C3) ecosystem of dry sub-humid region in India. <i>International Journal of Biometeorology</i> , 2021, 65, 1069-1084. | 3.0 | 17 |
| 21 | Mapping a Specific Crop–A Temporal Approach for Sugarcane Ratoon. <i>Journal of the Indian Society of Remote Sensing</i> , 2014, 42, 325-334. | 2.4 | 16 |
| 22 | Environmental control on carbon exchange of natural and planted forests in Western Himalayan foothills of India. <i>Biogeochemistry</i> , 2020, 151, 291-311. | 3.5 | 16 |
| 23 | Net Ecosystem Exchange of CO ₂ in Deciduous Pine Forest of Lower Western Himalaya, India. <i>Resources</i> , 2019, 8, 98. | 3.5 | 14 |
| 24 | Investigating Relations Between Satellite Derived Land Surface Parameters and Meteorological Variables. <i>Geocarto International</i> , 2006, 21, 47-53. | 3.5 | 13 |
| 25 | Investigating the effects of episodic Super-cyclone 1999 and Phailin 2013 on hydro-meteorological parameters and agriculture: An application of remote sensing. <i>Remote Sensing Applications: Society and Environment</i> , 2018, 10, 128-137. | 1.5 | 12 |
| 26 | Estimating net primary productivity in tropical forest plantations in India using satellite-driven ecosystem model. <i>Geocarto International</i> , 2018, 33, 988-999. | 3.5 | 12 |
| 27 | Modeling of Wheat Yields Using Multi-temporal Terra/MODIS Satellite Data. <i>Geocarto International</i> , 2006, 21, 43-50. | 3.5 | 9 |
| 28 | Geospatial Approach in Assessing Agro-Climatic Suitability of Soybean in Rainfed Agro-Ecosystem. <i>Journal of the Indian Society of Remote Sensing</i> , 2013, 41, 609-618. | 2.4 | 9 |
| 29 | Upscaling of leaf area index in Terai forest plantations using fine- and moderate-resolution satellite data. <i>International Journal of Remote Sensing</i> , 2014, 35, 7749-7762. | 2.9 | 9 |
| 30 | Comparative performance of semi-empirical based remote sensing and crop simulation model for cotton yield prediction. <i>Modeling Earth Systems and Environment</i> , 2022, 8, 1733-1747. | 3.4 | 9 |
| 31 | Estimating Net Primary Productivity of Croplands in Indo-Gangetic Plains Using GOME-2 Sun-Induced Fluorescence and MODIS NDVI. <i>Current Science</i> , 2018, 114, 1333. | 0.8 | 9 |
| 32 | DISCRIMINATION OF SUGARCANE CROP AND CANE YIELD ESTIMATION USING LANDSAT AND IRS RESOURCESAT SATELLITE DATA. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLII-3/W6, 229-233. | 0.2 | 8 |
| 33 | Estimation of Seasonal Sun-Induced Fluorescence Dynamics of Indian Tropical Deciduous Forests using SCOPE and Sentinel-2 MSI. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2020, 91, 102155. | 2.8 | 7 |
| 34 | Mapping of sugarcane crop types from multi-date IRS-Resourcesat satellite data by various classification methods and field-level GPS survey. <i>Remote Sensing Applications: Society and Environment</i> , 2020, 19, 100340. | 1.5 | 7 |
| 35 | Sugarcane Crop Type Discrimination and Area Mapping at Field Scale Using Sentinel Images and Machine Learning Methods. <i>Journal of the Indian Society of Remote Sensing</i> , 2022, 50, 217-225. | 2.4 | 7 |
| 36 | Spatio-temporal variability of gross primary productivity in moist and dry deciduous plant functional types of Northwest Himalayan foothills of India using temperature-greenness model. <i>Geocarto International</i> , 2022, 37, 2055-2067. | 3.5 | 6 |

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|----|--|-----|-----------|
| 37 | Environmental Impact of Lockdown Amid COVID-19 Over Agricultural Sites in Himalayan Foothills. Journal of the Indian Society of Remote Sensing, 2021, 49, 1651-1659. | 2.4 | 6 |
| 38 | Remote sensing-derived combined index for agricultural drought assessment of rabi pulse crops in Bundelkhand region, India. Environment, Development and Sustainability, 2021, 23, 15432-15449. | 5.0 | 5 |
| 39 | Machine-Learning-Based Regional Yield Forecasting for Sugarcane Crop in Uttar Pradesh, India. Journal of the Indian Society of Remote Sensing, 2022, 50, 1519-1530. | 2.4 | 5 |
| 40 | Cotton Yield Estimation Using Phenological Metrics Derived from Long-Term MODIS Data. Journal of the Indian Society of Remote Sensing, 2021, 49, 2597-2610. | 2.4 | 4 |
| 41 | Deriving Phenological Metrics from Landsat-OLI for Sugarcane Crop Type Mapping: A Case Study in North India. Journal of the Indian Society of Remote Sensing, 2022, 50, 1021-1030. | 2.4 | 4 |
| 42 | CO2 Flux Tower and Remote Sensing: Tools for Monitoring Carbon Exchange over Ecosystem Scale in Northwest Himalaya. , 2019, , 313-327. | | 3 |
| 43 | Modelling sun-induced fluorescence for improved evaluation of forest carbon flux (GPP): Case study of tropical deciduous forest, India. Ecological Modelling, 2021, 449, 109552. | 2.5 | 3 |
| 44 | Investigating the vegetation and agricultural responses to El Nino/Southern Oscillation using AVHRR data. Geocarto International, 2007, 22, 237-249. | 3.5 | 2 |
| 45 | Comparison of empirical remote-sensing based models for the estimation of gross primary productivity using eddy covariance and satellite data over agroecosystem. Tropical Ecology, 2021, 62, 600-611. | 1.2 | 2 |
| 46 | Geospatial Technology for Climate Change Impact Assessment of Mountain Agriculture. , 2019, , 381-400. | | 1 |
| 47 | Estimation of evapotranspiration fluxes from Sal (<i>Shorea robusta Gaertn.f</i>) forest using METRIC model: case study of Doon Valley, India. Geocarto International, 2022, 37, 5742-5764. | 3.5 | 1 |