

Sudhakar Reddy

List of Publications by Year in descending order

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Version: 2024-02-01

106
papers

2,120
citations

236612

25
h-index

301761

39
g-index

106
all docs

106
docs citations

106
times ranked

2035
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantification and monitoring of deforestation in India over eight decades (1930â€“2013). <i>Biodiversity and Conservation</i> , 2016, 25, 93-116.	1.2	146
2	New vegetation type map of India prepared using satellite remote sensing: Comparison with global vegetation maps and utilities. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2015, 39, 142-159.	1.4	138
3	Nationwide classification of forest types of India using remote sensing and GIS. <i>Environmental Monitoring and Assessment</i> , 2015, 187, 777.	1.3	120
4	National assessment of forest fragmentation in India: Landscape indices as measures of the effects of fragmentation and forest cover change. <i>Ecological Engineering</i> , 2013, 60, 453-464.	1.6	105
5	Development of national database on long-term deforestation (1930â€“2014) in Bangladesh. <i>Global and Planetary Change</i> , 2016, 139, 173-182.	1.6	71
6	Assessment and monitoring of long-term forest cover changes in Odisha, India using remote sensing and GIS. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 4399-4415.	1.3	63
7	Assessment and monitoring of long-term forest cover changes (1920â€“2013) in Western Ghats biodiversity hotspot. <i>Journal of Earth System Science</i> , 2016, 125, 103-114.	0.6	53
8	Predictive modelling of the spatial pattern of past and future forest cover changes in India. <i>Journal of Earth System Science</i> , 2017, 126, 1.	0.6	51
9	Persistent negative changes in seasonal greenness over different forest types of India using MODIS time series NDVI data (2001â€“2014). <i>Ecological Indicators</i> , 2018, 85, 887-903.	2.6	50
10	A Novel Adaptive Cuckoo Search Algorithm for Contrast Enhancement of Satellite Images. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017, 10, 3665-3676.	2.3	48
11	Assessment and monitoring of deforestation and forest fragmentation in South Asia since the 1930s. <i>Global and Planetary Change</i> , 2018, 161, 132-148.	1.6	48
12	Folklore medicinal plants of North Andaman Islands, India. <i>FÃ–toterapÃ–</i> , 2008, 79, 458-464.	1.1	46
13	Identification and characterization of spatio-temporal hotspots of forest fires in South Asia. <i>Environmental Monitoring and Assessment</i> , 2019, 191, 791.	1.3	44
14	Quantifying nationwide land cover and historical changes in forests of Nepal (1930â€“2014): implications on forest fragmentation. <i>Biodiversity and Conservation</i> , 2018, 27, 91-107.	1.2	41
15	Seasonal fluctuation in three mode of greenhouse gases emission in relation to soil labile carbon pools in degraded mangrove, Sundarban, India. <i>Science of the Total Environment</i> , 2020, 705, 135909.	3.9	38
16	Modeling the spatial dynamics of deforestation and fragmentation using Multi-Layer Perceptron neural network and landscape fragmentation tool. <i>Ecological Engineering</i> , 2017, 99, 543-551.	1.6	35
17	Threat evaluation for biodiversity conservation of forest ecosystems using geospatial techniques: A case study of Odisha, India. <i>Ecological Engineering</i> , 2014, 69, 287-303.	1.6	34
18	Geospatial assessment and monitoring of historical forest cover changes (1920â€“2012) in Nilgiri Biosphere Reserve, Western Ghats, India. <i>Environmental Monitoring and Assessment</i> , 2014, 186, 8125-8140.	1.3	34

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19	Structure and floristic composition of tree stand in tropical forest in the Eastern Ghats of northern Andhra Pradesh, India. <i>Journal of Forestry Research</i> , 2011, 22, 491-500.	1.7	31
20	Remote sensing of biodiversity: what to measure and monitor from space to species?. <i>Biodiversity and Conservation</i> , 2021, 30, 2617-2631.	1.2	31
21	Quantifying and predicting multi-decadal forest cover changes in Myanmar: a biodiversity hotspot under threat. <i>Biodiversity and Conservation</i> , 2019, 28, 1129-1149.	1.2	30
22	An ethnobotanical survey of medicinal plants used by the Didayi tribe of Malkangiri district of Orissa, India. <i>FĀ-toterapĀ-Ā¢</i> , 2008, 79, 67-71.	1.1	29
23	Assessment of large-scale deforestation of Nawarangpur district, Orissa, India: a remote sensing based study. <i>Environmental Monitoring and Assessment</i> , 2009, 154, 325-335.	1.3	29
24	Assessment of historical forest cover loss and fragmentation in Asian elephant ranges in India. <i>Environmental Monitoring and Assessment</i> , 2019, 191, 802.	1.3	29
25	Conservation priorities of forest ecosystems: Evaluation of deforestation and degradation hotspots using geospatial techniques. <i>Ecological Engineering</i> , 2016, 91, 333-342.	1.6	28
26	Nationwide Assessment of Forest Burnt Area in India Using Resourcesat-2 AWiFS Data. <i>Current Science</i> , 2017, 112, 1521.	0.4	26
27	Assessment of Land Cover Change Hotspots in Gulf of Kachchh, India Using Multi-Temporal Remote Sensing Data and GIS. <i>Journal of the Indian Society of Remote Sensing</i> , 2016, 44, 905-913.	1.2	25
28	Remote sensing enabled essential biodiversity variables for biodiversity assessment and monitoring: technological advancement and potentials. <i>Biodiversity and Conservation</i> , 2021, 30, 1-14.	1.2	25
29	Monitoring of fire incidences in vegetation types and Protected Areas of India: Implications on carbon emissions. <i>Journal of Earth System Science</i> , 2017, 126, 1.	0.6	24
30	Decadal time-scale monitoring of forest fires in Similipal Biosphere Reserve, India using remote sensing and GIS. <i>Environmental Monitoring and Assessment</i> , 2014, 186, 3283-3296.	1.3	23
31	Characterization of Species Diversity and Forest Health using AVIRIS-NG Hyperspectral Remote Sensing Data. <i>Current Science</i> , 2019, 116, 1124.	0.4	22
32	Assessment of tsunami and anthropogenic impacts on the forest of the North Andaman Islands, India. <i>International Journal of Remote Sensing</i> , 2009, 30, 1235-1249.	1.3	21
33	Impediment to Taxonomy and Its Impact on Biodiversity Science: An Indian Perspective. <i>Proceedings of the National Academy of Sciences India Section B - Biological Sciences</i> , 2012, 82, 235-240.	0.4	20
34	Assessment of Three Decade Vegetation Dynamics in Mangroves of Godavari Delta, India Using Multi-Temporal Satellite Data and GIS. <i>Research Journal of Environmental Sciences</i> , 2008, 2, 108-115.	0.5	20
35	Distribution of <i>Andrographis</i> species in Different Districts of Andhra Pradesh. <i>Proceedings of the National Academy of Sciences India Section B - Biological Sciences</i> , 2015, 85, 601-606.	0.4	19
36	Geospatial assessment of long-term changes in carbon stocks and fluxes in forests of India (1930â€“2013). <i>Global and Planetary Change</i> , 2016, 143, 50-65.	1.6	19

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37	Quantification and Monitoring of Forest Cover Changes in Agasthyamalai Biosphere Reserve, Western Ghats, India (1920-2012). <i>Current Science</i> , 2016, 110, 508.	0.4	19
38	Assessing forest canopy closure in a geospatial medium to address management concerns for tropical islandsâ€™ Southeast Asia. <i>Environmental Monitoring and Assessment</i> , 2010, 160, 541-553.	1.3	18
39	Vegetation, land cover and land use changes of the last 200 years in the Eastern Ghats (southern) Tj ETQq1 1 0.784314 rgBT /Overlo International, 2014, 325, 93-104.	0.7	17
40	Earth observation data for assessing biodiversity conservation priorities in South Asia. <i>Biodiversity and Conservation</i> , 2019, 28, 2197-2219.	1.2	16
41	Mapping and Inventory of Forest Fires in Andhra Pradesh, India: Current Status and Conservation Needs. <i>ISRN Forestry</i> , 2012, 2012, 1-10.	1.0	16
42	Holistic correlation of worldâ€™s largest social safety net and its outcomes with Sustainable Development Goals. <i>International Journal of Sustainable Development and World Ecology</i> , 2019, 26, 113-128.	3.2	15
43	Development of deforestation and land cover database for Bhutan (1930â€™2014). <i>Environmental Monitoring and Assessment</i> , 2016, 188, 658.	1.3	14
44	Monitoring of deforestation and land use changes (1925â€™2012) in Idukki district, Kerala, India using remote sensing and GIS. <i>Journal of the Indian Society of Remote Sensing</i> , 2017, 45, 163-170.	1.2	14
45	Assessment of spatial and temporal dynamics of tropical forest cover: A case study in Malkangiri district of Orissa, India. <i>Journal of Chinese Geography</i> , 2011, 21, 176-192.	1.5	13
46	Satellite image based quantification of invasion and patch dynamics of mesquite (<i>Prosopis juliflora</i>) in Great Rann of Kachchh, Kachchh Biosphere Reserve, Gujarat, India. <i>Journal of Earth System Science</i> , 2014, 123, 1481-1490.	0.6	13
47	Vegetation Cover Mapping and Landscape Level Disturbance Gradient Analysis in Warangal District, Andhra Pradesh, India Using Satellite Remote Sensing and GIS. <i>Space Research Journal</i> , 2008, 1, 29-38.	3.0	13
48	Estimating carbon emissions from forest fires over a decade in Similipal Biosphere Reserve, India. <i>Remote Sensing Applications: Society and Environment</i> , 2016, 4, 61-67.	0.8	12
49	Earth observation data for assessment of nationwide land cover and long-term deforestation in Afghanistan. <i>Global and Planetary Change</i> , 2017, 155, 155-164.	1.6	12
50	Tracking forest loss and fragmentation between 1930 and 2020 in Asian elephant (<i>Elephas maximus</i>) range in Nepal. <i>Scientific Reports</i> , 2021, 11, 19514.	1.6	12
51	Predicting the potential sites of <i>Chromolaena odorata</i> and <i>Lantana camara</i> in forest landscape of Eastern Ghats using habitat suitability models. <i>Ecological Informatics</i> , 2021, 66, 101455.	2.3	12
52	Long term changes in forest cover and land use of Similipal Biosphere Reserve of India using satellite remote sensing data. <i>Journal of Earth System Science</i> , 2016, 125, 559-569.	0.6	11
53	Development of National Database on Long-term Deforestation in Sri Lanka. <i>Journal of the Indian Society of Remote Sensing</i> , 2017, 45, 825-836.	1.2	11
54	DIResUNet: Architecture for multiclass semantic segmentation of high resolution remote sensing imagery data. <i>Applied Intelligence</i> , 2022, 52, 15462-15482.	3.3	11

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55	Geospatial characterization of deforestation, fragmentation and forest fires in Telangana state, India: conservation perspective. <i>Environmental Monitoring and Assessment</i> , 2015, 187, 455.	1.3	10
56	Multi-source and multi-date mapping of deforestation in Central India (1935-2010) and its implication on standing phytomass carbon pool. <i>Ecological Indicators</i> , 2015, 57, 219-227.	2.6	9
57	Geospatial Analysis of Reed Bamboo (<i>Ochlandra travancorica</i>) Invasion in Western Ghats, India. <i>Journal of the Indian Society of Remote Sensing</i> , 2016, 44, 699-711.	1.2	9
58	Assessment and monitoring of spatio-temporal changes in Keoladeo Ghana National Park, Rajasthan, India using geoinformatics. <i>Nepalese Journal of Ophthalmology</i> , 2011, 4, 33-42.	0.1	8
59	Geospatial monitoring and prioritization of forest fire incidences in Andhra Pradesh, India. <i>Environmental Monitoring and Assessment</i> , 2015, 187, 616.	1.3	8
60	Spatio-temporal changes associated with natural and anthropogenic factors in wetlands of Great Rann of Kachchh, India. <i>Journal of Coastal Conservation</i> , 2016, 20, 145-155.	0.7	8
61	Habitat monitoring and conservation prioritisation of protected areas in Western Ghats, Kerala, India. <i>Environmental Monitoring and Assessment</i> , 2017, 189, 295.	1.3	8
62	Earth observation data for habitat monitoring in protected areas of India. <i>Remote Sensing Applications: Society and Environment</i> , 2017, 8, 114-125.	0.8	8
63	Estimation of Trees Outside Forests using IRS High Resolution data by Object Based Image Analysis. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XL-8, 623-629.	0.2	8
64	Assessment of Fragmentation and Disturbance Patterns in Eastern Ghats: A Case Study in R.V. Nagar Range, Visakhapatnam District, Andhra Pradesh, India. <i>Journal of the Indian Society of Remote Sensing</i> , 2010, 38, 633-639.	1.2	7
65	Landscape level assessment of critically endangered vegetation of Lakshadweep islands using geo-spatial techniques. <i>Journal of Earth System Science</i> , 2013, 122, 271-281.	0.6	7
66	Sustainable Biodiversity Management in India: Remote Sensing Perspective. <i>Proceedings of the National Academy of Sciences India Section A - Physical Sciences</i> , 2017, 87, 617-627.	0.8	7
67	Assessing and Predicting Decadal Forest Cover Changes and Forest Fragmentation in Kinnerasani Wildlife Sanctuary, Telangana, India. <i>Journal of the Indian Society of Remote Sensing</i> , 2018, 46, 729-735.	1.2	7
68	Characterizing Vegetation Fire dynamics in Myanmar and South Asian Countries. <i>Journal of the Indian Society of Remote Sensing</i> , 2020, 48, 1829-1843.	1.2	7
69	Assessment and Monitoring of Deforestation and Land-Use Changes (1976-2014) in Andaman and Nicobar Islands, India Using Remote Sensing and GIS. <i>Current Science</i> , 2016, 111, 1492.	0.4	7
70	An assessment of floristic diversity of Gandhamardan Hill Range, Orissa, India. <i>Bangladesh Journal of Plant Taxonomy</i> , 2009, 16, 29-36.	0.1	6
71	Geospatial modeling of biological richness in Kuldiha wildlife sanctuary of Orissa, India. <i>Journal of the Indian Society of Remote Sensing</i> , 2010, 38, 477-485.	1.2	6
72	Spatial interpolation of carbon stock: a case study from the Western Ghats biodiversity hotspot, India. <i>International Journal of Sustainable Development and World Ecology</i> , 2010, 17, 481-486.	3.2	6

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73	Forest Fire Monitoring in Nagarjunasagar-Srisailem Tiger Reserve, Andhra Pradesh, India Using Geospatial Techniques. The National Academy of Sciences, India, 2013, 36, 437-446.	0.8	6
74	Landscape level analysis of disturbance regimes in protected areas of Rajasthan, India. Journal of Earth System Science, 2014, 123, 467-478.	0.6	6
75	Massive Invasion of Mesquite (<i>Prosopis juliflora</i>) in Wild Ass Wildlife Sanctuary, India. The National Academy of Sciences, India, 2015, 38, 271-273.	0.8	6
76	Development of spatial database on intact forest landscapes of India. Global and Planetary Change, 2017, 148, 131-138.	1.6	6
77	Spatial Conservation Prioritisation of Threatened Forest Ecosystems in Myanmar. Journal of the Indian Society of Remote Sensing, 2019, 47, 1737-1749.	1.2	6
78	The effectiveness of Tiger Conservation Landscapes in decreasing deforestation in South Asia: a remote sensing-based study. Spatial Information Research, 2022, 30, 63-75.	1.3	6
79	Taxonomic estimates of climbing plants in India: how many species are out there?. Ecoscience, 2022, 29, 325-343.	0.6	6
80	Long Term Monitoring of Forest Fires in Silent Valley National Park, Western Ghats, India Using Remote Sensing Data. Journal of the Indian Society of Remote Sensing, 2016, 44, 207-215.	1.2	5
81	Significant decline of forest fires in Nilgiri Biosphere Reserve, India. Remote Sensing Applications: Society and Environment, 2018, 11, 172-185.	0.8	5
82	Characterizing Distribution of Forest Fires in Myanmar Using Earth Observations and Spatial Statistics Tool. Journal of the Indian Society of Remote Sensing, 2020, 48, 227-234.	1.2	5
83	Assessment of forest fragmentation in a traditional shifting agricultural landscape in Senapati District of Manipur, Northeast India. Environment, Development and Sustainability, 2021, 23, 10344-10356.	2.7	5
84	Patterns of animal and plant discoveries, distribution and endemism in Indiaâ€™ implications on the effectiveness of the protected area network. Environmental Monitoring and Assessment, 2021, 193, 62.	1.3	5
85	Dehazing of Satellite Images using Adaptive Black Widow Optimization-based framework. International Journal of Remote Sensing, 2021, 42, 5068-5086.	1.3	5
86	Spatial dynamics of deforestation and forest fragmentation (1930â€™2013) in Eastern Ghats, India. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-8, 637-644.	0.2	5
87	The Use of Remote Sensing to Quantify Spatio-Temporal Land Cover Changes in Point Calimere, a Ramsar Site. The National Academy of Sciences, India, 2012, 35, 85-90.	0.8	4
88	Spatial Assessment of Land Use in Barak Valley, Assam Using Satellite Remote Sensing Data. The National Academy of Sciences, India, 2012, 35, 439-443.	0.8	4
89	DPPNet: An Efficient and Robust Deep Learning Network for Land Cover Segmentation From High-Resolution Satellite Images. IEEE Transactions on Emerging Topics in Computational Intelligence, 2023, 7, 128-139.	3.4	4
90	Monitoring trends in global vegetation fire hot spots using MODIS data. Spatial Information Research, 0, , .	1.3	4

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91	Survey-gap analysis for botanical research using integrated approach through taxonomical data and geoinformatics. Journal of the Indian Society of Remote Sensing, 2010, 38, 577-584.	1.2	3
92	Achyranthes coynei Santapau (Amaranthaceae): An Endemic and Threatened Species from Kachchh Desert, India. The National Academy of Sciences, India, 2015, 38, 281-282.	0.8	3
93	Earth Observations based Conservation Prioritization in Western Ghats, India. Journal of the Geological Society of India, 2018, 92, 562-567.	0.5	3
94	Cycas sphaerica Roxb.: A Little Known Endemic Species from Eastern Ghats, India. Journal of Plant Sciences, 2007, 2, 362-365.	0.2	3
95	Census of Endemic Flowering Plants of Kerala, India. Journal of Plant Sciences, 2007, 2, 489-503.	0.2	3
96	Advancing Global Biodiversity Governance: Recommendations for Strengthening the Post-2020 Global Biodiversity Framework. Anthropocene Science, 2022, 1, 195-203.	1.6	3
97	Coordination with the Help of Geographical Coordinates: g-Governance in India. Journal of Map and Geography Libraries, 2018, 14, 75-100.	0.1	2
98	Analysing the trends in annual forest loss hotspots in the regional landscape of Eastern Ghats, India. Remote Sensing Applications: Society and Environment, 2022, 26, 100731.	0.8	2
99	Applications of Remote Sensing in Plant Sciences: An Overview. , 2015, , 713-727.		1
100	A case study on utilization of RISAT-1 SAR data for forest burnt area detection in India. , 2016, ,		1
101	Impact Assessment on Floral Composition and Spread Potential of Mikania micrantha H.B.K. in an Urban Scenario. Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 2017, 87, 777-788.	0.4	1
102	Achyranthes longifolia (Makino) Makino (Amaranthaceae): An Angiosperm New to India. The National Academy of Sciences, India, 2017, 40, 57-60.	0.8	1
103	Cyathea nilgirensis holttum: A Little Known Endemic Species on the Verge of Extinction in the Eastern Ghats. The National Academy of Sciences, India, 2012, 35, 17-18.	0.8	0
104	Thunia Rchb.f. (Orchidaceae): A New Generic Record for Eastern Ghats in Andhra Pradesh, India. The National Academy of Sciences, India, 2014, 37, 199-201.	0.8	0
105	ASSESSMENT OF PLANT FUNCTIONAL TYPES IN TROPICAL ARID AND SEMI-ARID ECOSYSTEMS OF INDIA USING REMOTE SENSING DATA AND GIS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XXXVIII-8/W20, 150-150.	0.2	0
106	Lectotypification of Some Names in Rivina (Petiveriaceae) and a New Synonym of Rivina humilis L.. The National Academy of Sciences, India, 0, , 1.	0.8	0