

Gangalakunta P Obi Reddy

List of Publications by Year in descending order

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62
papers

1,553
citations

430874

18
h-index

315739

38
g-index

62
all docs

62
docs citations

62
times ranked

1615
citing authors

#	ARTICLE	IF	CITATIONS
1	Global irrigated area map (GIAM), derived from remote sensing, for the end of the last millennium. International Journal of Remote Sensing, 2009, 30, 3679-3733.	2.9	333
2	Drainage morphometry and its influence on landform characteristics in a basaltic terrain, Central India – a remote sensing and GIS approach. International Journal of Applied Earth Observation and Geoinformation, 2004, 6, 1-16.	2.8	240
3	A global map of rainfed cropland areas (GMRC) at the end of last millennium using remote sensing. International Journal of Applied Earth Observation and Geoinformation, 2009, 11, 114-129.	2.8	152
4	Evaluation of Ground Water Potential Zones Using Remote Sensing Data -A Case Study of Gaimukh Watershed, Bhandara District, Maharashtra. Journal of the Indian Society of Remote Sensing, 2000, 28, 19-32.	2.4	78
5	Irrigated areas of India derived using MODIS 500 m time series for the years 2001–2003. ISPRS Journal of Photogrammetry and Remote Sensing, 2010, 65, 42-59.	11.1	74
6	Irrigated Area Maps and Statistics of India Using Remote Sensing and National Statistics. Remote Sensing, 2009, 1, 50-67.	4.0	62
7	GIS-based multicriteria overlay analysis in soil-suitability evaluation for cotton (<i>Gossypium</i> spp.): A case study in the black soil region of Central India. Computers and Geosciences, 2012, 41, 108-118.	4.2	53
8	Monitoring of agricultural drought in semi-arid ecosystem of Peninsular India through indices derived from time-series CHIRPS and MODIS datasets. Ecological Indicators, 2021, 121, 107033.	6.3	49
9	Monitoring spatio-temporal dynamics of urban and peri-urban landscape using remote sensing and GIS – A case study from Central India. Egyptian Journal of Remote Sensing and Space Science, 2018, 21, 401-411.	2.0	40
10	Assessment of land suitability for maize (<i>Zea mays</i> L) in semi-arid ecosystem of southern India using integrated AHP and GIS approach. Computers and Electronics in Agriculture, 2020, 179, 105806.	7.7	34
11	Assessment of Soil Erosion in the Fragile Himalayan Ecosystem of Uttarakhand, India Using USLE and GIS for Sustainable Productivity. Current Science, 2018, 115, 108.	0.8	34
12	Integrated drought monitoring index: A tool to monitor agricultural drought by using time-series datasets of space-based earth observation satellites. Advances in Space Research, 2021, 67, 298-315.	2.6	32
13	Modeling and Assessment of Land Degradation Vulnerability in Semi-arid Ecosystem of Southern India Using Temporal Satellite Data, AHP and GIS. Environmental Modeling and Assessment, 2021, 26, 143-154.	2.2	29
14	Morphometric analysis in basaltic Terrain of Central India using GIS techniques: a case study. Applied Water Science, 2017, 7, 2493-2499.	5.6	28
15	Evaluation of automatic drainage extraction thresholds using ASTER GDEM and Cartosat-1 DEM: A case study from basaltic terrain of Central India. Egyptian Journal of Remote Sensing and Space Science, 2018, 21, 95-104.	2.0	28
16	Assessment of soil erosion using remote sensing and GIS in Nagpur district, Maharashtra for prioritisation and delineation of conservation units. Journal of the Indian Society of Remote Sensing, 2002, 30, 197-212.	2.4	22
17	Delineation and characterization of geomorphological features in a part of lower maharashtra metamorphic plateau using IRS-ID LISS-III Data. Journal of the Indian Society of Remote Sensing, 2003, 31, 241-250.	2.4	19
18	Terrain Characterization for Soil Resource Mapping Using IRS-P6 Data and GIS - A Case Study From Basaltic Terrain of Central India. Journal of the Indian Society of Remote Sensing, 2013, 41, 331-343.	2.4	19

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19	Soil information system of Arunachal Pradesh in a GIS environment for land use planning. International Journal of Applied Earth Observation and Geoinformation, 2001, 3, 69-77.	2.8	14
20	Geomorphological analysis for inventory of degraded lands in a river basin of basaltic terrain using remote sensing and GIS. Journal of the Indian Society of Remote Sensing, 2002, 30, 15-31.	2.4	14
21	High resolution remote sensing, GPS and GIS in soil resource mapping and characterization-A Review. Agricultural Reviews, 2015, 36, 14.	0.1	14
22	Characterization of Landforms and Soils in Complex Geological Formations—A Remote Sensing and GIS Approach. Journal of the Indian Society of Remote Sensing, 2013, 41, 91-104.	2.4	13
23	Semi-automated object-based landform classification modelling in a part of the Deccan Plateau of central India. International Journal of Remote Sensing, 2017, 38, 4855-4867.	2.9	13
24	Assessment of spatio-temporal vegetation dynamics in tropical arid ecosystem of India using MODIS time-series vegetation indices. Arabian Journal of Geosciences, 2020, 13, 1.	1.3	13
25	Spatial Data Management, Analysis, and Modeling in GIS: Principles and Applications. Geotechnologies and the Environment, 2018, , 127-142.	0.3	12
26	Satellite Remote Sensing Sensors: Principles and Applications. Geotechnologies and the Environment, 2018, , 21-43.	0.3	12
27	Soil Loss Mapping for Sustainable Development and Management of Land Resources in Warora Tehsil of Chandrapur District of Maharashtra: An Integrated Approach Using Remote Sensing and GIS. Journal of the Indian Society of Remote Sensing, 2011, 39, 51-61.	2.4	10
28	Soil quality ranking of a small sample size using AHP. Journal of Soil and Water Conservation, 2017, 16, 339.	0.2	10
29	Edaphic Stresses and Agricultural Sustainability: An Indian Perspective. Agricultural Research, 2017, 6, 8-21.	1.7	9
30	Remote Sensing and GIS in Mapping and Monitoring of Land Degradation. Geotechnologies and the Environment, 2018, , 401-424.	0.3	9
31	Landscape ecological planning in a Basaltic terrain, central India, using Remote sensing and GIS techniques. Journal of the Indian Society of Remote Sensing, 2001, 29, 3-16.	2.4	8
32	Large-Scale Soil Resource Mapping Using IRS-P6 LISS-IV and Cartosat-1 DEM in Basaltic Terrain of Central India. Journal of the Indian Society of Remote Sensing, 2016, 44, 811-819.	2.4	8
33	Landscape analysis for pedo-geomorphological characterization in part of basaltic terrain, central India using remote sensing and GIS. Journal of the Indian Society of Remote Sensing, 2003, 31, 271-282.	2.4	6
34	Characterization of biophysical land units using remote sensing and gis. Journal of the Indian Society of Remote Sensing, 2004, 32, 159-165.	2.4	6
35	Spatial modelling for identification of groundwater potential zones in semi-arid ecosystem of southern India using Sentinel-2 data, GIS and bivariate statistical models. Arabian Journal of Geosciences, 2021, 14, 1.	1.3	5
36	Evaluation of basin morphometric indices and tectonic implications in sedimentary landscape, Central India: A remote sensing and GIS approach. Environmental Earth Sciences, 2021, 80, 1.	2.7	5

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37	Geoportal Platforms for Sustainable Management of Natural Resources. <i>Studies in Big Data</i> , 2022, , 289-314.	1.1	5
38	Geographic Information System: Principles and Applications. <i>Geotechnologies and the Environment</i> , 2018, , 45-62.	0.3	4
39	Geospatial Technologies in Land Resources Mapping, Monitoring, and Management: An Overview. <i>Geotechnologies and the Environment</i> , 2018, , 1-18.	0.3	4
40	Remote Sensing and GIS for Geomorphological Mapping. <i>Geotechnologies and the Environment</i> , 2018, , 223-252.	0.3	4
41	Digital Image Processing: Principles and Applications. <i>Geotechnologies and the Environment</i> , 2018, , 101-126.	0.3	3
42	Integrated Remote Sensing, GIS, and GPS Applications in Agricultural Land Use Planning. <i>Geotechnologies and the Environment</i> , 2018, , 489-515.	0.3	3
43	Open-Source Satellite Data and GIS for Land Resource Mapping. <i>Geotechnologies and the Environment</i> , 2018, , 185-200.	0.3	3
44	Global Positioning System: Principles and Applications. <i>Geotechnologies and the Environment</i> , 2018, , 63-74.	0.3	3
45	Machine Learning Algorithms for Optical Remote Sensing Data Classification and Analysis. <i>Studies in Big Data</i> , 2022, , 195-220.	1.1	3
46	Remote Sensing and GIS in Digital Terrain Modeling. <i>Geotechnologies and the Environment</i> , 2018, , 201-222.	0.3	2
47	Remote Sensing and Geographic Information System in Water Erosion Assessment. <i>Agricultural Reviews</i> , 2020, , .	0.1	2
48	Remote Sensing and Machine Learning for Identification of Salt-affected Soils. <i>Studies in Big Data</i> , 2022, , 267-287.	1.1	2
49	Developing Logistic Regression Models to Identify Salt-Affected Soils Using Optical Remote Sensing. <i>Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series</i> , 2019, , 233-256.	0.5	2
50	Land Resources Information System and NBSS BHOOMI Geoportal for Land Resource Monitoring and Management. <i>Geotechnologies and the Environment</i> , 2018, , 451-468.	0.3	1
51	Soil Erosion Assessment in Basaltic-Associated Landscapes of Central India using Integrated Approach of RUSLE, Remote Sensing and GIS. <i>Journal of the Indian Society of Soil Science</i> , 2019, 67, 411.	0.2	1
52	Land Suitability Evaluation for Soybean Using Temporal Satellite Data and GIS: A Case Study from Central India. , 0, , 387-410.		1
53	Characterization of soils of Jagdalpur in a topo-sequence. <i>International Journal of Chemical Studies</i> , 2020, 8, 1001-1007.	0.1	1
54	Indices-based assessment of vulnerability to agricultural drought in the tropical semi-arid ecosystem using time-series satellite and meteorological datasets. <i>Arabian Journal of Geosciences</i> , 2022, 15, .	1.3	1

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55	Morphotectonic imprints on the evolution of the fluvial landscape in central India inferred from remotely sensed data and GIS. <i>Environmental Earth Sciences</i> , 2022, 81, .	2.7	1
56	Geospatial Technologies for Semiautomated Baseline Database Generation for Large-Scale Land Resource Inventory. <i>Geotechnologies and the Environment</i> , 2018, , 253-271.	0.3	0
57	Land Resource Inventory and Mapping: Tools and Techniques. <i>Geotechnologies and the Environment</i> , 2018, , 297-322.	0.3	0
58	Geospatial Technologies in Integrated Watershed Management. <i>Geotechnologies and the Environment</i> , 2018, , 569-586.	0.3	0
59	Land Resource Inventory for Village-Level Agricultural Land Use Planning. <i>Geotechnologies and the Environment</i> , 2018, , 335-352.	0.3	0
60	Data Science Algorithms and Applications in Earth Observation. <i>Studies in Big Data</i> , 2022, , 3-30.	1.1	0
61	Categorization and delineation of agricultural prime and marginal lands of Nagpur district, Maharashtra for different uses. <i>Journal of Soil and Water Conservation</i> , 2017, 16, 108.	0.2	0
62	Characterization of landform in Bastar plateau using high resolution ALOS-DEM data. <i>International Journal of Chemical Studies</i> , 2020, 8, 997-1000.	0.1	0