Arindam Guha

List of Publications by Year in descending order

51 papers	603 citations	567281 15 h-index	677142 22 g-index
51 all docs	51 docs citations	51 times ranked	348 citing authors

#	Article	IF	Citations
1	Support vector machine-based integration of AVIRIS NG hyperspectral and ground geophysical data for identifying potential zones for chromite exploration â€" A study in Tamil Nadu, India. Advances in Space Research, 2024, 73, 1475-1490.	2.6	0
2	Airborne imaging spectroscopy of igneous layered complex and their mapping using different spectral enhancement conjugated support vector machine models. Geocarto International, 2022, 37, 349-365.	3.5	9
3	New insights on Kimberlite emplacement around the Bundelkhand Craton using integrated satellite-based remote sensing, gravity and magnetic data. Geocarto International, 2022, 37, 999-1021.	3.5	21
4	Multi-sensor datasets-based optimal integration of spectral, textural, and morphological characteristics of rocks for lithological classification using machine learning models. Geocarto International, 2022, 37, 6004-6032.	3.5	10
5	Airborne hyperspectroscopy using AVIRIS- NG data for detecting surface signatures of kimberlite and kimberlite clan of rocks in Bundelkhand Craton, India. Advances in Space Research, 2022, 69, 1087-1099.	2.6	1
6	Comparative analysis of AVIRIS-NG and Landsat-8 OLI data for lithological mapping in parts of Sittampundi layered complex, Tamil Nadu, India. Advances in Space Research, 2022, 69, 1408-1426.	2.6	7
7	Combined use of band shape algorithm, linear spectral un-mixing on Clementine & Moon Mineralogy Mapper data for identifying the imprints of magmatic differentiation â€" A study around Aristarchus Plateau. Advances in Space Research, 2022, 69, 3164-3181.	2.6	0
8	Conjugate utilization of Landsat-8 OLI, ground gravity and magnetic data for targeting mafic cumulates within anorthositic-layered complex of Sittampundi, India. Geocarto International, 2021, 36, 1855-1872.	3.5	10
9	Synergistic use of ASTER, L-band ALOS PALSAR, and hyperspectral AVIRIS-NG data for exploration of lode type gold deposit â€" A study in Hutti Maski Schist Belt, India. Ore Geology Reviews, 2021, 128, 103818.	2.7	13
10	New effective spectral matching measures for hyperspectral data analysis. International Journal of Remote Sensing, 2021, 42, 4126-4156.	2.9	8
11	Potentials of Airborne Hyperspectral AVIRIS-NG Data in the Exploration of Base Metal Depositâ€"A Study in the Parts of Bhilwara, Rajasthan. Remote Sensing, 2021, 13, 2101.	4.0	17
12	Broadband reflectance, emittance spectroscopy and self-potential geophysical survey for targeting gold sulphide lode deposit in Bhukia, Rajasthan, India. Geocarto International, 2020, 35, 93-112.	3.5	7
13	Automated lithological mapping by integrating spectral enhancement techniques and machine learning algorithms using AVIRIS-NG hyperspectral data in Gold-bearing granite-greenstone rocks in Hutti, India. International Journal of Applied Earth Observation and Geoinformation, 2020, 86, 102006.	2.8	47
14	Reflectance spectroscopy-guided broadband spectral derivative approach to detect glauconite-rich zones in fossiliferous limestone, Kachchh region, Gujarat, India. Ore Geology Reviews, 2020, 127, 103825.	2.7	4
15	Potential utility of reflectance spectroscopy in understanding the paleoecology and depositional history of different fossils. Scientific Reports, 2020, 10, 16801.	3.3	0
16	Mineral exploration using hyperspectral data. , 2020, , 293-318.		4
17	Eigen vector based analysis of Landsat OLI principal components and constrained energy minimization maps for discriminating iron enriched zones in banded iron formation (BIF) in Sidhi, Madhya Pradesh. Geocarto International, 2020, , 1-19.	3.5	2
18	Integration of remote sensing, gravity and geochemical data for exploration of Cu-mineralization in Alwar basin, Rajasthan, India. International Journal of Applied Earth Observation and Geoinformation, 2020, 91, 102162.	2.8	16

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19	Potential Use of Airborne Hyperspectral AVIRIS-NG Data for Mapping Proterozoic Metasediments in Banswara, India. Journal of the Geological Society of India, 2020, 95, 152-158.	1.1	12
20	Very low frequency electromagnetic (VLF-EM) study over Wajrakarur kimberlite Pipe 6 in Eastern Dharwar Craton, India. Journal of Earth System Science, 2020, 129, 1.	1.3	4
21	Emittance Spectroscopy and Broadband Thermal Remote Sensing Applied to Phosphorite and Its Utility in Geoexploration: A Study in the Parts of Rajasthan, India. Remote Sensing, 2019, 11, 1003.	4.0	22
22	Potential Use of ASTER Derived Emissivity, Thermal Inertia and Albedo Image for Discriminating Different Rock Types of Aravalli Group of Rocks, Rajasthan. Journal of the Geological Society of India, 2019, 94, 583-589.	1.1	1
23	ASTER multispectral bands, ground magnetic data, ground spectroscopy and space-based EIGEN6C4 gravity data model for identifying potential zones for gold sulphide mineralization in Bhukia, Rajasthan, India. Journal of Applied Geophysics, 2019, 160, 28-46.	2.1	24
24	Reflectance spectroscopy and ASTER based mapping of rock-phosphate in parts of Paleoproterozoic sequences of Aravalli group of rocks, Rajasthan, India. Ore Geology Reviews, 2019, 108, 73-87.	2.7	21
25	Potential of Airborne Hyperspectral Data for Geo-Exploration over Parts of Different Geological/Metallogenic Provinces in India based on AVIRIS-NG Observations. Current Science, 2019, 116, 1143.	0.8	19
26	Potential Utility of Spectral Angle Mapper and Spectral Information Divergence Methods for mapping lower Vindhyan Rocks and Their Accuracy Assessment with Respect to Conventional Lithological Map in Jharkhand, India. Journal of the Indian Society of Remote Sensing, 2018, 46, 737-747.	2.4	19
27	Comparative Analysis of Potentials of ASTER Thermal Infrared Band Derived Emissivity Composite, Radiance Composite and Emissivityâ€"Temperature Composite in Geological Mapping of Proterozoic Rocks in Parts of Banswara, Rajasthan. Journal of the Indian Society of Remote Sensing, 2018, 46, 771-782.	2.4	9
28	Satellite-Derived Regional Apparent Thermal Inertia and Gravity for Mapping Different Rock Types in Parts of Banswara, Rajasthan. Journal of the Geological Society of India, 2018, 92, 671-678.	1.1	9
29	Integrated Use of LANDSAT 8, ALOS-PALSAR, SRTM DEM and Ground GPR Data in Delineating Different Segments of Alluvial Fan System in Mahananda and Tista Rivers, West Bengal, India. Journal of the Indian Society of Remote Sensing, 2018, 46, 501-514.	2.4	6
30	Spectral Response of Few Important Textural Variants of Chromitite and its Potential in Estimating Relative Grades of Chromitite â€" A Case Study for Chromitite of Nuggihalli Schist Belt, India. Current Science, 2018, 114, 1721.	0.8	4
31	Earth observation-based approach for delineating geomorphology-guided geoenvironmental zones and its utility in regional planning: an analysis in parts of Bengal Basin, West Bengal, India. Environmental Earth Sciences, 2017, 76, 1.	2.7	4
32	Multi-sensor Space-Borne Earth Observation Data for Characterizing Fluvial-Geomorphic Provinces: A Case Study from Kosi River, India. Journal of the Indian Society of Remote Sensing, 2017, 45, 847-858.	2.4	1
33	Potentials of Spectrometry in Economic Rocks Mapping -A Brief Analysis for Three Economic Rocks of Three Different Geological Provinces of India. Journal of Remote Sensing & GIS, 2017, 06, .	0.3	0
34	New ASTER derived thermal indices to delineate mineralogy of different granitoids of an Archaean Craton and analysis of their potentials with reference to Ninomiya's indices for delineating quartz and mafic minerals of granitoidsâ€"An analysis in Dharwar Craton, India. Ore Geology Reviews, 2016, 74, 76-87.	2.7	35
35	Integrated approach of using ASTER-derived emissivity and pixel temperature for delineating different granitoids â€" a case study in parts of Dharwar Craton, India. Geocarto International, 2016, 31, 860-869.	3.5	15
36	Comparative analysis on utilisation of linear spectral unmixing and band ratio methods for processing ASTER data to delineate bauxite over a part of Chotonagpur plateau, Jharkhand, India. Geocarto International, 2016, 31, 367-384.	3.5	8

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37	Satellite based mapping and morphogenetic analysis of the landforms in the tertiary fold belts of parts of Tripura, India. Geocarto International, 2015, , 1-17.	3.5	7
38	Implementation of reflection spectroscopy based new ASTER indices and principal components to delineate chromitite and associated ultramafic–mafic complex in parts of Dharwar Craton, India. Advances in Space Research, 2015, 56, 1453-1468.	2.6	17
39	Reflectance spectroscopy of kimberlites–in parts of Dharwar Craton, India. Arabian Journal of Geosciences, 2015, 8, 9373-9388.	1.3	7
40	An approach of surface coal fire detection from ASTER and Landsat-8 thermal data: Jharia coal field, India. International Journal of Applied Earth Observation and Geoinformation, 2015, 39, 120-127.	2.8	29
41	Structural Control on Occurrence and Dynamics of Coalmine Fires in Jharia Coalfield: A Remote Sensing Based Analysis. Journal of the Indian Society of Remote Sensing, 2015, 43, 779-786.	2.4	13
42	Analysis of ASTER data for mapping bauxite rich pockets within high altitude lateritic bauxite, Jharkhand, India. International Journal of Applied Earth Observation and Geoinformation, 2013, 21, 184-194.	2.8	41
43	Potential of polarimetric Radarsat-2 data in geological mapping – a case study in parts of Dharwar craton, India. International Journal of Remote Sensing, 2013, 34, 1893-1904.	2.9	2
44	Issues and Limitations of Broad Band Remote Sensing of Kimberlite–A Case Example from Kimberlites of Dharwar Craton, India. International Journal of Geosciences, 2013, 04, 371-379.	0.6	5
45	Spectroscopic study of rocks of Hutti-Maski schist belt, Karnataka. Journal of the Geological Society of India, 2012, 79, 335-344.	1.1	20
46	Structural controls on coal fire distributions – Remote sensing based investigation in the Raniganj coalfield, West Bengal. Journal of the Geological Society of India, 2012, 79, 467-475.	1.1	20
47	Recent coal-fire and land-use status of Jharia Coalfield, India from satellite data. International Journal of Remote Sensing, 2010, 31, 3243-3262.	2.9	40
48	Potentials of alternate polarization of Envisat ASAR data in geological mapping – A case study in Kurnool Group of rocks, Andhra Pradesh. Journal of the Geological Society of India, 2009, 73, 268-272.	1.1	4
49	Satellite based observations on the deformation pattern in parts of Delhi fold belt, Jaipur, Rajasthan. Journal of the Geological Society of India, 2009, 74, 445-448.	1.1	1
50	Potential of thermal emissivity for mapping of greenstone rocks and associated granitoids of Hutti Maski Schist belt, Karnataka. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-8, 423-430.	0.2	7
51	IDENTIFICATION OF POTENTIAL ZONES FOR KIMBERLITE EXPLORATION – AN EARTH OBSERVATION APPROACH. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-5, 239-250.	0.2	1