LÃªnio S GalvÃ£o

List of Publications by Year
in descending order

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Version: 2024-02-01

95 papers	2,507 citations	186265 28 h-index	223800 46 g-index
96 all docs	96 docs citations	96 times ranked	3337 citing authors

#	Article	IF	Citations
1	Discrimination of sugarcane varieties in Southeastern Brazil with EO-1 Hyperion data. Remote Sensing of Environment, 2005, 94, 523-534.	11.0	230
2	On intra-annual EVI variability in the dry season of tropical forest: A case study with MODIS and hyperspectral data. Remote Sensing of Environment, 2011, 115, 2350-2359.	11.0	109
3	Combining LiDAR and hyperspectral data for aboveground biomass modeling in the Brazilian Amazon using different regression algorithms. Remote Sensing of Environment, 2019, 232, 111323.	11.0	89
4	Variability of Laboratory Measured Soil Lines of Soils from Southeastern Brazil. Remote Sensing of Environment, 1998, 63, 166-181.	11.0	83
5	Role of organic matter in obliterating the effects of iron on spectral reflectance and colour of Brazilian tropical soils. International Journal of Remote Sensing, 1998, 19, 1969-1979.	2.9	83
6	Variations in Reflectance of Tropical Soils. Remote Sensing of Environment, 2001, 75, 245-255.	11.0	82
7	Evaluation of hyperspectral data for pasture estimate in the Brazilian Amazon using field and imaging spectrometers. Remote Sensing of Environment, 2008, 112, 1569-1583.	11.0	82
8	Extreme learning machines for soybean classification in remote sensing hyperspectral images. Neurocomputing, 2014, 128, 207-216.	5.9	81
9	View angle effects on the discrimination of soybean varieties and on the relationships between vegetation indices and yield using off-nadir Hyperion data. Remote Sensing of Environment, 2009, 113, 846-856.	11.0	77
10	Spectral discrimination of hydrothermally altered materials using ASTER short-wave infrared bands: Evaluation in a tropical savannah environment. International Journal of Applied Earth Observation and Geoinformation, 2005, 7, 107-114.	2.8	65
11	Relationships between the mineralogical and chemical composition of tropical soils and topography from hyperspectral remote sensing data. ISPRS Journal of Photogrammetry and Remote Sensing, 2008, 63, 259-271.	11.1	64
12	Climate drivers of the Amazon forest greening. PLoS ONE, 2017, 12, e0180932.	2.5	63
13	Variations in reflectance with seasonality and viewing geometry: Implications for classification of Brazilian savanna physiognomies with MISR/Terra data. Remote Sensing of Environment, 2007, 107, 276-286.	11.0	51
14	View-illumination effects on hyperspectral vegetation indices in the Amazonian tropical forest. International Journal of Applied Earth Observation and Geoinformation, 2013, 21, 291-300.	2.8	50
15	Spectral analysis of amazon canopy phenology during the dry season using a tower hyperspectral camera and modis observations. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 131, 52-64.	11.1	47
16	Use of MISR/Terra data to study intra- and inter-annual EVI variations in the dry season of tropical forest. Remote Sensing of Environment, 2012, 127, 260-270.	11.0	38
17	Delineation of management zones in agricultural fields using coverâ€“crop biomass estimates from PlanetScope data. International Journal of Applied Earth Observation and Geoinformation, 2020, 85, 102004.	2.8	38
18	Effects of Band Positioning and Bandwidth on NDVI Measurements of Tropical Savannas. Remote Sensing of Environment, 1999, 67, 181-193.	11.0	34

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19	Directional effects on NDVI and LAI retrievals from MODIS: A case study in Brazil with soybean. International Journal of Applied Earth Observation and Geoinformation, 2011, 13, 34-42.	2.8	34
20	Sun and view angle effects on NDVI determination of land cover types in the Brazilian Amazon region with hyperspectral data. International Journal of Remote Sensing, 2004, 25, 1861-1879.	2.9	33
21	Changes in Physical Properties of Soils with Land Use Time in the Brazilian Savanna Environment. Land Degradation and Development, 2015, 26, 397-408.	3.9	33
22	Possibilities of discriminating tropical secondary succession in AmazÃ´nia using hyperspectral and multiangular CHRIS/PROBA data. International Journal of Applied Earth Observation and Geoinformation, 2009, 11, 8-14.	2.8	32
23	Potential of multispectral and hyperspectral data to detect saline-exposed soils in Brazil. GIScience and Remote Sensing, 2015, 52, 416-436.	5.9	32
24	Seasonality and drought effects of Amazonian forests observed from multi-angle satellite data. Remote Sensing of Environment, 2015, 171, 278-290.	11.0	32
25	Large-scale variations in the dynamics of Amazon forest canopy gaps from airborne lidar data and opportunities for tree mortality estimates. Scientific Reports, 2021, 11, 1388.	3.3	32
26	Spectral reflectance characterization of shallow lakes from the Brazilian Pantanal wetlands with field and airborne hyperspectral data. International Journal of Remote Sensing, 2003, 24, 4093-4112.	2.9	31
27	Investigation of terrain illumination effects on vegetation indices and VI-derived phenological metrics in subtropical deciduous forests. GIScience and Remote Sensing, 2016, 53, 360-381.	5.9	30
28	Hyperspectral Remote Sensing for Detecting Soil Salinization Using ProSpecTIR-VS Aerial Imagery and Sensor Simulation. Remote Sensing, 2017, 9, 42.	4.0	30
29	Quantifying Canopy Tree Loss and Gap Recovery in Tropical Forests under Low-Intensity Logging Using VHR Satellite Imagery and Airborne LiDAR. Remote Sensing, 2019, 11, 817.	4.0	30
30	Life cycle of bamboo in the southwestern Amazon and its relation to fire events. Biogeosciences, 2018, 15, 6087-6104.	3.3	29
31	Improvements of the MODIS Gross Primary Productivity model based on a comprehensive uncertainty assessment over the Brazilian Amazonia. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 145, 268-283.	11.1	29
32	Laboratory Salinization of Brazilian Alluvial Soils and the Spectral Effects of Gypsum. Remote Sensing, 2014, 6, 2647-2663.	4.0	27
33	Relationships between Hyperion-derived vegetation indices, biophysical parameters, and elevation data in a Brazilian savannah environment. Remote Sensing Letters, 2010, 1, 55-64.	1.4	26
34	The influence of spectral resolution on discriminating Brazilian sugarcane varieties. International Journal of Remote Sensing, 2006, 27, 769-777.	2.9	25
35	Monitoring Natural Ecosystem and Ecological Gradients: Perspectives with EnMAP. Remote Sensing, 2015, 7, 13098-13119.	4.0	25
36	Detection of sandy soil surfaces using ASTERâ€derived reflectance, emissivity and elevation data: potential for the identification of land degradation. International Journal of Remote Sensing, 2008, 29, 1833-1840.	2.9	24

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37	Effects of fire on above-ground forest biomass in the northern Brazilian Amazon. Journal of Tropical Ecology, 2012, 28, 591-601.	1.1	24
38	Sensitivity of ALOS/PALSAR imagery to forest degradation by fire in northern Amazon. International Journal of Applied Earth Observation and Geoinformation, 2016, 49, 163-174.	2.8	24
39	An adequate band positioning to enhance NDVI contrasts among green vegetation, senescent biomass, and tropical soils. International Journal of Remote Sensing, 2000, 21, 1953-1960.	2.9	23
40	Analyzing the Impacts of Frequency and Severity of Forest Fire on the Recovery of Disturbed Forest using Landsat Time Series and EO-1 Hyperion in the Southern Brazilian Amazon. Earth Interactions, 2011, 15, 1-17.	1.5	21
41	Spectral anisotropy of subtropical deciduous forest using MISR and MODIS data acquired under large seasonal variation in solar zenith angle. International Journal of Applied Earth Observation and Geoinformation, 2015, 35, 294-304.	2.8	20
42	Variation in spectral shape of urban materials. Remote Sensing Letters, 2010, 1, 149-158.	1.4	18
43	Reference spectra to classify Amazon water types. International Journal of Remote Sensing, 2012, 33, 3422-3442.	2.9	18
44	Sensitivity of Seven MODIS Vegetation Indices to BRDF Effects during the Amazonian Dry Season. Remote Sensing, 2019, 11, 1650.	4.0	18
45	Dynamics of savanna clearing and land degradation in the newest agricultural frontier in Brazil. GIScience and Remote Sensing, 2020, 57, 965-984.	5.9	18
46	AnÃ¡lise derivativa de dados hiperespectrais medidos em nÃ¬vel de campo e orbital para caracterizar a composiÃ§Ã£o de Ã¡guas opticamente complexas na AmazÃ´nia. Acta Amazonica, 2007, 37, 269-280.	0.7	17
47	Seasonal characterization and discrimination of savannah physiognomies in Brazil using hyperspectral metrics from Hyperion/EO-1. International Journal of Remote Sensing, 2017, 38, 4494-4516.	2.9	17
48	PALSAR-2/ALOS-2 AND OLI/LANDSAT-8 DATA INTEGRATION FOR LAND USE AND LAND COVER MAPPING IN NORTHERN BRAZILIAN AMAZON. Boletim De Ciencias Geodesicas, 2018, 24, 250-269.	0.3	17
49	View angle effects on the discrimination of selected Amazonian land cover types from a principalâ€component analysis of MISR spectra. International Journal of Remote Sensing, 2005, 26, 3797-3811.	2.9	16
50	Quantitative approach in the spectral reflectance-lithostratigraphy of the Wind River and southern Bighorn basins, Wyoming. International Journal of Remote Sensing, 1995, 16, 1617-1631.	2.9	15
51	Carbon Dynamics in a Human-Modified Tropical Forest: A Case Study Using Multi-Temporal LiDAR Data. Remote Sensing, 2020, 12, 430.	4.0	15
52	Terrain characteristics of a tonal anomaly remotely detected in an area of hydrocarbon microseepage, Tucano Basin, north-eastern Brazil. International Journal of Remote Sensing, 2002, 23, 3893-3898.	2.9	14
53	Spectral/textural attributes from ALI/EO-1 for mapping primary and secondary tropical forests and studying the relationships with biophysical parameters. GIScience and Remote Sensing, 2014, 51, 677-694.	5.9	14
54	Vegetation chlorophyll estimates in the Amazon from multi-angle MODIS observations and canopy reflectance model. International Journal of Applied Earth Observation and Geoinformation, 2017, 58, 278-287.	2.8	14

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55	Aboveground biomass estimates over Brazilian savannas using hyperspectral metrics and machine learning models: experiences with Hyperion/EO-1. GIScience and Remote Sensing, 2021, 58, 1112-1129.	5.9	14
56	Floristic and structure of an Amazonian primary forest and a chronosequence of secondary succession. Acta Amazonica, 2016, 46, 133-150.	0.7	13
57	Reflectance of floodplain waterbodies using EOâ€1 Hyperion data from high and receding flood periods of the Amazon River. International Journal of Remote Sensing, 2009, 30, 2713-2720.	2.9	12
58	Sun-sensor geometry effects on vegetation index anomalies in the Amazon rainforest. GIScience and Remote Sensing, 2015, 52, 332-343.	5.9	12
59	Reducing the effects of vegetation phenology on change detection in tropical seasonal biomes. GIScience and Remote Sensing, 2019, 56, 699-717.	5.9	12
60	Impact of multi-angular CHRIS/PROBA data on their empirical relationships with tropical forest biomass. International Journal of Remote Sensing, 2010, 31, 5257-5273.	2.9	11
61	Analysis of agricultural intensification in a basin with remote sensing data. GIScience and Remote Sensing, 2014, 51, 253-268.	5.9	11
62	Soil, land use time, and sustainable intensification of agriculture in the Brazilian Cerrado region. Environmental Monitoring and Assessment, 2017, 189, 70.	2.7	11
63	Use of MSI/Sentinel-2 and airborne LiDAR data for mapping vegetation and studying the relationships with soil attributes in the Brazilian semi-arid region. International Journal of Applied Earth Observation and Geoinformation, 2018, 73, 179-190.	2.8	11
64	Influence of data acquisition geometry on soybean spectral response simulated by the prosail model. Engenharia Agricola, 2013, 33, 176-187.	0.7	11
65	Crop area estimate from original and simulated spatial resolution data and landscape metrics. Scientia Agricola, 2008, 65, 459-467.	1.2	11
66	Following a site-specific secondary succession in the Amazon using the Landsat CDR product and field inventory data. International Journal of Remote Sensing, 2015, 36, 574-596.	2.9	10
67	Dynamics of limnological parameters in reservoirs: A case study in South Brazil using remote sensing and meteorological data. Science of the Total Environment, 2017, 574, 253-263.	8.0	10
68	AnÃ¡lise da dinÂ¢mica sazonal e separabilidade espectral de algumas fitofisionomias do cerrado com Ãndices de vegetaÃ§Ã£o dos sensores MODIS/TERRA e AQUA. Revista Arvore, 2007, 31, 295-305.	0.5	10
69	Spatial resolution influence on the identification of land cover classes in the Amazon environment. Anais Da Academia Brasileira De Ciencias, 2002, 74, 717-725.	0.8	9
70	Relationships between MODIS phenological metrics, topographic shade, and anomalous temperature patterns in seasonal deciduous forests of south Brazil. International Journal of Remote Sensing, 2015, 36, 4501-4518.	2.9	9
71	A hyperspectral experiment over tropical forests based on the EO-1 orbit change and PROSAIL simulation. GIScience and Remote Sensing, 2020, 57, 74-90.	5.9	9
72	Modelling aboveground biomass in forest remnants of the Brazilian Atlantic Forest using remote sensing, environmental and terrain-related data. Geocarto International, 2021, 36, 281-298.	3.5	9

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73	Potential of hyperspectral metrics and classifiers for mapping Brazilian savannas in the rainy and dry seasons. Remote Sensing Applications: Society and Environment, 2017, 8, 20-29.	1.5	8
74	Assessing the effect of spatial resolution on the delineation of management zones for smallholder farming in southern Brazil. Remote Sensing Applications: Society and Environment, 2020, 19, 100325.	1.5	7
75	The combined use of reflectance, emissivity and elevation Aster/Terra data for tropical soil studies. Revista Brasileira De Ciencia Do Solo, 2009, 33, 1785-1794.	1.3	6
76	Variation of MODIS reflectance and vegetation indices with viewing geometry and soybean development. Anais Da Academia Brasileira De Ciencias, 2012, 84, 263-274.	0.8	6
77	Scaling estimates of vegetation structure in Amazonian tropical forests using multi-angle MODIS observations. International Journal of Applied Earth Observation and Geoinformation, 2016, 52, 580-590.	2.8	6
78	Assessing the Long-Term Variability of TSS and Chlorophyll in Subtropical Reservoirs Using MODIS Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 5406-5412.	4.9	6
79	On a Data-Driven Approach for Detecting Disturbance in the Brazilian Savannas Using Time Series of Vegetation Indices. Remote Sensing, 2021, 13, 4959.	4.0	6
80	Evaluating the discrimination of Cuâ€mineralized rock alteration products from simulated MAPSAR Images in the CuraÃ§Ã¡ Valley, Brazil. International Journal of Remote Sensing, 2007, 28, 4701-4708.	2.9	5
81	Topographic effects on the determination of hyperspectral vegetation indices: a case study in southeastern Brazil. Geocarto International, 2021, 36, 2186-2203.	3.5	5
82	MODIS BRDF effects over Brazilian tropical forests and savannahs: a comparative analysis. Remote Sensing Letters, 2019, 10, 95-102.	1.4	5
83	CaracterizaÃ§Ã£o mineralÃ³gica de solos tropicais por sensoriamento remoto hiperespectral. Pesquisa Agropecuaria Brasileira, 2001, 36, 1277-1286.	0.9	5
84	EficÃ¡cia de dados Hyperion/EO-1 para identificaÃ§Ã£o de alvos agrÃcolas: comparaÃ§Ã£o com dados ETM+/Landsat-7. Engenharia Agricola, 2007, 27, 511-519.	0.7	4
85	Smoke effects on NDVI determination of savannah vegetation types. International Journal of Remote Sensing, 2003, 24, 4225-4231.	2.9	3
86	Effect of Nitrogen and Endophytic Bacteria on Biophysical and Spectral Parameters of Wheat Canopy. Agronomy Journal, 2010, 102, 544-552.	1.8	3
87	ANÃLISE DO NÃVEL DE LEGENDA DE CLASSIFICAÃ‡ÃƒO DE AREAS URBANAS EMPREGANDO IMAGENS MULTIESPECTRAIS E HIPERESPECTRAIS COM OS MÃ‰TODOS ÃRVORE DE DECISÃƒO C4.5 E FLORESTA RANDÃ”MICA. Boletim De Ciencias Geodesicas, 2017, 23, 371-388.	0.3	3
88	Determining aboveground biomass of the forest successional chronosequence in a test-site of Brazilian Amazon through X- and L-band data analysis. , 2014, , .		2
89	DinÃ¢mica da Floresta do Parque Estadual do Turvo com Ãndices de VegetaÃ§Ã£o. Floresta E Ambiente, 2013, , .	0.4	2
90	On the combined use of phenological metrics derived from different PlanetScope vegetation indices for classifying savannas in Brazil. Remote Sensing Applications: Society and Environment, 2022, 26, 100764.	1.5	2

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91	Estimates of land use and land cover change and soil loss in the Brazilian Cerrado through geotechnology. , 2012, , .		1
92	Evaluation of the Effects of Pine Management on the Water Yield and Quality in Southern Brazil. Journal of Sustainable Forestry, 2021, 40, 217-233.	1.4	1
93	AnÃ¡lise fitossociolÃ³gica de um fragmento de Floresta Estacional Decidual: Parque Estadual do Turvo, RS. Pesquisa Florestal Brasileira, 2016, 36, 103.	0.1	1
94	Land use intensity assessed through geotechnology in Brazilian savannah and the effects on soil nutrient. , 2013, , .		0
95	VariaÃ§Ãµes da reflectÃ¢ncia e dos Ãndices de vegetaÃ§Ã£o em funÃ§Ã£o dos parÃ¢metros da modelagem topogrÃ¡fica no Parque Estadual do Turvo, Rio Grande do Sul, Brasil. Investigaciones GeogrÃ¡ficas, 2016, , .	0.1	0