

Marcos Rafael Nanni

List of Publications by Year in descending order

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88
papers

1,683
citations

331670

21
h-index

315739

38
g-index

90
all docs

90
docs citations

90
times ranked

1536
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectral Reflectance Methodology in Comparison to Traditional Soil Analysis. Soil Science Society of America Journal, 2006, 70, 393-407.	2.2	241
2	Visible-NIR reflectance: a new approach on soil evaluation. Geoderma, 2004, 121, 95-112.	5.1	184
3	The Brazilian Soil Spectral Library (BSSL): A general view, application and challenges. Geoderma, 2019, 354, 113793.	5.1	100
4	Determining soil water status and other soil characteristics by spectral proximal sensing. Geoderma, 2006, 135, 179-195.	5.1	61
5	Quantification of tropical soil attributes from ETM+/LANDSAT-7 data. International Journal of Remote Sensing, 2007, 28, 3813-3829.	2.9	57
6	Optimum size in grid soil sampling for variable rate application in site-specific management. Scientia Agricola, 2011, 68, 386-392.	1.2	51
7	UAV-based thermal imaging in the assessment of water status of soybean plants. International Journal of Remote Sensing, 2020, 41, 3243-3265.	2.9	49
8	Vegetation Indices for Discrimination of Soybean Areas: A New Approach. Agronomy Journal, 2017, 109, 1331-1343.	1.8	48
9	Distinct growth light and gibberellin regimes alter leaf anatomy and reveal their influence on leaf optical properties. Environmental and Experimental Botany, 2017, 140, 86-95.	4.2	44
10	Soybean varieties discrimination using non-imaging hyperspectral sensor. Infrared Physics and Technology, 2018, 89, 338-350.	2.9	44
11	Nitrogen-improved photosynthesis quantum yield is driven by increased thylakoid density, enhancing green light absorption. Plant Science, 2019, 278, 1-11.	3.6	42
12	Satellite land surface temperature and reflectance related with soil attributes. Geoderma, 2018, 325, 125-140.	5.1	36
13	High resolution leaf spectral signature as a tool for foliar pigment estimation displaying potential for species differentiation. Journal of Plant Physiology, 2020, 249, 153161.	3.5	32
14	Spectral reflectance for the mineralogical evaluation of Brazilian low clay activity soils. International Journal of Remote Sensing, 2007, 28, 4537-4559.	2.9	28
15	Partial least squares regression (PLSR) associated with spectral response to predict soil attributes in transitional lithologies. Archives of Agronomy and Soil Science, 2018, 64, 682-695.	2.6	27
16	Weathering sequence of soils developed from basalt as evaluated by laboratory (IRIS), airborne (AVIRIS) and orbital (TM) sensors. International Journal of Remote Sensing, 2003, 24, 4715-4738.	2.9	26
17	Comportamento da linha do solo obtida por espectrorradiometria laboratorial para diferentes classes de solo. Revista Brasileira De Ciencia Do Solo, 2006, 30, 1031-1038.	1.3	25
18	Análise discriminante dos solos por meio da resposta espectral no nível terrestre. Pesquisa Agropecuaria Brasileira, 2004, 39, 995-1006.	0.9	25

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19	Vegetation indices and NIR-SWIR spectral bands as a phenotyping tool for water status determination in soybean. <i>Precision Agriculture</i> , 2021, 22, 249-266.	6.0	24
20	Effect of fermentation residue on the spectral reflectance properties of soils. <i>Geoderma</i> , 2004, 120, 187-200.	5.1	21
21	Methodology for Bare Soil Detection and Discrimination by Landsat TM Image. <i>The Open Remote Sensing Journal</i> , 2009, 2, 24-35.	0.5	21
22	Infiltração de Água no solo em um latossolo vermelho da região sudoeste dos cerrados com diferentes sistemas de uso e manejo. <i>Revista Brasileira De Ciencia Do Solo</i> , 2012, 36, 1845-1853.	1.3	18
23	Semi professional digital camera calibration techniques for Vis/NIR spectral data acquisition from an unmanned aerial vehicle. <i>International Journal of Remote Sensing</i> , 2017, 38, 2717-2736.	2.9	18
24	Qualidade física de um latossolo sob plantio direto influenciada pela cobertura do solo. <i>Revista Brasileira De Ciencia Do Solo</i> , 2012, 36, 79-87.	1.3	18
25	SOIL CHEMICAL ALTERATIONS PROMOTED BY FERTILIZER APPLICATION ASSESSED BY SPECTRAL REFLECTANCE. <i>Soil Science</i> , 2003, 168, 730-747.	0.9	17
26	Soil density evaluated by spectral reflectance as an evidence of compaction effects. <i>International Journal of Remote Sensing</i> , 2010, 31, 403-422.	2.9	17
27	VIS-NIR-SWIR spectroscopy in soil evaluation along a toposequence in Piracicaba. <i>Revista Ciencia Agronomica</i> , 2015, 46, 679-688.	0.3	17
28	Organic matter and sand estimates by spectroradiometry: Strategies for the development of models with applicability at a local scale. <i>Geoderma</i> , 2019, 340, 224-233.	5.1	16
29	Mapping Particle Size and Soil Organic Matter in Tropical Soil Based on Hyperspectral Imaging and Non-Imaging Sensors. <i>Remote Sensing</i> , 2021, 13, 1782.	4.0	16
30	Classification of Soybean Genotypes Assessed Under Different Water Availability and at Different Phenological Stages Using Leaf-Based Hyperspectral Reflectance. <i>Remote Sensing</i> , 2021, 13, 172.	4.0	15
31	Identification and classification of Asian soybean rust using leaf-based hyperspectral reflectance. <i>International Journal of Remote Sensing</i> , 2021, 42, 4177-4198.	2.9	15
32	Diferença espectral de solos utilizando dados obtidos em laboratório e por sensor orbital. <i>Bragantia</i> , 2010, 69, 453-466.	1.3	15
33	Clay content prediction using spectra data collected from the ground to space platforms in a smallholder tropical area. <i>Geoderma</i> , 2021, 399, 115116.	5.1	14
34	Visão NIR spectroscopy: from leaf dry mass production estimate to the prediction of macro- and micronutrients in soybean crops. <i>Journal of Applied Remote Sensing</i> , 2020, 14, .	1.3	14
35	REMOTE SENSING IN THE RECOGNITION AND MAPPING OF TROPICAL SOILS DEVELOPED ON TOPOGRAPHIC SEQUENCES. <i>Mapping Sciences and Remote Sensing</i> , 2001, 38, 79-102.	0.0	13
36	Rapid quantification of alkaloids, sugar and yield of tobacco (<i>Nicotiana tabacum</i> L.) varieties by using Visão NIR-SWIR spectroradiometry. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 274, 121082.	3.9	13

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37	Stratigraphic control and chronology of peat bog deposition in the Serra do Espinha�so Meridional, Brazil. <i>Catena</i> , 2016, 143, 167-173.	5.0	12
38	Hyperspectral reflectance imaging to classify lettuce varieties by optimum selected wavelengths and linear discriminant analysis. <i>Remote Sensing Applications: Society and Environment</i> , 2020, 20, 100400.	1.5	12
39	Remote Sensing from Ground to Space Platforms Associated with Terrain Attributes as a Hybrid Strategy on the Development of a Pedological Map. <i>Remote Sensing</i> , 2016, 8, 826.	4.0	11
40	Object-based image analysis supported by data mining to discriminate large areas of soybean. <i>International Journal of Digital Earth</i> , 2019, 12, 270-292.	3.9	10
41	Identification and quantification of potassium (K ⁺) deficiency in maize plants using an unmanned aerial vehicle and visible / near-infrared semi-professional digital camera. <i>International Journal of Remote Sensing</i> , 2021, 42, 8783-8804.	2.9	10
42	Yield Prediction in Soybean Crop Grown under Different Levels of Water Availability Using Reflectance Spectroscopy and Partial Least Squares Regression. <i>Remote Sensing</i> , 2021, 13, 977.	4.0	10
43	Strategies for monitoring within-field soybean yield using Sentinel-2 Vis-NIR-SWIR spectral bands and machine learning regression methods. <i>Precision Agriculture</i> , 2022, 23, 1093-1123.	6.0	10
44	Soil Mapping by Laboratory and Orbital Spectral Sensing Compared with a Traditional Method in a Detailed Level. <i>Journal of Agronomy</i> , 2014, 13, 100-109.	0.4	9
45	Floristic and phytosociological description of a riparian forest and the relationship with the edaphic environment in Caiu� Ecological Station - Paran� - Brazil. <i>Brazilian Archives of Biology and Technology</i> , 2006, 49, 785-798.	0.5	8
46	Soil surface spectral data from Landsat imagery for soil class discrimination. <i>Acta Scientiarum - Agronomy</i> , 2012, 34, .	0.6	8
47	Evaluation of the use of spectroradiometry for the determination of soil exchangeable ions after the application of mining coproducts. <i>Applied Spectroscopy Reviews</i> , 2020, 55, 491-508.	6.7	8
48	Caracter�sticas agron�micas associadas com �ndices de vegeta�o medidos por sensores ativos de dossel na cultura da soja. <i>Semina: Ciencias Agrarias</i> , 2013, 34, 517-526.	0.3	7
49	Influence of the structural framework on peat bog distribution in the tropical highlands of Minas Gerais, Brazil. <i>Catena</i> , 2017, 156, 228-236.	5.0	7
50	Simulating multispectral MSI bandsets (Sentinel-2) from hyperspectral observations via spectroradiometer for identifying soybean cultivars. <i>Remote Sensing Applications: Society and Environment</i> , 2020, 19, 100328.	1.5	7
51	Mining Co-products as Sources of Multi-nutrients for Cultivation of <i>Brachiaria ruziziensis</i> . <i>Natural Resources Research</i> , 2021, 30, 849-865.	4.7	7
52	Strategies for the Development of Spectral Models for Soil Organic Matter Estimation. <i>Remote Sensing</i> , 2021, 13, 1376.	4.0	7
53	Assessing the potential of using high spatial resolution daily NDVI-time-series from planet CubeSat images for crop monitoring. <i>International Journal of Remote Sensing</i> , 2021, 42, 7114-7142.	2.9	7
54	Integration of gis technology, remote sensing and multivariate analysis in the delimitation of physiographic units for pedological mapping. <i>Boletim IG - Universidade De Sao Paulo, Instituto De Geociencias</i> , 1997, 28, 129.	0.0	7

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55	Using GNIR and RNIR Extracted by Digital Images to Detect Different Levels of Nitrogen in Corn. <i>Journal of Agronomy</i> , 2015, 14, 62-71.	0.4	7
56	Simple, Fast and Efficient Methods for Analysing the Structural, Ultrastructural and Cellular Components of the Cell Wall. <i>Plants</i> , 2022, 11, 995.	3.5	7
57	Multi-scale mapping of oil-sands in Anhembi (Brazil) using imaging spectroscopy. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2019, 82, 101894.	2.8	6
58	Reflectance calibration of UAV-based visible and near-infrared digital images acquired under variant altitude and illumination conditions. <i>Remote Sensing Applications: Society and Environment</i> , 2020, 18, 100312.	1.5	6
59	In situ separation of soil types along transects employing Vis-NIR sensors: a new view of soil evaluation. <i>Revista Ciencia Agronomica</i> , 2014, 45, 433-442.	0.3	6
60	Detection of soil organic matter using hyperspectral imaging sensor combined with multivariate regression modeling procedures. <i>Remote Sensing Applications: Society and Environment</i> , 2021, 22, 100492.	1.5	5
61	Estimativa de atributos do solo por meio de espectrorradiometria difusa. <i>Revista Brasileira De Ciencia Do Solo</i> , 2013, 37, 858-868.	1.3	5
62	CO2Flux Model Assessment and Comparison between an Airborne Hyperspectral Sensor and Orbital Multispectral Imagery in Southern Amazonia. <i>Sustainability</i> , 2022, 14, 5458.	3.2	5
63	Chemical contamination of water in irrigated rice on Paraná State, Brazil. <i>Semina: Ciencias Agrarias</i> , 2012, 33, 1455-1462.	0.3	4
64	Mining coproducts as alternative sources of nutrients for the cultivation of sugarcane (<i>Saccharum</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.3	4
65	Avaliação e quantificação das frações silte, areia e argila por meio de suas respectivas reflectâncias. <i>Revista Brasileira De Ciencia Do Solo</i> , 2012, 36, 1157-1166.	1.3	4
66	Spectral classification of soils: A case study of Brazilian flooded soils. <i>Remote Sensing Applications: Society and Environment</i> , 2017, 6, 39-45.	1.5	3
67	Principal Component Analysis in Monitoring Soybean Fields of Brazil through the MODIS Sensor. <i>Journal of Agronomy</i> , 2015, 14, 72-79.	0.4	3
68	Caracterização e comparação do comportamento espectral de atributos do solo obtidos por sensores orbitais (ASTER e TM) e terrestre (IRIS) / Characterization and comparison of soil spectral response obtained from orbital (ASTER and TM) and terrestrial (IRIS) sensors. <i>Ambiência</i> , 2013, 9, 279-288.	0.1	3
69	Mapeamento de Áreas agrícolas na safra de verão a partir de imagens Landsat frente aos dados oficiais. <i>Agro@ambiente on-line</i> , 2017, 10, 287.	0.2	3
70	Assessing phosphorus nutritional status in maize plants using leaf-based hyperspectral measurements and multivariate analysis. <i>International Journal of Remote Sensing</i> , 2022, 43, 2581-2601.	2.9	3
71	Estimating technological parameters and stem productivity of sugarcane treated with rock powder using a proximal spectroradiometer Vis-NIR-SWIR. <i>Industrial Crops and Products</i> , 2022, 186, 115278.	5.2	3
72	Influência do peso vivo, da idade e do sexo sobre características de carcaças de equinos. <i>Revista Brasileira De Zootecnia</i> , 2010, 39, 2683-2686.	0.8	2

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73	Hyperspectral remote detection as an alternative to correlate data of soil constituents. Remote Sensing Applications: Society and Environment, 2019, 16, 100270.	1.5	2
74	Uso de sistema GPR (Ground Penetrating Radar) na avaliação de atributos de um solo sob plantio de cana-de-açúcar. Revista Brasileira De Ciencia Do Solo, 2010, 34, 291-298.	1.3	2
75	Using leaf-based hyperspectral reflectance for genotype classification within a soybean germplasm collection assessed under different levels of water availability. International Journal of Remote Sensing, 2021, 42, 8165-8184.	2.9	2
76	Spectral Method for Liming Recommendation in Oxisol Based on the Prediction of Chemical Characteristics Using Interval Partial Least Squares Regression. Remote Sensing, 2022, 14, 1972.	4.0	2
77	Relationship Between Vegetation Indices, Nutrients Content, and the Biomass Production of <i>Brachiaria (i>Brachiaria ruziziensis</i>). Communications in Soil Science and Plant Analysis, 2022, 53, 2400-2419.</i>	1.4	2
78	Determinação da variabilidade espacial de alumínio em função da distribuição de argila em solos de Quênia do Norte/Paraná, Brasil. Semina:Ciencias Agrarias, 2011, 32, 1335-1344.	0.3	1
79	Modelagem de um complexo de inundação por meio de sistema de informações geográficas. Bragantia, 2010, 69, 485-491.	1.3	1
80	Geoprocessamento na avaliação espacial de variáveis do solo da região de Rafard-SP. Revista Brasileira De Tecnologia Aplicada Nas Ciências Agrárias, 2011, 4, 7-29.	0.1	1
81	Soil Survey Scale and its Effect on Land use Planning. Mapping Sciences and Remote Sensing, 2002, 39, 258-272.	0.0	0
82	Caracterização de alguns atributos do solo e sua correlação com a paisagem em uma porção do noroeste do Estado do Paraná. Acta Scientiarum - Agronomy, 2008, 30, .	0.6	0
83	Discriminação de unidades de paisagem para fins de levantamentos pedológicos por meio da resposta espectral orbital. Acta Scientiarum - Agronomy, 2010, 32, .	0.6	0
84	Uso de dados espectrais para estimar a relação entre óxidos de ferro e minerais 2:1 com suas respectivas reflectâncias. Semina:Ciencias Agrarias, 2013, 34, .	0.3	0
85	SOIL SPECTRAL MAPPING AND ITS CORRELATION WITH THE TRADITIONAL METHODOLOGY. Boletim De Ciencias Geodesicas, 2018, 24, 202-216.	0.3	0
86	Emprego de GPR no estudo de solos e sua correlação com métodos laboratoriais. Semina:Ciencias Agrarias, 2012, 33, 979-988.	0.3	0
87	Assessing soil mineralogy and weathering degree by a multi-range sensor synergistic approach: From parent rock to topsoil. Journal of South American Earth Sciences, 2022, 116, 103855.	1.4	0
88	The use of Vis-NIR-SWIR spectroscopy in the prediction of soil available ions after application of rock powder. Information Processing in Agriculture, 2024, 11, 26-44.	4.1	0