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	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
2	Simple, Fast and Efficient Methods for Analysing the Structural, Ultrastructural and Cellular Components of the Cell Wall. Plants, 2022, 11, 995.	3.5	7
3	Rapid quantification of alkaloids, sugar and yield of tobacco (Nicotiana tabacum L.) varieties by using Visâ€“NIRâ€“SWIR spectroradiometry. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 274, 121082.	3.9	13
4	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
5	Strategies for monitoring within-field soybean yield using Sentinel-2 Vis-NIR-SWIR spectral bands and machine learning regression methods. Precision Agriculture, 2022, 23, 1093-1123.	6.0	10
6	Assessing phosphorus nutritional status in maize plants using leaf-based hyperspectral measurements and multivariate analysis. International Journal of Remote Sensing, 2022, 43, 2581-2601.	2.9	3
7	Relationship Between Vegetation Indices, Nutrients Content, and the Biomass Production of Brachiaria (Brachiaria ruziziensis). Communications in Soil Science and Plant Analysis, 2022, 53, 2400-2419.	1.4	2
8	CO2Flux Model Assessment and Comparison between an Airborne Hyperspectral Sensor and Orbital Multispectral Imagery in Southern Amazonia. Sustainability, 2022, 14, 5458.	3.2	5
9	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
10	Estimating technological parameters and stem productivity of sugarcane treated with rock powder using a proximal spectroradiometer Vis-NIR-SWIR. Industrial Crops and Products, 2022, 186, 115278.	5.2	3
11	Vegetation indices and NIR-SWIR spectral bands as a phenotyping tool for water status determination in soybean. Precision Agriculture, 2021, 22, 249-266.	6.0	24
12	Mining Co-products as Sources of Multi-nutrients for Cultivation of Brachiaria ruziziensis. Natural Resources Research, 2021, 30, 849-865.	4.7	7
13	Identification and quantification of potassium (K⁺) deficiency in maize plants using an unmanned aerial vehicle and visible / near-infrared semi-professional digital camera. International Journal of Remote Sensing, 2021, 42, 8783-8804.	2.9	10
14	Classification of Soybean Genotypes Assessed Under Different Water Availability and at Different Phenological Stages Using Leaf-Based Hyperspectral Reflectance. Remote Sensing, 2021, 13, 172.	4.0	15
15	Identification and classification of Asian soybean rust using leaf-based hyperspectral reflectance. International Journal of Remote Sensing, 2021, 42, 4177-4198.	2.9	15
16	Yield Prediction in Soybean Crop Grown under Different Levels of Water Availability Using Reflectance Spectroscopy and Partial Least Squares Regression. Remote Sensing, 2021, 13, 977.	4.0	10
17	Detection of soil organic matter using hyperspectral imaging sensor combined with multivariate regression modeling procedures. Remote Sensing Applications: Society and Environment, 2021, 22, 100492.	1.5	5
18	Mining coproducts as alternative sources of nutrients for the cultivation of sugarcane (Saccharum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	9.3	4

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19	Strategies for the Development of Spectral Models for Soil Organic Matter Estimation. Remote Sensing, 2021, 13, 1376.	4.0	7
20	Mapping Particle Size and Soil Organic Matter in Tropical Soil Based on Hyperspectral Imaging and Non-Imaging Sensors. Remote Sensing, 2021, 13, 1782.	4.0	16
21	Assessing the potential of using high spatial resolution daily NDVI-time-series from planet CubeSat images for crop monitoring. International Journal of Remote Sensing, 2021, 42, 7114-7142.	2.9	7
22	Clay content prediction using spectra data collected from the ground to space platforms in a smallholder tropical area. Geoderma, 2021, 399, 115116.	5.1	14
23	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
24	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
25	Evaluation of the use of spectroradiometry for the determination of soil exchangeable ions after the application of mining coproducts. Applied Spectroscopy Reviews, 2020, 55, 491-508.	6.7	8
26	Hyperspectral reflectance imaging to classify lettuce varieties by optimum selected wavelengths and linear discriminant analysis. Remote Sensing Applications: Society and Environment, 2020, 20, 100400.	1.5	12
27	Simulating multispectral MSI bandsets (Sentinel-2) from hyperspectral observations via spectroradiometer for identifying soybean cultivars. Remote Sensing Applications: Society and Environment, 2020, 19, 100328.	1.5	7
28	Reflectance calibration of UAV-based visible and near-infrared digital images acquired under variant altitude and illumination conditions. Remote Sensing Applications: Society and Environment, 2020, 18, 100312.	1.5	6
29	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
30	Visâ€“NIR spectroscopy: from leaf dry mass production estimate to the prediction of macro- and micronutrients in soybean crops. Journal of Applied Remote Sensing, 2020, 14, .	1.3	14
31	The Brazilian Soil Spectral Library (BSSL): A general view, application and challenges. Geoderma, 2019, 354, 113793.	5.1	100
32	Hyperspectral remote detection as an alternative to correlate data of soil constituents. Remote Sensing Applications: Society and Environment, 2019, 16, 100270.	1.5	2
33	Multi-scale mapping of oil-sands in Anhembi (Brazil) using imaging spectroscopy. International Journal of Applied Earth Observation and Geoinformation, 2019, 82, 101894.	2.8	6
34	Organic matter and sand estimates by spectroradiometry: Strategies for the development of models with applicability at a local scale. Geoderma, 2019, 340, 224-233.	5.1	16
35	Nitrogen-improved photosynthesis quantum yield is driven by increased thylakoid density, enhancing green light absorption. Plant Science, 2019, 278, 1-11.	3.6	42
36	Object-based image analysis supported by data mining to discriminate large areas of soybean. International Journal of Digital Earth, 2019, 12, 270-292.	3.9	10

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37	Soybean varieties discrimination using non-imaging hyperspectral sensor. Infrared Physics and Technology, 2018, 89, 338-350.	2.9	44
38	Satellite land surface temperature and reflectance related with soil attributes. Geoderma, 2018, 325, 125-140.	5.1	36
39	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
40	SOIL SPECTRAL MAPPING AND ITS CORRELATION WITH THE TRADITIONAL METHODOLOGY. Boletim De Ciencias Geodesicas, 2018, 24, 202-216.	0.3	0
41	Spectral classification of soils: A case study of Brazilian flooded soils. Remote Sensing Applications: Society and Environment, 2017, 6, 39-45.	1.5	3
42	Influence of the structural framework on peat bog distribution in the tropical highlands of Minas Gerais, Brazil. Catena, 2017, 156, 228-236.	5.0	7
43	Vegetation Indices for Discrimination of Soybean Areas: A New Approach. Agronomy Journal, 2017, 109, 1331-1343.	1.8	48
44	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
45	Semi professional digital camera calibration techniques for Vis/NIR spectral data acquisition from an unmanned aerial vehicle. International Journal of Remote Sensing, 2017, 38, 2717-2736.	2.9	18
46	Mapeamento de Ã¡reas agrÃ¢colas na safra de verÃ£o a partir de imagens Landsat frente aos dados oficiais. Agro@mbiente on-line, 2017, 10, 287.	0.2	3
47	Remote Sensing from Ground to Space Platforms Associated with Terrain Attributes as a Hybrid Strategy on the Development of a Pedological Map. Remote Sensing, 2016, 8, 826.	4.0	11
48	Stratigraphic control and chronology of peat bog deposition in the Serra do EspinhaÃ§o Meridional, Brazil. Catena, 2016, 143, 167-173.	5.0	12
49	Using GNIR and RNIR Extracted by Digital Images to Detect Different Levels of Nitrogen in Corn. Journal of Agronomy, 2015, 14, 62-71.	0.4	7
50	Principal Component Analysis in Monitoring Soybean Fields of Brazil through the MODIS Sensor. Journal of Agronomy, 2015, 14, 72-79.	0.4	3
51	VIS-NIR-SWIR spectroscopy in soil evaluation along a toposequence in Piracicaba. Revista Ciencia Agronomica, 2015, 46, 679-688.	0.3	17
52	In situ separation of soil types along transects employing Vis-NIR sensors: a new view of soil evaluation. Revista Ciencia Agronomica, 2014, 45, 433-442.	0.3	6
53	Soil Mapping by Laboratory and Orbital Spectral Sensing Compared with a Traditional Method in a Detailed Level. Journal of Agronomy, 2014, 13, 100-109.	0.4	9
54	CaracterÃsticas agronÃ´micas associadas com Ãndices de vegetaÃ§Ã£o medidos por sensores ativos de dossel na cultura da soja. Semina:Ciencias Agrarias, 2013, 34, 517-526.	0.3	7

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55	Uso de dados espectrais para estimar a relaÃ§Ã£o entre Ã³xidos de ferro e minerais 2:1 com suas respectivas reflectÃ¢ncias. Semina:Ciencias Agrarias, 2013, 34, .	0.3	0
56	Estimativa de atributos do solo por meio de espectrorradiometria difusa. Revista Brasileira De Ciencia Do Solo, 2013, 37, 858-868.	1.3	5
57	CaracterizaÃ§Ã£o e comparaÃ§Ã£o 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. AmbiÃªncia, 2013, 9, 279-288.	0.1	3
58	Soil surface spectral data from Landsat imagery for soil class discrimination. Acta Scientiarum - Agronomy, 2012, 34, .	0.6	8
59	Chemical contamination of water in irrigated rice on ParanÃ¡ State, Brazil. Semina:Ciencias Agrarias, 2012, 33, 1455-1462.	0.3	4
60	InfiltraÃ§Ã£o de Ã¡gua no solo em um latossolo vermelho da regiÃ£o sudoeste dos cerrados com diferentes sistemas de uso e manejo. Revista Brasileira De Ciencia Do Solo, 2012, 36, 1845-1853.	1.3	18
61	Qualidade fÃsica de um latossolo sob plantio direto influenciada pela cobertura do solo. Revista Brasileira De Ciencia Do Solo, 2012, 36, 79-87.	1.3	18
62	AvaliaÃ§Ã£o e quantificaÃ§Ã£o das fraÃ§Ãµes silte, areia e argila por meio de suas respectivas reflectÃ¢ncias. Revista Brasileira De Ciencia Do Solo, 2012, 36, 1157-1166.	1.3	4
63	Emprego de GPR no estudo de solos e sua correlaÃ§Ã£o com mÃ©todos laboratoriais. Semina:Ciencias Agrarias, 2012, 33, 979-988.	0.3	0
64	DeterminaÃ§Ã£o da variabilidade espacial de alumÃnio em funÃ§Ã£o da distribuiÃ§Ã£o de argila em solos de QuerÃªncia do Norte/ParanÃ¡, Brasil. Semina:Ciencias Agrarias, 2011, 32, 1335-1344.	0.3	1
65	Optimum size in grid soil sampling for variable rate application in site-specific management. Scientia Agricola, 2011, 68, 386-392.	1.2	51
66	Geoprocessamento na avaliaÃ§Ã£o espacial de variÃ¡veis do solo da regiÃ£o de Rafard-SP. Revista Brasileira De Tecnologia Aplicada Nas CiÃªncias AgrÃ¡rias, 2011, 4, 7-29.	0.1	1
67	InfluÃªncia do peso vivo, da idade e do sexo sobre caracterÃsticas de carcaÃ§as de equinos. Revista Brasileira De Zootecnia, 2010, 39, 2683-2686.	0.8	2
68	DiscriminaÃ§Ã£o de unidades de paisagem para fins de levantamentos pedolÃ³gicos por meio da resposta espectral orbital. Acta Scientiarum - Agronomy, 2010, 32, .	0.6	0
69	Soil density evaluated by spectral reflectance as an evidence of compaction effects. International Journal of Remote Sensing, 2010, 31, 403-422.	2.9	17
70	DiferenciaÃ§Ã£o espectral de solos utilizando dados obtidos em laboratÃ³rio e por sensor orbital. Bragantia, 2010, 69, 453-466.	1.3	15
71	Modelagem de um complexo de inundaÃ§Ã£o por meio de sistema de informaÃ§Ãµes geogrÃ¡ficas. Bragantia, 2010, 69, 485-491.	1.3	1
72	Uso de sistema GPR (Ground Penetring Radar) na avaliaÃ§Ã£o de atributos de um solo sob plantio de cana-de-aÃ§Ãºcar. Revista Brasileira De Ciencia Do Solo, 2010, 34, 291-298.	1.3	2

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73	Methodology for Bare Soil Detection and Discrimination by Landsat TM Image. The Open Remote Sensing Journal, 2009, 2, 24-35.	0.5	21
74	CaracterizaÃ§Ã£o de alguns atributos do solo e sua correlaÃ§Ã£o com a paisagem em uma porÃ§Ã£o do noroeste do Estado do ParanÃ¡. Acta Scientiarum - Agronomy, 2008, 30, .	0.6	0
75	Spectral reflectance for the mineralogical evaluation of Brazilian low clay activity soils. International Journal of Remote Sensing, 2007, 28, 4537-4559.	2.9	28
76	Quantification of tropical soil attributes from ETM+/LANDSATâ€7 data. International Journal of Remote Sensing, 2007, 28, 3813-3829.	2.9	57
77	Determining soil water status and other soil characteristics by spectral proximal sensing. Geoderma, 2006, 135, 179-195.	5.1	61
78	Floristic and phytosociological description of a riparian forest and the relationship with the edaphic environment in CaiuÃ¡ Ecological Station - ParanÃ¡ - Brazil. Brazilian Archives of Biology and Technology, 2006, 49, 785-798.	0.5	8
79	Spectral Reflectance Methodology in Comparison to Traditional Soil Analysis. Soil Science Society of America Journal, 2006, 70, 393-407.	2.2	241
80	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
81	Effect of fermentation residue on the spectral reflectance properties of soils. Geoderma, 2004, 120, 187-200.	5.1	21
82	Visibleâ€“NIR reflectance: a new approach on soil evaluation. Geoderma, 2004, 121, 95-112.	5.1	184
83	AnÃ¡lise discriminante dos solos por meio da resposta espectral no nÃvel terrestre. Pesquisa Agropecuaria Brasileira, 2004, 39, 995-1006.	0.9	25
84	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
85	SOIL CHEMICAL ALTERATIONS PROMOTED BY FERTILIZER APPLICATION ASSESSED BY SPECTRAL REFLECTANCE. Soil Science, 2003, 168, 730-747.	0.9	17
86	Soil Survey Scale and its Effect on Land use Planning. Mapping Sciences and Remote Sensing, 2002, 39, 258-272.	0.0	0
87	REMOTE SENSING IN THE RECOGNITION AND MAPPING OF TROPICAL SOILS DEVELOPED ON TOPOGRAPHIC SEQUENCES. Mapping Sciences and Remote Sensing, 2001, 38, 79-102.	0.0	13
88	Integration of gis technology, remote sensing and multivariate analysis in the delimitation of physiographic units for pedological mapping. Boletim IG - Universidade De Sao Paulo, Instituto De Geosciencias, 1997, 28, 129.	0.0	7