

Josã© Paulo Molin

List of Publications by Year in descending order

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112
papers

2,580
citations

304743

22
h-index

214800

47
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114
all docs

114
docs citations

114
times ranked

2430
citing authors

#	ARTICLE	IF	CITATIONS
1	Visible and Near Infrared Spectroscopy in Soil Science. <i>Advances in Agronomy</i> , 2010, 107, 163-215.	5.2	953
2	Application of light detection and ranging and ultrasonic sensors to high-throughput phenotyping and precision horticulture: current status and challenges. <i>Horticulture Research</i> , 2018, 5, 35.	6.3	65
3	Comparison of crop canopy reflectance sensors used to identify sugarcane biomass and nitrogen status. <i>Precision Agriculture</i> , 2015, 16, 15-28.	6.0	62
4	Adoption and use of precision agriculture technologies in the sugarcane industry of São Paulo state, Brazil. <i>Precision Agriculture</i> , 2011, 12, 67-81.	6.0	61
5	A Method to Obtain Orange Crop Geometry Information Using a Mobile Terrestrial Laser Scanner and 3D Modeling. <i>Remote Sensing</i> , 2017, 9, 763.	4.0	61
6	Variable rate fertilization in citrus: a long term study. <i>Precision Agriculture</i> , 2017, 18, 169-191.	6.0	58
7	Detection of biotic and abiotic stresses in crops by using hierarchical self organizing classifiers. <i>Precision Agriculture</i> , 2017, 18, 383-393.	6.0	55
8	Active crop sensor to detect variability of nitrogen supply and biomass on sugarcane fields. <i>Precision Agriculture</i> , 2012, 13, 33-44.	6.0	50
9	Establishing management zones using soil electrical conductivity and other soil properties by the fuzzy clustering technique. <i>Scientia Agricola</i> , 2008, 65, 567-573.	1.2	47
10	Machine Learning Based On-Line Prediction of Soil Organic Carbon after Removal of Soil Moisture Effect. <i>Remote Sensing</i> , 2020, 12, 1308.	4.0	41
11	Estimation of Secondary Soil Properties by Fusion of Laboratory and On-Line Measured Visâ€NIR Spectra. <i>Remote Sensing</i> , 2019, 11, 2819.	4.0	37
12	Carrot Yield Mapping: A Precision Agriculture Approach Based on Machine Learning. <i>AI</i> , 2020, 1, 229-241.	3.8	36
13	Spatial and temporal variability of soil electrical conductivity related to soil moisture. <i>Scientia Agricola</i> , 2013, 70, 01-05.	1.2	35
14	Effect of X-Ray Tube Configuration on Measurement of Key Soil Fertility Attributes with XRF. <i>Remote Sensing</i> , 2020, 12, 963.	4.0	35
15	Detection, classification, and mapping of coffee fruits during harvest with computer vision. <i>Computers and Electronics in Agriculture</i> , 2021, 183, 106066.	7.7	35
16	Comportamento do NDVI obtido por sensor 3tico ativo em cereais. <i>Pesquisa Agropecuaria Brasileira</i> , 2008, 43, 1075-1083.	0.9	34
17	SENSOR SYSTEMS FOR MAPPING SOIL FERTILITY ATTRIBUTES: CHALLENGES, ADVANCES, AND PERSPECTIVES IN BRAZILIAN TROPICAL SOILS. <i>Engenharia Agricola</i> , 2019, 39, 126-147.	0.7	33
18	The Effectiveness of Three Vegetation Indices Obtained from a Canopy Sensor in Identifying Sugarcane Response to Nitrogen. <i>Agronomy Journal</i> , 2014, 106, 273-280.	1.8	27

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19	Cost of boundary manoeuvres in sugarcane production. <i>Biosystems Engineering</i> , 2015, 129, 112-126.	4.3	26
20	Sugarcane Yield Mapping Using High-Resolution Imagery Data and Machine Learning Technique. <i>Remote Sensing</i> , 2021, 13, 232.	4.0	26
21	Predicting the sugarcane yield in real-time by harvester engine parameters and machine learning approaches. <i>Computers and Electronics in Agriculture</i> , 2021, 181, 105945.	7.7	25
22	Mapeamento da condutividade elétrica e relação com a argila de Latossolo sob plantio direto. <i>Pesquisa Agropecuaria Brasileira</i> , 2006, 41, 1023-1031.	0.9	25
23	Test procedure for variable rate fertilizer on coffee. <i>Acta Scientiarum - Agronomy</i> , 2010, 32, .	0.6	23
24	Algorithm for Variable-Rate Nitrogen Application in Sugarcane Based on Active Crop Canopy Sensor. <i>Agronomy Journal</i> , 2015, 107, 1513-1523.	1.8	23
25	Simplifying Sample Preparation for Soil Fertility Analysis by X-ray Fluorescence Spectrometry. <i>Sensors</i> , 2019, 19, 5066.	3.8	23
26	Remoção de erros em mapas de produtividade via filtragem de dados brutos. <i>Revista Brasileira De Engenharia Agricola E Ambiental</i> , 2004, 8, 126-134.	1.1	23
27	Combined Use of Vis-NIR and XRF Sensors for Tropical Soil Fertility Analysis: Assessing Different Data Fusion Approaches. <i>Sensors</i> , 2021, 21, 148.	3.8	23
28	Planning machine paths and row crop patterns on steep surfaces to minimize soil erosion. <i>Computers and Electronics in Agriculture</i> , 2016, 124, 194-210.	7.7	22
29	Assessing Soil Key Fertility Attributes Using a Portable X-ray Fluorescence: A Simple Method to Overcome Matrix Effect. <i>Agronomy</i> , 2020, 10, 787.	3.0	20
30	Data processing within rows for sugarcane yield mapping. <i>Scientia Agricola</i> , 2020, 77, .	1.2	20
31	Canopy sensor placement for variable-rate nitrogen application in sugarcane fields. <i>Precision Agriculture</i> , 2018, 19, 147-160.	6.0	19
32	Laser-Induced Breakdown Spectroscopy (LIBS) for tropical soil fertility analysis. <i>Soil and Tillage Research</i> , 2022, 216, 105250.	5.6	19
33	Soybean Yield Estimation and Its Components: A Linear Regression Approach. <i>Agriculture (Switzerland)</i> , 2020, 10, 348.	3.1	17
34	Estudos sobre a mensuração da condutividade elétrica do solo. <i>Engenharia Agricola</i> , 2011, 31, 90-101.	0.7	17
35	Utilização de sensor óptico ativo para detectar deficiência foliar de nitrogênio em algodoeiro. <i>Revista Brasileira De Engenharia Agricola E Ambiental</i> , 2009, 13, 137-145.	1.1	16
36	3-D Soil Stratification Methodology for Geoelectrical Prospection. <i>IEEE Transactions on Power Delivery</i> , 2012, 27, 1636-1643.	4.3	16

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37	Spatial variability of soil fertility and its relationship with seed physiological potential in a soybean production area. <i>Revista Brasileira De Sementes = Brazilian Seed Journal</i> , 2012, 34, 193-201.	0.5	16
38	Spatial variability in commercial orange groves. Part 2: relating canopy geometry to soil attributes and historical yield. <i>Precision Agriculture</i> , 2019, 20, 805-822.	6.0	15
39	Multi-Sensor Approach for Tropical Soil Fertility Analysis: Comparison of Individual and Combined Performance of VNIR, XRF, and LIBS Spectroscopies. <i>Agronomy</i> , 2021, 11, 1028.	3.0	15
40	Colheita de citros e obtenção de dados para mapeamento da produtividade. <i>Engenharia Agricola</i> , 2007, 27, 259-266.	0.7	14
41	Yield mapping, soil fertility and tree gaps in an orange orchard. <i>Revista Brasileira De Fruticultura</i> , 2012, 34, 1256-1265.	0.5	14
42	Sugarcane Harvester for In-field Data Collection: State of the Art, Its Applicability and Future Perspectives. <i>Sugar Tech</i> , 2021, 23, 1-14.	1.8	14
43	Spatial variability of sugarcane row gaps: measurement and mapping. <i>Ciencia E Agrotecnologia</i> , 2016, 40, 347-355.	1.5	13
44	Estudos com penetrometria: novos equipamentos e amostragem correta. <i>Revista Brasileira De Engenharia Agricola E Ambiental</i> , 2012, 16, 584-590.	1.1	13
45	DESIGN AND EVALUATION OF A PUNCH PLANTER FOR NO-TILL SYSTEMS. <i>Transactions of the American Society of Agricultural Engineers</i> , 1998, 41, 307-314.	0.9	12
46	Capacidade de um sensor 3tico em quantificar a resposta da cana-de-açúcar a doses de nitrogênio. <i>Revista Brasileira De Engenharia Agricola E Ambiental</i> , 2010, 14, 1345-1349.	1.1	12
47	Mensuração da condutividade elétrica do solo por indução e sua correlação com fatores de produção. <i>Engenharia Agricola</i> , 2005, 25, 420-426.	0.7	11
48	Variable rate spraying application on cotton using an electronic flow controller. <i>Precision Agriculture</i> , 2018, 19, 912-928.	6.0	11
49	Assessing Damage Caused by Accidental Vehicle Traffic on Sugarcane Ratoon. <i>Applied Engineering in Agriculture</i> , 2013, 29, 161-169.	0.7	10
50	Spatial variability in commercial orange groves. Part 1: canopy volume and height. <i>Precision Agriculture</i> , 2019, 20, 788-804.	6.0	10
51	Identification and measurement of gaps within sugarcane rows for site-specific management: Comparing different sensor-based approaches. <i>Biosystems Engineering</i> , 2021, 209, 64-73.	4.3	10
52	A system for plant detection using sensor fusion approach based on machine learning model. <i>Computers and Electronics in Agriculture</i> , 2021, 189, 106382.	7.7	10
53	Índice de vegetação no algodoeiro sob diferentes doses de nitrogênio e regulador de crescimento. <i>Semina: Ciências Agrárias</i> , 2014, 35, 169.	0.3	9
54	A statistical approach to static and dynamic tests for Global Navigation Satellite Systems receivers used in agricultural operations. <i>Scientia Agricola</i> , 2021, 78, .	1.2	9

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55	Sensor Fusion with NARX Neural Network to Predict the Mass Flow in a Sugarcane Harvester. <i>Sensors</i> , 2021, 21, 4530.	3.8	9
56	Análise espacial da ocorrência do Índice de cone em área sob semeadura direta e sua relação com fatores do solo. <i>Engenharia Agrícola</i> , 2006, 26, 442-452.	0.7	9
57	Mapeamento do Índice de vegetação da diferença normalizada em lavoura de algodão. <i>Pesquisa Agropecuária Tropical</i> , 2012, 42, 112-118.	1.0	8
58	A sampling plan and spatial distribution for site-specific control of <i>Sphenophorus levis</i> in sugarcane. <i>Acta Scientiarum - Agronomy</i> , 2016, 38, 279.	0.6	8
59	Estimation and Mapping of Soil Properties Based on Multi-Source Data Fusion. <i>Remote Sensing</i> , 2021, 13, 978.	4.0	8
60	Near-infrared spectroscopy as a tool for monitoring the spatial variability of sugarcane quality in the fields. <i>Biosystems Engineering</i> , 2021, 206, 150-161.	4.3	8
61	Sensor óptico no auxílio à recomendação de adubação nitrogenada em cana-de-açúcar. <i>Pesquisa Agropecuária Brasileira</i> , 2011, 46, 1633-1642.	0.9	8
62	Spatial variability of soil properties and cotton yield in the Brazilian Cerrado. <i>Revista Brasileira De Engenharia Agrícola E Ambiental</i> , 2011, 15, 996-1003.	1.1	8
63	Mapeamento da distribuição espacial da infestação de <i>Panicum maximum</i> durante a colheita da cultura de milho. <i>Planta Daninha</i> , 2004, 22, 269-274.	0.5	7
64	A model to analyze as-applied reports from variable rate applications. <i>Precision Agriculture</i> , 2014, 15, 304-320.	6.0	7
65	A MEASUREMENT SYSTEM BASED ON LiDAR TECHNOLOGY TO CHARACTERIZE THE CANOPY OF SUGARCANE PLANTS. <i>Engenharia Agrícola</i> , 2019, 39, 240-247.	0.7	7
66	Spatial distribution of sorption and desorption process of ¹⁴ C-radiolabelled hexazinone and tebuthiuron in tropical soil. <i>Chemosphere</i> , 2021, 264, 128494.	8.2	7
67	Evaluation of Minimum Preparation Sampling Strategies for Sugarcane Quality Prediction by vis-NIR Spectroscopy. <i>Sensors</i> , 2021, 21, 2195.	3.8	7
68	Utilização de dados georreferenciados na determinação de parâmetros de desempenho em colheita mecanizada. <i>Engenharia Agrícola</i> , 2006, 26, 759-767.	0.7	7
69	Uso de piloto automático na implantação de pomares de citros. <i>Engenharia Agrícola</i> , 2011, 31, 334-342.	0.7	7
70	Methodology to filter out outliers in high spatial density data to improve maps reliability. <i>Scientia Agrícola</i> , 2022, 79, .	1.2	6
71	Avaliação de intervenções em unidades de aplicação localizada de fertilizantes e de populações de milho. <i>Engenharia Agrícola</i> , 2006, 26, 528-536.	0.7	6
72	Spectral data of tropical soils using dry-chemistry techniques (VNIR, XRF, and LIBS): A dataset for soil fertility prediction. <i>Data in Brief</i> , 2022, 41, 108004.	1.0	6

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73	Obtaining and Validating High-Density Coffee Yield Data. Horticulturae, 2022, 8, 421.	2.8	6
74	Field-testing of a sugar cane yield monitor in Brazil. , 2004, , .		5
75	Ensaaios estãticos e cinemãticos de receptores de GPS. Revista Brasileira De Engenharia Agricola E Ambiental, 2011, 15, 981-988.	1.1	5
76	Sugarcane response to nitrogen rates, measured by a canopy reflectance sensor. Pesquisa Agropecuaria Brasileira, 2015, 50, 840-848.	0.9	5
77	Yield mapping methods for manually harvested crops. Computers and Electronics in Agriculture, 2020, 177, 105693.	7.7	5
78	Economic viability, energy and nutrient balances of site-specific fertilisation for citrus. Biosystems Engineering, 2020, 200, 138-156.	4.3	5
79	An Approach to Sugarcane Yield Estimation Using Sensors in the Harvester and ZigBee Technology. Sugar Tech, 2022, 24, 813-821.	1.8	5
80	Hastes instrumentadas para a mensuraãão da resistãncia mecãnica do solo. Engenharia Agricola, 2006, 26, 161-169.	0.7	5
81	Segregaãão de fertilizantes aplicados a lanãso. Engenharia Agricola, 2009, 29, 614-622.	0.7	5
82	Metodologia para identificaãão e caracterizaãão de erros em mapas de produtividade. Revista Brasileira De Engenharia Agricola E Ambiental, 2003, 7, 367-374.	1.1	5
83	Precision agriculture and the digital contributions for site-specific management of the fields. Revista Ciencia Agronomica, 2020, 51, .	0.3	5
84	Proposta metodolãgica para avaliaãão de controlador automãtico de seãães e pulverizaãão. Engenharia Agricola, 2011, 31, 111-120.	0.7	4
85	Mãtodo de avaliaãão de equipamentos para direcionamento de veãculos agrãcolas e efeito de sinais de GNSS. Engenharia Agricola, 2011, 31, 121-129.	0.7	4
86	On-the-go tropical soil sensing for pH determination using ion-selective electrodes. Pesquisa Agropecuaria Brasileira, 2018, 53, 1189-1202.	0.9	4
87	Soil penetration resistance mapping quality: effect of the number of subsamples. Acta Scientiarum - Agronomy, 2018, 40, 34989.	0.6	4
88	Potential use of hyperspectral data to monitor sugarcane nitrogen status. Acta Scientiarum - Agronomy, 0, 43, e47632.	0.6	4
89	Populaãão de plantas e alguns atributos do solo relacionados ao rendimento de grãos de milho. Acta Scientiarum - Agronomy, 2006, 28, 483.	0.6	3
90	SPATIAL VARIABILITY MAPPING OF SUGARCANE QUALITATIVE ATTRIBUTES. Engenharia Agricola, 2019, 39, 109-117.	0.7	3

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91	PATH ERRORS IN SUGARCANE TRANSSHIPMENT TRAILERS. Engenharia Agricola, 2020, 40, 223-231.	0.7	3
92	Análise comparativa de sensores de velocidade de deslocamento em função da superfície. Engenharia Agricola, 2005, 25, 768-773.	0.7	3
93	Diagnose nutricional com o uso de sensor óptico ativo em algodoeiro. Revista Brasileira De Engenharia Agricola E Ambiental, 2012, 16, 1159-1165.	1.1	3
94	Energy Efficiency of Variable Rate Fertilizer Application in Coffee Production in Brazil. AgriEngineering, 2021, 3, 815-826.	3.2	3
95	Predictive Performance of Mobile VisNIR Spectroscopy for Mapping Key Fertility Attributes in Tropical Soils through Local Models Using PLS and ANN. Automation, 2022, 3, 116-131.	2.3	3
96	Penetration Forces at Different Soil Conditions for Punches Used on Punch Planters. Transactions of the American Society of Agricultural Engineers, 1996, 39, 423-429.	0.9	2
97	Influência da utilização e do tipo de amortecedores de ricochete em ensaios de aplicadores a lanço. Revista Brasileira De Engenharia Agricola E Ambiental, 2000, 4, 281-285.	1.1	2
98	Avaliação do desempenho de semeadoras manuais. Revista Brasileira De Engenharia Agricola E Ambiental, 2001, 5, 339-343.	1.1	2
99	Desempenho de colhedoras semimontadas para a colheita direta de milho. Engenharia Agricola, 2008, 28, 720-729.	0.7	2
100	Metodologia para avaliação do desempenho de receptor de GPS de uso agrícola em condição cinemática. Engenharia Agricola, 2010, 30, 121-129.	0.7	2
101	Energy flows in lowland soybean production system in Brazil. Ciencia Rural, 2016, 46, 1395-1400.	0.5	2
102	Carbon stocks of a Rhodic Ferralsol under no-tillage in Southern Brazil: spatial variability at a farm scale. Soil Research, 2009, 47, 253.	1.1	2
103	POPULATION RATE CHANGES AND OTHER EVALUATION PARAMETERS FOR A PUNCH PLANTER PROTOTYPE. Transactions of the American Society of Agricultural Engineers, 1998, 41, 1265-1270.	0.9	1
104	Scale and climate regulation as a conservation incentive. Frontiers in Ecology and the Environment, 2020, 18, 429-430.	4.0	1
105	Definition of Optimal Maize Seeding Rates Based on the Potential Yield of Management Zones. Agriculture (Switzerland), 2021, 11, 911.	3.1	1
106	3D Data Processing to Characterize the Spatial Variability of Sugarcane Fields. Sugar Tech, 0, , 1.	1.8	1
107	Uso de fotografias aéreas coloridas 35 mm na avaliação de produtividade de grãos. Engenharia Agricola, 2004, 24, 695-703.	0.7	1
108	Mapping Soil Properties with Fixed Rank Kriging of Proximally Sensed Soil Data Fused with Sentinel-2 Biophysical Parameter. Remote Sensing, 2022, 14, 1639.	4.0	1

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109	Mapping coffee yield with computer vision. Precision Agriculture, 2022, 23, 2372-2387.	6.0	1
110	HIGH-RESOLUTION IMAGERY DATA TO ASSESS THE SPATIAL VARIABILITY OF SUGARCANE FIELDS/ DADOS DE IMAGENS DE ALTA RESOLUÇÃO PARA AVALIAÇÃO DA VARIABILIDADE ESPACIAL DE TALHARES DE CANA-DE-ÁSCAR. Brazilian Journal of Development, 2020, 6, 100266-100280.	0.1	0
111	Pendulum-action spreader for lime application. Brazilian Journal of Development, 2020, 6, 41211-42222.	0.1	0
112	Measuring apparent electrical conductivity in undisturbed soil samples / Mensuração da condutividade elétrica aparente em amostras indeformadas de solo. Brazilian Journal of Development, 2021, 7, 73620-73632.	0.1	0