

Josã© Paulo Molin

List of Publications by Year in descending order

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112
papers

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citations

304743

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114
all docs

114
docs citations

114
times ranked

2430
citing authors

#	ARTICLE	IF	CITATIONS
1	An Approach to Sugarcane Yield Estimation Using Sensors in the Harvester and ZigBee Technology. Sugar Tech, 2022, 24, 813-821.	1.8	5
2	Methodology to filter out outliers in high spatial density data to improve maps reliability. Scientia Agricola, 2022, 79, .	1.2	6
3	Laser-Induced Breakdown Spectroscopy (LIBS) for tropical soil fertility analysis. Soil and Tillage Research, 2022, 216, 105250.	5.6	19
4	Predictive Performance of Mobile Visâ€NIR Spectroscopy for Mapping Key Fertility Attributes in Tropical Soils through Local Models Using PLS and ANN. Automation, 2022, 3, 116-131.	2.3	3
5	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
6	Spectral data of tropical soils using dry-chemistry techniques (VNIR, XRF, and LIBS): A dataset for soil fertility prediction. Data in Brief, 2022, 41, 108004.	1.0	6
7	Obtaining and Validating High-Density Coffee Yield Data. Horticulturae, 2022, 8, 421.	2.8	6
8	Mapping coffee yield with computer vision. Precision Agriculture, 2022, 23, 2372-2387.	6.0	1
9	Sugarcane Harvester for In-field Data Collection: State of the Art, Its Applicability and Future Perspectives. Sugar Tech, 2021, 23, 1-14.	1.8	14
10	Spatial distribution of sorption and desorption process of 14C-radiolabelled hexazinone and tebutiuron in tropical soil. Chemosphere, 2021, 264, 128494.	8.2	7
11	A statistical approach to static and dynamic tests for Global Navigation Satellite Systems receivers used in agricultural operations. Scientia Agricola, 2021, 78, .	1.2	9
12	Predicting the sugarcane yield in real-time by harvester engine parameters and machine learning approaches. Computers and Electronics in Agriculture, 2021, 181, 105945.	7.7	25
13	Evaluation of Minimum Preparation Sampling Strategies for Sugarcane Quality Prediction by vis-NIR Spectroscopy. Sensors, 2021, 21, 2195.	3.8	7
14	Estimation and Mapping of Soil Properties Based on Multi-Source Data Fusion. Remote Sensing, 2021, 13, 978.	4.0	8
15	Detection, classification, and mapping of coffee fruits during harvest with computer vision. Computers and Electronics in Agriculture, 2021, 183, 106066.	7.7	35
16	Multi-Sensor Approach for Tropical Soil Fertility Analysis: Comparison of Individual and Combined Performance of VNIR, XRF, and LIBS Spectroscopies. Agronomy, 2021, 11, 1028.	3.0	15
17	Near-infrared spectroscopy as a tool for monitoring the spatial variability of sugarcane quality in the fields. Biosystems Engineering, 2021, 206, 150-161.	4.3	8
18	Sensor Fusion with NARX Neural Network to Predict the Mass Flow in a Sugarcane Harvester. Sensors, 2021, 21, 4530.	3.8	9

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19	Definition of Optimal Maize Seeding Rates Based on the Potential Yield of Management Zones. Agriculture (Switzerland), 2021, 11, 911.	3.1	1
20	Identification and measurement of gaps within sugarcane rows for site-specific management: Comparing different sensor-based approaches. Biosystems Engineering, 2021, 209, 64-73.	4.3	10
21	A system for plant detection using sensor fusion approach based on machine learning model. Computers and Electronics in Agriculture, 2021, 189, 106382.	7.7	10
22	Sugarcane Yield Mapping Using High-Resolution Imagery Data and Machine Learning Technique. Remote Sensing, 2021, 13, 232.	4.0	26
23	Combined Use of Vis-NIR and XRF Sensors for Tropical Soil Fertility Analysis: Assessing Different Data Fusion Approaches. Sensors, 2021, 21, 148.	3.8	23
24	Energy Efficiency of Variable Rate Fertilizer Application in Coffee Production in Brazil. AgriEngineering, 2021, 3, 815-826.	3.2	3
25	Measuring apparent electrical conductivity in undisturbed soil samples / MensuraÃ§Ã£o da condutividade elÃ©trica aparente em amostras indeformadas de solo. Brazilian Journal of Development, 2021, 7, 73620-73632.	0.1	0
26	Scale and climate regulation as a conservation incentive. Frontiers in Ecology and the Environment, 2020, 18, 429-430.	4.0	1
27	Yield mapping methods for manually harvested crops. Computers and Electronics in Agriculture, 2020, 177, 105693.	7.7	5
28	Soybean Yield Estimation and Its Components: A Linear Regression Approach. Agriculture (Switzerland), 2020, 10, 348.	3.1	17
29	Economic viability, energy and nutrient balances of site-specific fertilisation for citrus. Biosystems Engineering, 2020, 200, 138-156.	4.3	5
30	Carrot Yield Mapping: A Precision Agriculture Approach Based on Machine Learning. AI, 2020, 1, 229-241.	3.8	36
31	Effect of X-Ray Tube Configuration on Measurement of Key Soil Fertility Attributes with XRF. Remote Sensing, 2020, 12, 963.	4.0	35
32	Assessing Soil Key Fertility Attributes Using a Portable X-ray Fluorescence: A Simple Method to Overcome Matrix Effect. Agronomy, 2020, 10, 787.	3.0	20
33	Machine Learning Based On-Line Prediction of Soil Organic Carbon after Removal of Soil Moisture Effect. Remote Sensing, 2020, 12, 1308.	4.0	41
34	Data processing within rows for sugarcane yield mapping. Scientia Agricola, 2020, 77, .	1.2	20
35	PATH ERRORS IN SUGARCANE TRANSSHIPMENT TRAILERS. Engenharia Agricola, 2020, 40, 223-231.	0.7	3
36	Precision agriculture and the digital contributions for site-specific management of the fields. Revista Ciencia Agronomica, 2020, 51, .	0.3	5

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37	HIGH-RESOLUTION IMAGERY DATA TO ASSESS THE SPATIAL VARIABILITY OF SUGARCANE FIELDS/ DADOS DE IMAGENS DE ALTA RESOLUÃ§Ã£o PARA AVALIAÃ§Ã£o DA VARIABILIDADE ESPACIAL DE TALHÃ•ES DE CANA-DE-ÃçCAR. Brazilian Journal of Development, 2020, 6, 100266-100280.	0.1	0
38	Pendulum-action spreader for lime application. Brazilian Journal of Development, 2020, 6, 41211-42222.	0.1	0
39	A MEASUREMENT SYSTEM BASED ON LiDAR TECHNOLOGY TO CHARACTERIZE THE CANOPY OF SUGARCANE PLANTS. Engenharia Agricola, 2019, 39, 240-247.	0.7	7
40	Simplifying Sample Preparation for Soil Fertility Analysis by X-ray Fluorescence Spectrometry. Sensors, 2019, 19, 5066.	3.8	23
41	Estimation of Secondary Soil Properties by Fusion of Laboratory and On-Line Measured Visã€NIR Spectra. Remote Sensing, 2019, 11, 2819.	4.0	37
42	Spatial variability in commercial orange groves. Part 2: relating canopy geometry to soil attributes and historical yield. Precision Agriculture, 2019, 20, 805-822.	6.0	15
43	Spatial variability in commercial orange groves. Part 1: canopy volume and height. Precision Agriculture, 2019, 20, 788-804.	6.0	10
44	SPATIAL VARIABILITY MAPPING OF SUGARCANE QUALITATIVE ATTRIBUTES. Engenharia Agricola, 2019, 39, 109-117.	0.7	3
45	SENSOR SYSTEMS FOR MAPPING SOIL FERTILITY ATTRIBUTES: CHALLENGES, ADVANCES, AND PERSPECTIVES IN BRAZILIAN TROPICAL SOILS. Engenharia Agricola, 2019, 39, 126-147.	0.7	33
46	Canopy sensor placement for variable-rate nitrogen application in sugarcane fields. Precision Agriculture, 2018, 19, 147-160.	6.0	19
47	On-the-go tropical soil sensing for pH determination using ion-selective electrodes. Pesquisa Agropecuaria Brasileira, 2018, 53, 1189-1202.	0.9	4
48	Soil penetration resistance mapping quality: effect of the number of subsamples. Acta Scientiarum - Agronomy, 2018, 40, 34989.	0.6	4
49	Application of light detection and ranging and ultrasonic sensors to high-throughput phenotyping and precision horticulture: current status and challenges. Horticulture Research, 2018, 5, 35.	6.3	65
50	Variable rate spraying application on cotton using an electronic flow controller. Precision Agriculture, 2018, 19, 912-928.	6.0	11
51	Variable rate fertilization in citrus: a long term study. Precision Agriculture, 2017, 18, 169-191.	6.0	58
52	Detection of biotic and abiotic stresses in crops by using hierarchical self organizing classifiers. Precision Agriculture, 2017, 18, 383-393.	6.0	55
53	A Method to Obtain Orange Crop Geometry Information Using a Mobile Terrestrial Laser Scanner and 3D Modeling. Remote Sensing, 2017, 9, 763.	4.0	61
54	A sampling plan and spatial distribution for site-specific control of <i>Sphenophorus levis</i> in sugarcane. Acta Scientiarum - Agronomy, 2016, 38, 279.	0.6	8

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55	Spatial variability of sugarcane row gaps: measurement and mapping. <i>Ciencia E Agrotecnologia</i> , 2016, 40, 347-355.	1.5	13
56	Energy flows in lowland soybean production system in Brazil. <i>Ciencia Rural</i> , 2016, 46, 1395-1400.	0.5	2
57	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
58	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
59	Sugarcane response to nitrogen rates, measured by a canopy reflectance sensor. <i>Pesquisa Agropecuaria Brasileira</i> , 2015, 50, 840-848.	0.9	5
60	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
61	Cost of boundary manoeuvres in sugarcane production. <i>Biosystems Engineering</i> , 2015, 129, 112-126.	4.3	26
62	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
63	A model to analyze as-applied reports from variable rate applications. <i>Precision Agriculture</i> , 2014, 15, 304-320.	6.0	7
64	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
65	Spatial and temporal variability of soil electrical conductivity related to soil moisture. <i>Scientia Agricola</i> , 2013, 70, 01-05.	1.2	35
66	Assessing Damage Caused by Accidental Vehicle Traffic on Sugarcane Ratoon. <i>Applied Engineering in Agriculture</i> , 2013, 29, 161-169.	0.7	10
67	3-D Soil Stratification Methodology for Geoelectrical Prospection. <i>IEEE Transactions on Power Delivery</i> , 2012, 27, 1636-1643.	4.3	16
68	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
69	Yield mapping, soil fertility and tree gaps in an orange orchard. <i>Revista Brasileira De Fruticultura</i> , 2012, 34, 1256-1265.	0.5	14
70	Mapeamento do Índice de vegetação da diferença normalizada em lavoura de algodão. <i>Pesquisa Agropecuaria Tropical</i> , 2012, 42, 112-118.	1.0	8
71	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
72	Estudos com penetrometria: novos equipamentos e amostragem correta. <i>Revista Brasileira De Engenharia Agrícola E Ambiental</i> , 2012, 16, 584-590.	1.1	13

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73	Diagnose nutricional com o uso de sensor 3ptico ativo em algodoeiro. Revista Brasileira De Engenharia Agricola E Ambiental, 2012, 16, 1159-1165.	1.1	3
74	Ensaio est3ticos e cinem3ticos de receptores de GPS. Revista Brasileira De Engenharia Agricola E Ambiental, 2011, 15, 981-988.	1.1	5
75	Proposta metodol3gica para avalia3o de controlador autom3tico de se3es e pulveriza3o. Engenharia Agricola, 2011, 31, 111-120.	0.7	4
76	M3todo de avalia3o de equipamentos para direcionamento de ve3culos agr3colas e efeito de sinais de GNSS. Engenharia Agricola, 2011, 31, 121-129.	0.7	4
77	Adoption and use of precision agriculture technologies in the sugarcane industry of S3o Paulo state, Brazil. Precision Agriculture, 2011, 12, 67-81.	6.0	61
78	Sensor 3ptico no aux3lio 3 recomenda3o de aduba3o nitrogenada em cana-de-a3car. Pesquisa Agropecuaria Brasileira, 2011, 46, 1633-1642.	0.9	8
79	Estudos sobre a mensura3o da condutividade el3trica do solo. Engenharia Agricola, 2011, 31, 90-101.	0.7	17
80	Uso de piloto autom3tico na implanta3o de pomares de citros. Engenharia Agricola, 2011, 31, 334-342.	0.7	7
81	Spatial variability of soil properties and cotton yield in the Brazilian Cerrado. Revista Brasileira De Engenharia Agricola E Ambiental, 2011, 15, 996-1003.	1.1	8
82	Capacidade de um sensor 3tico em quantificar a resposta da cana-de-a3car a doses de nitrog3nio. Revista Brasileira De Engenharia Agricola E Ambiental, 2010, 14, 1345-1349.	1.1	12
83	Metodologia para avalia3o do desempenho de receptor de GPS de uso agr3cola em condi3o cinem3tica. Engenharia Agricola, 2010, 30, 121-129.	0.7	2
84	Test procedure for variable rate fertilizer on coffee. Acta Scientiarum - Agronomy, 2010, 32, .	0.6	23
85	Visible and Near Infrared Spectroscopy in Soil Science. Advances in Agronomy, 2010, 107, 163-215.	5.2	953
86	Utiliza3o de sensor 3ptico ativo para detectar defici3ncia foliar de nitrog3nio em algodoeiro. Revista Brasileira De Engenharia Agricola E Ambiental, 2009, 13, 137-145.	1.1	16
87	Segrega3o de fertilizantes aplicados a lan3o. Engenharia Agricola, 2009, 29, 614-622.	0.7	5
88	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
89	Desempenho de colhedoras semimontadas para a colheita direta de milho. Engenharia Agricola, 2008, 28, 720-729.	0.7	2
90	Establishing management zones using soil electrical conductivity and other soil properties by the fuzzy clustering technique. Scientia Agricola, 2008, 65, 567-573.	1.2	47

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91	Comportamento do NDVI obtido por sensor 3tico ativo em cereais. Pesquisa Agropecuaria Brasileira, 2008, 43, 1075-1083.	0.9	34
92	Colheita de citros e obtenção de dados para mapeamento da produtividade. Engenharia Agricola, 2007, 27, 259-266.	0.7	14
93	População de plantas e alguns atributos do solo relacionados ao rendimento de grãos de milho. Acta Scientiarum - Agronomy, 2006, 28, 483.	0.6	3
94	Mapeamento da condutividade elétrica e relação com a argila de Latossolo sob plantio direto. Pesquisa Agropecuaria Brasileira, 2006, 41, 1023-1031.	0.9	25
95	Hastes instrumentadas para a mensuração da resistência mecânica do solo. Engenharia Agricola, 2006, 26, 161-169.	0.7	5
96	Análise espacial da ocorrência do Índice de cone em área sob semeadura direta e sua relação com fatores do solo. Engenharia Agricola, 2006, 26, 442-452.	0.7	9
97	Avaliação de intervenções em unidades de aplicação localizada de fertilizantes e de populações de milho. Engenharia Agricola, 2006, 26, 528-536.	0.7	6
98	Utilização de dados georreferenciados na determinação de parâmetros de desempenho em colheita mecanizada. Engenharia Agricola, 2006, 26, 759-767.	0.7	7
99	Mensuração da condutividade elétrica do solo por indução e sua correlação com fatores de produção. Engenharia Agricola, 2005, 25, 420-426.	0.7	11
100	Análise comparativa de sensores de velocidade de deslocamento em função da superfície. Engenharia Agricola, 2005, 25, 768-773.	0.7	3
101	Mapeamento da distribuição espacial da infestação de Panicum maximum durante a colheita da cultura de milho. Planta Daninha, 2004, 22, 269-274.	0.5	7
102	Field-testing of a sugar cane yield monitor in Brazil. , 2004, , .		5
103	Remoção de erros em mapas de produtividade via filtragem de dados brutos. Revista Brasileira De Engenharia Agricola E Ambiental, 2004, 8, 126-134.	1.1	23
104	Uso de fotografias aéreas coloridas 35 mm na avaliação de produtividade de grãos. Engenharia Agricola, 2004, 24, 695-703.	0.7	1
105	Metodologia para identificação e caracterização de erros em mapas de produtividade. Revista Brasileira De Engenharia Agricola E Ambiental, 2003, 7, 367-374.	1.1	5
106	Avaliação do desempenho de semeadoras manuais. Revista Brasileira De Engenharia Agricola E Ambiental, 2001, 5, 339-343.	1.1	2
107	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
108	DESIGN AND EVALUATION OF A PUNCH PLANTER FOR NO-TILL SYSTEMS. Transactions of the American Society of Agricultural Engineers, 1998, 41, 307-314.	0.9	12

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109	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
110	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
111	3D Data Processing to Characterize the Spatial Variability of Sugarcane Fields. Sugar Tech, 0, , 1.	1.8	1
112	Potential use of hyperspectral data to monitor sugarcane nitrogen status. Acta Scientiarum - Agronomy, 0, 43, e47632.	0.6	4