Gabriel AraÃºjo E Silva Ferraz

List of Publications by Year
in descending order

64 papers	503 citations	759055 12 h-index	839398 18 g-index
70 all docs	70 docs citations	70 times ranked	360 citing authors

#	Article	IF	Citations
1	Geostatistical analysis of fruit yield and detachment force in coffee. Precision Agriculture, 2012, 13, 76-89.	3.1	34
2	Detecting coffee leaf rust with UAV-based vegetation indices and decision tree machine learning models. Computers and Electronics in Agriculture, 2021, 190, 106476.	3.7	34
3	Biophysical parameters of coffee crop estimated by UAV RGB images. Precision Agriculture, 2020, 21, 1227-1241.	3.1	28
4	Variabilidade espacial e temporal do fÃ³sforo, potÃ¡ssio e da produtividade de uma lavoura cafeeira. Engenharia Agricola, 2012, 32, 140-150.	0.2	22
5	Determining the Leaf Area Index and Percentage of Area Covered by Coffee Crops Using UAV RGB Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 6401-6409.	2.3	20
6	Application of RGB Images Obtained by UAV in Coffee Farming. Remote Sensing, 2021, 13, 2397.	1.8	19
7	UAV-based coffee yield prediction utilizing feature selection and deep learning. Smart Agricultural Technology, 2021, 1, 100010.	3.1	19
8	Properties of conventional and alternative bedding materials for dairy cattle. Journal of Dairy Science, 2020, 103, 8661-8674.	1.4	19
9	Influence of flight altitude and control points in the georeferencing of images obtained by unmanned aerial vehicle. European Journal of Remote Sensing, 2021, 54, 59-71.	1.7	18
10	Remotely Piloted Aircraft and Random Forest in the Evaluation of the Spatial Variability of Foliar Nitrogen in Coffee Crop. Remote Sensing, 2021, 13, 1471.	1.8	15
11	Spatial variability of plant attributes in a coffee plantation. Revista Ciencia Agronomica, 2017, 48, .	0.1	14
12	Geostatistical analysis of Arabic coffee yield in two crop seasons. Revista Brasileira De Engenharia Agricola E Ambiental, 2017, 21, 410-414.	0.4	13
13	Advances in Precision Coffee Growing Research: A Bibliometric Review. Agronomy, 2021, 11, 1557.	1.3	13
14	Monitoring Errors of Semi-Mechanized Coffee Planting by Remotely Piloted Aircraft. Agronomy, 2021, 11, 1224.	1.3	12
15	Spatial variability of enthalpy in broiler house during the heating phase. Revista Brasileira De Engenharia Agricola E Ambiental, 2016, 20, 570-575.	0.4	12
16	Characterization of Recently Planted Coffee Cultivars from Vegetation Indices Obtained by a Remotely Piloted Aircraft System. Sustainability, 2022, 14, 1446.	1.6	12
17	Spatial distribution of bed variables, animal welfare indicators, and milk production in a closed compost-bedded pack barn with a negative tunnel ventilation system. Journal of Thermal Biology, 2022, 105, 103111.	1.1	11
18	Geospatial analysis of ecological vulnerability of coffee agroecosystems in Brazil. Applied Geomatics, 2013, 5, 87-97.	1.2	9

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19	Assessment of spatial variability of bedding variables in compost bedded pack barns with climate control system. Anais Da Academia Brasileira De Ciencias, 2021, 93, e20200384.	0.3	9
20	Evaluation of the Physical Properties of Bedding Materials for Dairy Cattle Using Fuzzy Clustering Analysis. Animals, 2020, 10, 351.	1.0	8
21	Unmanned aerial vehicle to evaluate frost damage in coffee plants. Precision Agriculture, 2021, 22, 1845-1860.	3.1	8
22	SPACIAL ILLUMINANCES VARIABILITY AND ENERGY CONSUMPTION IN AVIARIES FOR LAYING HENS EQUIPED WITH COMPACT FLUORESCENT LAMPS AND LIGHT EMITTING DIODE. Engenharia Agricola, 2016, 36, 962-971.	0.2	8
23	Overlap influence in images obtained by an unmanned aerial vehicle on a digital terrain model of altimetric precision. European Journal of Remote Sensing, 2022, 55, 263-276.	1.7	8
24	Viabilidade econÃ´mica do sistema de adubaÃ§Ã£o diferenciado comparado ao sistema de adubaÃ§Ã£o convencional em lavoura cafeeira: um estudo de caso. Engenharia Agricola, 2011, 31, 906-915.	0.2	7
25	Variabilidade espacial da forÃ§a de desprendimento de frutos do cafeeiro. Engenharia Agricola, 2014, 34, 1210-1223.	0.2	7
26	Performance of chicks subjected to thermal challenge. Pesquisa Agropecuaria Brasileira, 2017, 52, 113-120.	0.9	7
27	Use of classifier to determine coffee harvest time by detachment force. Revista Brasileira De Engenharia Agricola E Ambiental, 2018, 22, 366-370.	0.4	6
28	Fuzzy-genetic approaches to knowledge discovery and decision making: Estimation of the cloacal temperature of chicks exposed to different thermal conditions. Biosystems Engineering, 2020, 199, 109-120.	1.9	6
29	Factors affecting evaporation of water from cattle bedding materials. Biosystems Engineering, 2021, 205, 164-173.	1.9	6
30	Comparativo entre os atributos quÃ´micos do solo amostrados de forma convencional e em malha. Coffee Science, 2017, 12, 17.	0.5	6
31	Vegetation Indices Applied to Suborbital Multispectral Images of Healthy Coffee and Coffee Infested with Coffee Leaf Miner. AgriEngineering, 2022, 4, 311-319.	1.7	6
32	Management zones in coffee cultivation. Revista Brasileira De Engenharia Agricola E Ambiental, 2017, 21, 94-99.	0.4	5
33	Genetic fuzzy system for prediction of respiratory rate of chicks subject to thermal challenges. Revista Brasileira De Engenharia Agricola E Ambiental, 2018, 22, 412-417.	0.4	5
34	Spatial variability of air dry bulb temperature and black globe humidity index in a broiler house during the heating phase. Engenharia Agricola, 2013, 33, 433-444.	0.2	5
35	Digital Terrain Modelling by Remotely Piloted Aircraft: Optimization and Geometric Uncertainties in Precision Coffee Growing Projects. Remote Sensing, 2022, 14, 911.	1.8	5
36	Spatial analysis of microclimatic variables in compost-bedded pack barn with evaporative tunnel cooling. Anais Da Academia Brasileira De Ciencias, 2022, 94, .	0.3	5

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37	Methodology to determine the soil sampling grid for precision agriculture in a coffee field. DYNA (Colombia), 2017, 84, 316-325.	0.2	4
38	Spatial variability of enthalpy in rabbit house with and without ridge vent. Revista Brasileira De Engenharia Agricola E Ambiental, 2019, 23, 126-132.	0.4	4
39	Decision Trees for Predicting the Physiological Responses of Rabbits. Animals, 2019, 9, 994.	1.0	4
40	Plant sampling grid determination in precision agriculture in coffee field. Coffee Science, 2018, 13, 112.	0.5	4
41	Estimate and Temporal Monitoring of Height and Diameter of the Canopy of Recently Transplanted Coffee by a Remotely Piloted Aircraft System. AgriEngineering, 2022, 4, 207-215.	1.7	4
42	Characterization of noise emitted by a power tiller through geostatistics. Revista Brasileira De Engenharia Agricola E Ambiental, 2019, 23, 223-228.	0.4	3
43	Spatial variability of soil pH sampled by two methodologies used in precision agriculture in farms under crop rotation. DYNA (Colombia), 2019, 86, 289-297.	0.2	3
44	Study the spatial variability of the noise levels inside two commercial poultry housing with different adiabatic evaporative cooling systems. DYNA (Colombia), 2018, 85, 9-15.	0.2	3
45	Spatial variability of soil physical properties in longitudinal profiles. Anais Da Academia Brasileira De Ciencias, 2022, 94, e20200411.	0.3	3
46	Spatial and temporal distribution of enthalpy in aviary heated by industrial furnace. Revista Ceres, 2018, 65, 346-355.	0.1	2
47	Characterization of the Transverse Distribution of Fertilizer in Coffee Plantations. Agronomy, 2020, 10, 601.	1.3	2
48	Comparative analysis of soil-sampling methods used in precision agriculture. Journal of Agricultural Engineering, 0, , .	0.7	2
49	Effect of the Spatial Distribution of the Temperature and Humidity Index in a New Zealand White Rabbit House on Respiratory Frequency and Ear Surface Temperature. Animals, 2021, 11, 1657.	1.0	2
50	VariÃ¡veis meteorolÃ³gicas e da umidade do solo na forÃ§a de desprendimento dos frutos do cafÃ©. Coffee Science, 2017, 12, 480.	0.5	2
51	Technical and economic viability of manual harvesting coffee yield maps. Coffee Science, 0, 15, 1-5.	0.5	2
52	Characterization of noise emitted by a low-profile tractor and its influence on the health of rural workers. Anais Da Academia Brasileira De Ciencias, 2020, 92, e20200460.	0.3	2
53	CLIMATE CHANGE AND RURAL WORKERS THERMAL COMFORT: HISTORICAL AND FUTURE IMPACTS. Engenharia Agricola, 2018, 38, 173-179.	0.2	1
54	Bioclimatic zoning and trend analysis applied to broilers. Arquivo Brasileiro De Medicina Veterinaria E Zootecnia, 2019, 71, 1631-1638.	0.1	1

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55	Comparative economic analysis of soil sampling methods used in precision agriculture. Anais Da Academia Brasileira De Ciencias, 2020, 92, e20190277.	0.3	1
56	Spatial Variability of Air Temperature In A Broiler House During The Heating Phase. , 2012, , .		0
57	Welfare and spatial distribution of noise levels in swine nursery. Revista Brasileira De Engenharia Agricola E Ambiental, 2019, 23, 196-202.	0.4	0
58	Spatial variability of chlorophyll content in a Tifton 85 bermudagrass pasture in a tropical region. Revista Engenharia Na Agricultura - REVENG, 0, 29, 254-262.	0.2	0
59	Physical Properties of Miscanthus Grass and Wheat Straw as Bedding Materials for Dairy Cattle. Lecture Notes in Civil Engineering, 2020, , 239-246.	0.3	0
60	Technical and economic evaluation of different operating modes for mechanized fertilizer application in coffee plantations. Coffee Science, 0, 15, 1-6.	0.5	0
61	Monitoring of Coffee Tree Growth Through Crop Surface Models and MGRVI with Images Obtained with RPA. Lecture Notes in Civil Engineering, 2020, , 757-763.	0.3	0
62	Spatial variability characterization of acoustic discomfort and zone of admissible noise caused by micro-tractor. Revista Facultad Nacional De Agronomia Medellin, 2022, 75, .	0.2	0
63	Supervised classification and NDVI calculation from remote piloted aircraft images for coffee plantations applications. Coffee Science, 0, 16, 1-9.	0.5	0
64	Aerial images to monitor grapevine vegetative growth. Revista Engenharia Na Agricultura - REVENG, 0, 30, 166-174.	0.2	0