

Aldo Calcante

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

687
citations

623734

14
h-index

552781

26
g-index

37
all docs

37
docs citations

37
times ranked

830
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective spraying of grapevines for disease control using a modular agricultural robot. <i>Biosystems Engineering</i> , 2016, 146, 203-215.	4.3	124
2	Automatic detection of powdery mildew on grapevine leaves by image analysis: Optimal view-angle range to increase the sensitivity. <i>Computers and Electronics in Agriculture</i> , 2014, 104, 1-8.	7.7	86
3	Integration of optical and analogue sensors for monitoring canopy health and vigour in precision viticulture. <i>Precision Agriculture</i> , 2010, 11, 636-649.	6.0	60
4	Evaluation of Borage Extracts As Potential Biostimulant Using a Phenomic, Agronomic, Physiological, and Biochemical Approach. <i>Frontiers in Plant Science</i> , 2017, 8, 935.	3.6	60
5	A neural network approach for indirectly estimating farm tractors engine performances. <i>Fuel</i> , 2015, 143, 144-154.	6.4	53
6	Evaluation of "ground sensing" optical sensors for diagnosis of <i>Plasmopara viticola</i> on vines. <i>Spanish Journal of Agricultural Research</i> , 2012, 10, 619.	0.6	44
7	The profitability of precision spraying on specialty crops: a technical-economic analysis of protection equipment at increasing technological levels. <i>Precision Agriculture</i> , 2018, 19, 606-629.	6.0	41
8	Analysis of electric energy consumption of automatic milking systems in different configurations and operative conditions. <i>Journal of Dairy Science</i> , 2016, 99, 4043-4047.	3.4	21
9	The use of pressure mapping to assess the comfort of agricultural machinery seats. <i>International Journal of Industrial Ergonomics</i> , 2020, 77, 102835.	2.6	19
10	COMPARING COMMERCIAL OPTICAL SENSORS FOR CROP MONITORING TASKS IN PRECISION VITICULTURE. <i>Journal of Agricultural Engineering</i> , 2009, 40, 11.	1.5	17
11	Evaluation of an electronic system for automatic calving detection on a dairy farm. <i>Animal Production Science</i> , 2013, 53, 1112.	1.3	16
12	Design, development and evaluation of a wireless system for the automatic identification of implements. <i>Computers and Electronics in Agriculture</i> , 2014, 101, 118-127.	7.7	16
13	Energy consumption and technical-economic analysis of an automatic feeding system for dairy farms: Results from a field test. <i>Journal of Agricultural Engineering</i> , 2018, 49, 228-232.	1.5	16
14	A Technical-Economic Comparison between Conventional Tillage and Conservative Techniques in Paddy-Rice Production Practice in Northern Italy. <i>Agronomy</i> , 2019, 9, 886.	3.0	16
15	A GPS/GSM based birth alarm system for grazing cows. <i>Computers and Electronics in Agriculture</i> , 2014, 100, 123-130.	7.7	14
16	Nutrient losses from cattle co-digestate slurry during storage. <i>Journal of Agricultural Engineering</i> , 2016, 47, 94.	1.5	14
17	Repair and Maintenance Costs of 4WD Tractors in Northern Italy. <i>Transactions of the ASABE</i> , 2013, 56, 355-362.	1.1	11
18	Highly automated vine cutting transplanter based on DGNS-RTK technology integrated with hydraulic devices. <i>Computers and Electronics in Agriculture</i> , 2011, 79, 20-29.	7.7	9

#	ARTICLE	IF	CITATIONS
19	Assessment of Comfort Variation among Different Types of Driving Agricultural Tractors: Traditional, Satellite-Assisted and Semi-Automatic. International Journal of Environmental Research and Public Health, 2020, 17, 8836.	2.6	8
20	Repair and maintenance costs of 4WD tractors and self propelled combine harvesters in Italy. Journal of Agricultural Engineering, 2013, 44, .	1.5	7
21	Experimental Study of Abrasive Waterjet Cutting for Managing Residues in No-Tillage Techniques. Agriculture (Switzerland), 2021, 11, 392.	3.1	7
22	Characterization of the Biogenic Volatile Organic Compounds (BVOCs) and Analysis of the PR1 Molecular Marker in Vitis vinifera L. Inoculated with the Nematode Xiphinema index. International Journal of Molecular Sciences, 2020, 21, 4485.	4.1	5
23	Proposal to Estimate the Engine Oil Consumption in Agricultural Tractors. Applied Engineering in Agriculture, 2017, 33, 191-194.	0.7	4
24	Estimating the Total Lubricant Oil Consumption Rate in Agricultural Tractors. Transactions of the ASABE, 2019, 62, 197-204.	1.1	3
25	Design, Development, and Evaluation of a Device for the Monitoring of Liquid Manure Distribution using Big Gun Sprinkler Distribution Systems. Applied Engineering in Agriculture, 2011, 27, 569-576.	0.7	2
26	A Retrofit Variable-Rate Control System for Pressurized Slurry Tankers. Applied Engineering in Agriculture, 2015, , 569-579.	0.7	2
27	TEST OF GROUND-SENSING DEVICES FOR MONITORING CANOPY VIGOUR AND DOWNY MILDEW PRESENCE IN VINEYARDS: FIRST QUALITATIVE RESULTS. Journal of Agricultural Engineering, 2011, 42, 1.	1.5	2
28	Algorithms for the interpretation of continuous measurement of the slurry level in storage tanks. Journal of Agricultural Engineering, 2012, 43, 6.	1.5	2
29	Assessment of technical-productive aspects in Italian dairy farms equipped with automatic milking systems: A multivariate statistical analysis approach. Journal of Dairy Science, 2022, 105, 7539-7549.	3.4	2
30	DESIGN, DEVELOPMENT AND EARLY TESTING OF A DEVICE FOR THE MONITORING OF ZOOTECHNICAL EFFLUENT DISTRIBUTION USING RAINGUN DISTRIBUTION SYSTEMS. Journal of Agricultural Engineering, 2009, 40, 9.	1.5	1
31	DEVELOPMENT AND FIRST TESTS OF AN AUTOMATIC SYSTEM FOR COMMERCIAL VINE CUTTING TRANSPLANTERS BASED ON DGPS-RTK TECHNOLOGY. Journal of Agricultural Engineering, 2009, 40, 1.	1.5	1
32	Measuring oxygen saturation and pulse rate in dairy cows before and after machine milking using a low-cost pulse oximeter. Journal of Agricultural Engineering, 2021, 52, .	1.5	1
33	Design and testing of a GPS/GSM collar prototype to combat cattle rustling. Journal of Agricultural Engineering, 2013, 44, 10.	1.5	1
34	Environmental assessment of individual and collective manure management systems. Journal of Agricultural Engineering, 2013, 44, .	1.5	0
35	Calculation of the Mixing Time as a Function of the Dairy Cow Diet Chemical Homogeneity Inside the Mixing Hopper. Lecture Notes in Civil Engineering, 2022, , 60-66.	0.4	0