

Francisco Domingo Molina-Aiz

List of Publications by Year in descending order

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47
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567281

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#	ARTICLE	IF	CITATIONS
1	The Influence of Different Cooling Systems on the Microclimate, Photosynthetic Activity and Yield of a Tomato Crops (<i>Lycopersicum esculentum</i> Mill.) in Mediterranean Greenhouses. <i>Agronomy</i> , 2022, 12, 524.	3.0	3
2	Analysis of Turbulent Air Flow Characteristics Due to the Presence of a 13 Å– 30 ThreadsÅ·cm ² Insect Proof Screen on the Side Windows of a Mediterranean Greenhouse. <i>Agronomy</i> , 2022, 12, 586.	3.0	4
3	DESIGN OF DIGITAL RESOURCES FOR LEARNING IN INDUSTRIAL ENGINEERING SUBJECTS IN COVID TIMES. <i>INTED Proceedings</i> , 2022, , .	0.0	0
4	COMPARISON OF DIFFERENT COMPETENCE EVALUATION TOOLS IN INDUSTRIAL ENGINEERING STUDENTS. <i>INTED Proceedings</i> , 2022, , .	0.0	0
5	Effect of Different Substrates, and Irrigation with Water with Different Saline Concentrations, on the Development of Tomato Fungal Diseases in an Almería-Type Greenhouse. <i>Agronomy</i> , 2022, 12, 1050.	3.0	3
6	The Effect of Diffuse Film Covers on Microclimate and Growth and Production of Tomato (<i>Solanum</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.0	7
7	Low Tunnels inside Mediterranean Greenhouses: Effects on Air/Soil Temperature and Humidity. <i>Agronomy</i> , 2021, 11, 1973.	3.0	2
8	Effects of Cover Whitening Concentrations on the Microclimate and on the Development and Yield of Tomato (<i>Lycopersicon esculentum</i> Mill.) Inside Mediterranean Greenhouses. <i>Agronomy</i> , 2020, 10, 237.	3.0	6
9	Analysis of the Effect of Concentrations of Four Whitening Products in Cover Transmissivity of Mediterranean Greenhouses. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 958.	2.6	6
10	Application of Semi-Empirical Ventilation Models in A Mediterranean Greenhouse with Opposing Thermal and Wind Effects. Use of Non-Constant Cd (Pressure Drop Coefficient Through the Vents) and Cw (Wind Effect Coefficient). <i>Agronomy</i> , 2019, 9, 736.	3.0	6
11	Effect of material ageing and dirt on the behaviour of greenhouse insect-proof screens. <i>Spanish Journal of Agricultural Research</i> , 2019, 16, e0205.	0.6	2
12	Development of a single energy balance model for prediction of temperatures inside a naturally ventilated greenhouse with polypropylene soil mulch. <i>Computers and Electronics in Agriculture</i> , 2017, 142, 9-28.	7.7	41
13	Effects of ventilator configuration on the flow pattern of a naturally-ventilated three-span Mediterranean greenhouse. <i>Biosystems Engineering</i> , 2017, 164, 13-30.	4.3	31
14	Numerical and experimental study of heat and mass transfers in an Almería-type greenhouse. <i>Acta Horticulturae</i> , 2017, , 209-218.	0.2	5
15	Using Computational Fluid Dynamics to analyse the CO ₂ transfer in naturally ventilated greenhouses. <i>Acta Horticulturae</i> , 2017, , 283-292.	0.2	15
16	The greenhouses of Almería, Spain: technological analysis and profitability. <i>Acta Horticulturae</i> , 2017, , 219-226.	0.2	36
17	Analysis of the microclimate of a greenhouse with two anti-insect screens of different thread density. <i>Acta Horticulturae</i> , 2017, , 227-234.	0.2	0
18	Influence of the greenhouse type and cooling system on the production of a tomato crop during the spring/summer cycle under Mediterranean climate. <i>Acta Horticulturae</i> , 2017, , 829-838.	0.2	3

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19	Sonic anemometry and sediment traps to evaluate the effectiveness of windbreaks in preventing wind erosion. <i>Scientia Agricola</i> , 2017, 74, 425-435.	1.2	6
20	Wind Tunnel Analysis of the Airflow through Insect-Proof Screens and Comparison of Their Effect When Installed in a Mediterranean Greenhouse. <i>Sensors</i> , 2016, 16, 690.	3.8	15
21	Combination of image processing and artificial neural networks as a novel approach for the identification of <i>Bemisia tabaci</i> and <i>Frankliniella occidentalis</i> on sticky traps in greenhouse agriculture. <i>Computers and Electronics in Agriculture</i> , 2016, 127, 495-505.	7.7	82
22	An Auto-Tuning PI Control System for an Open-Circuit Low-Speed Wind Tunnel Designed for Greenhouse Technology. <i>Sensors</i> , 2015, 15, 19723-19749.	3.8	18
23	Microclimate evaluation of a new design of insect-proof screens in a Mediterranean greenhouse. <i>Spanish Journal of Agricultural Research</i> , 2014, 12, 338.	0.6	15
24	Effectiveness of horizontal air flow fans supporting natural ventilation in a Mediterranean multi-span greenhouse. <i>Scientia Agricola</i> , 2013, 70, 219-228.	1.2	6
25	Field analysis of the deterioration after some years of use of four insect-proof screens utilized in Mediterranean greenhouses. <i>Spanish Journal of Agricultural Research</i> , 2013, 11, 958.	0.6	12
26	Thermography and Sonic Anemometry to Analyze Air Heaters in Mediterranean Greenhouses. <i>Sensors</i> , 2012, 12, 13852-13870.	3.8	5
27	Determining the emissivity of the leaves of nine horticultural crops by means of infrared thermography. <i>Scientia Horticulturae</i> , 2012, 137, 49-58.	3.6	71
28	Sonic anemometry to evaluate airflow characteristics and temperature distribution in empty Mediterranean greenhouses equipped with pad-fan and fog systems. <i>Biosystems Engineering</i> , 2012, 113, 334-350.	4.3	43
29	Pad-Fan Systems in Mediterranean Greenhouses: Determining Optimal Setup by Sonic Anemometry. <i>Transactions of the ASABE</i> , 2012, 55, 1077-1089.	1.1	4
30	AIR PATTERNS IN A MEDITERRANEAN GREENHOUSE EQUIPPED WITH A COOLING SYSTEM. <i>Acta Horticulturae</i> , 2012, , 651-658.	0.2	0
31	EFFECTS OF INSECT-PROOF SCREENS USED IN GREENHOUSE ON MICROCLIMATE AND FRUIT YIELD OF TOMATO (<i>SOLANUM LYCOPERSICUM</i> L.) IN A MEDITERRANEAN CLIMATE. <i>Acta Horticulturae</i> , 2012, , 707-714.	0.2	3
32	STUDY BY SONIC-ANEMOMETRY OF THE EFFECTS OF SURROUNDING BUILDINGS ON NATURAL VENTILATION IN A MEDITERRANEAN GREENHOUSE. <i>Acta Horticulturae</i> , 2012, , 715-722.	0.2	0
33	Sonic anemometry measurements to determine airflow patterns in multi-tunnel greenhouses. <i>Spanish Journal of Agricultural Research</i> , 2012, 10, 631.	0.6	14
34	Effects of Surrounding Buildings on Air Patterns and Turbulence in Two Naturally Ventilated Mediterranean Greenhouses Using Tri-Sonic Anemometry. <i>Transactions of the ASABE</i> , 2011, 54, 1941-1950.	1.1	2
35	AIRFLOW AT THE OPENINGS OF A NATURALLY VENTILATED ALMERÍA-TYPE GREENHOUSE WITH INSECT-PROOF SCREENS. <i>Acta Horticulturae</i> , 2011, , 545-552.	0.2	8
36	Sonic Anemometry to Measure Natural Ventilation in Greenhouses. <i>Sensors</i> , 2011, 11, 9820-9838.	3.8	34

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37	Comparison of finite element and finite volume methods for simulation of natural ventilation in greenhouses. <i>Computers and Electronics in Agriculture</i> , 2010, 72, 69-86.	7.7	83
38	Experimental Evaluation by Sonic Anemometry of Airflow in a Mediterranean Greenhouse Equipped with a Pad-Fan Cooling System. <i>Transactions of the ASABE</i> , 2010, 53, 945-957.	1.1	6
39	A study of natural ventilation in an Almería-type greenhouse with insect screens by means of tri-sonic anemometry. <i>Biosystems Engineering</i> , 2009, 104, 224-242.	4.3	65
40	NUMERICAL SIMULATION OF NATURAL VENTILATION IN GREENHOUSES: A COMPARISON BETWEEN FINITE VOLUMES METHOD AND FINITE ELEMENTS METHOD. <i>Acta Horticulturae</i> , 2008, , 971-978.	0.2	1
41	A METHOD FOR THE ANALYSIS OF THE GEOMETRIC CHARACTERISTICS OF PROTECTION SCREENS. <i>Acta Horticulturae</i> , 2006, , 557-564.	0.2	8
42	A Wind Tunnel Study of Airflow through Horticultural Crops: Determination of the Drag Coefficient. <i>Biosystems Engineering</i> , 2006, 93, 447-457.	4.3	83
43	Aerodynamic analysis of several insect-proof screens used in greenhouses. <i>Spanish Journal of Agricultural Research</i> , 2006, 4, 273.	0.6	46
44	CONTRIBUTION TO CHARACTERISATION OF INSECT-PROOF SCREENS: EXPERIMENTAL MEASUREMENTS IN WIND TUNNEL AND CFD SIMULATION. <i>Acta Horticulturae</i> , 2005, , 441-448.	0.2	34
45	OPTIMISATION OF ALMERÍA-TYPE GREENHOUSE VENTILATION PERFORMANCE WITH COMPUTATIONAL FLUID DYNAMICS. <i>Acta Horticulturae</i> , 2005, , 433-440.	0.2	19
46	Measurement and simulation of climate inside Almería-type greenhouses using computational fluid dynamics. <i>Agricultural and Forest Meteorology</i> , 2004, 125, 33-51.	4.8	103
47	USING COMPUTATIONAL FLUID DYNAMICS TOOL TO MODEL THE INTERNAL CLIMATE OF AN ALMERÍA-TYPE GREENHOUSE. <i>Acta Horticulturae</i> , 2004, , 271-278.	0.2	4