

JosÃ© Miguel Molina MartÃ­nez

List of Publications by Year in descending order

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72
papers

1,067
citations

430442

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72
all docs

72
docs citations

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times ranked

1067
citing authors

#	ARTICLE	IF	CITATIONS
1	Using metaheuristic algorithms to improve the estimation of acidity in Fuji apples using NIR spectroscopy. <i>Ain Shams Engineering Journal</i> , 2022, 13, 101776.	3.5	12
2	Agroclimatic Evolution web application as a powerful solution for managing climate data. <i>Scientific Reports</i> , 2022, 12, 6716.	1.6	2
3	Metaheuristic algorithms in visible and near infrared spectra to detect excess nitrogen content in tomato plants. <i>Journal of Near Infrared Spectroscopy</i> , 2022, 30, 197-207.	0.8	4
4	Convolutional Neural Networks for Estimating the Ripening State of Fuji Apples Using Visible and Near-Infrared Spectroscopy. <i>Food and Bioprocess Technology</i> , 2022, 15, 2226-2236.	2.6	15
5	Estimation of the Evapotranspiration and Crop Coefficients of Bell Pepper Using a Removable Weighing Lysimeter: A Case Study in the Southeast of Spain. <i>Sustainability</i> , 2021, 13, 747.	1.6	1
6	Standardization of the Dimensions of a Portable Weighing Lysimeter Designed to Be Applied to Vegetable Crops in Mediterranean Climates. <i>Sustainability</i> , 2021, 13, 2210.	1.6	5
7	Early Detection of Excess Nitrogen Consumption in Cucumber Plants Using Hyperspectral Imaging Based on Hybrid Neural Networks and the Imperialist Competitive Algorithm. <i>Agronomy</i> , 2021, 11, 575.	1.3	17
8	Identification of Internal Defects in Potato Using Spectroscopy and Computational Intelligence Based on Majority Voting Techniques. <i>Foods</i> , 2021, 10, 982.	1.9	4
9	A Compact Weighing Lysimeter to Estimate the Water Infiltration Rate in Agricultural Soils. <i>Agronomy</i> , 2021, 11, 180.	1.3	5
10	Study of the Influence of Temperature on Boron Concentration Estimation in Desalinated Seawater for Agricultural Irrigation. <i>Water (Switzerland)</i> , 2021, 13, 322.	1.2	8
11	Development of an Algorithm for an Automatic Determination of the Soil Field Capacity Using of a Portable Weighing Lysimeter. <i>Sensors</i> , 2021, 21, 7203.	2.1	2
12	Adaptation of a Traditional Irrigation System of Micro-Plots to Smart Agri Development: A Case Study in Murcia (Spain). <i>Agronomy</i> , 2020, 10, 1365.	1.3	8
13	Reducing the Carbon Footprint of the Water-Energy Binomial through Governance and ICT. A Case Study. <i>Water (Switzerland)</i> , 2020, 12, 3187.	1.2	0
14	Removable Weighing Lysimeter for Use in Horticultural Crops. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4865.	1.3	13
15	Estimation of different ripening stages of Fuji apples using image processing and spectroscopy based on the majority voting method. <i>Computers and Electronics in Agriculture</i> , 2020, 176, 105643.	3.7	17
16	Recent Advances in Applications of Remote Image Capture Systems in Agriculture. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7527.	1.3	0
17	Systematic Mapping Study on Remote Sensing in Agriculture. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3456.	1.3	25
18	An Augmented Reality Tool for Teaching Application in the Agronomy Domain. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3632.	1.3	8

#	ARTICLE	IF	CITATIONS
19	Deep learning in olive pitting machines by computer vision. Computers and Electronics in Agriculture, 2020, 171, 105304.	3.7	7
20	A Machine Learning Method to Estimate Reference Evapotranspiration Using Soil Moisture Sensors. Applied Sciences (Switzerland), 2020, 10, 1912.	1.3	16
21	Analysis of the Functionality of the Feed Chain in Olive Pitting, Slicing and Stuffing Machines by IoT, Computer Vision and Neural Network Diagnosis. Sensors, 2020, 20, 1541.	2.1	5
22	How to Reduce the Carbon Footprint of an Irrigation Community in the South-East of Spain by Use of Solar Energy. Energies, 2020, 13, 2848.	1.6	8
23	Estimation of the Constituent Properties of Red Delicious Apples Using a Hybrid of Artificial Neural Networks and Artificial Bee Colony Algorithm. Agronomy, 2020, 10, 267.	1.3	8
24	Comparison of Different Classifiers and the Majority Voting Rule for the Detection of Plum Fruits in Garden Conditions. Remote Sensing, 2019, 11, 2546.	1.8	21
25	Automatic Classification of Chickpea Varieties Using Computer Vision Techniques. Agronomy, 2019, 9, 672.	1.3	20
26	Remote Image Capture System to Improve Aerial Supervision for Precision Irrigation in Agriculture. Water (Switzerland), 2019, 11, 255.	1.2	12
27	An Automatic Non-Destructive Method for the Classification of the Ripeness Stage of Red Delicious Apples in Orchards Using Aerial Video. Agronomy, 2019, 9, 84.	1.3	27
28	Adaptation in the Design of a Weighing Lysimeter for Use in Potato Crops. Lecture Notes in Mechanical Engineering, 2019, , 143-151.	0.3	0
29	Design and implementation of a low cost photovoltaic soil moisture monitoring station for irrigation scheduling with different frequency domain analysis probe structures. Computers and Electronics in Agriculture, 2018, 148, 148-159.	3.7	18
30	Segmentation of Apples in Aerial Images under Sixteen Different Lighting Conditions Using Color and Texture for Optimal Irrigation. Water (Switzerland), 2018, 10, 1634.	1.2	16
31	Performance indicators to assess the implementation of automation in golf courses located in Southeast Spain. Agricultural Water Management, 2017, 183, 35-40.	2.4	6
32	A new model for water balance estimation on lettuce crops using effective diameter obtained with image analysis. Agricultural Water Management, 2017, 183, 116-122.	2.4	11
33	Automatic fault detection in a low cost frequency domain (capacitance based) soil moisture sensor. Agricultural Water Management, 2017, 183, 41-48.	2.4	18
34	Implementation of an Advanced Automated Management System for the Optimization of Energy and Power Terms in a Water Purification Plant (WPP) with a Photovoltaic Plant (PP). Smart Innovation, Systems and Technologies, 2017, , 357-372.	0.5	0
35	Software application for real-time ET o /ET c calculation through mobile devices. Precision Agriculture, 2017, 18, 1024-1037.	3.1	1
36	Cloud-based monitoring system for lysimetric and agroclimatic data. Precision Agriculture, 2017, 18, 1069-1084.	3.1	2

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37	Low-frequency characterisation of mesocarp electrical conductivity in different varieties of olives () Tj ETQq1 1 0.784314 rgB ₅ /Overlock	3.7	23
38	Development of a visual monitoring system for water balance estimation of horticultural crops using low cost cameras. Computers and Electronics in Agriculture, 2017, 141, 15-26.	3.7	23
39	Weighing lysimetric system for the determination of the water balance during irrigation in potted plants. Agricultural Water Management, 2017, 183, 78-85.	2.4	20
40	Platform for the management of hydraulic chambers based on mobile devices and Bluetooth Low-Energy motes. Agricultural Water Management, 2017, 183, 169-176.	2.4	6
41	A new portable application for automatic segmentation of plants in agriculture. Agricultural Water Management, 2017, 183, 146-157.	2.4	26
42	Web application for analysis of digital photography in the estimation of irrigation requirements for lettuce crops. Agricultural Water Management, 2017, 183, 136-145.	2.4	5
43	Optimal color space selection method for plant/soil segmentation in agriculture. Computers and Electronics in Agriculture, 2016, 122, 124-132.	3.7	90
44	Ecofert: An Android application for the optimization of fertilizer cost in fertigation. Computers and Electronics in Agriculture, 2016, 121, 32-42.	3.7	32
45	Use of software to model the water and energy use of an irrigation pipe network on a golf course. Agricultural Water Management, 2015, 151, 37-42.	2.4	4
46	Digital photography applied to irrigation management of Little Gem lettuce. Agricultural Water Management, 2015, 151, 148-157.	2.4	19
47	Software for the automatic control of irrigation using weighing-drainage lysimeters. Agricultural Water Management, 2015, 151, 4-12.	2.4	23
48	Development and assessment of a network of water meters and rain gauges for determining the water balance. New SCADA monitoring software. Agricultural Water Management, 2015, 151, 93-102.	2.4	12
49	Selection of device to determine temperature gradients for estimating evapotranspiration using energy balance method. Agricultural Water Management, 2015, 151, 136-147.	2.4	1
50	Performance indicators to assess the implementation of automation in water user associations: A case study in southeast Spain. Agricultural Water Management, 2015, 151, 87-92.	2.4	16
51	A mobile application to calculate optimum drip irrigation laterals. Agricultural Water Management, 2015, 151, 13-18.	2.4	11
52	Optifer: An application to optimize fertiliser costs in fertigation. Agricultural Water Management, 2015, 151, 19-29.	2.4	10
53	Evaluation of an experimental system of soil moisture registration for irrigation management in potted vineyard (Vitis vinifera L. CV Bobal) of multi-depth temperature compensation based in resistivity measurements. Agricultural Water Management, 2015, 151, 126-135.	2.4	6
54	Software application for calculating solar radiation and equivalent evaporation in mobile devices. Agricultural Water Management, 2015, 151, 30-36.	2.4	10

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55	Development of an innovative low cost weighing lysimeter for potted plants: Application in lysimetric stations. <i>Agricultural Water Management</i> , 2015, 151, 103-113.	2.4	33
56	Study and comparison of color models for automatic image analysis in irrigation management applications. <i>Agricultural Water Management</i> , 2015, 151, 158-166.	2.4	76
57	Methodology for obtaining prediction models of the root depth of lettuce for its application in irrigation automation. <i>Agricultural Water Management</i> , 2015, 151, 167-173.	2.4	15
58	SCADA platform combined with a scale model of trickle irrigation system for agricultural engineering education. <i>Computer Applications in Engineering Education</i> , 2014, 22, 463-473.	2.2	9
59	SCADA Platform for Regulated Deficit Irrigation Management of Almond Trees. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2014, 140, 04014008.	0.6	9
60	A digital image-processing-based method for determining the crop coefficient of lettuce crops in the southeast of Spain. <i>Biosystems Engineering</i> , 2014, 117, 23-34.	1.9	44
61	Data management in drip irrigation monitoring for vineyards in pot by weighing lysimeter. <i>WIT Transactions on Information and Communication Technologies</i> , 2013, , .	0.0	0
62	VIPMET: New Real-Time Data Filtering-Based Automatic Agricultural Weather Station. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2012, 138, 823-829.	0.6	5
63	A new mobile application for maintenance tasks in photovoltaic installations by using GPS data. <i>Energy Conversion and Management</i> , 2012, 57, 79-85.	4.4	14
64	IRRIGATION SCHEDULING SYSTEMS BASED ON WATER CONTENT GAUGES FOR CITRUS TREES - SOME DATA OF SEVERAL CASE STUDIES IN THE SOUTHEAST OF SPAIN. <i>Acta Horticulturae</i> , 2011, , 537-541.	0.1	2
65	RaGPS: A software application for determining extraterrestrial radiation in mobile devices with GPS. <i>Computers and Electronics in Agriculture</i> , 2011, 78, 116-121.	3.7	16
66	Identifying the most relevant issues to minimize an automated irrigation water supply in vineyards using Data Mining. <i>WIT Transactions on Ecology and the Environment</i> , 2011, , .	0.0	0
67	Pocket PC software to evaluate drip irrigation lateral diameters with on-line emitters. <i>Computers and Electronics in Agriculture</i> , 2009, 69, 112-115.	3.7	11
68	A novel approach for estimating the pan coefficient of irrigation water reservoirs. <i>Agricultural Water Management</i> , 2007, 92, 29-40.	2.4	33
69	Efficiency of shading materials in reducing evaporation from free water surfaces. <i>Agricultural Water Management</i> , 2006, 84, 229-239.	2.4	63
70	A simulation model for predicting hourly pan evaporation from meteorological data. <i>Journal of Hydrology</i> , 2006, 318, 250-261.	2.3	59
71	Estimación de la evaporación en embalses de riego mediante un modelo de balance de energía. <i>Ingeniería Del Agua</i> , 2006, 13, 219.	0.2	4
72	Effect of black polyethylene shade covers on the evaporation rate of agricultural reservoirs. <i>Spanish Journal of Agricultural Research</i> , 2006, 4, 280.	0.3	13