Jorge Antonio Sanchez Molina

List of Publications by Year
in descending order

46 papers	863 citations	361413 20 h-index	501196 28 g-index
47 all docs	47 docs citations	47 times ranked	899 citing authors

#	ARTICLE	IF	CITATIONS
1	A New IoT-Based Platform for Greenhouse Crop Production. IEEE Internet of Things Journal, 2022, 9, 6325-6334.	8.7	19
2	Boiler Combustion Optimization of Vegetal Crop Residues from Greenhouses. Agronomy, 2021, 11, 626.	3.0	2
3	Development of an empirical tomato crop disease model: a case study on gray leaf spot. European Journal of Plant Pathology, 2020, 156, 477-490.	1.7	8
4	Automatic Tomato and Peduncle Location System Based on Computer Vision for Use in Robotized Harvesting. Applied Sciences (Switzerland), 2020, 10, 5887.	2.5	30
5	Evaluation of an Adapted Greenhouse Cooling System with Pre-Chamber and Inflatable Air Ducts for Semi-Arid Regions in Warm Conditions. Agronomy, 2020, 10, 752.	3.0	3
6	Optimal thermal energy management of a distributed energy system comprising a solar membrane distillation plant and a greenhouse. Energy Conversion and Management, 2019, 198, 111791.	9.2	22
7	Optimal processing of greenhouse crop residues to use as energy and CO_2 sources. Industrial Crops and Products, 2019, 137, 662-671.	5.2	16
8	Improving the Performance of Vegetable Leaf Wetness Duration Models in Greenhouses Using Decision Tree Learning. Water (Switzerland), 2019, 11, 158.	2.7	19
9	Greenhouse Models as a Service (GMaaS) for Simulation and Control. IFAC-PapersOnLine, 2019, 52, 190-195.	0.9	5
10	Evaluation of a dehumidifier in a mild weather greenhouse. Applied Thermal Engineering, 2019, 146, 92-103.	6.0	16
11	Conceptual Data Model for IoT in a Chain-Integrated Greenhouse Production: Case of the Tomato Production in Almeria (Spain). IFAC-PapersOnLine, 2018, 51, 102-107.	0.9	7
12	Características de las materias primas usadas por las empresas del sector cerámico del área metropolitana de Cúcuta (Colombia). Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2018, 57, 247-256.	1.9	7
13	Analysis of mass transfer capacity in raceway reactors. Algal Research, 2018, 35, 91-97.	4.6	26
14	Improving automatic climate control with decision support techniques to minimize disease effects in greenhouse tomatoes. Information Processing in Agriculture, 2017, 4, 50-63.	4.1	25
15	Leaf area index estimation for a greenhouse transpiration model using external climate conditions based on genetics algorithms, back-propagation neural networks and nonlinear autoregressive exogenous models. Agricultural Water Management, 2017, 183, 107-115.	5.6	35
16	A risk management system for meteorological disasters of solar greenhouse vegetables. Precision Agriculture, 2017, 18, 997-1010.	6.0	19
17	Evaluation of event-based irrigation system control scheme for tomato crops in greenhouses. Agricultural Water Management, 2017, 183, 16-25.	5.6	41
18	cFertigUAL: A fertigation management app for greenhouse vegetable crops. Agricultural Water Management, 2017, 183, 186-193.	5.6	27

#	ARTICLE	IF	CITATIONS
19	Hybrid modelling for a biomass-based system for heating and CO2 enrichment. Acta Horticulturae, 2017, , 159-166.	0.2	0
20	CO₂ supply to a greenhouse from the combustion of vegetal waste. Acta Horticulturae, 2017, , 547-554.	0.2	0
21	Proposal to Foster Sustainability through Circular Economy-Based Engineering: A Profitable Chain from Waste Management to Tunnel Lighting. Sustainability, 2017, 9, 2229.	3.2	29
22	Influencia de las materias primas y de la tÃ©cnica de moldeo en la fabricaciÃ³n de productos cerÃ¡micos tipo gres. Ingenieria Y Competitividad, 2017, 19, .	0.1	3
23	Development and test verification of air temperature model for Chinese solar and Spainish Almeria-type greenhouse. International Journal of Agricultural and Biological Engineering, 2017, 10, 66-76.	0.6	7
24	Agricultural cooperatives and the role of organisational models in new intelligent traceability systems and big data analysis. International Journal of Agricultural and Biological Engineering, 2017, 10, 115-125.	0.6	28
25	Pellet as a Technological Nutrient within the Circular Economy Model: Comparative Analysis of Combustion Efficiency and CO and NOx Emissions for Pellets from Olive and Almond Trees. Energies, 2016, 9, 777.	3.1	27
26	Predictive Control Applied to a Solar Desalination Plant Connected to a Greenhouse with Daily Variation of Irrigation Water Demand. Energies, 2016, 9, 194.	3.1	24
27	Architecture to develop semiâ€virtual industrial laboratories for the interactive learning of process automation. Computer Applications in Engineering Education, 2016, 24, 335-346.	3.4	10
28	A proposal for teaching SCADA systems using Virtual Industrial Plants in Engineering Education. IFAC-PapersOnLine, 2016, 49, 138-143.	0.9	3
29	Event-based control for a greenhouse irrigation system. , 2016, , .		4
30	Bayesian networks for greenhouse temperature control. Journal of Applied Logic, 2016, 17, 25-35.	1.1	35
31	A hybrid-controlled approach for maintaining nocturnal greenhouse temperature: Simulation study. Computers and Electronics in Agriculture, 2016, 123, 116-124.	7.7	33
32	SISTEMA DE PROGRAMACIÃ"N Y CONTROL AUTOMÃTICO DE UN RIEGO POR GOTEO SUBTERRÃNEO EN UN CULTIVO DE OLIVAR. , 2016, , .		1
33	Modeling of Energy Demand of a High-Tech Greenhouse in Warm Climate Based on Bayesian Networks. Mathematical Problems in Engineering, 2015, 2015, 1-11.	1.1	10
34	Semi-virtual Plant for the Modelling, Control and Supervision of batch-processes. An example of a greenhouse irrigation system. IFAC-PapersOnLine, 2015, 48, 123-128.	0.9	5
35	Support system for decision making in the management of the greenhouse environmental based on growth model for sweet pepper. Agricultural Systems, 2015, 139, 144-152.	6.1	12
36	Water content virtual sensor for tomatoes in coconut coir substrate for irrigation control design. Agricultural Water Management, 2015, 151, 114-125.	5.6	22

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37	Development of a biomass-based system for nocturnal temperature and diurnal CO_2 concentration control in greenhouses. Biomass and Bioenergy, 2014, 67, 60-71.	5.7	37
38	Effect of N uptake concentration on nitrate leaching from tomato grown in free-draining soilless culture under Mediterranean conditions. Scientia Horticulturae, 2013, 150, 387-398.	3.6	38
39	Subharmonic content in Finite-State Model Predictive Current Control of IM. , 2013, , .		6
40	Grasping in Agriculture: State-of-the-Art and Main Characteristics. Mechanisms and Machine Science, 2013, , 385-409.	0.5	21
41	Virtual Sensors for Designing Irrigation Controllers in Greenhouses. Sensors, 2012, 12, 15244-15266.	3.8	26
42	MODELLING OF TOMATO CROP TRANSPIRATION DYNAMICS FOR DESIGNING NEW IRRIGATION CONTROLLERS. Acta Horticulturae, 2011, , 729-737.	0.2	1
43	Nonlinear MPC based on a Volterra series model for greenhouse temperature control using natural ventilation. Control Engineering Practice, 2011, 19, 354-366.	5.5	81
44	Application of time-series methods to disturbance estimation in predictive control problems. , 2010, , .		19
45	Simulation of transpiration, drainage, N uptake, nitrate leaching, and N uptake concentration in tomato grown in open substrate. Agricultural Water Management, 2009, 96, 1773-1784.	5.6	51
46	Efficient management of a dehumidifier in a greenhouse under warm weather conditions. Renewable Energy and Power Quality Journal, 0, 1, 560-565.	0.2	0