Jorge Antonio Sanchez Molina

List of Publications by Year
in descending order

46	863	361413	501196
papers	citations	20 h-index	28 g-index

47	47	47	899
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Evaluation of event-based irrigation system control scheme for tomato crops in greenhouses. Agricultural Water Management, 2017, 183, 16-25.	5.6	41
4	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
5	Development of a biomass-based system for nocturnal temperature and diurnal CO2 concentration control in greenhouses. Biomass and Bioenergy, 2014, 67, 60-71.	5.7	37
6	Bayesian networks for greenhouse temperature control. Journal of Applied Logic, 2016, 17, 25-35.	1.1	35
7	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
8	A hybrid-controlled approach for maintaining nocturnal greenhouse temperature: Simulation study. Computers and Electronics in Agriculture, 2016, 123, 116-124.	7.7	33
9	Automatic Tomato and Peduncle Location System Based on Computer Vision for Use in Robotized Harvesting. Applied Sciences (Switzerland), 2020, 10, 5887.	2.5	30
10	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
11	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
12	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
13	cFertigUAL: A fertigation management app for greenhouse vegetable crops. Agricultural Water Management, 2017, 183, 186-193.	5.6	27
14	Virtual Sensors for Designing Irrigation Controllers in Greenhouses. Sensors, 2012, 12, 15244-15266.	3.8	26
15	Analysis of mass transfer capacity in raceway reactors. Algal Research, 2018, 35, 91-97.	4.6	26
16	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
17	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
18	Water content virtual sensor for tomatoes in coconut coir substrate for irrigation control design. Agricultural Water Management, 2015, 151, 114-125.	5.6	22

#	Article	IF	Citations
19	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
20	Grasping in Agriculture: State-of-the-Art and Main Characteristics. Mechanisms and Machine Science, 2013, , 385-409.	0.5	21
21	Application of time-series methods to disturbance estimation in predictive control problems. , 2010, , .		19
22	A risk management system for meteorological disasters of solar greenhouse vegetables. Precision Agriculture, 2017, 18, 997-1010.	6.0	19
23	Improving the Performance of Vegetable Leaf Wetness Duration Models in Greenhouses Using Decision Tree Learning. Water (Switzerland), 2019, 11, 158.	2.7	19
24	A New IoT-Based Platform for Greenhouse Crop Production. IEEE Internet of Things Journal, 2022, 9, 6325-6334.	8.7	19
25	Optimal processing of greenhouse crop residues to use as energy and CO2 sources. Industrial Crops and Products, 2019, 137, 662-671.	5.2	16
26	Evaluation of a dehumidifier in a mild weather greenhouse. Applied Thermal Engineering, 2019, 146, 92-103.	6.0	16
27	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
28	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
29	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
30	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
31	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
32	CaracterÃsticas de las materias primas usadas por las empresas del sector cerÃ¡mico del Ã¡rea metropolitana de CÃºcuta (Colombia). Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2018, 57, 247-256.	1.9	7
33	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
34	Subharmonic content in Finite-State Model Predictive Current Control of IM. , 2013, , .		6
35	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
36	Greenhouse Models as a Service (GMaaS) for Simulation and Control. IFAC-PapersOnLine, 2019, 52, 190-195.	0.9	5

#	Article	IF	Citations
37	Event-based control for a greenhouse irrigation system. , 2016, , .		4
38	A proposal for teaching SCADA systems using Virtual Industrial Plants in Engineering Education. IFAC-PapersOnLine, 2016, 49, 138-143.	0.9	3
39	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
40	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
41	Boiler Combustion Optimization of Vegetal Crop Residues from Greenhouses. Agronomy, 2021, 11, 626.	3.0	2
42	MODELLING OF TOMATO CROP TRANSPIRATION DYNAMICS FOR DESIGNING NEW IRRIGATION CONTROLLERS. Acta Horticulturae, 2011, , 729-737.	0.2	1
43	SISTEMA DE PROGRAMACIÃ“N Y CONTROL AUTOMÃ¡TICO DE UN RIEGO POR GOTEO SUBTERRÃ¡NEO EN UN CULTIVO DE OLIVAR. , 2016, , .		1
44	Hybrid modelling for a biomass-based system for heating and CO2 enrichment. Acta Horticulturae, 2017, , 159-166.	0.2	0
45	CO₂ supply to a greenhouse from the combustion of vegetal waste. Acta Horticulturae, 2017, , 547-554.	0.2	0
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