Luis Miguel Contreras-Medina

List of Publications by Year
in descending order

32 papers	922 citations	759233 12 h-index	580821 25 g-index
32 all docs	32 docs citations	32 times ranked	1314 citing authors

#	Article	IF	Citations
1	A Review of Methods for Sensing the Nitrogen Status in Plants: Advantages, Disadvantages and Recent Advances. Sensors, 2013, 13, 10823-10843.	3.8	418
2	Novel Methodology for Online Half-Broken-Bar Detection on Induction Motors. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 1690-1698.	4.7	85
3	Instrumentation in Developing Chlorophyll Fluorescence Biosensing: A Review. Sensors, 2012, 12, 11853-11869.	3.8	49
4	An Analysis of Electrical Impedance Measurements Applied for Plant N Status Estimation in Lettuce (Lactuca sativa). Sensors, 2014, 14, 11492-11503.	3.8	44
5	Smart Sensor for Real-Time Quantification of Common Symptoms Present in Unhealthy Plants. Sensors, 2012, 12, 784-805.	3.8	39
6	Review. Advantages and disadvantages of control theories applied in greenhouse climate control systems. Spanish Journal of Agricultural Research, 2012, 10, 926.	0.6	35
7	FPGA-based wireless smart sensor for real-time photosynthesis monitoring. Computers and Electronics in Agriculture, 2013, 95, 58-69.	7.7	25
8	FPGA-based Fused Smart Sensor for Real-Time Plant-Transpiration Dynamic Estimation. Sensors, 2010, 10, 8316-8331.	3.8	24
9	Effects of acoustic waves on plants: An agricultural, ecological, molecular and biochemical perspective. Scientia Horticulturae, 2018, 235, 340-348.	3.6	24
10	Machine Learning for Plant Stress Modeling: A Perspective towards Hormesis Management. Plants, 2022, 11, 970.	3.5	24
11	Influence of Elicitors and Eustressors on the Production of Plant Secondary Metabolites. , 2019, , 333-388.		21
12	Application of neural networks to estimate carotenoid content during ripening in tomato fruits (Solanum lycopersicum). Scientia Horticulturae, 2013, 162, 165-171.	3.6	17
13	Elicitor Mixtures Significantly Increase Bioactive Compounds, Antioxidant Activity, and Quality Parameters in Sweet Bell Pepper. Journal of Chemistry, 2015, 2015, 1-8.	1.9	16
14	Changes in the Content of Phenolic Compounds and Biological Activity in Traditional Mexican Herbal Infusions with Different Drying Methods. Molecules, 2020, 25, 1601.	3.8	12
15	Effect of Extended Photoperiod with a Fixed Mixture of Light Wavelengths on Tomato Seedlings. Hortscience: A Publication of the American Society for Hortcultural Science, 2020, 55, 1832-1839.	1.0	12
16	Facial Recognition for Drunk People Using Thermal Imaging. Mathematical Problems in Engineering, 2020, 2020, 1-9.	1.1	10
17	FPGA-based chlorophyll fluorescence measurement system with arbitrary light stimulation waveform using direct digital synthesis. Measurement: Journal of the International Measurement Confederation, 2015, 75, 12-22.	5.0	9
18	Roadmapping as a Driver for Knowledge Creation: A Proposal for Improving Sustainable Practices in the Coffee Supply Chain from Chiapas, Mexico, Using Emerging Technologies. Sustainability, 2020, 12, 5817.	3.2	9

#	Article	IF	Citations
19	Extracellular DNA: Insight of a Signal Molecule in Crop Protection. Biology, 2021, 10, 1022.	2.8	7
20	FPGA-Based Smart Sensor for Drought Stress Detection in Tomato Plants Using Novel Physiological Variables and Discrete Wavelet Transform. Sensors, 2014, 14, 18650-18669.	3.8	6
21	Low Computational-Cost Footprint Deformities Diagnosis Sensor through Angles, Dimensions Analysis and Image Processing Techniques. Sensors, 2017, 17, 2700.	3.8	6
22	Polyphenol Content and Antioxidant Activity of Stevia and Peppermint as a Result of Organic and Conventional Fertilization. Journal of Food Quality, 2021, 2021, 1-6.	2.6	6
23	Electrical signals as an option of communication with plants: a review. Theoretical and Experimental Plant Physiology, 2021, 33, 125-139.	2.4	5
24	Effect of hydric stress-related acoustic emission on transcriptional and biochemical changes associated with a water deficit in Capsicum annuum L. Plant Physiology and Biochemistry, 2021, 165, 251-264.	5.8	5
25	Eustress application trough-controlled elicitation strategies as an effective agrobiotechnology tool for capsaicinoids increase: a review. Phytochemistry Reviews, 0, , 1.	6.5	4
26	Sensors in Precision Agriculture for the Monitoring of Plant Development and Improvement of Food Production. Journal of Sensors, 2019, 2019, 1-2.	1.1	3
27	Effects of hydric stress on vibrational frequency patterns of Capsicum annuum plants. Plant Signaling and Behavior, 2020, 15, 1770489.	2.4	3
28	Instrumentation and Control to Improve the Crop Yield. , 2014, , 363-400.		3
29	Methylation profile and phenotypical changes in Capsicum annum L. under water deficit and H<inf>2</inf>O<inf>2</inf> application. , 2017, , .		1
30	A Simple Methodology to Develop Bifilar, Quadrifilar, and Octofilar Calculable Resistors. Applied Sciences (Switzerland), 2020, 10, 1595.	2.5	0
31	Review of Scanners for DC to 20 kHz electrical metrology applications. Measurement: Journal of the International Measurement Confederation, 2022, 187, 110297.	5.0	0
32	Estimation of Nitrogen Status in Plants. , 2021, , 163-181.		0