Irineo Torres-Pacheco

List of Publications by Year
in descending order

111 papers	2,694 citations	218592 26 h-index	206029 48 g-index
113 all docs	113 docs citations	113 times ranked	3367 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.	2.1	418
2	Functional properties and quality characteristics of bioactive compounds in berries: Biochemistry, biotechnology, and genomics. Food Research International, 2013, 54, 1195-1207.	2.9	122
3	Plant Hormesis Management with Biostimulants of Biotic Origin in Agriculture. Frontiers in Plant Science, 2017, 8, 1762.	1.7	113
4	Detection and Distribution of Geminiviruses in Mexico and the Southern United States. Phytopathology, 1996, 86, 1186.	1.1	91
5	Oxidative and Molecular Responses in Capsicum annuum L. after Hydrogen Peroxide, Salicylic Acid and Chitosan Foliar Applications. International Journal of Molecular Sciences, 2013, 14, 10178-10196.	1.8	88
6	Effect of UV-B radiation on morphology, phenolic compound production, gene expression, and subsequent drought stress responses in chili pepper (Capsicum annuum L.). Plant Physiology and Biochemistry, 2019, 134, 94-102.	2.8	86
7	Eustressors: Chemical and physical stress factors used to enhance vegetables production. Scientia Horticulturae, 2019, 250, 223-229.	1.7	82
8	Nanoparticles as Novel Elicitors to Improve Bioactive Compounds in Plants. Agriculture (Switzerland), 2021, 11, 134.	1.4	82
9	Interactions Between Geminiviruses in a Naturally Occurring Mixture: Pepper huasteco virus and Pepper golden mosaic virus. Phytopathology, 2003, 93, 270-277.	1.1	74
10	Scale invariant feature approach for insect monitoring. Computers and Electronics in Agriculture, 2011, 75, 92-99.	3.7	67
11	Current Approaches for Enhanced Expression of Secondary Metabolites as Bioactive Compounds in Plants for Agronomic and Human Health Purposes. Polish Journal of Food and Nutrition Sciences, 2013, 63, 67-78.	0.6	63
12	Nanoparticles as Potential Antivirals in Agriculture. Agriculture (Switzerland), 2020, 10, 444.	1.4	60
13	Complete nucleotide sequence of pepper huasteco virus: analysis and comparison with bipartite geminiviruses. Journal of General Virology, 1993, 74, 2225-2231.	1.3	56
14	Global sensitivity analysis by means of EFAST and Sobolâ€™ methods and calibration of reduced state-variable TOMGRO model using genetic algorithms. Computers and Electronics in Agriculture, 2014, 100, 1-12.	3.7	55
15	Agriculture and Bioactives: Achieving Both Crop Yield and Phytochemicals. International Journal of Molecular Sciences, 2013, 14, 4203-4222.	1.8	54
16	Applications of solar and wind renewable energy in agriculture: A review. Science Progress, 2019, 102, 127-140.	1.0	50
17	Instrumentation in Developing Chlorophyll Fluorescence Biosensing: A Review. Sensors, 2012, 12, 11853-11869.	2.1	49
18	Perspective for Aquaponic Systems: â€œOmicâ€•Technologies for Microbial Community Analysis. BioMed Research International, 2015, 2015, 1-10.	0.9	49

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19	An Analysis of Electrical Impedance Measurements Applied for Plant N Status Estimation in Lettuce (Lactuca sativa). Sensors, 2014, 14, 11492-11503.	2.1	44
20	Smart Sensor for Real-Time Quantification of Common Symptoms Present in Unhealthy Plants. Sensors, 2012, 12, 784-805.	2.1	39
21	Expression of a germin-like protein gene (CchGLP) from a geminivirus-resistant pepper (Capsicum) Tj ETQq1 1 0.784314 rgBT /Overlock Molecular Plant Pathology, 2012, 78, 45-50.	1.3	37
22	Review. Advantages and disadvantages of control theories applied in greenhouse climate control systems. Spanish Journal of Agricultural Research, 2012, 10, 926.	0.3	35
23	Exogenous fragmented DNA acts as a damage-associated molecular pattern (DAMP) inducing changes in CpG DNA methylation and defence-related responses in Lactuca sativa. Functional Plant Biology, 2018, 45, 1065.	1.1	33
24	Machine vision algorithm for whiteflies (Bemisia tabaci Genn.) scouting under greenhouse environment. Journal of Applied Entomology, 2009, 133, 546-552.	0.8	32
25	Antimicrobial activities of cascalote (Caesalpinia cacalaco) phenolics-containing extract against fungus Colletotrichum lindemuthianum. Industrial Crops and Products, 2010, 31, 134-138.	2.5	31
26	Controlled elicitation increases steviol glycosides (SGs) content and gene expression-associated to biosynthesis of SGs in Stevia rebaudiana B. cv. Morita II. Industrial Crops and Products, 2019, 139, 111479.	2.5	30
27	Maize seed coatings and seedling sprayings with chitosan and hydrogen peroxide: their influence on some phenological and biochemical behaviors. Journal of Zhejiang University: Science B, 2013, 14, 87-96.	1.3	29
28	Resistance to Geminivirus Mixed Infections in Mexican Wild Peppers. Hortscience: A Publication of the American Society for Hortcultural Science, 2003, 38, 251-255.	0.5	29
29	A Germin-Like Protein Gene (CchGLP) of Capsicum chinense Jacq. Is Induced during Incompatible Interactions and Displays Mn-Superoxide Dismutase Activity. International Journal of Molecular Sciences, 2011, 12, 7301-7313.	1.8	27
30	Estimating the response of tomato (Solanum lycopersicum) leaf area to changes in climate and salicylic acid applications by means of artificial neural networks. Biosystems Engineering, 2012, 112, 319-327.	1.9	25
31	FPGA-based wireless smart sensor for real-time photosynthesis monitoring. Computers and Electronics in Agriculture, 2013, 95, 58-69.	3.7	25
32	Hydrogen peroxide protects pepper (Capsicum annuum L.) against pepper golden mosaic geminivirus (PepGMV) infections. Physiological and Molecular Plant Pathology, 2019, 106, 23-29.	1.3	25
33	FPGA-based Fused Smart Sensor for Real-Time Plant-Transpiration Dynamic Estimation. Sensors, 2010, 10, 8316-8331.	2.1	24
34	Low-Temperature Conditioning of â€œSeedâ€•Cloves Enhances the Expression of Phenolic Metabolism Related Genes and Anthocyanin Content in â€˜Coreanoâ€™ Garlic (Allium sativum) during Plant Development. Journal of Agricultural and Food Chemistry, 2013, 61, 10439-10446.	2.4	23
35	Silencing of a Germin-Like Protein Gene (CchGLP) in Geminivirus-Resistant Pepper (Capsicum chinense) Tj ETQq1 1 0.784314 rgBT /Over PepGMV. Viruses, 2015, 7, 6141-6151.	1.5	23
36	Proteomic and metabolomic profiles in transgenic tobacco (N. tabacum xanthi nc) to CchGLP from Capsicum chinense BG-3821 resistant to biotic and abiotic stresses. Environmental and Experimental Botany, 2016, 130, 33-41.	2.0	21

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37	Activating stress memory: eustressors as potential tools for plant breeding. Plant Cell Reports, 2022, 41, 1481-1498.	2.8	21
38	The Influence of Annealing Temperature on the Structural and Optical Properties of ZrO2 Thin Films and How Affects the Hydrophilicity. Crystals, 2020, 10, 454.	1.0	20
39	Effect of foliar salicylic acid and methyl jasmonate applications on protection against pill-bugs in lettuce plants (Lactuca sativa). Phytoparasitica, 2011, 39, 137-144.	0.6	19
40	Analysis of the infectivity of monomeric clones of pepper huasteco virus.. Journal of General Virology, 1997, 78, 947-951.	1.3	19
41	Characterization of Resistance to Pepper Huasteco Geminivirus in Chili Peppers from Yucatàn, Mèxico. Hortscience: A Publication of the American Society for Hortcultural Science, 2001, 36, 139-142.	0.5	19
42	Potential Distribution in Mexico ofDiaphorina citri(Hemiptera: Psyllidae) Vector of Huanglongbing Pathogen. Florida Entomologist, 2013, 96, 36-47.	0.2	18
43	Application of neural networks to estimate carotenoid content during ripening in tomato fruits (Solanum lycopersicum). Scientia Horticulturae, 2013, 162, 165-171.	1.7	17
44	Elicitor Mixtures Significantly Increase Bioactive Compounds, Antioxidant Activity, and Quality Parameters in Sweet Bell Pepper. Journal of Chemistry, 2015, 2015, 1-8.	0.9	16
45	Antimutagenic and antioxidant activities of quebracho phenolics (Schinopsis balansae) recovered from tannery wastewaters. Bioresource Technology, 2009, 100, 434-439.	4.8	14
46	Nanostructured CeO2 Thin Films Prepared by the Sol-Gel Dip-Coating Method with Anomalous Behavior of Crystallite Size and Bandgap. Journal of Nanomaterials, 2019, 2019, 1-8.	1.5	14
47	Changes in affinin contents in Heliopsis longipes (chilcuague) after a controlled elicitation strategy under greenhouse conditions. Industrial Crops and Products, 2020, 148, 112314.	2.5	14
48	Extracellular DNA: A Relevant Plant Damage-Associated Molecular Pattern (DAMP) for Crop Protection Against Pestsâ€"A Review. Journal of Plant Growth Regulation, 2021, 40, 451-463.	2.8	14
49	Dynamic Simulation Model of Central American LocustSchistocerca piceifrons(Orthoptera:) Tj ETQq1 1 0.784314 rgBT /Overlo	0.2	13
50	Ultraviolet<scp>â€B</scp> exposure and exogenous hydrogen peroxide application lead to crossâ€tolerance toward drought in <scp>Nicotiana tabacum</scp> L.. Physiologia Plantarum, 2021, 173, 666-679.	2.6	13
51	Effect of Maturity Stage and Storage on Flavor Compounds and Sensory Description of Berrycactus (Myrtillocactus geometrizans). Journal of Food Science, 2012, 77, C366-73.	1.5	12
52	A Novel Isolate of Bacillus cereus Promotes Growth in Tomato and Inhibits Clavibacter michiganensis Infection under Greenhouse Conditions. Plants, 2021, 10, 506.	1.6	12
53	Antimutagenic and antioxidant activities of cascalote(Caesalpinia cacalaco) phenolics. Journal of the Science of Food and Agriculture, 2004, 84, 1632-1638.	1.7	11
54	Computational fluid dynamics in greenhouses: A review. African Journal of Biotechnology, 2011, 10, .	0.3	11

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55	Influence of hydrogen peroxide foliar applications onin vitroantimicrobial activity inCapsicum chinenseJacq.. Plant Biosystems, 2017, 151, 269-275.	0.8	11
56	Whole-Genome DNA Methylation Analysis in Hydrogen Peroxide Overproducing Transgenic Tobacco Resistant to Biotic and Abiotic Stresses. Plants, 2021, 10, 178.	1.6	11
57	Nanostructured mesoporous silica materials induce hormesis on chili pepper (Capsicum annuum L.) under greenhouse conditions. Heliyon, 2022, 8, e09049.	1.4	11
58	Differential Response to Water Deficit in Chili Pepper (Capsicum annuum L.) Growing in Two Types of Soil Under Different Irrigation Regimes. Agriculture (Switzerland), 2020, 10, 381.	1.4	10
59	Mathematical modeling on tomato plants: A review. African Journal of Agricultural Research Vol Pp, 2011, 6, .	0.2	10
60	Inducible gene expression byPepper huasteco virusinCapsicum chinenseplants with resistance to geminivirus infections. Canadian Journal of Plant Pathology, 2005, 27, 276-282.	0.8	9
61	CaLEA 73 gene fromCapsicum annuumL. enhances drought and osmotic tolerance modulating transpiration rate in transgenicArabidopsis thaliana. Canadian Journal of Plant Science, 2015, 95, 227-235.	0.3	9
62	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.	2.5	9
63	Transcriptomic Analysis in Diabetic Nephropathy of Streptozotocin-Induced Diabetic Rats. International Journal of Molecular Sciences, 2011, 12, 8431-8448.	1.8	8
64	Establishment of in vitro regeneration system for Acaciella angustissima (Timbe) a shrubby plant endemic of MÃ©xico for the production of phenolic compounds. Industrial Crops and Products, 2016, 86, 49-57.	2.5	8
65	Eustressic Dose of Cadmium in Soil Induces Defense Mechanisms and Protection Against Clavibacter michiganensis in Tomato (Solanum lycopersicum L.). Journal of Plant Growth Regulation, 2023, 42, 407-414.	2.8	8
66	Extracellular selfâ€DNA plays a role as a damageâ€associated molecular pattern (DAMP) delaying zoospore germination rate and inducing stressâ€related responses in Phytophthora capsici. Plant Pathology, 2022, 71, 1066-1075.	1.2	8
67	Bioactivity and gene expression studies of an arbustive Mexican specie Acaciella angustissima (Timbe). Industrial Crops and Products, 2014, 52, 649-655.	2.5	7
68	Timbe (Acaciella angustissima) Pods Extracts Reduce the Levels of Glucose, Insulin and Improved Physiological Parameters, Hypolipidemic Effect, Oxidative Stress and Renal Damage in Streptozotocin-Induced Diabetic Rats. Molecules, 2018, 23, 2812.	1.7	7
69	Extracellular DNA: Insight of a Signal Molecule in Crop Protection. Biology, 2021, 10, 1022.	1.3	7
70	FPGA-Based Smart Sensor for Drought Stress Detection in Tomato Plants Using Novel Physiological Variables and Discrete Wavelet Transform. Sensors, 2014, 14, 18650-18669.	2.1	6
71	Vermicompost leachate as a supplement to increase tomato fruit quality. Journal of Soil Science and Plant Nutrition, 2015, , 0-0.	1.7	6
72	Changes in the Brain Activity and Visual Performance of Patients with Strabismus and Amblyopia after a Compete Cycle of Light Therapy. Brain Sciences, 2021, 11, 657.	1.1	6

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73	Delayed Senescence and Marketability Index Preservation of Blackberry Fruit by Preharvest Application of Chitosan and Salicylic Acid. Frontiers in Plant Science, 2022, 13, 796393.	1.7	6
74	Methods for Detection and Quantification of Aflatoxins. , 0, , .		5
75	Aflatoxins Biochemistry and Molecular Biology - Biotechnological Approaches for Control in Crops. , 2011, , .		5
76	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.	2.8	5
77	Agronomic Traits Associated to Yield and Quality in Oat Seeds. Asian Journal of Plant Sciences, 2008, 7, 767-770.	0.2	5
78	Expression of ornithine decarboxylase of Coccidioides immitis in three Escherichia coli strains carrying the lambda DE3 lysogen and an E.Âcoli EWH319 strain odc-null mutant. Biotechnology Letters, 2004, 26, 75-78.	1.1	4
79	Price Forecasting and Span Commercialization Opportunities for Mexican Agricultural Products. Agronomy, 2019, 9, 826.	1.3	4
80	TOMATO GREENHOUSE PRODUCTIVITY USING INTERPLANTING SYSTEM. Acta Horticulturae, 2012, , 133-138.	0.1	3
81	Strategies for Sustainable Plant Food Production: Facing the Current Agricultural Challengesâ€"Agriculture for Today and Tomorrow. , 2014, , 1-50.		3
82	MicroRNAs Sequencing for Understanding the Genetic Regulation of Plant Genomes. , 2016, , .		3
83	Transcriptome profiling of transgenic tobacco (Nicotiana tabacum cv. xanthi nc) expressing CchGLP gene from Capsicum chinense Jacq. reveals gene expression associated with stress tolerance. Journal of Horticultural Science and Biotechnology, 2018, 93, 595-604.	0.9	3
84	Influence of Extended Photoperiod on All Male Nile Tilapia (Oreochromis niloticus) Production, Differential Gene Expression and Growth Rate. International Journal of Agriculture and Biology, 2015, 17, 785-790.	0.2	3
85	IDENTIFICACIÃ“N DE RESISTENCIA CONTRA INFECCIONES SIMPLES Y MIXTAS POR EL VIRUS DEL MOSAICO DORADO DEL CHILE (PepGMV) Y EL VIRUS HUASTECO DEL CHILE EN PLANTAS DE CHILE HABANERO (Capsicum) Tj ETQq1 1 0.78431		
86	PROTECCIÒN CONTRA ESTRÈS BIÒTICO INDUCIDA POR QUITOSAÌN EN PLAÌNTULAS DE MAÏZ (Zea mays L.). Revista Mexicana De Ciencias Agricolas, 2018, 2, 813-827.	0.0	3
87	In vitro and in vivo antimicrobial activity of a synthetic capsaicinoid oleoresin against Fusarium oxysporum, Phytophthora capsici, Clavibacter michiganensis and Pseudomonas syringae. Journal of Plant Pathology, 0, , 1.	0.6	3
88	Analysis of New RGB Vegetation Indices for PHYVV and TMV Identification in JalapeÃ±o Pepper (Capsicum) Tj ETQq0 0 0 rgBT /Overlock	1.6	2
89	Pre-germination treatment with hydrogen peroxide as a controlled elicitation strategy to improve chemical properties of hydroponic barley fodder. Crop and Pasture Science, 2021, 72, 815-822.	0.7	2
90	Genetic Resistance to Drought in Maize and Its Relationship in Aflatoxins Production. , 0, , .		1

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91	Novel Methods for Preventing and Controlling Aflatoxins in Food: A Worldwide Daily Challenge. , 0, , .		1
92	Characteristics of Mycotoxin Analysis Tools for Tomorrow. , 0, , .		1
93	Sequencing of Non-model Plants for Understanding the Physiological Responses in Plants. , 0, , .		1
94	Methylation profile and phenotypical changes in Capsicum annum L. under water deficit and H<inf>2</inf>O<inf>2</inf> application. , 2017, , .		1
95	Determination of molecular comunication network in transgenic tobbaco expressing CchGLP gene. , 2017, , .		1
96	Functional Food for Rabbits. Current Approaches and Trends to Increase Functionality. Food Reviews International, 0, , 1-18.	4.3	1
97	Plants as Bioreactors for Human Health Nutrients. , 2014, , 423-454.		1
98	Addition of Phosphatases and Phytases to Mature Compost to Increase Available Phosphorus: A Short Study. Agronomy, 2021, 11, 2555.	1.3	1
99	PepGMV Rep-Protein Expression in Mammalian Cells. Viruses, 2012, 4, 1792-1801.	1.5	0
100	Characterization of the optical absorption in plant leaves. , 2012, , .		0
101	miRNAs analysis during prickly pear development. Acta Horticulturae, 2016, , 99-104.	0.1	0
102	Role of Biotechnology in the Agrofood Industry. , 2018, , 1-26.		0
103	Optical characterization of plant leaves. , 2011, , .		0
104	Influence of Salicylic Acid application on Oxidative and Molecular Responses and functional properties of Capsicum annuum L. cultivated in greenhouse conditions. , 0, , .		0
105	Deteccioìn de Clavibacter michiganensis ssp. michiganensis por PCR en plantas de jitomate (Lycopersicon esculentum Mill.). Revista Mexicana De Ciencias Agricolas, 2016, 7, 1347-1357.	0.0	0
106	Transformacioìn del hongo fitopatoìgeno Sclerotium cepivorum Berk empleando fusioìn de protoplastos. Revista Mexicana De Ciencias Agricolas, 2012, 3, 1333-1345.	0.0	0
107	Effect of Hydrogen Peroxide Pretreatment on Physiological and Biochemical Variables during Germination of Alfalfa Seeds. Legume Research, 2021, , .	0.0	0
108	Estimation of Nitrogen Status in Plants. , 2021, , 163-181.		0

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109	Evaluation of chemical and biological fungicides for the management of Fusarium Oxysporum. , 2021, , .		0
110	Resistance to geminivirus infections: natural and induced by controlled elicitation. , 2022, , 487-495.		0
111	Evaluating management strategies to control geminivirus. , 2022, , 629-654.		0