

# Irineo Torres-Pacheco

## List of Publications by Year in descending order

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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	Eustressic Dose of Cadmium in Soil Induces Defense Mechanisms and Protection Against <i>Clavibacter michiganensis</i> in Tomato ( <i>Solanum lycopersicum</i> L.). <i>Journal of Plant Growth Regulation</i> , 2023, 42, 407-414.	2.8	8
2	Delayed Senescence and Marketability Index Preservation of Blackberry Fruit by Preharvest Application of Chitosan and Salicylic Acid. <i>Frontiers in Plant Science</i> , 2022, 13, 796393.	1.7	6
3	Nanostructured mesoporous silica materials induce hormesis on chili pepper ( <i>Capsicum annuum</i> L.) under greenhouse conditions. <i>Heliyon</i> , 2022, 8, e09049.	1.4	11
4	Activating stress memory: eustressors as potential tools for plant breeding. <i>Plant Cell Reports</i> , 2022, 41, 1481-1498.	2.8	21
5	Extracellular self-DNA plays a role as a damage-associated molecular pattern (DAMP) delaying zoospore germination rate and inducing stress-related responses in <i>Phytophthora capsici</i> . <i>Plant Pathology</i> , 2022, 71, 1066-1075.	1.2	8
6	Resistance to geminivirus infections: natural and induced by controlled elicitation. , 2022, , 487-495.		0
7	Evaluating management strategies to control geminivirus. , 2022, , 629-654.		0
8	Extracellular DNA: A Relevant Plant Damage-Associated Molecular Pattern (DAMP) for Crop Protection Against Pests—A Review. <i>Journal of Plant Growth Regulation</i> , 2021, 40, 451-463.	2.8	14
9	Whole-Genome DNA Methylation Analysis in Hydrogen Peroxide Overproducing Transgenic Tobacco Resistant to Biotic and Abiotic Stresses. <i>Plants</i> , 2021, 10, 178.	1.6	11
10	Nanoparticles as Novel Elicitors to Improve Bioactive Compounds in Plants. <i>Agriculture (Switzerland)</i> , 2021, 11, 134.	1.4	82
11	A Novel Isolate of <i>Bacillus cereus</i> Promotes Growth in Tomato and Inhibits <i>Clavibacter michiganensis</i> Infection under Greenhouse Conditions. <i>Plants</i> , 2021, 10, 506.	1.6	12
12	Ultraviolet-B exposure and exogenous hydrogen peroxide application lead to cross-tolerance toward drought in <i>Nicotiana tabacum</i> L. <i>Physiologia Plantarum</i> , 2021, 173, 666-679.	2.6	13
13	Changes in the Brain Activity and Visual Performance of Patients with Strabismus and Amblyopia after a Complete Cycle of Light Therapy. <i>Brain Sciences</i> , 2021, 11, 657.	1.1	6
14	Effect of hydric stress-related acoustic emission on transcriptional and biochemical changes associated with a water deficit in <i>Capsicum annuum</i> L. <i>Plant Physiology and Biochemistry</i> , 2021, 165, 251-264.	2.8	5
15	Analysis of New RGB Vegetation Indices for PHYVV and TMV Identification in Jalapeño Pepper ( <i>Capsicum</i> ) Tj ETQq1 1 0.784314 rgBT	1.6	14
16	Pre-germination treatment with hydrogen peroxide as a controlled elicitation strategy to improve chemical properties of hydroponic barley fodder. <i>Crop and Pasture Science</i> , 2021, 72, 815-822.	0.7	2
17	Extracellular DNA: Insight of a Signal Molecule in Crop Protection. <i>Biology</i> , 2021, 10, 1022.	1.3	7
18	Effect of Hydrogen Peroxide Pretreatment on Physiological and Biochemical Variables during Germination of Alfalfa Seeds. <i>Legume Research</i> , 2021, , .	0.0	0

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19	Estimation of Nitrogen Status in Plants. , 2021, , 163-181.		0
20	Evaluation of chemical and biological fungicides for the management of Fusarium Oxysporum. , 2021, , .		0
21	Addition of Phosphatases and Phytases to Mature Compost to Increase Available Phosphorus: A Short Study. <i>Agronomy</i> , 2021, 11, 2555.	1.3	1
22	Nanoparticles as Potential Antivirals in Agriculture. <i>Agriculture (Switzerland)</i> , 2020, 10, 444.	1.4	60
23	Differential Response to Water Deficit in Chili Pepper ( <i>Capsicum annum L.</i> ) Growing in Two Types of Soil Under Different Irrigation Regimes. <i>Agriculture (Switzerland)</i> , 2020, 10, 381.	1.4	10
24	The Influence of Annealing Temperature on the Structural and Optical Properties of ZrO <sub>2</sub> Thin Films and How Affects the Hydrophilicity. <i>Crystals</i> , 2020, 10, 454.	1.0	20
25	Changes in affinin contents in <i>Heliopsis longipes</i> (chilcuague) after a controlled elicitation strategy under greenhouse conditions. <i>Industrial Crops and Products</i> , 2020, 148, 112314.	2.5	14
26	Effect of UV-B radiation on morphology, phenolic compound production, gene expression, and subsequent drought stress responses in chili pepper ( <i>Capsicum annum L.</i> ). <i>Plant Physiology and Biochemistry</i> , 2019, 134, 94-102.	2.8	86
27	Nanostructured CeO <sub>2</sub> Thin Films Prepared by the Sol-Gel Dip-Coating Method with Anomalous Behavior of Crystallite Size and Bandgap. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-8.	1.5	14
28	Controlled elicitation increases steviol glycosides (SGs) content and gene expression-associated to biosynthesis of SGs in <i>Stevia rebaudiana B. cv. Morita II</i> . <i>Industrial Crops and Products</i> , 2019, 139, 111479.	2.5	30
29	Applications of solar and wind renewable energy in agriculture: A review. <i>Science Progress</i> , 2019, 102, 127-140.	1.0	50
30	Eustressors: Chemical and physical stress factors used to enhance vegetables production. <i>Scientia Horticulturae</i> , 2019, 250, 223-229.	1.7	82
31	Price Forecasting and Span Commercialization Opportunities for Mexican Agricultural Products. <i>Agronomy</i> , 2019, 9, 826.	1.3	4
32	Hydrogen peroxide protects pepper ( <i>Capsicum annum L.</i> ) against pepper golden mosaic geminivirus (PepGMV) infections. <i>Physiological and Molecular Plant Pathology</i> , 2019, 106, 23-29.	1.3	25
33	Transcriptome profiling of transgenic tobacco ( <i>Nicotiana tabacum</i> cv. xanthi nc) expressing CchGLP gene from <i>Capsicum chinense</i> Jacq. reveals gene expression associated with stress tolerance. <i>Journal of Horticultural Science and Biotechnology</i> , 2018, 93, 595-604.	0.9	3
34	Timbe ( <i>Acaciella angustissima</i> ) Pods Extracts Reduce the Levels of Glucose, Insulin and Improved Physiological Parameters, Hypolipidemic Effect, Oxidative Stress and Renal Damage in Streptozotocin-Induced Diabetic Rats. <i>Molecules</i> , 2018, 23, 2812.	1.7	7
35	Role of Biotechnology in the Agrofood Industry. , 2018, , 1-26.		0
36	Exogenous fragmented DNA acts as a damage-associated molecular pattern (DAMP) inducing changes in CpG DNA methylation and defence-related responses in <i>Lactuca sativa</i> . <i>Functional Plant Biology</i> , 2018, 45, 1065.	1.1	33

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37	PROTECCIÓN CONTRA ESTREÑES BIÓTICO INDUCIDA POR QUITOSAIN EN PLANTULAS DE MAÍZ ( <i>Zea mays</i> L.). <i>Revista Mexicana De Ciencias Agrícolas</i> , 2018, 2, 813-827.	0.0	3
38	Influence of hydrogen peroxide foliar applications on <i>in vitro</i> antimicrobial activity in <i>Capsicum chinense</i> Jacq.. <i>Plant Biosystems</i> , 2017, 151, 269-275.	0.8	11
39	Methylation profile and phenotypical changes in <i>Capsicum annum</i> L. under water deficit and H <sub>2</sub> O <sub>2</sub> application. , 2017, , .		1
40	Determination of molecular communication network in transgenic tobacco expressing CchGLP gene. , 2017, , .		1
41	Plant Hormesis Management with Biostimulants of Biotic Origin in Agriculture. <i>Frontiers in Plant Science</i> , 2017, 8, 1762.	1.7	113
42	MicroRNAs Sequencing for Understanding the Genetic Regulation of Plant Genomes. , 2016, , .		3
43	Establishment of <i>in vitro</i> regeneration system for <i>Acaciella angustissima</i> (Timbe) a shrubby plant endemic of México for the production of phenolic compounds. <i>Industrial Crops and Products</i> , 2016, 86, 49-57.	2.5	8
44	Proteomic and metabolomic profiles in transgenic tobacco ( <i>N. tabacum xanthi</i> nc) to CchGLP from <i>Capsicum chinense</i> BG-3821 resistant to biotic and abiotic stresses. <i>Environmental and Experimental Botany</i> , 2016, 130, 33-41.	2.0	21
45	miRNAs analysis during prickly pear development. <i>Acta Horticulturae</i> , 2016, , 99-104.	0.1	0
46	Detección de <i>Clavibacter michiganensis</i> ssp. <i>michiganensis</i> por PCR en plantas de jitomate ( <i>Lycopersicon esculentum</i> Mill.). <i>Revista Mexicana De Ciencias Agrícolas</i> , 2016, 7, 1347-1357.	0.0	0
47	Vermicompost leachate as a supplement to increase tomato fruit quality. <i>Journal of Soil Science and Plant Nutrition</i> , 2015, , 0-0.	1.7	6
48	Silencing of a Germin-Like Protein Gene (CchGLP) in Geminivirus-Resistant Pepper ( <i>Capsicum chinense</i> ) Tj ETQq000rgBT/Overlock 10 PepGMV. <i>Viruses</i> , 2015, 7, 6141-6151.	1.5	23
49	Elicitor Mixtures Significantly Increase Bioactive Compounds, Antioxidant Activity, and Quality Parameters in Sweet Bell Pepper. <i>Journal of Chemistry</i> , 2015, 2015, 1-8.	0.9	16
50	Perspective for Aquaponic Systems: Omic Technologies for Microbial Community Analysis. <i>BioMed Research International</i> , 2015, 2015, 1-10.	0.9	49
51	CaLEA 73 gene from <i>Capsicum annum</i> L. enhances drought and osmotic tolerance modulating transpiration rate in transgenic <i>Arabidopsis thaliana</i> . <i>Canadian Journal of Plant Science</i> , 2015, 95, 227-235.	0.3	9
52	FPGA-based chlorophyll fluorescence measurement system with arbitrary light stimulation waveform using direct digital synthesis. <i>Measurement: Journal of the International Measurement Confederation</i> , 2015, 75, 12-22.	2.5	9
53	Influence of Extended Photoperiod on All Male Nile Tilapia ( <i>Oreochromis niloticus</i> ) Production, Differential Gene Expression and Growth Rate. <i>International Journal of Agriculture and Biology</i> , 2015, 17, 785-790.	0.2	3
54	An Analysis of Electrical Impedance Measurements Applied for Plant N Status Estimation in Lettuce ( <i>Lactuca sativa</i> ). <i>Sensors</i> , 2014, 14, 11492-11503.	2.1	44

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55	Strategies for Sustainable Plant Food Production: Facing the Current Agricultural Challenges” Agriculture for Today and Tomorrow. , 2014, , 1-50.		3
56	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
57	Bioactivity and gene expression studies of an arbustive Mexican specie Acaciella angustissima (Timbe). Industrial Crops and Products, 2014, 52, 649-655.	2.5	7
58	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
59	Plants as Bioreactors for Human Health Nutrients. , 2014, , 423-454.		1
60	FPGA-based wireless smart sensor for real-time photosynthesis monitoring. Computers and Electronics in Agriculture, 2013, 95, 58-69.	3.7	25
61	Potential Distribution in Mexico of <i>Diaphorina citri</i> (Hemiptera: Psyllidae) Vector of Huanglongbing Pathogen. Florida Entomologist, 2013, 96, 36-47.	0.2	18
62	Functional properties and quality characteristics of bioactive compounds in berries: Biochemistry, biotechnology, and genomics. Food Research International, 2013, 54, 1195-1207.	2.9	122
63	Application of neural networks to estimate carotenoid content during ripening in tomato fruits ( <i>Solanum lycopersicum</i> ). Scientia Horticulturae, 2013, 162, 165-171.	1.7	17
64	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
65	Low-Temperature Conditioning of Seed-Cloves Enhances the Expression of Phenolic Metabolism Related Genes and Anthocyanin Content in Coreano™ Garlic ( <i>Allium sativum</i> ) during Plant Development. Journal of Agricultural and Food Chemistry, 2013, 61, 10439-10446.	2.4	23
66	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
67	Oxidative and Molecular Responses in <i>Capsicum annuum</i> L. after Hydrogen Peroxide, Salicylic Acid and Chitosan Foliar Applications. International Journal of Molecular Sciences, 2013, 14, 10178-10196.	1.8	88
68	A Review of Methods for Sensing the Nitrogen Status in Plants: Advantages, Disadvantages and Recent Advances. Sensors, 2013, 13, 10823-10843.	2.1	418
69	Agriculture and Bioactives: Achieving Both Crop Yield and Phytochemicals. International Journal of Molecular Sciences, 2013, 14, 4203-4222.	1.8	54
70	Dynamic Simulation Model of Central American Locust <i>Schistocerca piceifrons</i> (Orthoptera: Tj ETQq0 0 0 rgBT, /Overlock 10 Tf 50	0.2	13
71	Smart Sensor for Real-Time Quantification of Common Symptoms Present in Unhealthy Plants. Sensors, 2012, 12, 784-805.	2.1	39
72	PepGMV Rep-Protein Expression in Mammalian Cells. Viruses, 2012, 4, 1792-1801.	1.5	0

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73	Expression of a germin-like protein gene (CchGLP) from a geminivirus-resistant pepper (Capsicum) Tj ETQq1 1 0.784314 rgBT /Overlook Molecular Plant Pathology, 2012, 78, 45-50.	1.3	37
74	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
75	Effect of Maturity Stage and Storage on Flavor Compounds and Sensory Description of Berrycactus (<i>Myrtillocactus geometrizans</i>). Journal of Food Science, 2012, 77, C366-73.	1.5	12
76	Instrumentation in Developing Chlorophyll Fluorescence Biosensing: A Review. Sensors, 2012, 12, 11853-11869.	2.1	49
77	TOMATO GREENHOUSE PRODUCTIVITY USING INTERPLANTING SYSTEM. Acta Horticulturae, 2012, , 133-138.	0.1	3
78	Characterization of the optical absorption in plant leaves. , 2012, , .		0
79	Review. Advantages and disadvantages of control theories applied in greenhouse climate control systems. Spanish Journal of Agricultural Research, 2012, 10, 926.	0.3	35
80	Transformación del hongo fitopatógeno Sclerotium cepivorum Berk empleando fusión de protoplastos. Revista Mexicana De Ciencias Agrícolas, 2012, 3, 1333-1345.	0.0	0
81	Computational fluid dynamics in greenhouses: A review. African Journal of Biotechnology, 2011, 10, .	0.3	11
82	Aflatoxins Biochemistry and Molecular Biology - Biotechnological Approaches for Control in Crops. , 2011, , .		5
83	Scale invariant feature approach for insect monitoring. Computers and Electronics in Agriculture, 2011, 75, 92-99.	3.7	67
84	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
85	Transcriptomic Analysis in Diabetic Nephropathy of Streptozotocin-Induced Diabetic Rats. International Journal of Molecular Sciences, 2011, 12, 8431-8448.	1.8	8
86	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
87	Mathematical modeling on tomato plants: A review. African Journal of Agricultural Research Vol Pp, 2011, 6, .	0.2	10
88	Optical characterization of plant leaves. , 2011, , .		0
89	Antimicrobial activities of cascalote (Caesalpinia cacalaco) phenolics-containing extract against fungus Colletotrichum lindemuthianum. Industrial Crops and Products, 2010, 31, 134-138.	2.5	31
90	FPGA-based Fused Smart Sensor for Real-Time Plant-Transpiration Dynamic Estimation. Sensors, 2010, 10, 8316-8331.	2.1	24

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91	Machine vision algorithm for whiteflies ( <i>Bemisia tabaci</i> Genn.) scouting under greenhouse environment. <i>Journal of Applied Entomology</i> , 2009, 133, 546-552.	0.8	32
92	Antimutagenic and antioxidant activities of quebracho phenolics ( <i>Schinopsis balansae</i> ) recovered from tannery wastewaters. <i>Bioresource Technology</i> , 2009, 100, 434-439.	4.8	14
93	Agronomic Traits Associated to Yield and Quality in Oat Seeds. <i>Asian Journal of Plant Sciences</i> , 2008, 7, 767-770.	0.2	5
94	Inducible gene expression by <i>Pepper huasteco virus</i> in <i>Capsicum chinense</i> plants with resistance to geminivirus infections. <i>Canadian Journal of Plant Pathology</i> , 2005, 27, 276-282.	0.8	9
95	Expression of ornithine decarboxylase of <i>Coccidioides immitis</i> in three <i>Escherichia coli</i> strains carrying the lambda DE3 lysogen and an <i>E. coli</i> EWH319 strain odc-null mutant. <i>Biotechnology Letters</i> , 2004, 26, 75-78.	1.1	4
96	Antimutagenic and antioxidant activities of cascote ( <i>Caesalpinia cacalaco</i> ) phenolics. <i>Journal of the Science of Food and Agriculture</i> , 2004, 84, 1632-1638.	1.7	11
97	Interactions Between Geminiviruses in a Naturally Occurring Mixture: <i>Pepper huasteco virus</i> and <i>Pepper golden mosaic virus</i> . <i>Phytopathology</i> , 2003, 93, 270-277.	1.1	74
98	Resistance to Geminivirus Mixed Infections in Mexican Wild Peppers. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2003, 38, 251-255.	0.5	29
99	IDENTIFICACI3N DE RESISTENCIA CONTRA INFECCIONES SIMPLES Y MIXTAS POR EL VIRUS DEL MOSAICO DORADO DEL CHILE ( <i>PepGMV</i> ) Y EL VIRUS HUASTECO DEL CHILE EN PLANTAS DE CHILE HABANERO ( <i>Capsicum</i> ) TjETQq1 1 0.784314		
100	Characterization of Resistance to <i>Pepper Huasteco Geminivirus</i> in Chili Peppers from Yucat3n, M3xico. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2001, 36, 139-142.	0.5	19
101	Analysis of the infectivity of monomeric clones of <i>pepper huasteco virus</i> . <i>Journal of General Virology</i> , 1997, 78, 947-951.	1.3	19
102	Detection and Distribution of Geminiviruses in Mexico and the Southern United States. <i>Phytopathology</i> , 1996, 86, 1186.	1.1	91
103	Complete nucleotide sequence of <i>pepper huasteco virus</i> : analysis and comparison with bipartite geminiviruses. <i>Journal of General Virology</i> , 1993, 74, 2225-2231.	1.3	56
104	Methods for Detection and Quantification of Aflatoxins. , 0, , .		5
105	Genetic Resistance to Drought in Maize and Its Relationship in Aflatoxins Production. , 0, , .		1
106	Novel Methods for Preventing and Controlling Aflatoxins in Food: A Worldwide Daily Challenge. , 0, , .		1
107	Characteristics of Mycotoxin Analysis Tools for Tomorrow. , 0, , .		1
108	Sequencing of Non-model Plants for Understanding the Physiological Responses in Plants. , 0, , .		1

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109	Functional Food for Rabbits. Current Approaches and Trends to Increase Functionality. Food Reviews International, 0, , 1-18.	4.3	1
110	<strong>Influence of Salicylic Acid application on Oxidative and Molecular Responses and functional properties of <em>Capsicum annuum </em>L. cultivated in greenhouse conditions</strong>. , 0, , .		0
111	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