Ignacio E Maldonado-Mendoza

List of Publications by Year
in descending order

73 papers	2,841 citations	201674 27 h-index	175258 52 g-index
73 all docs	73 docs citations	73 times ranked	3086 citing authors

#	Article	IF	Citations
1	Arbuscular mycorrhizal symbiosis is accompanied by local and systemic alterations in gene expression and an increase in disease resistance in the shoots. Plant Journal, 2007, 50, 529-544.	5.7	430
2	A Phosphate Transporter Gene from the Extra-Radical Mycelium of an Arbuscular Mycorrhizal Fungus Glomus intraradices Is Regulated in Response to Phosphate in the Environment. Molecular Plant-Microbe Interactions, 2001, 14, 1140-1148.	2.6	261
3	Transformation of Medicago truncatula via infiltration of seedlings or flowering plants with Agrobacterium. Plant Journal, 2000, 22, 531-541.	5.7	233
4	A Transcriptional Program for Arbuscule Degeneration during AM Symbiosis Is Regulated by MYB1. Current Biology, 2017, 27, 1206-1212.	3.9	110
5	Green Roots: Photosynthesis and Photoautotrophy in an Underground Plant Organ. Plant Physiology, 1993, 101, 363-371.	4.8	94
6	Novel Genes Induced During an Arbuscular Mycorrhizal (AM) Symbiosis Formed Between Medicago truncatula and Glomus versiforme. Molecular Plant-Microbe Interactions, 1999, 12, 171-181.	2.6	78
7	Rhizospheric bacteria of maize with potential for biocontrol of Fusarium verticillioides. SpringerPlus, 2016, 5, 330.	1.2	75
8	Nucleotide Sequence of a cDNA Encoding 3-Hydroxy-3-Methylglutaryl Coenzyme A Reductase from <i>Catharanthus roseus</i>. Plant Physiology, 1992, 100, 1613-1614.	4.8	74
9	Expression of a 3-Hydroxy-3-Methylglutaryl Coenzyme A Reductase Gene from Camptotheca acuminata Is Differentially Regulated by Wounding and Methyl Jasmonate. Plant Physiology, 1993, 103, 41-48.	4.8	72
10	Establishment of hairy root cultures ofDatura stramonium. Characterization and stability of tropane alkaloid production during long periods of subculturing. Plant Cell, Tissue and Organ Culture, 1993, 33, 321-329.	2.3	69
11	The pecan nut (Carya illinoinensis) and its oil and polyphenolic fractions differentially modulate lipid metabolism and the antioxidant enzyme activities in rats fed high-fat diets. Food Chemistry, 2015, 168, 529-537.	8.2	62
12	Expression of alkaline phosphatase genes in arbuscular mycorrhizas. New Phytologist, 2004, 162, 525-534.	7.3	59
13	Arsenate induces the expression of fungal genes involved in As transport in arbuscular mycorrhiza. Fungal Biology, 2011, 115, 1197-1209.	2.5	58
14	Screening for potential probiotic bacteria to reduce prevalence of WSSV and IHHNV in whiteleg shrimp (Litopenaeus vannamei) under experimental conditions. Aquaculture, 2011, 322-323, 16-22.	3.5	56
15	Plant and fungal biodiversity from metal mine wastes under remediation at Zimapan, Hidalgo, Mexico. Environmental Pollution, 2010, 158, 1922-1931.	7.5	55
16	Arbuscular Mycorrhizal Symbiosis-Induced Expression Changes in Solanum lycopersicum Leaves Revealed by RNA-seq Analysis. Plant Molecular Biology Reporter, 2016, 34, 89-102.	1.8	54
17	Expression of a xyloglucan endotransglucosylase/hydrolase gene, Mt-XTH1, from Medicago truncatula is induced systemically in mycorrhizal roots. Gene, 2005, 345, 191-197.	2.2	53
18	Quantitative analysis of serpentine and ajmalicine in plant tissues ofCatharanthus roseus and hyoscyamine and scopolamine in root tissues ofDatura stramonium by thin layer chromatography-densitometry. Phytochemical Analysis, 1992, 3, 117-121.	2.4	50

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19	Native maize landraces from Los Tuxtlas, Mexico show varying mycorrhizal dependency for P uptake. Biology and Fertility of Soils, 2014, 50, 405-414.	4.3	43
20	Effect of the medium pH on the release of secondary metabolites from roots ofDatura stramonium, Catharanthus roseus, andTagetes patula cultured in vitro. Applied Biochemistry and Biotechnology, 1993, 38, 257-267.	2.9	42
21	Molecular characterization of three differentially expressed members of the Camptotheca acuminata 3-hydroxy-3-methylglutaryl CoA reductase (HMGR) gene family. Plant Molecular Biology, 1997, 34, 781-790.	3.9	41
22	Development of a powder formulation based on Bacillus cereus sensu lato strain B25 spores for biological control of Fusarium verticillioides in maize plants. World Journal of Microbiology and Biotechnology, 2016, 32, 75.	3.6	41
23	Genomic Analysis of Bacillus sp. Strain B25, a Biocontrol Agent of Maize Pathogen Fusarium verticillioides. Current Microbiology, 2018, 75, 247-255.	2.2	40
24	<i>Fusarium</i> Species from the <i>Fusarium fujikuroi</i> Species Complex Involved in Mixed Infections of Maize in Northern Sinaloa, Mexico. Journal of Phytopathology, 2015, 163, 486-497.	1.0	39
25	IAA-producing rhizobacteria from chickpea (<i>Cicer arietinum</i>L.) induce changes in root architecture and increase root biomass. Canadian Journal of Microbiology, 2014, 60, 639-648.	1.7	33
26	Methods to estimate the proportion of plant and fungal RNA in an arbuscular mycorrhiza. Mycorrhiza, 2002, 12, 67-74.	2.8	31
27	Localization and speciation of arsenic in Glomus intraradices by synchrotron radiation spectroscopic analysis. Fungal Biology, 2014, 118, 444-452.	2.5	30
28	Characterization of phosphate-solubilizing bacteria exhibiting the potential for growth promotion and phosphorus nutrition improvement in maize (Zea mays L.) in calcareous soils of Sinaloa, Mexico. Annals of Microbiology, 2017, 67, 801-811.	2.6	30
29	Establishment and characterization of photosynthetic hairy root cultures of Datura stramonium. Plant Cell, Tissue and Organ Culture, 1995, 40, 197-208.	2.3	28
30	Biochemical and Molecular Analysis of Some Commercial Samples of Chilli Peppers from Mexico. Journal of Biomedicine and Biotechnology, 2012, 2012, 1-11.	3.0	28
31	Phytoremediation assisted by mycorrhizal fungi of a Mexican defunct lead-acid battery recycling site. Science of the Total Environment, 2019, 650, 3134-3144.	8.0	28
32	Molecular Analysis of a New Member of the Opium Poppy Tyrosine/3,4-Dihydroxyphenylalanine Decarboxylase Gene Family. Plant Physiology, 1996, 110, 43-49.	4.8	27
33	Loss of arbuscular mycorrhizal fungal diversity in trap cultures during long-term subculturing. IMA Fungus, 2013, 4, 161-167.	3.8	27
34	Bacillus cereus sensu lato strain B25 controls maize stalk and ear rot in Sinaloa, Mexico. Field Crops Research, 2015, 176, 11-21.	5.1	27
35	Research on arbuscular mycorrhizae in Mexico: an historical synthesis and future prospects. Symbiosis, 2012, 57, 111-126.	2.3	26
36	Mycorrhiza-induced protection against pathogens is both genotype-specific and graft-transmissible. Symbiosis, 2015, 66, 55-64.	2.3	26

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37	Tropane alkaloid production inDatura stramonium root cultures. In Vitro Cellular and Developmental Biology - Plant, 1992, 28, 67-72.	2.1	24
38	Glomeromycota associated with Mexican native maize landraces in Los Tuxtlas, Mexico. Applied Soil Ecology, 2015, 87, 63-71.	4.3	24
39	A highâ€throughput screening assay to identify bacterial antagonists against <i>Fusarium verticillioides</i>. Journal of Basic Microbiology, 2014, 54, S125-33.	3.3	23
40	Moringa straw as cellulase production inducer and cellulolytic fungi source. Revista Argentina De Microbiologia, 2020, 52, 4-12.	0.7	22
41	Title is missing!. Plant Cell, Tissue and Organ Culture, 1998, 54, 123-130.	2.3	19
42	Genome distribution and validation of novel microsatellite markers of Fusarium verticillioides and their transferability to other Fusarium species. Journal of Microbiological Methods, 2014, 101, 18-23.	1.6	19
43	Cloning and expression of a plant homologue of the small subunit of the Golgi-associated clathrin assembly protein AP19 from Camptotheca acuminata. Plant Molecular Biology, 1996, 32, 1149-1153.	3.9	16
44	Arbuscular mycorrhizal root colonization and soil P availability are positively related to agrodiversity in Mexican maize polycultures. Biology and Fertility of Soils, 2013, 49, 201-212.	4.3	13
45	PvLOX2 silencing in common bean roots impairs arbuscular mycorrhiza-induced resistance without affecting symbiosis establishment. Functional Plant Biology, 2015, 42, 18.	2.1	13
46	RiArsB and RiMT-11: Two novel genes induced by arsenate in arbuscular mycorrhiza. Fungal Biology, 2018, 122, 121-130.	2.5	13
47	Regulation of 3-hydroxy-3-methylglutaryl-coenzyme A reductase by wounding and methyl jasmonate. Plant Cell, Tissue and Organ Culture, 1994, 38, 351-356.	2.3	11
48	Prevalence and characterization of Listeria monocytogenes isolated from pork meat and on inert surfaces. Brazilian Journal of Microbiology, 2019, 50, 817-824.	2.0	11
49	Native soil bacteria isolates in Mexico exhibit a promising antagonistic effect against <i>Fusarium oxysporum</i> f. sp. <i>radicis</i>â€<i>lycopersici</i>. Journal of Basic Microbiology, 2013, 53, 838-847.	3.3	10
50	Molecular characterization of the AP19 gene family in Arabidopsis thaliana: components of the Golgi AP-1 clathrin assembly protein complex. , 1997, 35, 865-872.		8
51	â€œDiabetes and Metabolism Disorders Medicinal Plants: A Glance at the Past and a Look to the Future 2018â€ Antihyperglycemic Activity of<i>Hamelia patens</i>Jacq. Extracts. Evidence-based Complementary and Alternative Medicine, 2018, 2018, 1-9.	1.2	7
52	First Report of Powdery Mildew (<i>Podosphaera pannosa</i>) of Roses in Sinaloa, Mexico. Plant Disease, 2014, 98, 1442-1442.	1.4	7
53	Microorganismos asociados a la rizosfera de jitomate en un agroecosistema del valle de Guasave, Sinaloa, MÃ©xico. Revista Mexicana De Biodiversidad, 2012, 83, .	0.4	7
54	Biochemical characterization of two chitinases from <i>Bacillus cereus sensu lato</i> B25 with antifungal activity against <i>Fusarium verticillioides</i> P03. FEMS Microbiology Letters, 2021, 368, .	1.8	7

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55	Identification of Pseudomonas syringae pv. phaseolicola as the causal agent of halo blight in yellow beans in northern Sinaloa, Mexico. Phytoparasitica, 2016, 44, 369-378.	1.2	6
56	Comparative proteomic analysis of leaf tissue from tomato plants colonized with Rhizophagus irregularis. Symbiosis, 2017, 73, 93-106.	2.3	6
57	Pathogenic and genetic variability of Fusarium verticillioides from maize in northern Mexico. Canadian Journal of Plant Pathology, 2017, 39, 486-496.	1.4	6
58	First Report of Powdery Mildew (<i>Pseudoidium anacardii</i>) of Mango Trees in Sinaloa, Mexico. Plant Disease, 2013, 97, 994-994.	1.4	6
59	First Report of Slippery Skin Caused by <i>Burkholderia gladioli</i> in Stored Onion Bulbs in Mexico. Plant Disease, 2017, 101, 1030-1030.	1.4	5
60	Powdery mildew caused by Golovinomyces spadiceus on wild sunflower in Sinaloa, Mexico. Canadian Journal of Plant Pathology, 2019, 41, 301-309.	1.4	5
61	Transformation of the rhizospheric Bacillus cereus sensu lato B25 strain using a room-temperature electrocompetent cells preparation protocol. Plasmid, 2019, 105, 102435.	1.4	4
62	Maize genetic diversity in traditionally cultivated polycultures in an isolated rural community in Mexico: implications for management and sustainability. Plant Ecology and Diversity, 2020, 13, 15-28.	2.4	4
63	Exploring plant root-fungal interactions in a neotropical freshwater wetland. Botanical Sciences, 2019, 97, 661-674.	0.8	3
64	Las cenicillas en cultivos agrÃcolas de Sinaloa: SituaciÃ³n actual sobre su identificaciÃ³n y lÃneas futuras de investigaciÃ³n. Revista Mexicana De Fitopatologia, 2017, 35, .	0.1	3
65	In vitro Antifungal Effect of Mangrove extracts on Fusarium verticillioides Isolates. Indian Journal of Pharmaceutical Sciences, 2019, 81, .	1.0	3
66	Agroecological management with intra- and interspecific diversification as an alternative to conventional soil nutrient management in family maize farming. Agroecology and Sustainable Food Systems, 2022, 46, 364-391.	1.9	3
67	First report of stem blight and leaf spot in horse purslane caused by Gibbago trianthemae in Sinaloa, Mexico. Canadian Journal of Plant Pathology, 2021, 43, 431-438.	1.4	2
68	Regulation of 3-hydroxy-3-methylglutaryl-coenzyme A reductase by wounding and methyl jasmonate. , 1994, , 351-356.		1
69	Development of the arbuscular mycorrhizal symbiosis: insights from genomics. , 2007, , 201-224.		0
70	Halo-spot and external stem necrosis of tomato caused by Pseudomonas syringae in Sinaloa, Mexico. Phytoparasitica, 2012, 40, 403-412.	1.2	0
71	First report of sesame spot caused by Xanthomonas campestris pv. sesami in Sinaloa, Mexico. Canadian Journal of Plant Pathology, 2019, 41, 296-300.	1.4	0
72	Valorisation of agroindustrial residues acid hydrolyzates as carbon sources for ethanol production by native yeast strains with different fermentative capabilities//ValorizaciÃ³n de hidrolizados Ã¡cidos de residuos agroindustriales como fuente de carbono para la producciÃ³n de etanol por levaduras nativas con capacidades fermentativas diferentes. Biotecnia, 2020, 22, 78-87.	0.3	0

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73	Curvularia muehlenbeckiae causing leaf spot on Johnson grass in Mexico. Mycological Progress, 2022, 21, 1.	1.4	0