Jorge Molina-Torres

List of Publications by Year
in descending order

56 papers	1,537 citations	331670 21 h-index	330143 37 g-index
57 all docs	57 docs citations	57 times ranked	2091 citing authors

#	Article	IF	Citations
1	Antimicrobial properties of alkamides present in flavouring plants traditionally used in Mesoamerica: affinin and capsaicin. Journal of Ethnopharmacology, 1999, 64, 241-248.	4.1	131
2	How Plants Sense Wounds: Damaged-Self Recognition Is Based on Plant-Derived Elicitors and Induces Octadecanoid Signaling. PLoS ONE, 2012, 7, e30537.	2.5	127
3	Plant volatiles cause direct, induced and associational resistance in common bean to the fungal pathogen <scp>C</scp>olletotrichum lindemuthianum. Journal of Ecology, 2015, 103, 250-260.	4.0	101
4	Fungistatic and Bacteriostatic Activities of Alkamides fromHeliopsis longipesRoots:Â Affinin and Reduced Amides. Journal of Agricultural and Food Chemistry, 2004, 52, 4700-4704.	5.2	91
5	Circulating profiling reveals the effect of a polyunsaturated fatty acid-enriched diet on common microRNAs. Journal of Nutritional Biochemistry, 2015, 26, 1095-1101.	4.2	76
6	Alkamides Isolated from Plants Promote Growth and Alter Root Development in Arabidopsis. Plant Physiology, 2004, 134, 1058-1068.	4.8	67
7	Cytokinin Receptors Are Involved in Alkamide Regulation of Root and Shoot Development in Arabidopsis. Plant Physiology, 2007, 145, 1703-1713.	4.8	57
8	Alkamides Activate Jasmonic Acid Biosynthesis and Signaling Pathways and Confer Resistance to Botrytis cinerea in Arabidopsis thaliana. PLoS ONE, 2011, 6, e27251.	2.5	55
9	Volatile Dose and Exposure Time Impact Perception in Neighboring Plants. Journal of Chemical Ecology, 2012, 38, 226-228.	1.8	52
10	Shared weapons in fungus-fungus and fungus-plant interactions? Volatile organic compounds of plant or fungal origin exert direct antifungal activity inÂvitro. Fungal Ecology, 2018, 33, 115-121.	1.6	52
11	Novel signals for plant development. Current Opinion in Plant Biology, 2006, 9, 523-529.	7.1	47
12	Elucidating the Distribution of Plant Metabolites from Native Tissues with Laser Desorption Low-Temperature Plasma Mass Spectrometry Imaging. Analytical Chemistry, 2019, 91, 2734-2743.	6.5	42
13	Anti-inflammatory effects of ethanolic extract and alkamides-derived from Heliopsis longipes roots. Journal of Ethnopharmacology, 2009, 124, 649-652.	4.1	40
14	Nodosilinea chupicuarensis sp. nov. (Leptolyngbyaceae, Synechococcales) a subaerial cyanobacterium isolated from a stone monument in central Mexico. Phytotaxa, 2018, 334, 167.	0.3	36
15	Associations between whole peripheral blood fatty acids and DNA methylation in humans. Scientific Reports, 2016, 6, 25867.	3.3	35
16	Shortâ€term proteomic dynamics reveal metabolic factory for active extrafloral nectar secretion by <scp>A</scp>cacia cornigera antâ€plants. Plant Journal, 2013, 73, 546-554.	5.7	34
17	IAA-producing rhizobacteria from chickpea (Cicer arietinumL.) induce changes in root architecture and increase root biomass. Canadian Journal of Microbiology, 2014, 60, 639-648.	1.7	33
18	Metabolic phenotyping for the classification of coffee trees and the exploration of selection markers. Molecular BioSystems, 2013, 9, 693.	2.9	27

#	Article	IF	Citations
19	Sequestration of Exogenous Volatiles by Plant Cuticular Waxes as a Mechanism of Passive Associational Resistance: A Proof of Concept. Frontiers in Plant Science, 2020, 11, 121.	3.6	27
20	Biochemical Traits in the Flower Lifetime of a Mexican Mistletoe Parasitizing Mesquite Biomass. Frontiers in Plant Science, 2018, 9, 1031.	3.6	26
21	Alkamides and Piperamides as Potential Antivirals against the Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2). Journal of Physical Chemistry Letters, 2020, 11, 8008-8016.	4.6	25
22	MSI.R scripts reveal volatile and semi-volatile features in low-temperature plasma mass spectrometry imaging (LTP-MSI) of chilli (Capsicum annuum). Analytical and Bioanalytical Chemistry, 2015, 407, 5673-5684.	3.7	22
23	El gÃ©nero Heliopsis (Heliantheae; Asteraceae) en MÃ©xico y las alcamidas presentes en sus raÃces. Acta Botanica Mexicana, 2004, , 115-131.	0.3	21
24	Analysis of naphthenic acid mixtures as pentafluorobenzyl derivatives by gas chromatography-electron impact mass spectrometry. Talanta, 2017, 162, 440-452.	5.5	18
25	De novo sequencing and analysis of Lophophora williamsii transcriptome, and searching for putative genes involved in mescaline biosynthesis. BMC Genomics, 2015, 16, 657.	2.8	17
26	Seasonal variation in non-structural carbohydrates, sucrolytic activity and secondary metabolites in deciduous and perennial Diospyros species sampled in Western Mexico. PLoS ONE, 2017, 12, e0187235.	2.5	16
27	Mass spectrometry imaging of thin-layer chromatography plates using laser desorption/low-temperature plasma ionisation. Analyst, The, 2020, 145, 3885-3891.	3.5	16
28	Montanoa tomentosa glandular trichomes containing kaurenoic acids chemical profile and distribution. FÃ¬toterapÃ¬Ã¢, 2009, 80, 12-17.	2.2	15
29	Inhibitory effect of Capsicum chinense and Piper nigrum fruits, capsaicin and piperine on aflatoxins production in Aspergillus parasiticus by downregulating the expression of aflD, aflM, aflR, and aflS genes of aflatoxins biosynthetic pathway. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2020, 55, 835-843.	1.5	15
30	Larvicidal activity of affinin and its derived amides from Heliopsis longipes A. Gray Blake against Anopheles albimanus and Aedes aegypti. Journal of Asia-Pacific Entomology, 2015, 18, 227-231.	0.9	14
31	Identification of Factors Linked to Higher Water-Deficit Stress Tolerance in Amaranthus hypochondriacus Compared to Other Grain Amaranths and A. hybridus, Their Shared Ancestor. Plants, 2019, 8, 239.	3.5	14
32	Bioautography and GC-MS based identification of piperine and trichostachine as the active quorum quenching compounds in black pepper. Heliyon, 2020, 6, e03137.	3.2	14
33	Presence of the Bornyl Ester of deca-2E,6Z,8E-Trienoic Acid in Heliopsis longipes Roots. Journal of Natural Products, 1995, 58, 1590-1591.	3.0	13
34	Transformed tobacco (Nicotiana tabacum) plants over-expressing a peroxisome proliferator-activated receptor gene from Xenopus laevis (xPPARÎ±) show increased susceptibility to infection by virulent Pseudomonas syringae pathogens. Planta, 2011, 233, 507-521.	3.2	13
35	GC-EIMS analysis, antifungal and anti-aflatoxigenic activity of Capsicum chinense and Piper nigrum fruits and their bioactive compounds capsaicin and piperine upon Aspergillus parasiticus. Natural Product Research, 2020, 34, 1452-1455.	1.8	13
36	Flavonoid glycosides from Cuban Erythroxylum species. Biochemical Systematics and Ecology, 2006, 34, 539-542.	1.3	12

#	Article	IF	Citations
37	Plantâ€ants use resistanceâ€related plant odours to assess host quality before colony founding. Journal of Ecology, 2018, 106, 379-390.	4.0	11
38	Profiling low molecular weight organic compounds from naphthenic acids, acid extractable organic mixtures, and oil sands process-affected water by SPME-GC-EIMS. Journal of Hazardous Materials, 2020, 390, 122186.	12.4	11
39	Repellence of Boophilus microplus larvae in Stylosanthes humilis and Stylosanthes hamata plants. Parasitologia Latinoamericana, 2003, 58, 118.	0.2	10
40	Antifungal and anti-aflatoxigenic activity of Heliopsis longipes roots and affinin/spilanthol against Aspergillus parasiticus by downregulating the expression of alfD and aflR genes of the aflatoxins biosynthetic pathway. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2020, 55, 210-219.	1.5	10
41	Phenolic Compound Content and the Antioxidant and Antimicrobial Activity of Wild Blueberries (Vaccinium stenophyllum Steud.) Fruits Extracts during Ripening. Horticulturae, 2022, 8, 15.	2.8	10
42	Seasonal Changes in the Metabolic Profiles and Biological Activity in Leaves of Diospyros digyna and D. rekoi â€œZapoteâ€•Trees. Plants, 2019, 8, 449.	3.5	9
43	Plant growth-promoting and non-promoting rhizobacteria from avocado trees differentially emit volatiles that influence growth of Arabidopsis thaliana. Protoplasma, 2022, 259, 835-854.	2.1	8
44	Valine and phenylalanine as precursors in the biosynthesis of alkamides in Acmella radicans. Natural Product Communications, 2011, 6, 857-61.	0.5	8
45	Global gene expression analyses of the alkamide-producing plant Heliopsis longipes supports a polyketide synthase-mediated biosynthesis pathway. PeerJ, 2020, 8, e10074.	2.0	7
46	Cumulative Metabolic and Epigenetic Effects of Paternal and/or Maternal Supplementation with Arachidonic Acid across Three Consecutive Generations in Mice. Cells, 2022, 11, 1057.	4.1	7
47	Valine and Phenylalanine as Precursors in the Biosynthesis of Alkamides in Acmella Radicans. Natural Product Communications, 2011, 6, 1934578X1100600.	0.5	6
48	Volatile organic compounds of leaves and flowers ofMontanoa tomentosa. Flavour and Fragrance Journal, 2006, 21, 225-227.	2.6	5
49	Enzymatic Method for N-Acyl Homoserine Lactones Synthesis Using Immobilized Candida antarctica Lipase. Catalysis Letters, 2018, 148, 62-67.	2.6	5
50	Heliopsis suffruticosa (Compositae, Heliantheae), a new species from western Zacatecas. Acta Botanica Mexicana, 2011, , 39-47.	0.3	5
51	EFFECT OF THE ROOTS EXTRACT FROM Heliopsis longipes ON Aspergillus parasiticus GROWTH. Biotecnia, 2018, 20, 127-134.	0.3	3
52	Preference for Oviposition by Sweetpotato Whitefly, Bemisia tabaci (Gennadius)1, in Two Soybean Genotypes, and Volatile Release. Southwestern Entomologist, 2020, 45, 99.	0.2	3
53	The aflatoxin inhibitors capsaicin and piperine fromCapsicum chinenseandPiper nigrumfruits modulate the antioxidant system inAspergillus parasiticus. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2022, 57, 358-368.	1.5	2
54	Anti-inflammatory, antinociceptive, and cytotoxic activity of methanolic extract of Mansoa hymenaea (DC.) A.H. Gentry. Botany Letters, 2021, 168, 110-119.	1.4	1

#	Article	IF	Citations
55	Down-regulation of aflatoxin biosynthetic genes in Aspergillus parasiticus by Heliopsis longipes roots and affinin for reduction of aflatoxin production. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2021, , 1-10.	1.5	1
56	Contrasting Metabolic Fingerprints and Seed Protein Profiles of Cucurbita foetidissima and C. radicans Fruits from Feral Plants Sampled in Central Mexico. Plants, 2021, 10, 2451.	3.5	1