Juan Antonio Lopez-Raez

List of Publications by Year
in descending order

53 papers	5,903 citations	159585 30 h-index	197818 49 g-index
54 all docs	54 docs citations	54 times ranked	5036 citing authors

#	Article	IF	Citations
1	Mycorrhiza-Induced Resistance and Priming of Plant Defenses. Journal of Chemical Ecology, 2012, 38, 651-664.	1.8	757
2	Physiological Effects of the Synthetic Strigolactone Analog GR24 on Root System Architecture in Arabidopsis: Another Belowground Role for Strigolactones? Â Â Â. Plant Physiology, 2011, 155, 721-734.	4.8	534
3	Tomato strigolactones are derived from carotenoids and their biosynthesis is promoted by phosphate starvation. New Phytologist, 2008, 178, 863-874.	7.3	419
4	Rhizosphere communication of plants, parasitic plants and AM fungi. Trends in Plant Science, 2007, 12, 224-230.	8.8	418
5	Phytohormones as integrators of environmental signals in the regulation of mycorrhizal symbioses. New Phytologist, 2015, 205, 1431-1436.	7.3	331
6	Arbuscular mycorrhizal symbiosis induces strigolactone biosynthesis under drought and improves drought tolerance in lettuce and tomato. Plant, Cell and Environment, 2016, 39, 441-452.	5.7	321
7	Arbuscular mycorrhizal symbiosis influences strigolactone production under salinity and alleviates salt stress in lettuce plants. Journal of Plant Physiology, 2013, 170, 47-55.	3.5	299
8	The tomato <i><scp>CAROTENOID CLEAVAGE DIOXYGENASE</scp>8</i> (<i><scp>S</scp>l<scp>CCD</scp>8</i>) regulates rhizosphere signaling, plant architecture and affects reproductive development through strigolactone biosynthesis. New Phytologist, 2012, 196, 535-547.	7.3	250
9	Does abscisic acid affect strigolactone biosynthesis?. New Phytologist, 2010, 187, 343-354.	7.3	243
10	Hormonal and transcriptional profiles highlight common and differential host responses to arbuscular mycorrhizal fungi and the regulation of the oxylipin pathway. Journal of Experimental Botany, 2010, 61, 2589-2601.	4.8	238
11	Do strigolactones contribute to plant defence?. Molecular Plant Pathology, 2014, 15, 211-216.	4.2	173
12	Strigolactones in Plant Interactions with Beneficial and Detrimental Organisms: The Yin and Yang. Trends in Plant Science, 2017, 22, 527-537.	8.8	173
13	FaQR, Required for the Biosynthesis of the Strawberry Flavor Compound 4-Hydroxy-2,5-Dimethyl-3(2H)-Furanone, Encodes an Enone Oxidoreductase. Plant Cell, 2006, 18, 1023-1037.	6.6	156
14	Arbuscular mycorrhizal symbiosis decreases strigolactone production in tomato. Journal of Plant Physiology, 2011, 168, 294-297.	3.5	137
15	Strigolactones: ecological significance and use as a target for parasitic plant control. Pest Management Science, 2009, 65, 471-477.	3.4	99
16	Impact of Arbuscular Mycorrhizal Symbiosis on Plant Response to Biotic Stress: The Role of Plant Defence Mechanisms. , 2010, , 193-207.		89
17	Phosphorus Acquisition Efficiency Related to Root Traits: Is Mycorrhizal Symbiosis a Key Factor to Wheat and Barley Cropping?. Frontiers in Plant Science, 2018, 9, 752.	3.6	89
18	Cloning, expression and immunolocalization pattern of a cinnamyl alcohol dehydrogenase gene from strawberry (Fragariaxananassa cv. Chandler). Journal of Experimental Botany, 2002, 53, 1723-1734.	4.8	86

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19	Ecological relevance of strigolactones in nutrient uptake and other abiotic stresses, and in plant-microbe interactions below-ground. Plant and Soil, 2015, 394, 1-19.	3.7	84
20	How drought and salinity affect arbuscular mycorrhizal symbiosis and strigolactone biosynthesis?. Planta, 2016, 243, 1375-1385.	3.2	79
21	Strigolactones: a cry for help in the rhizosphere. Botany, 2011, 89, 513-522.	1.0	78
22	Defense Related Phytohormones Regulation in Arbuscular Mycorrhizal Symbioses Depends on the Partner Genotypes. Journal of Chemical Ecology, 2014, 40, 791-803.	1.8	78
23	Strigolactones in the Rhizobium-legume symbiosis: Stimulatory effect on bacterial surface motility and down-regulation of their levels in nodulated plants. Plant Science, 2016, 245, 119-127.	3.6	61
24	Apical dominance in saffron and the involvement of the branching enzymes CCD7 and CCD8 in the control of bud sprouting. BMC Plant Biology, 2014, 14, 171.	3.6	50
25	Differential spatio-temporal expression of carotenoid cleavage dioxygenases regulates apocarotenoid fluxes during AM symbiosis. Plant Science, 2015, 230, 59-69.	3.6	49
26	AM symbiosis alters phenolic acid content in tomato roots. Plant Signaling and Behavior, 2010, 5, 1138-1140.	2.4	44
27	Phosphate acquisition efficiency in wheat is related to root:shoot ratio, strigolactone levels, and PHO2 regulation. Journal of Experimental Botany, 2019, 70, 5631-5642.	4.8	40
28	Comparative study between two strawberry pyruvate decarboxylase genes along fruit development and ripening, post-harvest and stress conditions. Plant Science, 2004, 166, 835-845.	3.6	39
29	Fine-tuning regulation of strigolactone biosynthesis under phosphate starvation. Plant Signaling and Behavior, 2008, 3, 963-965.	2.4	39
30	Susceptibility of the Tomato Mutant <i>High Pigment-2^{dg}</i> (<i>hp-2^{dg}</i>) to <i>Orobanche</i> spp. Infection. Journal of Agricultural and Food Chemistry, 2008, 56, 6326-6332.	5.2	38
31	Exogenous strigolactones impact metabolic profiles and phosphate starvation signalling in roots. Plant, Cell and Environment, 2020, 43, 1655-1668.	5.7	35
32	Identification of genes involved in fungal responses to strigolactones using mutants from fungal pathogens. Current Genetics, 2017, 63, 201-213.	1.7	31
33	A strawberry fruit-specific and ripening-related gene codes for a HyPRP protein involved in polyphenol anchoring. Plant Molecular Biology, 2004, 55, 763-780.	3.9	29
34	Editorial: The Role of Plant Hormones in Plant-Microbe Symbioses. Frontiers in Plant Science, 2019, 10, 1391.	3.6	29
35	Root Allies: Arbuscular Mycorrhizal Fungi Help Plants to Cope with Biotic Stresses. Soil Biology, 2013, , 289-307.	0.8	28
36	Tomato strigolactones. Plant Signaling and Behavior, 2013, 8, e22785.	2.4	26

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37	A new UHPLCâ€MS/MS method for the direct determination of strigolactones in root exudates and extracts. Phytochemical Analysis, 2019, 30, 110-116.	2.4	26
38	Strigolactones: New players in the nitrogenâ€“phosphorus signalling interplay. Plant, Cell and Environment, 2022, 45, 512-527.	5.7	25
39	Expression of molecular markers associated to defense signaling pathways and strigolactone biosynthesis during the early interaction tomato-Phelipanche ramosa. Physiological and Molecular Plant Pathology, 2016, 94, 100-107.	2.5	24
40	Intra and Inter-Spore Variability in Rhizophagus irregularis AOX Gene. PLoS ONE, 2015, 10, e0142339.	2.5	23
41	DLK2 regulates arbuscule hyphal branching during arbuscular mycorrhizal symbiosis. New Phytologist, 2021, 229, 548-562.	7.3	22
42	Wheat root trait plasticity, nutrient acquisition and growth responses are dependent on specific arbuscular mycorrhizal fungus and plant genotype interactions. Journal of Plant Physiology, 2021, 256, 153297.	3.5	19
43	Characterization of a strawberry late-expressed and fruit-specific peptide methionine sulphoxide reductase. Physiologia Plantarum, 2006, 126, 129-139.	5.2	18
44	A strawberry fruit-specific and ripening-related gene codes for a HyPRP protein involved in polyphenol anchoring. Plant Molecular Biology, 2004, 55, 763-780.	3.9	18
45	Communication in the Rhizosphere, a Target for Pest Management. , 2012, , 109-133.		15
46	Chemical Signalling in the Arbuscular Mycorrhizal Symbiosis: Biotechnological Applications. Soil Biology, 2013, , 215-232.	0.8	12
47	The Role of Strigolactones in Plantâ€“Microbe Interactions. , 2019, , 121-142.		11
48	Are strigolactones a key in plantâ€“parasitic nematodes interactions? An intriguing question. Plant and Soil, 2021, 462, 591-601.	3.7	9
49	Resistance against Orobanche crenata in Bitter Vetch (Vicia ervilia) Germplasm Based on Reduced Induction of Orobanche Germination. Plants, 2021, 10, 348.	3.5	3
50	Histochemical and Molecular Quantification of Arbuscular Mycorrhiza Symbiosis. Methods in Molecular Biology, 2020, 2083, 293-299.	0.9	3
51	Arbuscular Mycorrhizal Fungal Gene Expression Analysis by Real-Time PCR. Methods in Molecular Biology, 2020, 2146, 157-170.	0.9	3
52	Analyzing the Effect of Strigolactones on the Motility Behavior of Rhizobia. Methods in Molecular Biology, 2021, 2309, 91-103.	0.9	1
53	Strigolactones: A Cry for Help Results in Fatal Attraction. Is Escape Possible?. , 2012, , 199-211.		0