Loudes GÃ³mez-GÃ³mez

List of Publications by Year
in descending order

67 papers	9,648 citations	109321 35 h-index	98798 67 g-index
69 all docs	69 docs citations	69 times ranked	9490 citing authors

#	Article	IF	Citations
1	MAP kinase signalling cascade in Arabidopsis innate immunity. Nature, 2002, 415, 977-983.	27.8	2,407
2	FLS2. Molecular Cell, 2000, 5, 1003-1011.	9.7	1,968
3	A global perspective on carotenoids: Metabolism, biotechnology, and benefits for nutrition and health. Progress in Lipid Research, 2018, 70, 62-93.	11.6	634
4	A single locus determines sensitivity to bacterial flagellin in Arabidopsis thaliana. Plant Journal, 1999, 18, 277-284.	5.7	603
5	Flagellin perception: a paradigm for innate immunity. Trends in Plant Science, 2002, 7, 251-256.	8.8	488
6	Both the Extracellular Leucine-Rich Repeat Domain and the Kinase Activity of FLS2 Are Required for Flagellin Binding and Signaling in Arabidopsis. Plant Cell, 2001, 13, 1155-1163.	6.6	327
7	A critical analysis of extraction techniques used for botanicals: Trends, priorities, industrial uses and optimization strategies. TrAC - Trends in Analytical Chemistry, 2018, 100, 82-102.	11.4	278
8	Novel carotenoid cleavage dioxygenase catalyzes the first dedicated step in saffron crocin biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12246-12251.	7.1	239
9	Cytosolic and Plastoglobule-targeted Carotenoid Dioxygenases from Crocus sativus Are Both Involved in Î²-Ionone Release. Journal of Biological Chemistry, 2008, 283, 24816-24825.	3.4	235
10	Sensitivity of Different Ecotypes and Mutants ofArabidopsis thaliana toward the Bacterial Elicitor Flagellin Correlates with the Presence of Receptor-binding Sites. Journal of Biological Chemistry, 2001, 276, 45669-45676.	3.4	164
11	Implications of Carotenoid Biosynthetic Genes in Apocarotenoid Formation during the Stigma Development of Crocus sativus and Its Closer Relatives. Plant Physiology, 2005, 139, 674-689.	4.8	138
12	Carotenoid Cleavage Oxygenases from Microbes and Photosynthetic Organisms: Features and Functions. International Journal of Molecular Sciences, 2016, 17, 1781.	4.1	132
13	Glucosylation of the saffron apocarotenoid crocetin by a glucosyltransferase isolated from Crocus sativus stigmas. Planta, 2004, 219, 955-966.	3.2	121
14	Metabolite and target transcript analyses during Crocus sativus stigma development. Phytochemistry, 2009, 70, 1009-1016.	2.9	106
15	The carotenoid cleavage dioxygenase <scp>CCD</scp>2 catalysing the synthesis of crocetin in spring crocuses and saffron is a plastidial enzyme. New Phytologist, 2016, 209, 650-663.	7.3	88
16	New target carotenoids for CCD4 enzymes are revealed with the characterization of a novel stress-induced carotenoid cleavage dioxygenase gene from Crocus sativus. Plant Molecular Biology, 2014, 86, 555-569.	3.9	84
17	The expression of a chromoplast-specific lycopene beta cyclase gene is involved in the high production of saffron's apocarotenoid precursors. Journal of Experimental Botany, 2010, 61, 105-119.	4.8	83
18	Saffron: Its Phytochemistry, Developmental Processes, and Biotechnological Prospects. Journal of Agricultural and Food Chemistry, 2015, 63, 8751-8764.	5.2	83

#	Article	IF	Citations
19	Plant perception systems for pathogen recognition and defence. Molecular Immunology, 2004, 41, 1055-1062.	2.2	66
20	Genomic analysis and gene structure of the plant carotenoid dioxygenase 4 family: A deeper study in Crocus sativus and its allies. Genomics, 2010, 96, 239-250.	2.9	60
21	Tissue-Specific Accumulation of Sulfur Compounds and Saponins in Different Parts of Garlic Cloves from Purple and White Ecotypes. Molecules, 2017, 22, 1359.	3.8	56
22	Characterization of a Glucosyltransferase Enzyme Involved in the Formation of Kaempferol and Quercetin Sophorosides in <i>Crocus sativus</i> Â Â Â. Plant Physiology, 2012, 159, 1335-1354.	4.8	55
23	Saffron is a monomorphic species as revealed by RAPD, ISSR and microsatellite analyses. BMC Research Notes, 2009, 2, 189.	1.4	54
24	Chitosan nanoparticles loaded with garlic essential oil: A new alternative to tebuconazole as seed dressing agent. Carbohydrate Polymers, 2022, 277, 118815.	10.2	51
25	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
26	Genetic Diversity of Pinus nigra Arn. Populations in Southern Spain and Northern Morocco Revealed By Inter-Simple Sequence Repeat Profiles. International Journal of Molecular Sciences, 2012, 13, 5645-5658.	4.1	48
27	Efficient production of saffron crocins and picrocrocin in Nicotiana benthamiana using a virus-driven system. Metabolic Engineering, 2020, 61, 238-250.	7.0	48
28	Differential Expression of theS-Adenosyl-l-Methionine Synthase Genes during Pea Development1. Plant Physiology, 1998, 117, 397-405.	4.8	47
29	Evolutionarily distinct carotenoid cleavage dioxygenases are responsible for crocetin production in Buddleja davidii. Journal of Experimental Botany, 2017, 68, 4663-4677.	4.8	47
30	Unraveling Massive Crocins Transport and Accumulation through Proteome and Microscopy Tools during the Development of Saffron Stigma. International Journal of Molecular Sciences, 2017, 18, 76.	4.1	46
31	Crocins transport in Crocus sativus: The long road from a senescent stigma to a newborn corm. Phytochemistry, 2010, 71, 1506-1513.	2.9	45
32	UGT709G1: a novel uridine diphosphate glycosyltransferase involved in the biosynthesis of picrocrocin, the precursor of safranal in saffron (<i>Crocus sativus</i>). New Phytologist, 2019, 224, 725-740.	7.3	44
33	Transcriptome analysis in tissue sectors with contrasting crocins accumulation provides novel insights into apocarotenoid biosynthesis and regulation during chromoplast biogenesis. Scientific Reports, 2018, 8, 2843.	3.3	41
34	Crocins with High Levels of Sugar Conjugation Contribute to the Yellow Colours of Early-Spring Flowering Crocus Tepals. PLoS ONE, 2013, 8, e71946.	2.5	39
35	Ectopic expression of a stress-inducible glycosyltransferase from saffron enhances salt and oxidative stress tolerance in Arabidopsis while alters anchor root formation. Plant Science, 2015, 234, 60-73.	3.6	39
36	Gene-Metabolite Networks of Volatile Metabolism in Airen and Tempranillo Grape Cultivars Revealed a Distinct Mechanism of Aroma Bouquet Production. Frontiers in Plant Science, 2016, 7, 1619.	3.6	38

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37	Developmental and stress regulation of gene expression for a 9-cis-epoxycarotenoid dioxygenase, CstNCED, isolated from Crocus sativus stigmas. Journal of Experimental Botany, 2012, 63, 681-694.	4.8	37
38	Hormonal regulation of S-adenosylmethionine synthase transcripts in pea ovaries. Plant Molecular Biology, 1996, 30, 821-832.	3.9	36
39	Cloning and characterization of a glucosyltransferase from Crocus sativusstigmas involved in flavonoid glucosylation. BMC Plant Biology, 2009, 9, 109.	3.6	36
40	Molecular cloning and characterisation of a pathogenesisâ€related protein CsPR10 from <i>Crocus sativus</i>. Plant Biology, 2011, 13, 297-303.	3.8	34
41	Isolation of a new fungi and wound-induced chitinase class in corms of Crocus sativus. Plant Physiology and Biochemistry, 2009, 47, 426-434.	5.8	32
42	The Specialized Roles in Carotenogenesis and Apocarotenogenesis of the Phytoene Synthase Gene Family in Saffron. Frontiers in Plant Science, 2019, 10, 249.	3.6	32
43	Structural characterization of highly glucosylated crocins and regulation of their biosynthesis during flower development in Crocus. Frontiers in Plant Science, 2015, 6, 971.	3.6	31
44	Intron retention and rhythmic diel pattern regulation of carotenoid cleavage dioxygenase 2 during crocetin biosynthesis in saffron. Plant Molecular Biology, 2016, 91, 355-374.	3.9	29
45	Pathogenicity and genetic diversity of Fusarium oxysporum isolates from corms of Crocus sativus. Industrial Crops and Products, 2014, 61, 186-192.	5.2	28
46	Differential accumulation of pelargonidin glycosides in petals at three different developmental stages of the orange-flowered gentian (Gentiana lutea L. var. aurantiaca). PLoS ONE, 2019, 14, e0212062.	2.5	26
47	Identification and possible role of a MYB transcription factor from saffron (Crocus sativus). Journal of Plant Physiology, 2012, 169, 509-515.	3.5	25
48	Screening for polyphenols, antioxidant and antimicrobial activitiesof extracts from eleven Helianthemum taxa (Cistaceae) used in folk medicine in south-eastern Spain. Journal of Ethnopharmacology, 2013, 148, 287-296.	4.1	24
49	Red Anthocyanins and Yellow Carotenoids Form the Color of Orange-Flower Gentian (Gentiana lutea) Tj ETQq1 1 0.784314 rgBT /Overlo	2.5	23
50	Comparative evaluation of carvacrol and eugenol chitosan nanoparticles as eco-friendly preservative agents in cosmetics. International Journal of Biological Macromolecules, 2022, 206, 288-297.	7.5	21
51	Saffron corm as a natural source of fungicides: The role of saponins in the underground. Industrial Crops and Products, 2013, 49, 915-921.	5.2	19
52	A New Glycosyltransferase Enzyme from Family 91, UGT91P3, Is Responsible for the Final Glucosylation Step of Crocins in Saffron (Crocus sativus L.). International Journal of Molecular Sciences, 2021, 22, 8815.	4.1	19
53	Multi-species transcriptome analyses for the regulation of crocins biosynthesis in Crocus. BMC Genomics, 2019, 20, 320.	2.8	16
54	Metabolic Engineering of Crocin Biosynthesis in Nicotiana Species. Frontiers in Plant Science, 2022, 13, 861140.	3.6	16

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55	Intersimple sequence repeat markers for molecular characterization of Crocus cartwrightianus cv. albus. Industrial Crops and Products, 2010, 32, 147-151.	5.2	14
56	Expression and Interaction Analysis among Saffron ALDHs and Crocetin Dialdehyde. International Journal of Molecular Sciences, 2018, 19, 1409.	4.1	13
57	Biogenic Silver Nanoparticles from Iris tuberosa as Potential Preservative in Cosmetic Products. Molecules, 2021, 26, 4696.	3.8	13
58	Identification and characterization of apocarotenoid modifiers and carotenogenic enzymes for biosynthesis of crocins in <i>Buddleja davidii</i> flowers. Journal of Experimental Botany, 2021, 72, 3200-3218.	4.8	12
59	Differential interaction of Or proteins with the PSY enzymes in saffron. Scientific Reports, 2020, 10, 552.	3.3	11
60	Evaluation of fire recurrence effect on genetic diversity in maritime pine (Pinus pinaster Ait.) stands using Inter-Simple Sequence Repeat profiles. Science of the Total Environment, 2016, 572, 1322-1328.	8.0	10
61	Genetic characterization and variation within and among populations of Anthyllis rupestris Coss., and endangered endemism of southern Spain. Biochemical Systematics and Ecology, 2012, 45, 138-147.	1.3	9
62	Thymoquinone-Loaded Chitosan Nanoparticles as Natural Preservative Agent in Cosmetic Products. International Journal of Molecular Sciences, 2022, 23, 898.	4.1	9
63	Genomic organization of a UDP-glucosyltransferase gene determines differential accumulation of specific flavonoid glucosides in tepals. Plant Cell, Tissue and Organ Culture, 2014, 119, 227-245.	2.3	5
64	The Biosynthesis of Non-Endogenous Apocarotenoids in Transgenic Nicotiana glauca. Metabolites, 2022, 12, 575.	2.9	5
65	Identification and Cloning of Differentially Expressed SOUL and ELIP Genes in Saffron Stigmas Using a Subtractive Hybridization Approach. PLoS ONE, 2016, 11, e0168736.	2.5	3
66	Determination of In Vitro and In Vivo Activities of Plant Carotenoid Cleavage Oxygenases. Methods in Molecular Biology, 2020, 2083, 63-74.	0.9	3
67	Seed germination requirements of relictic and broadly-distributed populations of Chaerophyllumaureum (Apiaceae): connecting ecophysiology and genetic identity. Turkish Journal of Botany, 2019, 43, 320-330.	1.2	1