

Loudeš GÃ³mez-GÃ³mez

List of Publications by Year in descending order

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67
papers

9,648
citations

109321

35
h-index

98798

67
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69
all docs

69
docs citations

69
times ranked

9490
citing authors

#	ARTICLE	IF	CITATIONS
1	Chitosan nanoparticles loaded with garlic essential oil: A new alternative to tebuconazole as seed dressing agent. <i>Carbohydrate Polymers</i> , 2022, 277, 118815.	10.2	51
2	Thymoquinone-Loaded Chitosan Nanoparticles as Natural Preservative Agent in Cosmetic Products. <i>International Journal of Molecular Sciences</i> , 2022, 23, 898.	4.1	9
3	Metabolic Engineering of Crocin Biosynthesis in <i>Nicotiana</i> Species. <i>Frontiers in Plant Science</i> , 2022, 13, 861140.	3.6	16
4	Comparative evaluation of carvacrol and eugenol chitosan nanoparticles as eco-friendly preservative agents in cosmetics. <i>International Journal of Biological Macromolecules</i> , 2022, 206, 288-297.	7.5	21
5	The Biosynthesis of Non-Endogenous Apocarotenoids in Transgenic <i>Nicotiana glauca</i> . <i>Metabolites</i> , 2022, 12, 575.	2.9	5
6	Identification and characterization of apocarotenoid modifiers and carotenogenic enzymes for biosynthesis of crocins in <i>Buddleja davidii</i> flowers. <i>Journal of Experimental Botany</i> , 2021, 72, 3200-3218.	4.8	12
7	A New Glycosyltransferase Enzyme from Family 91, UGT91P3, Is Responsible for the Final Glucosylation Step of Crocins in Saffron (<i>Crocus sativus</i> L.). <i>International Journal of Molecular Sciences</i> , 2021, 22, 8815.	4.1	19
8	Biogenic Silver Nanoparticles from <i>Iris tuberosa</i> as Potential Preservative in Cosmetic Products. <i>Molecules</i> , 2021, 26, 4696.	3.8	13
9	Efficient production of saffron crocins and picrocrocin in <i>Nicotiana benthamiana</i> using a virus-driven system. <i>Metabolic Engineering</i> , 2020, 61, 238-250.	7.0	48
10	Differential interaction of Or proteins with the PSY enzymes in saffron. <i>Scientific Reports</i> , 2020, 10, 552.	3.3	11
11	Determination of In Vitro and In Vivo Activities of Plant Carotenoid Cleavage Oxygenases. <i>Methods in Molecular Biology</i> , 2020, 2083, 63-74.	0.9	3
12	UGT709G1: a novel uridine diphosphate glycosyltransferase involved in the biosynthesis of picrocrocin, the precursor of safranal in saffron (<i>Crocus sativus</i>). <i>New Phytologist</i> , 2019, 224, 725-740.	7.3	44
13	Multi-species transcriptome analyses for the regulation of crocins biosynthesis in <i>Crocus</i> . <i>BMC Genomics</i> , 2019, 20, 320.	2.8	16
14	The Specialized Roles in Carotenogenesis and Apocarotenogenesis of the Phytoene Synthase Gene Family in Saffron. <i>Frontiers in Plant Science</i> , 2019, 10, 249.	3.6	32
15	Differential accumulation of pelargonidin glycosides in petals at three different developmental stages of the orange-flowered gentian (<i>Gentiana lutea</i> L. var. <i>aurantiaca</i>). <i>PLoS ONE</i> , 2019, 14, e0212062.	2.5	26
16	Seed germination requirements of relictic and broadly-distributed populations of <i>Chaerophyllum aureum</i> (Apiaceae): connecting ecophysiology and genetic identity. <i>Turkish Journal of Botany</i> , 2019, 43, 320-330.	1.2	1
17	A global perspective on carotenoids: Metabolism, biotechnology, and benefits for nutrition and health. <i>Progress in Lipid Research</i> , 2018, 70, 62-93.	11.6	634
18	Transcriptome analysis in tissue sectors with contrasting crocins accumulation provides novel insights into apocarotenoid biosynthesis and regulation during chromoplast biogenesis. <i>Scientific Reports</i> , 2018, 8, 2843.	3.3	41

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19	A critical analysis of extraction techniques used for botanicals: Trends, priorities, industrial uses and optimization strategies. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 100, 82-102.	11.4	278
20	Expression and Interaction Analysis among Saffron ALDHs and Crocetin Dialdehyde. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1409.	4.1	13
21	Evolutionarily distinct carotenoid cleavage dioxygenases are responsible for crocetin production in <i>Buddleja davidii</i> . <i>Journal of Experimental Botany</i> , 2017, 68, 4663-4677.	4.8	47
22	Unraveling Massive Crocins Transport and Accumulation through Proteome and Microscopy Tools during the Development of Saffron Stigma. <i>International Journal of Molecular Sciences</i> , 2017, 18, 76.	4.1	46
23	Tissue-Specific Accumulation of Sulfur Compounds and Saponins in Different Parts of Garlic Cloves from Purple and White Ecotypes. <i>Molecules</i> , 2017, 22, 1359.	3.8	56
24	Identification and Cloning of Differentially Expressed SOUL and ELIP Genes in Saffron Stigmas Using a Subtractive Hybridization Approach. <i>PLoS ONE</i> , 2016, 11, e0168736.	2.5	3
25	Gene-Metabolite Networks of Volatile Metabolism in Airen and Tempranillo Grape Cultivars Revealed a Distinct Mechanism of Aroma Bouquet Production. <i>Frontiers in Plant Science</i> , 2016, 7, 1619.	3.6	38
26	Carotenoid Cleavage Oxygenases from Microbes and Photosynthetic Organisms: Features and Functions. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1781.	4.1	132
27	The carotenoid cleavage dioxygenase <scp>CCD</scp>2 catalysing the synthesis of crocetin in spring crocuses and saffron is a plastidial enzyme. <i>New Phytologist</i> , 2016, 209, 650-663.	7.3	88
28	Intron retention and rhythmic diel pattern regulation of carotenoid cleavage dioxygenase 2 during crocetin biosynthesis in saffron. <i>Plant Molecular Biology</i> , 2016, 91, 355-374.	3.9	29
29	Evaluation of fire recurrence effect on genetic diversity in maritime pine (<i>Pinus pinaster</i> Ait.) stands using Inter-Simple Sequence Repeat profiles. <i>Science of the Total Environment</i> , 2016, 572, 1322-1328.	8.0	10
30	Red Anthocyanins and Yellow Carotenoids Form the Color of Orange-Flower Gentian (<i>Gentiana lutea</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.5	23
31	Structural characterization of highly glucosylated crocins and regulation of their biosynthesis during flower development in <i>Crocus</i> . <i>Frontiers in Plant Science</i> , 2015, 6, 971.	3.6	31
32	Ectopic expression of a stress-inducible glycosyltransferase from saffron enhances salt and oxidative stress tolerance in <i>Arabidopsis</i> while alters anchor root formation. <i>Plant Science</i> , 2015, 234, 60-73.	3.6	39
33	Saffron: Its Phytochemistry, Developmental Processes, and Biotechnological Prospects. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 8751-8764.	5.2	83
34	Novel carotenoid cleavage dioxygenase catalyzes the first dedicated step in saffron crocin biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 12246-12251.	7.1	239
35	Pathogenicity and genetic diversity of <i>Fusarium oxysporum</i> isolates from corms of <i>Crocus sativus</i> . <i>Industrial Crops and Products</i> , 2014, 61, 186-192.	5.2	28
36	Apical dominance in saffron and the involvement of the branching enzymes CCD7 and CCD8 in the control of bud sprouting. <i>BMC Plant Biology</i> , 2014, 14, 171.	3.6	50

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37	New target carotenoids for CCD4 enzymes are revealed with the characterization of a novel stress-induced carotenoid cleavage dioxygenase gene from <i>Crocus sativus</i> . <i>Plant Molecular Biology</i> , 2014, 86, 555-569.	3.9	84
38	Genomic organization of a UDP-glucosyltransferase gene determines differential accumulation of specific flavonoid glucosides in tepals. <i>Plant Cell, Tissue and Organ Culture</i> , 2014, 119, 227-245.	2.3	5
39	Saffron corm as a natural source of fungicides: The role of saponins in the underground. <i>Industrial Crops and Products</i> , 2013, 49, 915-921.	5.2	19
40	Screening for polyphenols, antioxidant and antimicrobial activities of extracts from eleven <i>Helianthemum</i> taxa (Cistaceae) used in folk medicine in south-eastern Spain. <i>Journal of Ethnopharmacology</i> , 2013, 148, 287-296.	4.1	24
41	Crocins with High Levels of Sugar Conjugation Contribute to the Yellow Colours of Early-Spring Flowering <i>Crocus</i> Tepals. <i>PLoS ONE</i> , 2013, 8, e71946.	2.5	39
42	Genetic Diversity of <i>Pinus nigra</i> Arn. Populations in Southern Spain and Northern Morocco Revealed By Inter-Simple Sequence Repeat Profiles. <i>International Journal of Molecular Sciences</i> , 2012, 13, 5645-5658.	4.1	48
43	Developmental and stress regulation of gene expression for a 9-cis-epoxycarotenoid dioxygenase, CstNCED, isolated from <i>Crocus sativus</i> stigmas. <i>Journal of Experimental Botany</i> , 2012, 63, 681-694.	4.8	37
44	Identification and possible role of a MYB transcription factor from saffron (<i>Crocus sativus</i>). <i>Journal of Plant Physiology</i> , 2012, 169, 509-515.	3.5	25
45	Characterization of a Glucosyltransferase Enzyme Involved in the Formation of Kaempferol and Quercetin Sophorosides in <i>Crocus sativus</i> . <i>Plant Physiology</i> , 2012, 159, 1335-1354.	4.8	55
46	Genetic characterization and variation within and among populations of <i>Anthyllis rupestris</i> Coss., and endangered endemism of southern Spain. <i>Biochemical Systematics and Ecology</i> , 2012, 45, 138-147.	1.3	9
47	Molecular cloning and characterisation of a pathogenesis-related protein CsPR10 from <i>Crocus sativus</i> . <i>Plant Biology</i> , 2011, 13, 297-303.	3.8	34
48	Intersimple sequence repeat markers for molecular characterization of <i>Crocus cartwrightianus</i> cv. <i>albus</i> . <i>Industrial Crops and Products</i> , 2010, 32, 147-151.	5.2	14
49	Crocins transport in <i>Crocus sativus</i> : The long road from a senescent stigma to a newborn corm. <i>Phytochemistry</i> , 2010, 71, 1506-1513.	2.9	45
50	The expression of a chromoplast-specific lycopene beta cyclase gene is involved in the high production of saffron's apocarotenoid precursors. <i>Journal of Experimental Botany</i> , 2010, 61, 105-119.	4.8	83
51	Genomic analysis and gene structure of the plant carotenoid dioxygenase 4 family: A deeper study in <i>Crocus sativus</i> and its allies. <i>Genomics</i> , 2010, 96, 239-250.	2.9	60
52	Cloning and characterization of a glucosyltransferase from <i>Crocus sativus</i> stigmas involved in flavonoid glucosylation. <i>BMC Plant Biology</i> , 2009, 9, 109.	3.6	36
53	Metabolite and target transcript analyses during <i>Crocus sativus</i> stigma development. <i>Phytochemistry</i> , 2009, 70, 1009-1016.	2.9	106
54	Isolation of a new fungi and wound-induced chitinase class in corms of <i>Crocus sativus</i> . <i>Plant Physiology and Biochemistry</i> , 2009, 47, 426-434.	5.8	32

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55	Saffron is a monomorphic species as revealed by RAPD, ISSR and microsatellite analyses. BMC Research Notes, 2009, 2, 189.	1.4	54
56	Cytosolic and Plastoglobule-targeted Carotenoid Dioxygenases from <i>Crocus sativus</i> Are Both Involved in Î²-Ionone Release. Journal of Biological Chemistry, 2008, 283, 24816-24825.	3.4	235
57	Implications of Carotenoid Biosynthetic Genes in Apocarotenoid Formation during the Stigma Development of <i>Crocus sativus</i> and Its Closer Relatives. Plant Physiology, 2005, 139, 674-689.	4.8	138
58	Glucosylation of the saffron apocarotenoid crocetin by a glucosyltransferase isolated from <i>Crocus sativus</i> stigmas. Planta, 2004, 219, 955-966.	3.2	121
59	Plant perception systems for pathogen recognition and defence. Molecular Immunology, 2004, 41, 1055-1062.	2.2	66
60	Flagellin perception: a paradigm for innate immunity. Trends in Plant Science, 2002, 7, 251-256.	8.8	488
61	MAP kinase signalling cascade in <i>Arabidopsis</i> innate immunity. Nature, 2002, 415, 977-983.	27.8	2,407
62	Both the Extracellular Leucine-Rich Repeat Domain and the Kinase Activity of FLS2 Are Required for Flagellin Binding and Signaling in <i>Arabidopsis</i> . Plant Cell, 2001, 13, 1155-1163.	6.6	327
63	Sensitivity of Different Ecotypes and Mutants of <i>Arabidopsis thaliana</i> toward the Bacterial Elicitor Flagellin Correlates with the Presence of Receptor-binding Sites. Journal of Biological Chemistry, 2001, 276, 45669-45676.	3.4	164
64	FLS2. Molecular Cell, 2000, 5, 1003-1011.	9.7	1,968
65	A single locus determines sensitivity to bacterial flagellin in <i>Arabidopsis thaliana</i> . Plant Journal, 1999, 18, 277-284.	5.7	603
66	Differential Expression of the S-Adenosyl-L-Methionine Synthase Genes during Pea Development1. Plant Physiology, 1998, 117, 397-405.	4.8	47
67	Hormonal regulation of S-adenosylmethionine synthase transcripts in pea ovaries. Plant Molecular Biology, 1996, 30, 821-832.	3.9	36