

Laura Perez-Fons

List of Publications by Year in descending order

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77
papers

8,260
citations

87888

38
h-index

71685

76
g-index

77
all docs

77
docs citations

77
times ranked

8410
citing authors

#	ARTICLE	IF	CITATIONS
1	Multilevel interactions between native and ectopic isoprenoid pathways affect global metabolism in rice. <i>Transgenic Research</i> , 2022, 31, 249-268.	2.4	4
2	The chemotype core collection of genus <i>Nicotiana</i> . <i>Plant Journal</i> , 2022, 110, 1516-1528.	5.7	9
3	Datasets from harmonised metabolic phenotyping of root, tuber and banana crop. <i>Data in Brief</i> , 2022, 42, 108041.	1.0	1
4	A transcriptomic, metabolomic and cellular approach to the physiological adaptation of tomato fruit to high temperature. <i>Plant, Cell and Environment</i> , 2021, 44, 2211-2229.	5.7	38
5	Nitrogen inputs influence vegetative metabolism in maize engineered with a seed-specific carotenoid pathway. <i>Plant Cell Reports</i> , 2021, 40, 899-911.	5.6	1
6	New plant breeding techniques and their regulatory implications: An opportunity to advance metabolomics approaches. <i>Journal of Plant Physiology</i> , 2021, 258-259, 153378.	3.5	19
7	Mass spectrometry-based metabolomics: a guide for annotation, quantification and best reporting practices. <i>Nature Methods</i> , 2021, 18, 747-756.	19.0	403
8	Metabolic changes in leaves of <i>N. tabacum</i> and <i>N. benthamiana</i> during plant development. <i>Journal of Plant Physiology</i> , 2021, 265, 153486.	3.5	10
9	Metabolomics should be deployed in the identification and characterization of gene-edited crops. <i>Plant Journal</i> , 2020, 102, 897-902.	5.7	30
10	Metabolite database for root, tuber, and banana crops to facilitate modern breeding in understudied crops. <i>Plant Journal</i> , 2020, 101, 1258-1268.	5.7	35
11	Inactivation of rice starch branching enzyme IIb triggers broad and unexpected changes in metabolism by transcriptional reprogramming. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 26503-26512.	7.1	45
12	Exploring the chemotypes underlying important agronomic and consumer traits in cassava (<i>Manihot</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.5	13
13	Crystal Structure of Geranylgeranyl Pyrophosphate Synthase (CrtE) Involved in Cyanobacterial Terpenoid Biosynthesis. <i>Frontiers in Plant Science</i> , 2020, 11, 589.	3.6	12
14	Genome-wide analyses of cassava Pathogenesis-related (PR) gene families reveal core transcriptome responses to whitefly infestation, salicylic acid and jasmonic acid. <i>BMC Genomics</i> , 2020, 21, 93.	2.8	41
15	The metabotyping of an East African cassava diversity panel: A core collection for developing biotic stress tolerance in cassava. <i>PLoS ONE</i> , 2020, 15, e0242245.	2.5	13
16	Characterisation of CRISPR mutants targeting genes modulating pectin degradation in ripening tomato. <i>Plant Physiology</i> , 2019, 179, pp.01187.2018.	4.8	92
17	Determination of carotenoids in sweet potato (<i>Ipomoea batatas</i> L., Lam) tubers: Implications for accurate provitamin A determination in staple sturdy tuber crops. <i>Phytochemistry</i> , 2019, 167, 112102.	2.9	23
18	The road to astaxanthin production in tomato fruit reveals plastid and metabolic adaptation resulting in an unintended high lycopene genotype with delayed over-ripening properties. <i>Plant Biotechnology Journal</i> , 2019, 17, 1501-1513.	8.3	27

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19	Metabolite profiling characterises chemotypes of <i>Musa</i> diploids and triploids at juvenile and pre-flowering growth stages. <i>Scientific Reports</i> , 2019, 9, 4657.	3.3	13
20	Carotenoid biosynthesis and sequestration in red chilli pepper fruit and its impact on colour intensity traits. <i>Journal of Experimental Botany</i> , 2019, 70, 2637-2650.	4.8	83
21	A metabolomics characterisation of natural variation in the resistance of cassava to whitefly. <i>BMC Plant Biology</i> , 2019, 19, 518.	3.6	26
22	Cassava Metabolomics and Starch Quality. <i>Current Protocols in Plant Biology</i> , 2019, 4, e20102.	2.8	16
23	Capturing Biochemical Diversity in Cassava (<i>Manihot esculenta</i> Crantz) through the Application of Metabolite Profiling. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 986-993.	5.2	29
24	Construction of a fusion enzyme for astaxanthin formation and its characterisation in microbial and plant hosts: A new tool for engineering ketocarotenoids. <i>Metabolic Engineering</i> , 2019, 52, 243-252.	7.0	46
25	Metabolic diversity in sweet potato (<i>Ipomoea batatas</i> , Lam.) leaves and storage roots. <i>Horticulture Research</i> , 2019, 6, 2.	6.3	37
26	Carotenoid profiling of yams: Clarity, comparisons and diversity. <i>Food Chemistry</i> , 2018, 259, 130-138.	8.2	26
27	Extending our tools and resources in the non-conventional industrial yeast <i>Xanthophyllomyces dendrorhous</i> through the application of metabolite profiling methodologies. <i>Metabolomics</i> , 2018, 14, 30.	3.0	10
28	The assessment of changes to the nontuberculous mycobacterial metabolome in response to anti-TB drugs. <i>FEMS Microbiology Letters</i> , 2018, 365, .	1.8	2
29	The Formation and Sequestration of Nonendogenous Ketocarotenoids in Transgenic <i>Nicotiana glauca</i> . <i>Plant Physiology</i> , 2017, 173, 1617-1635.	4.8	32
30	Engineering of tomato for the sustainable production of ketocarotenoids and its evaluation in aquaculture feed. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 10876-10881.	7.1	42
31	Metabolite profiling of yam (<i>Dioscorea</i> spp.) accessions for use in crop improvement programmes. <i>Metabolomics</i> , 2017, 13, 144.	3.0	30
32	The regulation of carotenoid formation in tomato fruit. <i>Plant Journal</i> , 2017, 89, 774-788.	5.7	86
33	Metabolic engineering of astaxanthin biosynthesis in maize endosperm and characterization of a prototype high oil hybrid. <i>Transgenic Research</i> , 2016, 25, 477-489.	2.4	44
34	Engineered maize as a source of astaxanthin: processing and application as fish feed. <i>Transgenic Research</i> , 2016, 25, 785-793.	2.4	20
35	Genetic improvement of tomato by targeted control of fruit softening. <i>Nature Biotechnology</i> , 2016, 34, 950-952.	17.5	251
36	Metabolite profiling of <i>Dioscorea</i> (yam) species reveals underutilised biodiversity and renewable sources for high-value compounds. <i>Scientific Reports</i> , 2016, 6, 29136.	3.3	46

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37	Metabolite analysis of <i>Mycobacterium</i> species under aerobic and hypoxic conditions reveals common metabolic traits. <i>Microbiology (United Kingdom)</i> , 2016, 162, 1456-1467.	1.8	8
38	Combined transcript, proteome, and metabolite analysis of transgenic maize seeds engineered for enhanced carotenoid synthesis reveals pleiotropic effects in core metabolism. <i>Journal of Experimental Botany</i> , 2015, 66, 3141-3150.	4.8	65
39	Annotation and functional assignment of the genes for the C30 carotenoid pathways from the genomes of two bacteria: <i>Bacillus indicus</i> and <i>Bacillus firmus</i> . <i>Microbiology (United Kingdom)</i> , 2015, 161, 194-202.	1.8	33
40	The optimisation and application of a metabolite profiling procedure for the metabolic phenotyping of <i>Bacillus</i> species. <i>Metabolomics</i> , 2014, 10, 77-90.	3.0	14
41	The application of metabolite profiling to <i>Mycobacterium</i> spp.: Determination of metabolite changes associated with growth. <i>Journal of Microbiological Methods</i> , 2014, 106, 23-32.	1.6	10
42	A genome-wide metabolomic resource for tomato fruit from <i>Solanum pennellii</i> . <i>Scientific Reports</i> , 2014, 4, 3859.	3.3	60
43	Development and optimisation of a label-free quantitative proteomic procedure and its application in the assessment of genetically modified tomato fruit. <i>Proteomics</i> , 2013, 13, 2016-2030.	2.2	30
44	Functional characterization of long-chain prenyl diphosphate synthases from tomato. <i>Biochemical Journal</i> , 2013, 449, 729-740.	3.7	32
45	Subchromoplast Sequestration of Carotenoids Affects Regulatory Mechanisms in Tomato Lines Expressing Different Carotenoid Gene Combinations. <i>Plant Cell</i> , 2013, 25, 4560-4579.	6.6	112
46	Proteome changes in tomato lines transformed with phytoene synthase-1 in the sense and antisense orientations. <i>Journal of Experimental Botany</i> , 2012, 63, 6035-6043.	4.8	12
47	Analysis of Diapocarotenoids Found in Pigmented <i>Bacillus</i> Species. <i>Methods in Molecular Biology</i> , 2012, 892, 335-345.	0.9	3
48	The biosynthetic pathway to a novel derivative of 4,4'-diapolycopene-4,4'-oate in a red strain of <i>Sporosarcina aquimarina</i> . <i>Archives of Microbiology</i> , 2012, 194, 779-784.	2.2	8
49	A Randomized, Double-Blinded, Placebo-Controlled Study of the Effect of a Combination of Lemon Verbena Extract and Fish Oil Omega-3 Fatty Acid on Joint Management. <i>Journal of Alternative and Complementary Medicine</i> , 2011, 17, 1051-1063.	2.1	34
50	Identification and the developmental formation of carotenoid pigments in the yellow/orange <i>Bacillus</i> spore-formers. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2011, 1811, 177-185.	2.4	53
51	Integrative Transcript and Metabolite Analysis of Nutritionally Enhanced <i>DE-ETIOLATED1</i> Downregulated Tomato Fruit. <i>Plant Cell</i> , 2010, 22, 1190-1215.	6.6	160
52	Relationship between the Antioxidant Capacity and Effect of Rosemary (<i>Rosmarinus officinalis</i> L.) Polyphenols on Membrane Phospholipid Order. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 161-171.	5.2	199
53	Genetic engineering of carotenoid formation in tomato fruit and the potential application of systems and synthetic biology approaches. <i>Archives of Biochemistry and Biophysics</i> , 2009, 483, 196-204.	3.0	129
54	Methyl Glucosyl-3,4-dehydro-apo-8'-lycopenoate, a Novel Antioxidative Glyco-C30-carotenoid Acid Produced by a Marine Bacterium <i>Planococcus maritimus</i> . <i>Journal of Antibiotics</i> , 2008, 61, 729-735.	2.0	48

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55	Manipulation of Phytoene Levels in Tomato Fruit: Effects on Isoprenoids, Plastids, and Intermediary Metabolism. <i>Plant Cell</i> , 2007, 19, 3194-3211.	6.6	276
56	A Novel Antioxidant Phenyl Disaccharide from <i>Populus tremula</i> Knotwood. <i>Molecules</i> , 2007, 12, 205-217.	3.8	5
57	Isolation, characterization and antioxidant capacity assessment of the bioactive compounds derived from <i>Hypoxis rooperi</i> corm extract (African potato). <i>Food Chemistry</i> , 2007, 101, 1425-1437.	8.2	84
58	Metabolite profiling of plant carotenoids using the matrix-assisted laser desorption ionization time-of-flight mass spectrometry. <i>Plant Journal</i> , 2007, 49, 552-564.	5.7	126
59	Fibrillin influence on plastid ultrastructure and pigment content in tomato fruit. <i>Phytochemistry</i> , 2007, 68, 1545-1556.	2.9	154
60	Rosemary (<i>Rosmarinus officinalis</i>) diterpenes affect lipid polymorphism and fluidity in phospholipid membranes. <i>Archives of Biochemistry and Biophysics</i> , 2006, 453, 224-236.	3.0	72
61	Carotenoids present in halotolerant <i>Bacillus</i> spore formers. <i>FEMS Microbiology Letters</i> , 2006, 255, 215-224.	1.8	61
62	Engineering ketocarotenoid biosynthesis in potato tubers. <i>Metabolic Engineering</i> , 2006, 8, 253-263.	7.0	104
63	Understanding carotenoid metabolism as a necessity for genetic engineering of crop plants. <i>Metabolic Engineering</i> , 2006, 8, 291-302.	7.0	171
64	Differential effects of oleuropein, a biophenol from <i>Olea europaea</i> , on anionic and zwitterionic phospholipid model membranes. <i>Chemistry and Physics of Lipids</i> , 2005, 137, 2-17.	3.2	47
65	Fruit-specific RNAi-mediated suppression of DET1 enhances carotenoid and flavonoid content in tomatoes. <i>Nature Biotechnology</i> , 2005, 23, 890-895.	17.5	450
66	The olive leaf extract exhibits antiviral activity against viral haemorrhagic septicaemia rhabdovirus (VHSV). <i>Antiviral Research</i> , 2005, 66, 129-136.	4.1	216
67	Chemical derivatization and mass spectral libraries in metabolic profiling by GC/MS and LC/MS/MS. <i>Journal of Experimental Botany</i> , 2005, 56, 219-243.	4.8	562
68	Metabolic engineering of the mevalonate and non-mevalonate isopentenyl diphosphate-forming pathways for the production of health-promoting isoprenoids in tomato. <i>Plant Biotechnology Journal</i> , 2004, 3, 17-27.	8.3	306
69	Membrane-related effects underlying the biological activity of the anthraquinones emodin and barbaloin. <i>Biochemical Pharmacology</i> , 2004, 68, 549-561.	4.4	186
70	The biosynthesis and nutritional uses of carotenoids. <i>Progress in Lipid Research</i> , 2004, 43, 228-265.	11.6	1,147
71	Identification and quantification of carotenoids, tocopherols and chlorophylls in commonly consumed fruits and vegetables. <i>Phytochemistry</i> , 2003, 62, 939-947.	2.9	182
72	Evaluation of transgenic tomato plants expressing an additional phytoene synthase in a fruit-specific manner. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 1092-1097.	7.1	434

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73	Application of high-performance liquid chromatography with photodiode array detection to the metabolic profiling of plant isoprenoids. <i>Plant Journal</i> , 2000, 24, 551-558.	5.7	24
74	Application of high-performance liquid chromatography with photodiode array detection to the metabolic profiling of plant isoprenoids. <i>Plant Journal</i> , 2000, 24, 551-558.	5.7	356
75	Enzymic confirmation of reactions involved in routes to astaxanthin formation, elucidated using a direct substrate in vitro assay. <i>FEBS Journal</i> , 1998, 252, 229-236.	0.2	84
76	Expression of an exogenous isopentenyl diphosphate isomerase gene enhances isoprenoid biosynthesis in <i>Escherichia coli</i> . <i>Biochemical Journal</i> , 1997, 324, 421-426.	3.7	207
77	Constitutive expression of a fruit phytoene synthase gene in transgenic tomatoes causes dwarfism by redirecting metabolites from the gibberellin pathway. <i>Plant Journal</i> , 1995, 8, 693-701.	5.7	341