

Philippe Huguency

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

8,191
citations

126858

33
h-index

197736

49
g-index

52
all docs

52
docs citations

52
times ranked

9604
citing authors

#	ARTICLE	IF	CITATIONS
1	The grapevine genome sequence suggests ancestral hexaploidization in major angiosperm phyla. <i>Nature</i> , 2007, 449, 463-467.	13.7	3,384
2	Metabolism and roles of stilbenes in plants. <i>Plant Science</i> , 2009, 177, 143-155.	1.7	540
3	Molecular identification of zeaxanthin epoxidase of <i>Nicotiana plumbaginifolia</i> , a gene involved in abscisic acid biosynthesis and corresponding to the ABA locus of <i>Arabidopsis thaliana</i> . <i>EMBO Journal</i> , 1996, 15, 2331-2342.	3.5	454
4	Oak genome reveals facets of long lifespan. <i>Nature Plants</i> , 2018, 4, 440-452.	4.7	303
5	Induced β -Carotene Synthesis Driven by Triacylglycerol Deposition in the Unicellular Alga <i>Dunaliella bardawil</i> . <i>Plant Physiology</i> , 1998, 116, 1239-1248.	2.3	244
6	Xanthophyll biosynthesis in chromoplasts: isolation and molecular cloning of an enzyme catalyzing the conversion of 5,6-epoxycarotenoid into ketocarotenoid. <i>Plant Journal</i> , 1994, 6, 45-54.	2.8	187
7	Regulation and activation of phytoene synthase, a key enzyme in carotenoid biosynthesis, during photomorphogenesis. <i>Planta</i> , 2000, 211, 846-854.	1.6	186
8	Biosynthesis of monoterpene scent compounds in roses. <i>Science</i> , 2015, 349, 81-83.	6.0	177
9	A Stress-Inducible Resveratrol <i>O</i> -Methyltransferase Involved in the Biosynthesis of Pterostilbene in Grapevine. <i>Plant Physiology</i> , 2008, 148, 1630-1639.	2.3	170
10	Xanthophyll Biosynthesis. <i>Journal of Biological Chemistry</i> , 1996, 271, 28861-28867.	1.6	151
11	A Novel Cation-Dependent <i>O</i> -Methyltransferase Involved in Anthocyanin Methylation in Grapevine. <i>Plant Physiology</i> , 2009, 150, 2057-2070.	2.3	151
12	Identification of a cDNA for the plastid-located geranylgeranyl pyrophosphate synthase from <i>Capsicum annuum</i> : correlative increase in enzyme activity and transcript level during fruit ripening. <i>Plant Journal</i> , 1992, 2, 25-34.	2.8	139
13	Structural, Functional, and Evolutionary Analysis of the Unusually Large Stilbene Synthase Gene Family in Grapevine. <i>Plant Physiology</i> , 2012, 160, 1407-1419.	2.3	138
14	Metabolism of cyclic carotenoids: a model for the alteration of this biosynthetic pathway in <i>Capsicum annuum</i> chromoplasts. <i>Plant Journal</i> , 1995, 8, 417-424.	2.8	135
15	Biochemistry and Molecular Biology of Chromoplast Development. <i>International Review of Cytology</i> , 1995, 163, 175-247.	6.2	134
16	Developmental and Stress Regulation of Gene Expression for Plastid and Cytosolic Isoprenoid Pathways in Pepper Fruits. <i>Plant Physiology</i> , 1996, 111, 619-626.	2.3	103
17	Both the adaxial and abaxial epidermal layers of the rose petal emit volatile scent compounds. <i>Planta</i> , 2007, 226, 853-866.	1.6	102
18	Characterization and molecular cloning of a flavoprotein catalyzing the synthesis of phytofluene and zeta-carotene in <i>Capsicum</i> chromoplasts. <i>FEBS Journal</i> , 1992, 209, 399-407.	0.2	100

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19	Identification of a plastid protein involved in vesicle fusion and/or membrane protein translocation.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 5630-5634.	3.3	95
20	Genetic mechanisms underlying the methylation level of anthocyanins in grape (<i>Vitis vinifera</i> L.). BMC Plant Biology, 2011, 11, 179.	1.6	92
21	Expression of the Genes Encoding the Early Carotenoid Biosynthetic-Enzymes in <i>Capsicum annuum</i> . Biochemical and Biophysical Research Communications, 1993, 196, 1414-1421.	1.0	91
22	Identification of a novel gene coding for neoxanthin synthase from <i>Solanum tuberosum</i> . FEBS Letters, 2000, 485, 168-172.	1.3	90
23	Genetic Analysis of the Biosynthesis of 2-Methoxy-3-Isobutylpyrazine, a Major Grape-Derived Aroma Compound Impacting Wine Quality. Plant Physiology, 2013, 162, 604-615.	2.3	89
24	Scent evolution in Chinese roses. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 5927-5932.	3.3	86
25	Analysis of gene expression in rose petals using expressed sequence tags. FEBS Letters, 2002, 515, 35-38.	1.3	78
26	My Way: Noncanonical Biosynthesis Pathways for Plant Volatiles. Trends in Plant Science, 2016, 21, 884-894.	4.3	77
27	Molecular cloning and functional expression in <i>E. coli</i> of a novel plant enzyme mediating β -carotene desaturation. FEBS Letters, 1995, 372, 199-202.	1.3	76
28	Biosynthesis of the major scent components 3,5-dimethoxytoluene and 1,3,5-trimethoxybenzene by novel rose O-methyltransferases. FEBS Letters, 2002, 523, 113-118.	1.3	76
29	Genetic diversity of stilbene metabolism in <i>Vitis sylvestris</i> . Journal of Experimental Botany, 2015, 66, 3243-3257.	2.4	71
30	Role of Petal-Specific Orcinol O-Methyltransferases in the Evolution of Rose Scent. Plant Physiology, 2006, 140, 18-29.	2.3	67
31	The wild grape genome sequence provides insights into the transition from dioecy to hermaphroditism during grape domestication. Genome Biology, 2020, 21, 223.	3.8	48
32	Specificity of <i>Ocimum basilicum</i> geraniol synthase modified by its expression in different heterologous systems. Journal of Biotechnology, 2013, 163, 24-29.	1.9	41
33	Purification and characterization of farnesyl pyrophosphate synthase from <i>Capsicum annuum</i> . FEBS Letters, 1990, 273, 235-238.	1.3	40
34	A grapevine cytochrome P450 generates the precursor of wine lactone, a key odorant in wine. New Phytologist, 2017, 213, 264-274.	3.5	31
35	Link between carrot leaf secondary metabolites and resistance to <i>Alternaria dauci</i> . Scientific Reports, 2018, 8, 13746.	1.6	25
36	Identification of Lipid Markers of <i>Plasmopara viticola</i> Infection in Grapevine Using a Non-targeted Metabolomic Approach. Frontiers in Plant Science, 2018, 9, 360.	1.7	22

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37	The Aphid-Transmitted Turnip yellows virus Differentially Affects Volatiles Emission and Subsequent Vector Behavior in Two Brassicaceae Plants. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2316.	1.8	22
38	Ancestral chemotypes of cultivated grapevine with resistance to Botryosphaeriaceae-related dieback allocate metabolism towards bioactive stilbenes. <i>New Phytologist</i> , 2021, 229, 1133-1146.	3.5	22
39	Production and Emission of Volatile Compounds by Petal Cells. <i>Plant Signaling and Behavior</i> , 2007, 2, 525-526.	1.2	21
40	Functional diversification in the <i>Nudix hydrolase</i> gene family drives sesquiterpene biosynthesis in <i>Rosa</i> – <i>wichurana</i> . <i>Plant Journal</i> , 2020, 104, 185-199.	2.8	21
41	Arsenite response in <i>Coccomyxa</i> sp. Carn explored by transcriptomic and non-targeted metabolomic approaches. <i>Environmental Microbiology</i> , 2016, 18, 1289-1300.	1.8	20
42	Plant apocarotenoid metabolism utilizes defense mechanisms against reactive carbonyl species and xenobiotics. <i>Plant Physiology</i> , 2021, 185, 331-351.	2.3	19
43	Grapevine fatty acid hydroperoxide lyase generates actin-disrupting volatiles and promotes defence-related cell death. <i>Journal of Experimental Botany</i> , 2018, 69, 2883-2896.	2.4	16
44	The Algal Polysaccharide Ulvan Induces Resistance in Wheat Against <i>Zymoseptoria tritici</i> Without Major Alteration of Leaf Metabolome. <i>Frontiers in Plant Science</i> , 2021, 12, 703712.	1.7	12
45	Annotation, classification, genomic organization and expression of the <i>Vitis vinifera</i> CYPome. <i>PLoS ONE</i> , 2018, 13, e0199902.	1.1	11
46	Severe Stunting Symptoms upon Nepovirus Infection Are Reminiscent of a Chronic Hypersensitive-like Response in a Perennial Woody Fruit Crop. <i>Viruses</i> , 2021, 13, 2138.	1.5	10
47	Determination of amino-acidic positions important for <i>Ocimum basilicum</i> geraniol synthase activity. <i>Advances in Bioscience and Biotechnology (Print)</i> , 2013, 04, 242-249.	0.3	6
48	Color recycling: metabolization of apocarotenoid degradation products suggests carbon regeneration via primary metabolic pathways. <i>Plant Cell Reports</i> , 2022, 41, 961-977.	2.8	5
49	Genetic determinism of the 'Muscat' flavour in grapevine (<i>Vitis vinifera</i> L.) cultivars. <i>Acta Horticulturae</i> , 2017, , 87-92.	0.1	2
50	Carotenoid Biosynthesis and Regulation in Plants. , 1992, , 337-347.		1