

Alain Hehn

List of Publications by Year in descending order

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61
papers

3,206
citations

185998

28
h-index

155451

55
g-index

65
all docs

65
docs citations

65
times ranked

3892
citing authors

#	ARTICLE	IF	CITATIONS
1	CYP98A3 from <i>Arabidopsis thaliana</i> Is a 3-Hydroxylase of Phenolic Esters, a Missing Link in the Phenylpropanoid Pathway. <i>Journal of Biological Chemistry</i> , 2001, 276, 36566-36574.	1.6	384
2	Biosynthesis of coumarins in plants: a major pathway still to be unravelled for cytochrome P450 enzymes. <i>Phytochemistry Reviews</i> , 2006, 5, 293-308.	3.1	313
3	Cytochromes P450 for engineering herbicide tolerance. <i>Trends in Plant Science</i> , 2000, 5, 116-123.	4.3	289
4	Evolution of a Novel Phenolic Pathway for Pollen Development. <i>Science</i> , 2009, 325, 1688-1692.	6.0	148
5	Crosstalk and differential response to abiotic and biotic stressors reflected at the transcriptional level of effector genes from secondary metabolism. <i>Plant Molecular Biology</i> , 2004, 54, 817-835.	2.0	111
6	Coumarin and Furanocoumarin Quantitation in Citrus Peel via Ultrapformance Liquid Chromatography Coupled with Mass Spectrometry (UPLC-MS). <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 10677-10684.	2.4	104
7	The Distribution of Coumarins and Furanocoumarins in Citrus Species Closely Matches Citrus Phylogeny and Reflects the Organization of Biosynthetic Pathways. <i>PLoS ONE</i> , 2015, 10, e0142757.	1.1	104
8	Molecular Cloning and Functional Characterization of Psoralen Synthase, the First Committed Monooxygenase of Furanocoumarin Biosynthesis. <i>Journal of Biological Chemistry</i> , 2007, 282, 542-554.	1.6	91
9	The isolation and mapping of a novel hydroxycinnamoyltransferase in the globe artichoke chlorogenic acid pathway. <i>BMC Plant Biology</i> , 2009, 9, 30.	1.6	91
10	A coumarin-specific prenyltransferase catalyzes the crucial biosynthetic reaction for furanocoumarin formation in parsley. <i>Plant Journal</i> , 2014, 77, 627-638.	2.8	88
11	A α -oxoglutarate-dependent dioxygenase from <i>Ruta graveolens</i> L. exhibits coumaroyl CoA 2-hydroxylase activity (C ₂ H): a missing step in the synthesis of umbelliferone in plants. <i>Plant Journal</i> , 2012, 70, 460-470.	2.8	87
12	Scopoletin 8-hydroxylase: a novel enzyme involved in coumarin biosynthesis and iron-deficiency responses in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2018, 69, 1735-1748.	2.4	86
13	Increasing Expression of P450 and P450-Reductase Proteins from Monocots in Heterologous Systems. <i>Archives of Biochemistry and Biophysics</i> , 2000, 379, 161-169.	1.4	82
14	Isolation and functional characterization of a cDNA coding a hydroxycinnamoyltransferase involved in phenylpropanoid biosynthesis in <i>Cynara cardunculus</i> L. <i>BMC Plant Biology</i> , 2007, 7, 14.	1.6	78
15	Identification and characterisation of CYP75A31, a new flavonoid 3'-5'-hydroxylase, isolated from <i>Solanum lycopersicum</i> . <i>BMC Plant Biology</i> , 2010, 10, 21.	1.6	73
16	Isolation and Functional Characterization of CYP71AJ4 Encoding for the First P450 Monooxygenase of Angular Furanocoumarin Biosynthesis. <i>Journal of Biological Chemistry</i> , 2009, 284, 4776-4785.	1.6	70
17	Molecular evolution of parsnip (<i>Pastinaca sativa</i>) membrane-bound prenyltransferases for linear and/or angular furanocoumarin biosynthesis. <i>New Phytologist</i> , 2016, 211, 332-344.	3.5	59
18	Cytochrome P450s from <i>Cynara cardunculus</i> L. CYP71AV9 and CYP71BL5, catalyze distinct hydroxylations in the sesquiterpene lactone biosynthetic pathway. <i>Plant Science</i> , 2014, 223, 59-68.	1.7	55

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19	Cloning, characterization and regulation of a family of phi class glutathione transferases from wheat. <i>Plant Molecular Biology</i> , 2003, 52, 591-603.	2.0	53
20	Evolution of substrate recognition sites (SRSs) in cytochromes P450 from Apiaceae exemplified by the CYP71AJ subfamily. <i>BMC Evolutionary Biology</i> , 2015, 15, 122.	3.2	43
21	Proteome analysis of digestive fluids in <i>Nepenthes</i> pitchers. <i>Annals of Botany</i> , 2016, 117, 479-495.	1.4	42
22	Cinnamic acid 4-hydroxylase mechanism-based inactivation by psoralen derivatives: cloning and characterization of a C4H from a psoralen producing plant "Ruta graveolens" exhibiting low sensitivity to psoralen inactivation. <i>Archives of Biochemistry and Biophysics</i> , 2004, 422, 71-80.	1.4	40
23	Hairy root and tissue cultures of <i>Leucojum aestivum</i> L. relationships to galanthamine content. <i>Phytochemistry Reviews</i> , 2007, 6, 137-141.	3.1	39
24	Molecular Cloning and Characterization of a Geranyl Diphosphate-Specific Aromatic Prenyltransferase from Lemon Á. <i>Plant Physiology</i> , 2014, 166, 80-90.	2.3	38
25	Accumulation of cynaropicrin in globe artichoke and localization of enzymes involved in its biosynthesis. <i>Plant Science</i> , 2015, 239, 128-136.	1.7	36
26	<i>Nepenthes</i> : State of the art of an inspiring plant for biotechnologists. <i>Journal of Biotechnology</i> , 2018, 265, 109-115.	1.9	36
27	CYP98A22, a phenolic ester 3 TM -hydroxylase specialized in the synthesis of chlorogenic acid, as a new tool for enhancing the furanocoumarin concentration in <i>Ruta graveolens</i> . <i>BMC Plant Biology</i> , 2012, 12, 152.	1.6	33
28	Production of phenylpropanoid compounds by recombinant microorganisms expressing plant-specific biosynthesis genes. <i>Process Biochemistry</i> , 2008, 43, 463-479.	1.8	31
29	Convergent evolution of the UbiA prenyltransferase family underlies the independent acquisition of furanocoumarins in plants. <i>New Phytologist</i> , 2020, 225, 2166-2182.	3.5	30
30	Evidence for in vitro and in vivo autocatalytic processing of the primary translation product of beet necrotic yellowvein virus RNA 1 by a papain-like proteinase. <i>Archives of Virology</i> , 1997, 142, 1051-1058.	0.9	29
31	Conservation and diversity of gene families explored using the CODEHOP strategy in higher plants. <i>BMC Plant Biology</i> , 2002, 2, 7.	1.6	28
32	Endophytic fungi associated with Sudanese medicinal plants show cytotoxic and antibiotic potential. <i>FEMS Microbiology Letters</i> , 2016, 363, fnw089.	0.7	28
33	Tropane alkaloid profiling of hydroponic <i>Datura innoxia</i> mill. Plants inoculated with <i>Agrobacterium rhizogenes</i> . <i>Phytochemical Analysis</i> , 2010, 21, 118-127.	1.2	26
34	The CYP71AZ P450 Subfamily: A Driving Factor for the Diversification of Coumarin Biosynthesis in Apiaceous Plants. <i>Frontiers in Plant Science</i> , 2018, 9, 820.	1.7	24
35	Gastric intrinsic factor deficiency with combined GIF heterozygous mutations and FUT2 secretor variant. <i>Biochimie</i> , 2013, 95, 995-1001.	1.3	23
36	Coexpression of CPR from Various Origins Enhances Biotransformation Activity of Human CYPs in <i>S. pombe</i> . <i>Applied Biochemistry and Biotechnology</i> , 2013, 170, 1751-1766.	1.4	23

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37	A bacterial artificial chromosome (<scp>BAC</scp>) genomic approach reveals partial clustering of the furanocoumarin pathway genes in parsnip. <i>Plant Journal</i> , 2017, 89, 1119-1132.	2.8	21
38	Genetic transformation of the medicinal plant <i>Ruta graveolens</i> L. by an <i>Agrobacterium tumefaciens</i> -mediated method. <i>Plant Science</i> , 2005, 168, 883-888.	1.7	20
39	Defence mechanisms of <i>Ficus</i> : pyramiding strategies to cope with pests and pathogens. <i>Planta</i> , 2019, 249, 617-633.	1.6	20
40	In vitro plant regeneration and <i>Agrobacterium</i> -mediated genetic transformation of a carnivorous plant, <i>Nepenthes mirabilis</i> . <i>Scientific Reports</i> , 2020, 10, 17482.	1.6	20
41	A new P450 involved in the furanocoumarin pathway underlies a recent case of convergent evolution. <i>New Phytologist</i> , 2021, 231, 1923-1939.	3.5	19
42	A simple SDS-PAGE protein pattern from pitcher secretions as a new tool to distinguish <i>Nepenthes</i> species (Nepenthaceae). <i>American Journal of Botany</i> , 2013, 100, 2478-2484.	0.8	17
43	Convergent evolution leading to the appearance of furanocoumarins in citrus plants. <i>Plant Science</i> , 2020, 292, 110392.	1.7	17
44	Isolation of <i>Artemisia capillaris</i> membrane-bound di-prenyltransferase for phenylpropanoids and redesign of artepillin C in yeast. <i>Communications Biology</i> , 2019, 2, 384.	2.0	15
45	Parallel evolution of UbiA superfamily proteins into aromatic <i>O</i> -prenyltransferases in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	15
46	Molecular Identification of Endophytic Bacteria in <i>Leucosium aestivum</i> In Vitro Culture, NMR-Based Metabolomics Study and LC-MS Analysis Leading to Potential Amaryllidaceae Alkaloid Production. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1773.	1.8	14
47	Screening of Antimicrobial Activities and Lipopeptide Production of Endophytic Bacteria Isolated from Vetiver Roots. <i>Microorganisms</i> , 2022, 10, 209.	1.6	12
48	Partial recoding of P450 and P450 reductase cDNAs for improved expression in yeast and plants. <i>Methods in Enzymology</i> , 2002, 357, 343-351.	0.4	11
49	Composition and functional comparison of vetiver root endophytic microbiota originating from different geographic locations that show antagonistic activity towards <i>Fusarium graminearum</i> . <i>Microbiological Research</i> , 2021, 243, 126650.	2.5	11
50	Assessing Carnivorous Plants for the Production of Recombinant Proteins. <i>Frontiers in Plant Science</i> , 2019, 10, 793.	1.7	10
51	Recent Advances in Molecular Genetics of Furanocoumarin Synthesis in Higher Plants. , 2014, , 363-375.		9
52	Identification and Quantification of Coumarins by UHPLC-MS in <i>Arabidopsis thaliana</i> Natural Populations. <i>Molecules</i> , 2021, 26, 1804.	1.7	9
53	Artificial defective interfering RNAs derived from RNA 2 of beet necrotic yellow vein virus. <i>Archives of Virology</i> , 1994, 135, 143-151.	0.9	8
54	A GDGL lipase-like from <i>Ipomoea batatas</i> catalyzes efficient production of 3,5-diCQA when expressed in <i>Pichia pastoris</i> . <i>Communications Biology</i> , 2020, 3, 673.	2.0	8

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55	A Rapid and Efficient Method for Isolating High Quality DNA from Leaves of Carnivorous Plants from the Drosera Genus. <i>Molecular Biotechnology</i> , 2012, 51, 247-253.	1.3	7
56	Beet western yellows virus infects the carnivorous plant <i>Nepenthes mirabilis</i> . <i>Archives of Virology</i> , 2016, 161, 2273-2278.	0.9	6
57	Local removal of oxygen for NAD(P) ⁺ detection in aerated solutions. <i>Electrochimica Acta</i> , 2020, 353, 136546.	2.6	5
58	<i>Datura innoxia</i> plants hydroponically-inoculated with <i>Agrobacterium rhizogenes</i> display an enhanced growth and alkaloid metabolism. <i>Plant Science</i> , 2018, 277, 166-176.	1.7	3
59	Untargeted Metabolomics Approach Reveals Diverse Responses of <i>Pastinaca Sativa</i> to Ozone and Wounding Stresses. <i>Metabolites</i> , 2019, 9, 153.	1.3	2
60	<i>Agrobacterium</i> -Mediated Transformation of <i>Ruta graveolens</i> L. <i>Methods in Molecular Biology</i> , 2009, 547, 235-248.	0.4	2
61	Extraction of Coumarins from Leaves, Petioles, Stems and Roots of <i>Ruta graveolens</i> and <i>Nicotiana benthamiana</i> . <i>Bio-protocol</i> , 2012, 2, .	0.2	0