

Frederic Bourgaud

List of Publications by Year in descending order

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74
papers

4,010
citations

136740

32
h-index

123241

61
g-index

78
all docs

78
docs citations

78
times ranked

4691
citing authors

#	ARTICLE	IF	CITATIONS
1	Production of plant secondary metabolites: a historical perspective. <i>Plant Science</i> , 2001, 161, 839-851.	1.7	888
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	How Does Tomato Quality (Sugar, Acid, and Nutritional Quality) Vary with Ripening Stage, Temperature, and Irradiance?. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 1241-1250.	2.4	266
4	Effects of Low Nitrogen Supply on Tomato (<i>Solanum lycopersicum</i>) Fruit Yield and Quality with Special Emphasis on Sugars, Acids, Ascorbate, Carotenoids, and Phenolic Compounds. <i>Journal of Agricultural and Food Chemistry</i> , 2009, 57, 4112-4123.	2.4	169
5	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
6	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
7	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
8	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
9	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
10	A 2-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
11	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
12	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
13	The "trade-off" between synthesis of primary and secondary compounds in young tomato leaves is altered by nitrate nutrition: experimental evidence and model consistency. <i>Journal of Experimental Botany</i> , 2009, 60, 4301-4314.	2.4	78
14	<i>Ruta graveolens</i> L.: a promising species for the production of furanocoumarins. <i>Plant Science</i> , 2001, 161, 189-199.	1.7	74
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	Influence of repeated short-term nitrogen limitations on leaf phenolics metabolism in tomato. <i>Phytochemistry</i> , 2012, 77, 119-128.	1.4	64
18	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

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19	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
20	Establishment of hairy root cultures of <i>Psoralea</i> species. <i>Plant Cell Reports</i> , 1992, 11, 424-7.	2.8	48
21	Extraction of coumarins from plant material (Leguminosae). <i>Phytochemical Analysis</i> , 1994, 5, 127-132.	1.2	46
22	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
23	Proteome analysis of digestive fluids in <i>Nepenthes</i> pitchers. <i>Annals of Botany</i> , 2016, 117, 479-495.	1.4	42
24	Cinnamic acid 4-hydroxylase mechanism-based inactivation by psoralen derivatives: cloning and characterization of a C4H from a psoralen producing plant <i>Ruta graveolens</i> exhibiting low sensitivity to psoralen inactivation. <i>Archives of Biochemistry and Biophysics</i> , 2004, 422, 71-80.	1.4	40
25	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
26	Organ-specific responses of tomato growth and phenolic metabolism to nitrate limitation. <i>Plant Biology</i> , 2012, 14, 760-769.	1.8	39
27	Mapping the genetic and tissular diversity of 64 phenolic compounds in <i>Citrus</i> species using a UPLC-MS approach. <i>Annals of Botany</i> , 2015, 115, 861-877.	1.4	39
28	Title is missing!. <i>Plant Cell, Tissue and Organ Culture</i> , 2000, 62, 11-19.	1.2	38
29	Molecular Cloning and Characterization of a Geranyl Diphosphate-Specific Aromatic Prenyltransferase from Lemon <i>A.</i> <i>Plant Physiology</i> , 2014, 166, 80-90.	2.3	38
30	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
31	<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
32	Antioxidant and antiglycation properties of <i>Hydnora johannis</i> roots. <i>South African Journal of Botany</i> , 2013, 84, 124-127.	1.2	35
33	Production of flavonoids by <i>Psoralea</i> hairy root cultures. <i>Plant Cell, Tissue and Organ Culture</i> , 1999, 56, 96-103.	1.2	34
34	Establishment of a co-culture of <i>Ammi majus</i> L. and <i>Ruta graveolens</i> L. for the synthesis of furanocoumarins. <i>Plant Science</i> , 2003, 165, 1315-1319.	1.7	34
35	CYP98A22, a phenolic ester 3-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
36	Natural Products from Bryophytes: From Basic Biology to Biotechnological Applications. <i>Critical Reviews in Plant Sciences</i> , 2021, 40, 191-217.	2.7	33

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37	Production of daidzein by callus cultures of <i>Psoralea</i> species and comparison with plants. <i>Plant Cell, Tissue and Organ Culture</i> , 1998, 53, 35-40.	1.2	32
38	Production of phenylpropanoid compounds by recombinant microorganisms expressing plant-specific biosynthesis genes. <i>Process Biochemistry</i> , 2008, 43, 463-479.	1.8	31
39	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
40	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
41	Hydroponic combined with natural or forced root permeabilization: a promising technique for plant secondary metabolite production. <i>Plant Science</i> , 2002, 163, 723-732.	1.7	25
42	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
43	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
44	Testing of Outstanding Individuals of <i>Thlaspi Caerulescens</i> for Cadmium Phytoextraction. <i>International Journal of Phytoremediation</i> , 2006, 8, 339-357.	1.7	22
45	A bacterial artificial chromosome (<sc>BAC</sc>) genomic approach reveals partial clustering of the furanocoumarin pathway genes in parsnip. <i>Plant Journal</i> , 2017, 89, 1119-1132.	2.8	21
46	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
47	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
48	Impact of Temporary Nitrogen Deprivation on Tomato Leaf Phenolics. <i>International Journal of Molecular Sciences</i> , 2011, 12, 7971-7981.	1.8	19
49	A simple SDS-PAGE protein pattern from pitcher secretions as a new tool to distinguish <i>Nepenthes</i> species (<i>Nepenthaceae</i>). <i>American Journal of Botany</i> , 2013, 100, 2478-2484.	0.8	17
50	Convergent evolution leading to the appearance of furanocoumarins in citrus plants. <i>Plant Science</i> , 2020, 292, 110392.	1.7	17
51	Quantification of Daidzein and Furanocoumarin Conjugates of <i>Psoralea cinerea</i> L. (<i>Leguminosae</i>). <i>Phytochemical Analysis</i> , 1997, 8, 27-31.	1.2	15
52	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
53	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
54	Anti-Inflammatory Activity of Bryophytes Extracts in LPS-Stimulated RAW264.7 Murine Macrophages. <i>Molecules</i> , 2022, 27, 1940.	1.7	14

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55	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
56	Study of two pharmaceutically useful <i>Psoralea</i> (Leguminosae) species : influence of inoculation on growth, grain and dry matter yield. <i>Agronomy for Sustainable Development</i> , 1990, 10, 1-8.	0.8	11
57	Assessing Carnivorous Plants for the Production of Recombinant Proteins. <i>Frontiers in Plant Science</i> , 2019, 10, 793.	1.7	10
58	Collagenase and Tyrosinase Inhibitory Effect of Isolated Constituents from the Moss <i>Polytrichum formosum</i> . <i>Plants</i> , 2021, 10, 1271.	1.6	10
59	Cultivation of rue (<i>Ruta graveolens</i> L., Rutaceae) for the production of furanocoumarins of therapeutic value. <i>Canadian Journal of Botany</i> , 2000, 78, 1326-1335.	1.2	9
60	Recent Advances in Molecular Genetics of Furanocoumarin Synthesis in Higher Plants. , 2014, , 363-375.		9
61	Identification and Quantification of Coumarins by UHPLC-MS in <i>Arabidopsis thaliana</i> Natural Populations. <i>Molecules</i> , 2021, 26, 1804.	1.7	9
62	A GDSL 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
63	Cultivation of rue (<i>Ruta graveolens</i> L., Rutaceae) for the production of furanocoumarins of therapeutic value. <i>Canadian Journal of Botany</i> , 2000, 78, 1326-1335.	1.2	8
64	A Rapid and Efficient Method for Isolating High Quality DNA from Leaves of Carnivorous Plants from the <i>Drosera</i> Genus. <i>Molecular Biotechnology</i> , 2012, 51, 247-253.	1.3	7
65	From Bioreactor to Entire Plants. <i>Advances in Botanical Research</i> , 2013, 68, 205-232.	0.5	6
66	Beet western yellows virus infects the carnivorous plant <i>Nepenthes mirabilis</i> . <i>Archives of Virology</i> , 2016, 161, 2273-2278.	0.9	6
67	Plant Milking Technology – An Innovative and Sustainable Process to Produce Highly Active Extracts from Plant Roots. <i>Molecules</i> , 2020, 25, 4162.	1.7	5
68	A selective photobiological assay to detect and quantify psoralen in <i>Psoralea</i> plants (Leguminosae). <i>Phytochemical Analysis</i> , 1994, 5, 315-318.	1.2	4
69	<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
70	<i>Agrobacterium</i> -Mediated Transformation of <i>Ruta graveolens</i> L. <i>Methods in Molecular Biology</i> , 2009, 547, 235-248.	0.4	2
71	Evaluation of Vetiver Volatile Compound Production under Aeroponic-Grown Conditions for the Perfume Industry. <i>Molecules</i> , 2022, 27, 1942.	1.7	2
72	Development of an enzyme immunoassay to detect and quantify psoralen and bergapten in plants. <i>Phytochemical Analysis</i> , 1995, 6, 306-312.	1.2	1

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73	Les plantes, sources d'acides gras essentiels om ω 3. Oleagineux Corps Gras Lipides, 2004, 11, 106-111.	0.2	1
74	Extraction of Coumarins from Leaves, Petioles, Stems and Roots of <i>Ruta graveolens</i> and <i>Nicotiana benthamiana</i> . Bio-protocol, 2012, 2, .	0.2	0