Vincent Burlat

List of Publications by Year
in descending order

62 papers	3,911 citations	159585 30 h-index	128289 60 g-index
64 all docs	64 docs citations	64 times ranked	4038 citing authors

#	ARTICLE	IF	CITATIONS
1	Cell-wall microdomain remodeling controls crucial developmental processes. Trends in Plant Science, 2022, 27, 1033-1048.	8.8	14
2	Myxospermy Evolution in Brassicaceae: A Highly Complex and Diverse Trait with Arabidopsis as an Uncommon Model. Cells, 2021, 10, 2470.	4.1	6
3	Low pH-induced cell wall disturbances in Arabidopsis thaliana roots lead to a pattern-specific programmed cell death in the different root zones and arrested elongation in late elongation zone. Environmental and Experimental Botany, 2021, 190, 104596.	4.2	6
4	The Jo-In protein welding system is a relevant tool to create CBM-containing plant cell wall degrading enzymes. New Biotechnology, 2021, 65, 31-41.	4.4	5
5	Interaction of two MADS-box genes leads to growth phenotype divergence of all-flesh type of tomatoes. Nature Communications, 2021, 12, 6892.	12.8	23
6	The Class III Peroxidase Encoding Gene AtPrx62 Positively and Spatiotemporally Regulates the Low pH-Induced Cell Death in Arabidopsis thaliana Roots. International Journal of Molecular Sciences, 2020, 21, 7191.	4.1	7
7	An Integrative Study Showing the Adaptation to Sub-Optimal Growth Conditions of Natural Populations of Arabidopsis thaliana: A Focus on Cell Wall Changes. Cells, 2020, 9, 2249.	4.1	7
8	Seed mucilage evolution: Diverse molecular mechanisms generate versatile ecological functions for particular environments. Plant, Cell and Environment, 2020, 43, 2857-2870.	5.7	25
9	Coordination of five class III peroxidase-encoding genes for early germination events of Arabidopsis thaliana. Plant Science, 2020, 298, 110565.	3.6	20
10	Cellular and Subcellular Compartmentation of the 2C-Methyl-D-Erythritol 4-Phosphate Pathway in the Madagascar Periwinkle. Plants, 2020, 9, 462.	3.5	19
11	Plant Cell Wall Proteomes: Bioinformatics and Cell Biology Tools to Assess the Bona Fide Cell Wall Localization of Proteins. Methods in Molecular Biology, 2020, 2149, 443-462.	0.9	0
12	Medium-Throughput RNA In Situ Hybridization of Serial Sections from Paraffin-Embedded Tissue Microarrays. Methods in Molecular Biology, 2019, 1933, 99-130.	0.9	2
13	Pectin Demethylesterification Generates Platforms that Anchor Peroxidases to Remodel Plant Cell Wall Domains. Developmental Cell, 2019, 48, 261-276.e8.	7.0	57
14	CBMs as Probes to Explore Plant Cell Wall Heterogeneity Using Immunocytochemistry. Methods in Molecular Biology, 2017, 1588, 181-197.	0.9	4
15	Cell wall modifications of two Arabidopsis thaliana ecotypes, Col and Sha, in response to sub-optimal growth conditions: An integrative study. Plant Science, 2017, 263, 183-193.	3.6	26
16	The class <scp>III</scp> peroxidase <scp>PRX</scp>17 is a direct target of the <scp>MADS</scp>â€box transcription factor AGAMOUSâ€LIKE15 (<scp>AGL</scp>15) and participates in lignified tissue formation. New Phytologist, 2017, 213, 250-263.	7.3	88
17	The Arabidopsis Lipid Transfer Protein 2 (AtLTP2) Is Involved in Cuticle-Cell Wall Interface Integrity and in Etiolated Hypocotyl Permeability. Frontiers in Plant Science, 2017, 8, 263.	3.6	51
18	Plant Cell Wall Proteomics as a Strategy to Reveal Candidate Proteins Involved in Extracellular Lipid Metabolism. Current Protein and Peptide Science, 2017, 19, 190-199.	1.4	8

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19	Differential Subplastidial Localization and Turnover of Enzymes Involved in Isoprenoid Biosynthesis in Chloroplasts. PLoS ONE, 2016, 11, e0150539.	2.5	33
20	Complementarity of medium-throughput in situ RNA hybridization and tissue-specific transcriptomics: case study of Arabidopsis seed development kinetics. Scientific Reports, 2016, 6, 24644.	3.3	17
21	Class II Cytochrome P450 Reductase Governs the Biosynthesis of Alkaloids. Plant Physiology, 2016, 172, 1563-1577.	4.8	44
22	Arabidopsis seed mucilage secretory cells: regulation and dynamics. Trends in Plant Science, 2015, 20, 515-524.	8.8	95
23	Iridoid Synthase Activity Is Common among the Plant Progesterone 5Î²-Reductase Family. Molecular Plant, 2015, 8, 136-152.	8.3	57
24	Hypermetamorphosis in a leaf-miner allows insects to cope with a confined nutritional space. Arthropod-Plant Interactions, 2015, 9, 75-84.	1.1	18
25	Roles of cell wall peroxidases in plant development. Phytochemistry, 2015, 112, 15-21.	2.9	233
26	Phytochemical genomics of the Madagascar periwinkle: Unravelling the last twists of the alkaloid engine. Phytochemistry, 2015, 113, 9-23.	2.9	92
27	Expression of<i>PRX36</i>,<i>PMEI6</i>and<i>SBT1.7</i>is controlled by complex transcription factor regulatory networks for proper seed coat mucilage extrusion. Plant Signaling and Behavior, 2014, 9, e977734.	2.4	21
28	A look inside an alkaloid multisite plant: the Catharanthus logistics. Current Opinion in Plant Biology, 2014, 19, 43-50.	7.1	135
29	Iridoid Synthase Activity Is Common among the Plant Progesterone 5Â-Reductase Family. Molecular Plant, 2014, , .	8.3	1
30	The seco-iridoid pathway from Catharanthus roseus. Nature Communications, 2014, 5, 3606.	12.8	355
31	<i>Brachypodium distachyon</i> as a model plant toward improved biofuel crops: Search for secreted proteins involved in biogenesis and disassembly of cell wall polymers. Proteomics, 2013, 13, 2438-2454.	2.2	46
32	Characterization of the plastidial geraniol synthase from Madagascar periwinkle which initiates the monoterpenoid branch of the alkaloid pathway in internal phloem associated parenchyma. Phytochemistry, 2013, 85, 36-43.	2.9	123
33	A Pair of Tabersonine 16-Hydroxylases Initiates the Synthesis of Vindoline in an Organ-Dependent Manner in<i>Catharanthus roseus</i>Â Â Â. Plant Physiology, 2013, 163, 1792-1803.	4.8	97
34	Triple subcellular targeting of isopentenyl diphosphate isomerases encoded by a single gene. Plant Signaling and Behavior, 2012, 7, 1495-1497.	2.4	13
35	An alternative route to cyclic terpenes by reductive cyclization in iridoid biosynthesis. Nature, 2012, 492, 138-142.	27.8	298
36	Cycloheximide as a tool to investigate protein import in peroxisomes: A case study of the subcellular localization of isoprenoid biosynthetic enzymes. Journal of Plant Physiology, 2012, 169, 825-829.	3.5	7

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37	A single gene encodes isopentenyl diphosphate isomerase isoforms targeted to plastids, mitochondria and peroxisomes in Catharanthus roseus. Plant Molecular Biology, 2012, 79, 443-459.	3.9	60
38	Spatial organization of the vindoline biosynthetic pathway in Catharanthus roseus. Journal of Plant Physiology, 2011, 168, 549-557.	3.5	76
39	Molecular cloning and characterisation of two calmodulin isoforms of the Madagascar periwinkle <i>Catharanthus roseus</i>. Plant Biology, 2011, 13, 36-41.	3.8	7
40	The subcellular organization of strictosidine biosynthesis in <i>Catharanthusâ€ƒroseus</i> epidermis highlights several transâ€tonoplast translocations of intermediate metabolites. FEBS Journal, 2011, 278, 749-763.	4.7	58
41	Strictosidine activation in Apocynaceae: towards a "nuclear time bomb"?. BMC Plant Biology, 2010, 10, 182.	3.6	129
42	<i>De novo</i> biosynthesis of defense root exudates in response to <i>Fusarium</i> attack in barley. New Phytologist, 2010, 185, 577-588.	7.3	206
43	Induced root-secreted phenolic compounds as a belowground plant defense. Plant Signaling and Behavior, 2010, 5, 1037-1038.	2.4	40
44	Biosynthesis and Regulation of Alkaloids. , 2010, , 139-160.		22
45	Proteins prenylated by type I protein geranylgeranyltransferase act positively on the jasmonate signalling pathway triggering the biosynthesis of monoterpene indole alkaloids in Catharanthus roseus. Plant Cell Reports, 2009, 28, 83-93.	5.6	21
46	Optimization of the transient transformation of Catharanthus roseus cells by particle bombardment and its application to the subcellular localization of hydroxymethylbutenyl 4-diphosphate synthase and geraniol 10-hydroxylase. Plant Cell Reports, 2009, 28, 1215-1234.	5.6	105
47	Transcription factor Agamous-like 12 from Arabidopsis promotes tissue-like organization and alkaloid biosynthesis in Catharanthus roseus suspension cells. Metabolic Engineering, 2007, 9, 125-132.	7.0	33
48	Cellular and sub-cellular organisation of the monoterpenoid indole alkaloid pathway in Catharanthus roseus. Phytochemistry Reviews, 2007, 6, 363-381.	6.5	69
49	Spatial distribution and hormonal regulation of gene products from methyl erythritol phosphate and monoterpene-secoiridoid pathways in Catharanthus roseus. Plant Molecular Biology, 2007, 65, 13-30.	3.9	103
50	Epidermis is a pivotal site of at least four secondary metabolic pathways in Catharanthus roseus aerial organs. Planta, 2006, 223, 1191-1200.	3.2	68
51	Purification, molecular cloning, and cell-specific gene expression of the alkaloid-accumulation associated protein CrPS in Catharanthus roseus. Journal of Experimental Botany, 2005, 56, 1221-1228.	4.8	20
52	Characterisation of CaaX-prenyltransferases in Catharanthus roseus: relationships with the expression of genes involved in the early stages of monoterpenoid biosynthetic pathway. Plant Science, 2005, 168, 1097-1107.	3.6	27
53	Isolation of a cDNA encoding the alpha-subunit of CAAX-prenyltransferases from Catharanthus roseus and the expression of the active recombinant protein farnesyltransferase. Cellular and Molecular Biology Letters, 2005, 10, 649-57.	7.0	3
54	Co-expression of three MEP pathway genes andgeraniol 10-hydroxylasein internal phloem parenchyma ofCatharanthus roseusimplicates multicellular translocation of intermediates during the biosynthesis of monoterpene indole alkaloids and isoprenoid-derived primary metabolites. Plant Journal, 2004, 38, 131-141.	5.7	195

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55	Down-regulation of the AtCCR1 gene in Arabidopsis thaliana: effects on phenotype, lignins and cell wall degradability. Planta, 2003, 217, 218-228.	3.2	165
56	Interrelation between Lignin Deposition and Polysaccharide Matrices during the Assembly of Plant Cell Walls. Plant Biology, 2002, 4, 2-8.	3.8	30
57	Dirigent proteins and dirigent sites in lignifying tissues. Phytochemistry, 2001, 57, 883-897.	2.9	164
58	Relationship Between Ultrastructural Topochemistry of Lignin and Wood Properties. IAWA Journal, 1999, 20, 203-211.	2.7	39
59	Regiochemical control of monolignol radical coupling: A new paradigm for lignin and lignan biosynthesis. Chemistry and Biology, 1999, 6, 143-151.	6.0	175
60	Localization of Dirigent Protein Involved in Lignan Biosynthesis: Implications for Lignification at the Tissue and Subcellular Level. , 1999, , 393-411.		5
61	Localization of a phosphatidylglycerol/ phosphatidylinositol transfer protein in Aspergillus oryzae. Canadian Journal of Microbiology, 1998, 44, 945-953.	1.7	19
62	Localization of a phosphatidylglycerol/ phosphatidylinositol transfer protein in <i>Aspergillus oryzae</i>. Canadian Journal of Microbiology, 1998, 44, 945-953.	1.7	3