

Filomena A Pettolino

List of Publications by Year in descending order

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47
papers

3,345
citations

185998

28
h-index

223531

46
g-index

48
all docs

48
docs citations

48
times ranked

4616
citing authors

#	ARTICLE	IF	CITATIONS
1	Determining the polysaccharide composition of plant cell walls. <i>Nature Protocols</i> , 2012, 7, 1590-1607.	5.5	557
2	High-throughput mapping of cell-wall polymers within and between plants using novel microarrays. <i>Plant Journal</i> , 2007, 50, 1118-1128.	2.8	286
3	A barley <i>cellulose synthase-like CSLH</i> gene mediates (1,3;1,4)- β -glucan synthesis in transgenic <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 5996-6001.	3.3	246
4	The charophycean green algae provide insights into the early origins of plant cell walls. <i>Plant Journal</i> , 2011, 68, 201-211.	2.8	226
5	Arabinogalactan Proteins Are Required for Apical Cell Extension in the Moss <i>Physcomitrella patens</i> . <i>Plant Cell</i> , 2005, 17, 3051-3065.	3.1	179
6	Overexpression of specific <i>HvCslF</i> cellulose synthase-like genes in transgenic barley increases the levels of cell wall (1,3;1,4)- β -glucans and alters their fine structure. <i>Plant Biotechnology Journal</i> , 2011, 9, 117-135.	4.1	171
7	Plant cell walls: the skeleton of the plant world. <i>Functional Plant Biology</i> , 2010, 37, 357.	1.1	161
8	Mixed-linkage (1 \rightarrow 3),(1 \rightarrow 4)- β -glucan is not unique to the Poales and is an abundant component of <i>Equisetum arvense</i> cell walls. <i>Plant Journal</i> , 2008, 54, 510-521.	2.8	151
9	Cell wall integrity is linked to mitochondria and phospholipid homeostasis in <i>Candida albicans</i> through the activity of the posttranscriptional regulator <i>Ccr4</i> ^{Pop2} . <i>Molecular Microbiology</i> , 2011, 79, 968-989.	1.2	115
10	<i>GbEXPATR</i> , a species-specific expansin, enhances cotton fibre elongation through cell wall restructuring. <i>Plant Biotechnology Journal</i> , 2016, 14, 951-963.	4.1	83
11	Distribution of cell wall components in <i>Sphagnum hyaline</i> cells and in liverwort and hornwort elaters. <i>Planta</i> , 2004, 219, 1023-1035.	1.6	79
12	Structure of cellulose microfibrils in mature cotton fibres. <i>Carbohydrate Polymers</i> , 2017, 175, 450-463.	5.1	74
13	A (1 \rightarrow 4)- β -mannan-specific monoclonal antibody and its use in the immunocytochemical location of galactomannans. <i>Planta</i> , 2001, 214, 235-242.	1.6	64
14	Reducing haziness in white wine by overexpression of <i>Saccharomyces cerevisiae</i> genes <i>YOL155c</i> and <i>YDR055w</i> . <i>Applied Microbiology and Biotechnology</i> , 2007, 73, 1363-1376.	1.7	61
15	The Transcriptional Regulator <i>LEUNIG_HOMOLOG</i> Regulates Mucilage Release from the <i>Arabidopsis</i> Testa. <i>Plant Physiology</i> , 2011, 156, 46-60.	2.3	58
16	Polysaccharide composition of the fruit juice of <i>Morinda citrifolia</i> (Noni). <i>Phytochemistry</i> , 2006, 67, 1271-1275.	1.4	57
17	Mitochondrial Sorting and Assembly Machinery Subunit <i>Sam37</i> in <i>Candida albicans</i> : Insight into the Roles of Mitochondria in Fitness, Cell Wall Integrity, and Virulence. <i>Eukaryotic Cell</i> , 2012, 11, 532-544.	3.4	57
18	Genetic and DNA Methylation Changes in Cotton (<i>Gossypium</i>) Genotypes and Tissues. <i>PLoS ONE</i> , 2014, 9, e86049.	1.1	56

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19	Pectic polysaccharides from mature orange (<i>Citrus sinensis</i>) fruit albedo cell walls: Sequential extraction and chemical characterization. <i>Carbohydrate Polymers</i> , 2011, 84, 484-494.	5.1	51
20	Pattern of Deposition of Cell Wall Polysaccharides and Transcript Abundance of Related Cell Wall Synthesis Genes during Differentiation in Barley Endosperm. <i>Plant Physiology</i> , 2012, 159, 655-670.	2.3	50
21	The Endoplasmic Reticulum-Mitochondrion Tether ERMES Orchestrates Fungal Immune Evasion, Illuminating Inflammasome Responses to Hyphal Signals. <i>MSphere</i> , 2016, 1, .	1.3	39
22	Repeat-length variation in a wheat cellulose synthase-like gene is associated with altered tiller number and stem cell wall composition. <i>Journal of Experimental Botany</i> , 2017, 68, 1519-1529.	2.4	39
23	Hyphal cell walls from the plant pathogen <i>Rhynchosporium secalis</i> contain (1,3/1,6)- β -D-glucans, galacto- and rhamnomannans, (1,3;1,4)- β -D-glucans and chitin. <i>FEBS Journal</i> , 2009, 276, 3698-3709.		38
24	Tissue and cell-specific transcriptomes in cotton reveal the subtleties of gene regulation underlying the diversity of plant secondary cell walls. <i>BMC Genomics</i> , 2017, 18, 539.	1.2	38
25	A Customized Gene Expression Microarray Reveals That the Brittle Stem Phenotype <i>fs2</i> of Barley Is Attributable to a Retroelement in the <i>HvCesA4</i> Cellulose Synthase Gene. <i>Plant Physiology</i> , 2010, 153, 1716-1728.	2.3	37
26	Zebularine treatment is associated with deletion of <i>FT-B1</i> leading to an increase in spikelet number in bread wheat. <i>Plant, Cell and Environment</i> , 2018, 41, 1346-1360.	2.8	36
27	Effect of the native polysaccharide of cashew-nut tree gum exudate on murine peritoneal macrophage modulatory activities. <i>Carbohydrate Polymers</i> , 2015, 125, 241-248.	5.1	34
28	Characterization of the structure, expression and function of <i>Pinus radiata</i> D. Don arabinogalactan-proteins. <i>Planta</i> , 2007, 226, 1131-1142.	1.6	30
29	An α -D-(1 \rightarrow 3)-D-galactanase from <i>Streptomyces</i> sp. provides insights into type II arabinogalactan structure. <i>Carbohydrate Research</i> , 2012, 352, 70-81.	1.1	28
30	Characterization of cell wall polysaccharides from the medicinal plant <i>Panax notoginseng</i> . <i>Phytochemistry</i> , 2005, 66, 1067-1076.	1.4	22
31	Cashew-nut tree exudate gum: Identification of an arabinogalactan-protein as a constituent of the gum and use on the stimulation of somatic embryogenesis. <i>Plant Science</i> , 2007, 173, 468-477.	1.7	22
32	Hpf2 Glycan Structure Is Critical for Protection against Protein Haze Formation in White Wine. <i>Journal of Agricultural and Food Chemistry</i> , 2009, 57, 3308-3315.	2.4	21
33	The Cell Wall Polymers of the Charophycean Green Alga <i>Chara corallina</i> : Immunobinding and Biochemical Screening. <i>International Journal of Plant Sciences</i> , 2010, 171, 345-361.	0.6	21
34	Glycan Profiling of Plant Cell Wall Polymers using Microarrays. <i>Journal of Visualized Experiments</i> , 2012, , e4238.	0.2	19
35	Oil Accumulation in Transgenic Potato Tubers Alters Starch Quality and Nutritional Profile. <i>Frontiers in Plant Science</i> , 2017, 8, 554.	1.7	18
36	Mutations to <i>LmIFRD</i> affect cell wall integrity, development and pathogenicity of the ascomycete <i>Leptosphaeria maculans</i> . <i>Fungal Genetics and Biology</i> , 2009, 46, 695-706.	0.9	17

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37	Cell Wall Modifications in Maize Pulvini in Response to Gravitational Stress. <i>Plant Physiology</i> , 2011, 156, 2155-2171.	2.3	17
38	Immunoactive Polysaccharide-Rich Fractions from <i>Panax notoginseng</i> . <i>Planta Medica</i> , 2006, 72, 1193-1199.	0.7	16
39	Characterisation of secreted polysaccharides and (glyco)proteins from suspension cultures of <i>Pyrus communis</i> . <i>Phytochemistry</i> , 2008, 69, 873-881.	1.4	14
40	Changes in cell wall polysaccharide composition, gene transcription and alternative splicing in germinating barley embryos. <i>Journal of Plant Physiology</i> , 2016, 191, 127-139.	1.6	11
41	Effects of Yariv dyes, arabinogalactan-protein binding reagents, on the growth and viability of Brazilian pine suspension culture cells. <i>Trees - Structure and Function</i> , 2010, 24, 391-398.	0.9	10
42	Application of a mannan-specific antibody for the detection of galactomannans in foods. <i>Food Hydrocolloids</i> , 2002, 16, 551-556.	5.6	9
43	Arabinogalactan-proteins from cell suspension cultures of <i>Araucaria angustifolia</i> . <i>Phytochemistry</i> , 2010, 71, 1400-1409.	1.4	9
44	Preparation of a new chromogenic substrate to assay for β -galactanases that hydrolyse type II arabinogalactans. <i>Carbohydrate Research</i> , 2009, 344, 1941-1946.	1.1	7
45	Cotton Breeding in Australia: Meeting the Challenges of the 21st Century. <i>Frontiers in Plant Science</i> , 2022, 13, .	1.7	7
46	The importance of anatomy and physiology in plant metabolomics. <i>Topics in Current Genetics</i> , 2007, , 253-278.	0.7	4
47	The cell wall polysaccharides of a photosynthetic relative of apicomplexans, <i>Chromera velia</i> . <i>Journal of Phycology</i> , 2021, 57, 1805-1809.	1.0	0