

Jean-Claude Mollet

List of Publications by Year in descending order

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49
papers

2,177
citations

218677

26
h-index

233421

45
g-index

51
all docs

51
docs citations

51
times ranked

2483
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemocyanin, a small basic protein from the lily stigma, induces pollen tube chemotropism. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 16125-16130.	7.1	206
2	A Lipid Transferâ€‘like Protein Is Necessary for Lily Pollen Tube Adhesion to an in Vitro Stylar Matrix. Plant Cell, 2000, 12, 151-163.	6.6	202
3	A Lily Stylar Pectin Is Necessary for Pollen Tube Adhesion to an in Vitro Stylar Matrix. Plant Cell, 2000, 12, 1737-1749.	6.6	181
4	Biochemical and Immunocytological Characterizations of Arabidopsis Pollen Tube Cell Wall. Plant Physiology, 2010, 153, 1563-1576.	4.8	129
5	Cell Wall Composition, Biosynthesis and Remodeling during Pollen Tube Growth. Plants, 2013, 2, 107-147.	3.5	110
6	Arabinogalactan proteins in root and pollen-tube cells: distribution and functional aspects. Annals of Botany, 2012, 110, 383-404.	2.9	102
7	PECTIN METHYLESTERASE48 Is Involved in Arabidopsis Pollen Grain Germination. Plant Physiology, 2015, 167, 367-380.	4.8	97
8	Arabinogalactan proteins, pollen tube growth, and the reversible effects of Yariv phenylglycoside. Protoplasma, 2002, 219, 89-98.	2.1	80
9	Title is missing!. Journal of Applied Phycology, 1998, 10, 59-66.	2.8	78
10	UUAT1 Is a Golgi-Localized UDP-Uronic Acid Transporter That Modulates the Polysaccharide Composition of Arabidopsis Seed Mucilage. Plant Cell, 2017, 29, 129-143.	6.6	60
11	Extracellular Matrix Assembly in Diatoms (Bacillariophyceae) (II. 2,6-Dichlorobenzonitrile Inhibition) Tj ETQq1 1 0.784314 rgBT /Overlock 113, 1071-1080.	4.8	58
12	Two tomato GDP-D-mannose epimerase isoforms involved in ascorbate biosynthesis play specific roles in cell wall biosynthesis and development. Journal of Experimental Botany, 2016, 67, 4767-4777.	4.8	57
13	The cell wall pectic polymer rhamnogalacturonan-II is required for proper pollen tube elongation: implications of a putative sialyltransferase-like protein. Annals of Botany, 2014, 114, 1177-1188.	2.9	52
14	Direct structural identification of polysaccharides from red algae by FTIR microspectrometry I: Localization of agar in Gracilaria verrucosa sections. Mikrochimica Acta, 1993, 112, 1-10.	5.0	49
15	Plant cell wall imaging by metabolic clickâ€‘mediated labelling of rhamnogalacturonan II using azido 3â€‘deoxyâ€‘mannoâ€‘ulosonic acid. Plant Journal, 2016, 85, 437-447.	5.7	48
16	Combined Experimental and Computational Approaches Reveal Distinct pH Dependence of Pectin Methyltransferase Inhibitors. Plant Physiology, 2017, 173, 1075-1093.	4.8	48
17	Evolution of Cell Wall Polymers in Tip-Growing Land Plant Gametophytes: Composition, Distribution, Functional Aspects and Their Remodeling. Frontiers in Plant Science, 2019, 10, 441.	3.6	42
18	Effect of water deficit on the cell wall of the date palm (<i>Phoenix dactylifera</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Environment, 2013, 36, 1056-1070.	5.7	41

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19	<i>TBL10</i> is required for <i>O</i> -acetylation of pectic rhamnogalacturonan in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2018, 96, 772-785.	5.7	37
20	Salicylic Acid Regulates Pollen Tip Growth through an NPR3/NPR4-Independent Pathway. <i>Molecular Plant</i> , 2016, 9, 1478-1491.	8.3	36
21	A Lipid Transfer-Like Protein Is Necessary for Lily Pollen Tube Adhesion to an in vitro Stylar Matrix. <i>Plant Cell</i> , 2000, 12, 151.	6.6	34
22	Two SCA (Stigma/Style Cysteine-rich Adhesin) Isoforms Show Structural Differences That Correlate with Their Levels of in Vitro Pollen Tube Adhesion Activity. <i>Journal of Biological Chemistry</i> , 2007, 282, 33845-33858.	3.4	33
23	Plant cell adhesion: A bioassay facilitates discovery of the first pectin biosynthetic gene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 15843-15845.	7.1	32
24	Modifications of cell wall pectin in tomato cell suspension in response to cadmium and zinc. <i>Acta Physiologiae Plantarum</i> , 2015, 37, 1.	2.1	32
25	Isolation, characterization and valorization of hemicelluloses from <i>Aristida pungens</i> leaves as biomaterial. <i>Carbohydrate Polymers</i> , 2008, 74, 597-602.	10.2	31
26	A Lily Stylar Pectin Is Necessary for Pollen Tube Adhesion to an in vitro Stylar Matrix. <i>Plant Cell</i> , 2000, 12, 1737.	6.6	28
27	The exogenous application of AtPGLR, an endopolygalacturonase, triggers pollen tube burst and repair. <i>Plant Journal</i> , 2020, 103, 617-633.	5.7	28
28	Improved protoplast yield and cell wall regeneration in <i>Gracilaria verrucosa</i> (Huds.) Papenfuss (Gracilariales, Rhodophyta). <i>Journal of Experimental Botany</i> , 1995, 46, 239-247.	4.8	24
29	Pectins in the cell wall of <i>Arabidopsis thaliana</i> pollen tube and pistil. <i>Plant Signaling and Behavior</i> , 2010, 5, 1282-1285.	2.4	24
30	Pollen tube cell walls of wild and domesticated tomatoes contain arabinosylated and fucosylated xyloglucan. <i>Annals of Botany</i> , 2015, 115, 55-66.	2.9	24
31	Desiccation tolerance in plants: Structural characterization of the cell wall hemicellulosic polysaccharides in three <i>Selaginella</i> species. <i>Carbohydrate Polymers</i> , 2019, 208, 180-190.	10.2	21
32	Kiwi fruit PME1 inhibits PME activity, modulates root elongation and induces pollen tube burst in <i>Arabidopsis thaliana</i> . <i>Plant Growth Regulation</i> , 2014, 74, 285-297.	3.4	20
33	The Scope for Postmating Sexual Selection in Plants. <i>Trends in Ecology and Evolution</i> , 2021, 36, 556-567.	8.7	18
34	Inhibition of fucosylation of cell wall components by 2-fluoro-2-deoxy- α -D-glucose induces defects in root cell elongation. <i>Plant Journal</i> , 2015, 84, 1137-1151.	5.7	17
35	AtPME3, a ubiquitous cell wall pectin methyltransferase of <i>Arabidopsis thaliana</i> , alters the metabolism of cruciferin seed storage proteins during post-germinative growth of seedlings. <i>Journal of Experimental Botany</i> , 2017, 68, 1083-1095.	4.8	17
36	Ethylene signaling modulates tomato pollen tube growth through modifications of cell wall remodeling and calcium gradient. <i>Plant Journal</i> , 2021, 107, 893-908.	5.7	15

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37	Lily (<i>Lilium longiflorum</i> L.) pollen protoplast adhesion is increased in the presence of the peptide SCA. <i>Sexual Plant Reproduction</i> , 2004, 16, 227-233.	2.2	12
38	Cell Adhesion, Separation and Guidance in Compatible Plant Reproduction. , 0, , 69-90.		8
39	Holaphyllamine, a steroid, is able to induce defense responses in <i>Arabidopsis thaliana</i> and increases resistance against bacterial infection. <i>Planta</i> , 2017, 246, 1109-1124.	3.2	7
40	A chemical screen identifies two novel small compounds that alter <i>Arabidopsis thaliana</i> pollen tube growth. <i>BMC Plant Biology</i> , 2019, 19, 152.	3.6	7
41	Dynamic imaging of cell wall polysaccharides by metabolic click-mediated labeling of pectins in living elongating cells. <i>Plant Journal</i> , 2022, 110, 916-924.	5.7	7
42	Activities of de-N-glycosylation are ubiquitously found in tomato plant. <i>Acta Physiologiae Plantarum</i> , 2006, 28, 557-565.	2.1	6
43	Effect of a <i>Bacillus subtilis</i> strain on flax protection against <i>Fusarium oxysporum</i> and its impact on the root and stem cell walls. <i>Plant, Cell and Environment</i> , 2021, 44, 304-322.	5.7	6
44	Identification of two compounds able to improve flax resistance towards <i>Fusarium oxysporum</i> infection. <i>Plant Science</i> , 2020, 301, 110690.	3.6	4
45	Two Carbohydrate-Based Natural Extracts Stimulate <i>in vitro</i> Pollen Germination and Pollen Tube Growth of Tomato Under Cold Temperatures. <i>Frontiers in Plant Science</i> , 2021, 12, 552515.	3.6	3
46	<i>In silico</i> prediction of proteins related to xyloglucan fucosyltransferases in Solanaceae genomes. <i>Plant Signaling and Behavior</i> , 2015, 10, e1026023.	2.4	2
47	A Simple Protocol for the Immunolabelling of <i>Arabidopsis</i> Pollen Tube Membranes and Cell Wall Polymers. <i>Bio-protocol</i> , 2015, 5, .	0.4	2
48	The cell wall pectic rhamnogalacturonan II, an enigma in plant glycobiology. <i>Carbohydrate Chemistry</i> , 2021, , 553-571.	0.3	2
49	Analysis of Sugar Component of a Hot Water Extract from <i>Arabidopsis thaliana</i> Pollen Tubes Using GC-El-MS. <i>Bio-protocol</i> , 2015, 5, .	0.4	0