Jean-Claude Mollet

List of Publications by Year
in descending order

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	Dynamic imaging of cell wall polysaccharides by metabolic clickâ€mediated labeling of pectins in living elongating cells. Plant Journal, 2022, 110, 916-924.	5.7	7
2	Effect of a Bacillus subtilis strain on flax protection against Fusarium oxysporum and its impact on the root and stem cell walls. Plant, Cell and Environment, 2021, 44, 304-322.	5.7	6
3	The Scope for Postmating Sexual Selection in Plants. Trends in Ecology and Evolution, 2021, 36, 556-567.	8.7	18
4	Ethylene signaling modulates tomato pollen tube growth through modifications of cell wall remodeling and calcium gradient. Plant Journal, 2021, 107, 893-908.	5.7	15
5	Two Carbohydrate-Based Natural Extracts Stimulate in vitro Pollen Germination and Pollen Tube Growth of Tomato Under Cold Temperatures. Frontiers in Plant Science, 2021, 12, 552515.	3.6	3
6	The cell wall pectic rhamnogalacturonan II, an enigma in plant glycobiology. Carbohydrate Chemistry, 2021, , 553-571.	0.3	2
7	Identification of two compounds able to improve flax resistance towards Fusarium oxysporum infection. Plant Science, 2020, 301, 110690.	3.6	4
8	The exogenous application of AtPGLR, an endoâ€polygalacturonase, triggers pollen tube burst and repair. Plant Journal, 2020, 103, 617-633.	5.7	28
9	A chemical screen identifies two novel small compounds that alter Arabidopsis thaliana pollen tube growth. BMC Plant Biology, 2019, 19, 152.	3.6	7
10	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
11	Desiccation tolerance in plants: Structural characterization of the cell wall hemicellulosic polysaccharides in three Selaginella species. Carbohydrate Polymers, 2019, 208, 180-190.	10.2	21
12	<scp>TBL</scp>10 is required for Oâ€acetylation of pectic rhamnogalacturonanâ€I in Arabidopsis thaliana. Plant Journal, 2018, 96, 772-785.	5.7	37
13	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
14	Combined Experimental and Computational Approaches Reveal Distinct pH Dependence of Pectin Methylesterase Inhibitors. Plant Physiology, 2017, 173, 1075-1093.	4.8	48
15	Holaphyllamine, a steroid, is able to induce defense responses in Arabidopsis thaliana and increases resistance against bacterial infection. Planta, 2017, 246, 1109-1124.	3.2	7
16	AtPME3, a ubiquitous cell wall pectin methylesterase of Arabidopsis thaliana, alters the metabolism of cruciferin seed storage proteins during post-germinative growth of seedlings. Journal of Experimental Botany, 2017, 68, 1083-1095.	4.8	17
17	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
18	Plant cell wall imaging by metabolic clickâ€mediated labelling of rhamnogalacturonan II using azido 3â€deoxyâ€<scp>d</scp>â€mannoâ€octâ€2â€ulosonic acid. Plant Journal, 2016, 85, 437-447.	5.7	48

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19	Salicylic Acid Regulates Pollen Tip Growth through an NPR3/NPR4-Independent Pathway. Molecular Plant, 2016, 9, 1478-1491.	8.3	36
20	Inhibition of fucosylation of cell wall components by 2â€fluoro 2â€deoxyâ€l â€fucose induces defects in root cell elongation. Plant Journal, 2015, 84, 1137-1151.	5.7	17
21	PECTIN METHYLESTERASE48 Is Involved in Arabidopsis Pollen Grain Germination Â. Plant Physiology, 2015, 167, 367-380.	4.8	97
22	Modifications of cell wall pectin in tomato cell suspension in response to cadmium and zinc. Acta Physiologiae Plantarum, 2015, 37, 1.	2.1	32
23	In silico prediction of proteins related to xyloglucan fucosyltransferases in Solanaceae genomes. Plant Signaling and Behavior, 2015, 10, e1026023.	2.4	2
24	Pollen tube cell walls of wild and domesticated tomatoes contain arabinosylated and fucosylated xyloglucan. Annals of Botany, 2015, 115, 55-66.	2.9	24
25	Analysis of Sugar Component of a Hot Water Extract from Arabidopsis thaliana Pollen Tubes Using GC-EI-MS. Bio-protocol, 2015, 5, .	0.4	0
26	A Simple Protocol for the Immunolabelling of Arabidopsis Pollen Tube Membranes and Cell Wall Polymers. Bio-protocol, 2015, 5, .	0.4	2
27	Kiwi fruit PMEI inhibits PME activity, modulates root elongation and induces pollen tube burst in Arabidopsis thaliana. Plant Growth Regulation, 2014, 74, 285-297.	3.4	20
28	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
29	Effect of water deficit on the cell wall of the date palm (<scp>P</scp>hoenix dactylifera) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Environment, 2013, 36, 1056-1070.	5.7	41
30	Cell Wall Composition, Biosynthesis and Remodeling during Pollen Tube Growth. Plants, 2013, 2, 107-147.	3.5	110
31	Arabinogalactan proteins in root and pollen-tube cells: distribution and functional aspects. Annals of Botany, 2012, 110, 383-404.	2.9	102
32	Biochemical and Immunocytological Characterizations of Arabidopsis Pollen Tube Cell Wall Â Â. Plant Physiology, 2010, 153, 1563-1576.	4.8	129
33	Pectins in the cell wall ofArabidopsis thalianapollen tube and pistil. Plant Signaling and Behavior, 2010, 5, 1282-1285.	2.4	24
34	Isolation, characterization and valorization of hemicelluloses from Aristida pungens leaves as biomaterial. Carbohydrate Polymers, 2008, 74, 597-602.	10.2	31
35	Two SCA (Stigma/Style Cysteine-rich Adhesin) Isoforms Show Structural Differences That Correlate with Their Levels of in Vitro Pollen Tube Adhesion Activity. Journal of Biological Chemistry, 2007, 282, 33845-33858.	3.4	33
36	Activities of de-N-glycosylation are ubiquitously found in tomato plant. Acta Physiologiae Plantarum, 2006, 28, 557-565.	2.1	6

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37	Lily (Lilium longiflorum L.) pollen protoplast adhesion is increased in the presence of the peptide SCA. Sexual Plant Reproduction, 2004, 16, 227-233.	2.2	12
38	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
39	Plant cell adhesion: A bioassay facilitates discovery of the first pectin biosynthetic gene. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 15843-15845.	7.1	32
40	Arabinogalactan proteins, pollen tube growth, and the reversible effects of Yariv phenylglycoside. Protoplasma, 2002, 219, 89-98.	2.1	80
41	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
42	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
43	A Lipid Transfer-Like Protein Is Necessary for Lily Pollen Tube Adhesion to an in vitro Stylar Matrix. Plant Cell, 2000, 12, 151.	6.6	34
44	A Lily Stylar Pectin Is Necessary for Pollen Tube Adhesion to an in vitro Stylar Matrix. Plant Cell, 2000, 12, 1737.	6.6	28
45	Title is missing!. Journal of Applied Phycology, 1998, 10, 59-66.	2.8	78
46	Extracellular Matrix Assembly in Diatoms (Bacillariophyceae) (II. 2,6-Dichlorobenzonitrile Inhibition) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 113, 1071-1080.	4.8	58
47	Improved protoplast yield and cell wall regeneration inGracilaria verrucosa(Huds.) Papenfuss (Gracilariales, Rhodophyta). Journal of Experimental Botany, 1995, 46, 239-247.	4.8	24
48	Direct structural identification of polysaccharides from red algae by FTIR microspectrometry I: Localization of agar inGracilaria verrucosa sections. Mikrochimica Acta, 1993, 112, 1-10.	5.0	49
49	Cell Adhesion, Separation and Guidance in Compatible Plant Reproduction. , 0, , 69-90.		8