

JÃ©rÃ©me Pelloux

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

7,212
citations

172457

29
h-index

233421

45
g-index

51
all docs

51
docs citations

51
times ranked

8471
citing authors

#	ARTICLE	IF	CITATIONS
1	Calcium at the Crossroads of Signaling. <i>Plant Cell</i> , 2002, 14, S401-S417.	6.6	1,076
2	Cell Wall Metabolism in Response to Abiotic Stress. <i>Plants</i> , 2015, 4, 112-166.	3.5	883
3	New insights into pectin methylesterase structure and function. <i>Trends in Plant Science</i> , 2007, 12, 267-277.	8.8	676
4	The lack of a systematic validation of reference genes: a serious pitfall undervalued in reverse transcriptionâ€”polymerase chain reaction (RTâ€”PCR) analysis in plants. <i>Plant Biotechnology Journal</i> , 2008, 6, 609-618.	8.3	613
5	The vacuolar Ca ²⁺ -activated channel TPC1 regulates germination and stomatal movement. <i>Nature</i> , 2005, 434, 404-408.	27.8	490
6	Normalization of qRT-PCR data: the necessity of adopting a systematic, experimental conditions-specific, validation of references. <i>Journal of Experimental Botany</i> , 2009, 60, 487-493.	4.8	481
7	Homogalacturonan Methyl-Esterification and Plant Development. <i>Molecular Plant</i> , 2009, 2, 851-860.	8.3	365
8	Arabidopsis Phyllotaxis Is Controlled by the Methyl-Esterification Status of Cell-Wall Pectins. <i>Current Biology</i> , 2008, 18, 1943-1948.	3.9	302
9	Homogalacturonan-modifying enzymes: structure, expression, and roles in plants. <i>Journal of Experimental Botany</i> , 2014, 65, 5125-5160.	4.8	242
10	Tuning of pectin methylesterification: consequences for cell wall biomechanics and development. <i>Planta</i> , 2015, 242, 791-811.	3.2	199
11	Connecting Homogalacturonan-Type Pectin Remodeling to Acid Growth. <i>Trends in Plant Science</i> , 2017, 22, 20-29.	8.8	189
12	Towards a Systematic Validation of References in Real-Time RT-PCR. <i>Plant Cell</i> , 2008, 20, 1734-1735.	6.6	186
13	A role for pectin deâ€”methylesterification in a developmentally regulated growth acceleration in darkâ€”grown Arabidopsis hypocotyls. <i>New Phytologist</i> , 2010, 188, 726-739.	7.3	147
14	Comprehensive expression profiling of the pectin methylesterase gene family during silique development in Arabidopsis thaliana. <i>Planta</i> , 2006, 224, 782-791.	3.2	131
15	Oligogalacturonide production upon <i>Arabidopsis thaliana</i> â€” <i>Botrytis cinerea</i> interaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 19743-19752.	7.1	100
16	PECTIN METHYLESTERASE48 Is Involved in Arabidopsis Pollen Grain Germination. <i>Plant Physiology</i> , 2015, 167, 367-380.	4.8	97
17	Cell wall compositional modifications of Miscanthus ecotypes in response to cold acclimation. <i>Phytochemistry</i> , 2013, 85, 51-61.	2.9	80
18	Arabidopsis PECTIN METHYLESTERASE17 is co-expressed with and processed by SBT3.5, a subtilisin-like serine protease. <i>Annals of Botany</i> , 2014, 114, 1161-1175.	2.9	79

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19	Structural alteration of cell wall pectins accompanies pea development in response to cold. <i>Phytochemistry</i> , 2014, 104, 37-47.	2.9	75
20	The transcription factor BELLRINGER modulates phyllotaxis by regulating the expression of a pectin methylesterase in <i>Arabidopsis</i> . <i>Development (Cambridge)</i> , 2011, 138, 4733-4741.	2.5	68
21	Identification of pectin methylesterase 3 as a basic pectin methylesterase isoform involved in adventitious rooting in <i>Arabidopsis thaliana</i> . <i>New Phytologist</i> , 2011, 192, 114-126.	7.3	67
22	Symplastic connection is required for bud outgrowth following dormancy in potato (<i>Solanum</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	5.7	66
23	Plant pectin acetylerase structure and function: new insights from bioinformatic analysis. <i>BMC Genomics</i> , 2017, 18, 456.	2.8	60
24	The cell wall pectic polymer rhamnogalacturonan-II is required for proper pollen tube elongation: implications of a putative sialyltransferase-like protein. <i>Annals of Botany</i> , 2014, 114, 1177-1188.	2.9	52
25	Tuning of Pectin Methylesterification. <i>Journal of Biological Chemistry</i> , 2015, 290, 23320-23335.	3.4	52
26	Combined Experimental and Computational Approaches Reveal Distinct pH Dependence of Pectin Methylesterase Inhibitors. <i>Plant Physiology</i> , 2017, 173, 1075-1093.	4.8	48
27	<i>Arabidopsis</i> PME17 Activity can be Controlled by Pectin Methylesterase Inhibitor4. <i>Plant Signaling and Behavior</i> , 2015, 10, e983351.	2.4	42
28	Purification and characterisation of a novel starch synthase selective for uridine 5â€²-diphosphate glucose from the red alga <i>Gracilaria tenuistipitata</i> . <i>Planta</i> , 1999, 209, 143-152.	3.2	40
29	The subtilisin-like protease SBT3 contributes to insect resistance in tomato. <i>Journal of Experimental Botany</i> , 2016, 67, 4325-4338.	4.8	35
30	Major changes in the cell wall during silique development in <i>Arabidopsis thaliana</i> . <i>Phytochemistry</i> , 2011, 72, 59-67.	2.9	33
31	The exogenous application of AtPGLR, an <i>endo</i> -polygalacturonase, triggers pollen tube burst and repair. <i>Plant Journal</i> , 2020, 103, 617-633.	5.7	28
32	Evidence for the Regulation of Gynoecium Morphogenesis by <i>ETTIN</i> via Cell Wall Dynamics. <i>Plant Physiology</i> , 2018, 178, 1222-1232.	4.8	25
33	NMR-based Metabolomics to Study the Cold-acclimation Strategy of Two <i>Miscanthus</i> Genotypes. <i>Phytochemical Analysis</i> , 2017, 28, 58-67.	2.4	21
34	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
35	Structural and dynamical characterization of the pH-dependence of the pectin methylesterase-pectin methylesterase inhibitor complex. <i>Journal of Biological Chemistry</i> , 2017, 292, 21538-21547.	3.4	19
36	AtPME3, a ubiquitous cell wall pectin methylesterase 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

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37	Three novel rhamnogalacturonan I-pectins degrading enzymes from <i>Aspergillus aculeatinus</i> : Biochemical characterization and application potential. <i>Carbohydrate Polymers</i> , 2020, 248, 116752.	10.2	17
38	Substrate specificity of plant and fungi pectin methylesterases: Identification of novel inhibitors of PMEs. <i>International Journal of Biological Macromolecules</i> , 2015, 81, 681-691.	7.5	15
39	New insights into the specificity and processivity of two novel pectinases from <i>Verticillium dahliae</i> . <i>International Journal of Biological Macromolecules</i> , 2021, 176, 165-176.	7.5	15
40	The pectinases from <i>Sphenophorus levis</i> : Potential for biotechnological applications. <i>International Journal of Biological Macromolecules</i> , 2018, 112, 499-508.	7.5	14
41	Analysis of LuPME3, a pectin methylesterase from <i>Linum usitatissimum</i> , revealed a variability in PME proteolytic maturation. <i>Plant Signaling and Behavior</i> , 2012, 7, 59-61.	2.4	10
42	Characterization of a novel strain of <i>Aspergillus aculeatinus</i> : From rhamnogalacturonan type I pectin degradation to improvement of fruit juice filtration. <i>Carbohydrate Polymers</i> , 2021, 262, 117943.	10.2	9
43	Pectin Degrading Enzymes. , 2020, , 37-60.		9
44	New insights into diet breadth of polyphagous and oligophagous aphids on two <i>Arabidopsis</i> ecotypes. <i>Insect Science</i> , 2019, 26, 753-769.	3.0	6
45	Lactose derivatives as potential inhibitors of pectin methylesterases. <i>International Journal of Biological Macromolecules</i> , 2019, 132, 1140-1146.	7.5	4
46	In situ ESEM using 3-D printed and adapted accessories to observe living plantlets and their interaction with enzyme and fungus. <i>Micron</i> , 2022, 153, 103185.	2.2	1