Frank Meulewaeter

List of Publications by Year
in descending order

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24 papers	884 citations	516710 16 h-index	610901 24 g-index
24 all docs	24 docs citations	24 times ranked	1096 citing authors

#	Article	IF	Citations
1	Comparative Analysis of Crystallinity Changes in Cellulose I Polymers Using ATR-FTIR, X-ray Diffraction, and Carbohydrate-Binding Module Probes. Biomacromolecules, 2011, 12, 4121-4126.	5.4	148
2	SVISS - a novel transient gene silencing system for gene function discovery and validation in tobacco plants. Plant Journal, 2002, 32, 859-866.	5.7	103
3	Chemical cationization of cotton fabric for improved dye uptake. Cellulose, 2014, 21, 4693-4706.	4.9	79
4	Genome structure of tobacco necrosis virus strain A. Virology, 1990, 177, 699-709.	2.4	62
5	5â€²- and 3â€²-sequences of satellite tobacco necrosis virus RNA promoting translation in tobacco. Plant Journal, 1998, 14, 169-176.	5.7	58
6	Heteroâ€transâ€Î²â€glucanase, an enzyme unique to Equisetum plants, functionalizes cellulose. Plant Journal, 2015, 83, 753-769.	5.7	49
7	Translation initiation factors eIF4E and eIFiso4E are required for polysome formation and regulate plant growth in tobacco. Plant Molecular Biology, 2005, 57, 749-760.	3.9	45
8	Features of the autonomous function of the translational enhancer domain of satellite tobacco necrosis virus. Rna, 1998, 4, 1347-1356.	3.5	44
9	Conservation of RNA structures enables TNV and BYDV 5' and 3' elements to cooperate synergistically in cap-independent translation. Nucleic Acids Research, 2004, 32, 1721-1730.	14.5	42
10	Hetero-trans-Î²-Glucanase Produces Celluloseâ€“Xyloglucan Covalent Bonds in the Cell Walls of Structural Plant Tissues and Is Stimulated by Expansin. Molecular Plant, 2020, 13, 1047-1062.	8.3	33
11	Analysis of the physical properties of developing cotton fibres. European Polymer Journal, 2014, 51, 57-68.	5.4	30
12	The 5??? and 3??? extremities of the satellite tobacco necrosis virus translational enhancer domain contribute differentially to stimulation of translation. Rna, 2002, 8, 229-236.	3.5	27
13	Accumulation of N-Acetylglucosamine Oligomers in the Plant Cell Wall Affects Plant Architecture in a Dose-Dependent and Conditional Manner Â Â. Plant Physiology, 2014, 165, 290-308.	4.8	25
14	Moisture sorption in developing cotton fibers. Cellulose, 2012, 19, 1517-1526.	4.9	21
15	Heteromannan and Heteroxylan Cell Wall Polysaccharides Display Different Dynamics During the Elongation and Secondary Cell Wall Deposition Phases of Cotton Fiber Cell Development. Plant and Cell Physiology, 2015, 56, 1786-1797.	3.1	21
16	Expression of Tobacco Necrosis Virus Open Reading Frames 1 and 2 Is Sufficient for the Replication of Satellite Tobacco Necrosis Virus. Virology, 1995, 212, 222-224.	2.4	20
17	Understanding the Relationship between Cotton Fiber Properties and Non-Cellulosic Cell Wall Polysaccharides. PLoS ONE, 2014, 9, e112168.	2.5	15
18	Three highly acidic Equisetum XTHs differ from hetero-trans-Î²-glucanase in donor substrate specificity and are predominantly xyloglucan homo-transglucosylases. Journal of Plant Physiology, 2020, 251, 153210.	3.5	12

#	Article	IF	Citations
19	Metabolism of polysaccharides in dynamic middle lamellae during cotton fibre development. Planta, 2019, 249, 1565-1581.	3.2	11
20	Enzymically attaching oligosaccharide-linked â€˜cargoesâ€™ to cellulose and other commercial polysaccharides via stable covalent bonds. International Journal of Biological Macromolecules, 2020, 164, 4359-4369.	7.5	10
21	Non-Cellulosic Polysaccharides from Cotton Fibre Are Differently Impacted by Textile Processing. PLoS ONE, 2014, 9, e115150.	2.5	10
22	Developmental features of cotton fibre middle lamellae in relation to cell adhesion and cell detachment in cultivars with distinct fibre qualities. BMC Plant Biology, 2017, 17, 69.	3.6	9
23	Defining natural factors that stimulate and inhibit cellulose:xyloglucan heteroâ€transglucosylation. Plant Journal, 2021, 105, 1549-1565.	5.7	6
24	Specificity of Satellite Activation by Tobacco Necrosis Virus Correlates with Nucleic Acid Hybridization Pattern between Helper Virus Isolates. Virology, 1993, 193, 971-973.	2.4	4