

Markus Pauly

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

133 papers	10,934 citations	60 h-index	103 g-index
168 ext. papers	13,034 ext. citations	7.9 avg, IF	6.18 L-index

#	Paper	IF	Citations
133	Cell-wall carbohydrates and their modification as a resource for biofuels. <i>Plant Journal</i> , 2008 , 54, 559-686.9	60.2	602
132	An Arabidopsis gene regulatory network for secondary cell wall synthesis. <i>Nature</i> , 2015 , 517, 571-5	50.4	399
131	Integrated analysis of metabolite and transcript levels reveals the metabolic shifts that underlie tomato fruit development and highlight regulatory aspects of metabolic network behavior. <i>Plant Physiology</i> , 2006 , 142, 1380-96	6.6	361
130	Disrupting two Arabidopsis thaliana xylosyltransferase genes results in plants deficient in xyloglucan, a major primary cell wall component. <i>Plant Cell</i> , 2008 , 20, 1519-37	11.6	312
129	Molecular domains of the cellulose/xyloglucan network in the cell walls of higher plants. <i>Plant Journal</i> , 1999 , 20, 629-39	6.9	284
128	Comparative transcriptomics reveals patterns of selection in domesticated and wild tomato. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E2655-62	11.5	260
127	Overexpression of pectin methylesterase inhibitors in Arabidopsis restricts fungal infection by Botrytis cinerea. <i>Plant Physiology</i> , 2007 , 143, 1871-80	6.6	251
126	Glycosyltransferases and cell wall biosynthesis: novel players and insights. <i>Current Opinion in Plant Biology</i> , 2004 , 7, 285-95	9.9	235
125	A cascade of arabinosyltransferases controls shoot meristem size in tomato. <i>Nature Genetics</i> , 2015 , 47, 784-92	36.3	229
124	Plant cell wall polymers as precursors for biofuels. <i>Current Opinion in Plant Biology</i> , 2010 , 13, 305-12	9.9	227
123	Hemicellulose biosynthesis. <i>Planta</i> , 2013 , 238, 627-42	4.7	226
122	O-glycosylated cell wall proteins are essential in root hair growth. <i>Science</i> , 2011 , 332, 1401-3	33.3	220
121	The transcription factor WIN1/SHN1 regulates Cutin biosynthesis in Arabidopsis thaliana. <i>Plant Cell</i> , 2007 , 19, 1278-94	11.6	215
120	Hydrophilic-interaction chromatography of complex carbohydrates. <i>Journal of Chromatography A</i> , 1994 , 676, 191-22	4.5	214
119	ARABINAN DEFICIENT 1 is a putative arabinosyltransferase involved in biosynthesis of pectic arabinan in Arabidopsis. <i>Plant Physiology</i> , 2006 , 140, 49-58	6.6	210
118	Comparative deep transcriptional profiling of four developing oilseeds. <i>Plant Journal</i> , 2011 , 68, 1014-276.9	20.1	201
117	A xyloglucan-specific endo-beta-1,4-glucanase from Aspergillus aculeatus: expression cloning in yeast, purification and characterization of the recombinant enzyme. <i>Glycobiology</i> , 1999 , 9, 93-100	5.8	188

116	An insect herbivore microbiome with high plant biomass-degrading capacity. <i>PLoS Genetics</i> , 2010 , 6, e1001129	172
115	Rapid structural phenotyping of plant cell wall mutants by enzymatic oligosaccharide fingerprinting. <i>Plant Physiology</i> , 2002 , 130, 1754-63	6.6 171
114	Changes in cell wall polysaccharides in developing barley (<i>Hordeum vulgare</i>) coleoptiles. <i>Planta</i> , 2005 , 221, 729-38	4.7 158
113	Overexpression of the maize <i>Corngrass1</i> microRNA prevents flowering, improves digestibility, and increases starch content of switchgrass. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 17550-5	11.5 152
112	Engineering of plant cell walls for enhanced biofuel production. <i>Current Opinion in Plant Biology</i> , 2015 , 25, 151-61	9.9 144
111	Pectin engineering: modification of potato pectin by in vivo expression of an endo-1,4-beta-D-galactanase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 7639-44	11.5 144
110	Substitution of L-fucose by L-galactose in cell walls of <i>Arabidopsis</i> mur1. <i>Science</i> , 1996 , 272, 1808-10	33.3 142
109	XAX1 from glycosyltransferase family 61 mediates xylosyltransfer to rice xylan. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 17117-22	11.5 140
108	O-acetylation of plant cell wall polysaccharides. <i>Frontiers in Plant Science</i> , 2012 , 3, 12	6.2 140
107	Loss-of-function mutation of REDUCED WALL ACETYLATION2 in <i>Arabidopsis</i> leads to reduced cell wall acetylation and increased resistance to <i>Botrytis cinerea</i> . <i>Plant Physiology</i> , 2011 , 155, 1068-78	6.6 132
106	O-acetylation of <i>Arabidopsis</i> hemicellulose xyloglucan requires AX4 or AX4L, proteins with a TBL and DUF231 domain. <i>Plant Cell</i> , 2011 , 23, 4041-53	11.6 126
105	A coumaroyl-ester-3-hydroxylase insertion mutant reveals the existence of nonredundant meta-hydroxylation pathways and essential roles for phenolic precursors in cell expansion and plant growth. <i>Plant Physiology</i> , 2006 , 140, 30-48	6.6 123
104	Rice cellulose synthase-like D4 is essential for normal cell-wall biosynthesis and plant growth. <i>Plant Journal</i> , 2009 , 60, 1055-69	6.9 122
103	Biosynthesis of the Plant Cell Wall Matrix Polysaccharide Xyloglucan. <i>Annual Review of Plant Biology</i> , 2016 , 67, 235-59	30.7 122
102	Comprehensive compositional analysis of plant cell walls (lignocellulosic biomass) part II: carbohydrates. <i>Journal of Visualized Experiments</i> , 2010 ,	1.6 121
101	Xylan O-acetylation impacts xylem development and enzymatic recalcitrance as indicated by the <i>Arabidopsis</i> mutant <i>tbl29</i> . <i>Molecular Plant</i> , 2013 , 6, 1373-5	14.4 120
100	RHM2 is involved in mucilage pectin synthesis and is required for the development of the seed coat in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2004 , 134, 286-95	6.6 113
99	Comprehensive compositional analysis of plant cell walls (Lignocellulosic biomass) part I: lignin. <i>Journal of Visualized Experiments</i> , 2010 ,	1.6 107

98	Identification of plant cell wall mutants by means of a forward chemical genetic approach using hydrolases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 14699-704	11.5	104
97	The inositol oxygenase gene family of Arabidopsis is involved in the biosynthesis of nucleotide sugar precursors for cell-wall matrix polysaccharides. <i>Planta</i> , 2005 , 221, 243-54	4.7	103
96	Identification of a xylogalacturonan xylosyltransferase involved in pectin biosynthesis in Arabidopsis. <i>Plant Cell</i> , 2008 , 20, 1289-302	11.6	100
95	The Arabidopsis root hair cell wall formation mutant lrx1 is suppressed by mutations in the RHM1 gene encoding a UDP-L-rhamnose synthase. <i>Plant Cell</i> , 2006 , 18, 1630-41	11.6	100
94	UDP-glucose 4-epimerase isoforms UGE2 and UGE4 cooperate in providing UDP-galactose for cell wall biosynthesis and growth of Arabidopsis thaliana. <i>Plant Cell</i> , 2007 , 19, 1565-79	11.6	98
93	Solution-state 2D NMR spectroscopy of plant cell walls enabled by a dimethylsulfoxide-d ₆ /1-ethyl-3-methylimidazolium acetate solvent. <i>Analytical Chemistry</i> , 2013 , 85, 3213-21	7.8	96
92	The TUMOROUS SHOOT DEVELOPMENT2 gene of Arabidopsis encoding a putative methyltransferase is required for cell adhesion and co-ordinated plant development. <i>Plant Journal</i> , 2007 , 50, 735-50	6.9	89
91	Changes in the structure of xyloglucan during cell elongation. <i>Planta</i> , 2001 , 212, 842-50	4.7	88
90	Microanalysis of plant cell wall polysaccharides. <i>Molecular Plant</i> , 2009 , 2, 922-32	14.4	86
89	Disruption of ATCSLD5 results in reduced growth, reduced xylan and homogalacturonan synthase activity and altered xylan occurrence in Arabidopsis. <i>Plant Journal</i> , 2007 , 52, 791-802	6.9	85
88	A High-Throughput Platform for Screening Milligram Quantities of Plant Biomass for Lignocellulose Digestibility. <i>Bioenergy Research</i> , 2010 , 3, 93-102	3.1	83
87	The Golgi localized bifunctional UDP-rhamnose/UDP-galactose transporter family of Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 11563-8	11.5	81
86	Pectin Biosynthesis Is Critical for Cell Wall Integrity and Immunity in Arabidopsis thaliana. <i>Plant Cell</i> , 2016 , 28, 537-56	11.6	79
85	Structural Diversity and Function of Xyloglucan Sidechain Substituents. <i>Plants</i> , 2014 , 3, 526-42	4.5	79
84	Molecular characterization of two Arabidopsis thaliana glycosyltransferase mutants, rra1 and rra2, which have a reduced residual arabinose content in a polymer tightly associated with the cellulosic wall residue. <i>Plant Molecular Biology</i> , 2007 , 64, 439-51	4.6	76
83	XTH acts at the microfibril-matrix interface during cell elongation. <i>Journal of Experimental Botany</i> , 2005 , 56, 673-83	7	75
82	O-Acetylation of plant cell wall polysaccharides: identification and partial characterization of a rhamnogalacturonan O-acetyl-transferase from potato suspension-cultured cells. <i>Planta</i> , 2000 , 210, 659-67	4.7	71
81	Arabidopsis leucine-rich repeat extensin (LRX) proteins modify cell wall composition and influence plant growth. <i>BMC Plant Biology</i> , 2015 , 15, 155	5.3	65

80	AXY8 encodes an β -fucosidase, underscoring the importance of apoplastic metabolism on the fine structure of Arabidopsis cell wall polysaccharides. <i>Plant Cell</i> , 2011 , 23, 4025-40	11.6	64
79	Monitoring Polysaccharide Dynamics in the Plant Cell Wall. <i>Plant Physiology</i> , 2018 , 176, 2590-2600	6.6	61
78	Potential role for purple acid phosphatase in the dephosphorylation of wall proteins in tobacco cells. <i>Plant Physiology</i> , 2010 , 153, 603-10	6.6	61
77	Reduced Wall Acetylation proteins play vital and distinct roles in cell wall O-acetylation in Arabidopsis. <i>Plant Physiology</i> , 2013 , 163, 1107-17	6.6	60
76	A β -glucuronosyltransferase from Arabidopsis thaliana involved in biosynthesis of type III arabinogalactan has a role in cell elongation during seedling growth. <i>Plant Journal</i> , 2013 , 76, 1016-29	6.9	60
75	RNA-Seq analysis of developing nasturtium seeds (<i>Tropaeolum majus</i>): identification and characterization of an additional galactosyltransferase involved in xyloglucan biosynthesis. <i>Molecular Plant</i> , 2012 , 5, 984-92	14.4	60
74	Interactions between MUR10/CesA7-dependent secondary cellulose biosynthesis and primary cell wall structure. <i>Plant Physiology</i> , 2006 , 142, 1353-63	6.6	60
73	The role of the plant-specific ALTERED XYLOGLUCAN9 protein in Arabidopsis cell wall polysaccharide O-acetylation. <i>Plant Physiology</i> , 2015 , 167, 1271-83	6.6	59
72	Deep sequencing of voodoo lily (<i>Amorphophallus konjac</i>): an approach to identify relevant genes involved in the synthesis of the hemicellulose glucomannan. <i>Planta</i> , 2011 , 234, 515-26	4.7	59
71	AXY3 encodes a β -xylosidase that impacts the structure and accessibility of the hemicellulose xyloglucan in Arabidopsis plant cell walls. <i>Planta</i> , 2011 , 233, 707-19	4.7	58
70	Direct interference with rhamnogalacturonan I biosynthesis in Golgi vesicles. <i>Plant Physiology</i> , 2002 , 129, 95-102	6.6	57
69	COBRA-LIKE2, a member of the glycosylphosphatidylinositol-anchored COBRA-LIKE family, plays a role in cellulose deposition in arabidopsis seed coat mucilage secretory cells. <i>Plant Physiology</i> , 2015 , 167, 711-24	6.6	55
68	Polysaccharides from grape berry cell walls. Part II. Structural characterization of the xyloglucan polysaccharides. <i>Carbohydrate Polymers</i> , 2003 , 53, 253-261	10.3	53
67	The influence of cytosolic phosphoglucomutase on photosynthetic carbohydrate metabolism. <i>Planta</i> , 2002 , 215, 1013-21	4.7	52
66	Effects of the mur1 mutation on xyloglucans produced by suspension-cultured Arabidopsis thaliana cells. <i>Planta</i> , 2001 , 214, 67-74	4.7	51
65	Two Trichome Birefringence-Like Proteins Mediate Xylan Acetylation, Which Is Essential for Leaf Blight Resistance in Rice. <i>Plant Physiology</i> , 2017 , 173, 470-481	6.6	48
64	Structural characterization of novel L-galactose-containing oligosaccharide subunits of jojoba seed xyloglucans. <i>Carbohydrate Research</i> , 1997 , 304, 11-20	2.9	48
63	Identification and Characterization of a Golgi-Localized UDP-Xylose Transporter Family from Arabidopsis. <i>Plant Cell</i> , 2015 , 27, 1218-27	11.6	46

62	The glycan substrate of the cytosolic (Pho 2) phosphorylase isozyme from <i>Pisum sativum</i> L.: identification, linkage analysis and subcellular localization. <i>Plant Journal</i> , 2004 , 39, 933-46	6.9	45
61	Pectin may hinder the unfolding of xyloglucan chains during cell deformation: implications of the mechanical performance of <i>Arabidopsis</i> hypocotyls with pectin alterations. <i>Molecular Plant</i> , 2009 , 2, 990-9	14.4	44
60	Aqueous-ammonia delignification of miscanthus followed by enzymatic hydrolysis to sugars. <i>Bioresource Technology</i> , 2013 , 135, 23-9	11	42
59	Analysis of cytosolic heteroglycans from leaves of transgenic potato (<i>Solanum tuberosum</i> L.) plants that under- or overexpress the Pho 2 phosphorylase isozyme. <i>Plant and Cell Physiology</i> , 2005 , 46, 1987-2004	10.4	41
58	Identification and functional characterization of the distinct plant pectin esterases PAE8 and PAE9 and their deletion mutants. <i>Planta</i> , 2014 , 240, 1123-38	4.7	40
57	Identification and characterization of a UDP-D-glucuronate 4-epimerase in <i>Arabidopsis</i> . <i>FEBS Letters</i> , 2004 , 569, 327-31	3.8	39
56	The <i>Arabidopsis</i> Golgi-localized GDP-L-fucose transporter is required for plant development. <i>Nature Communications</i> , 2016 , 7, 12119	17.4	38
55	Functional cloning of an endo-arabinanase from <i>Aspergillus aculeatus</i> and its heterologous expression in <i>A. oryzae</i> and tobacco. <i>Molecular Genetics and Genomics</i> , 2001 , 265, 913-21	3.1	38
54	Arabinosylation of a Yariv-precipitable cell wall polymer impacts plant growth as exemplified by the <i>Arabidopsis</i> glycosyltransferase mutant ray1. <i>Molecular Plant</i> , 2013 , 6, 1369-72	14.4	37
53	Quantitative trait loci analysis of primary cell wall composition in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2006 , 141, 1035-44	6.6	35
52	New Insights Into Wall Polysaccharide -Acetylation. <i>Frontiers in Plant Science</i> , 2018 , 9, 1210	6.2	34
51	Correction for Chuck et al., Overexpression of the maize <i>Corngrass1</i> microRNA prevents flowering, improves digestibility, and increases starch content of switchgrass. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 995-995	11.5	32
50	The identification of two arabinosyltransferases from tomato reveals functional equivalency of xyloglucan side chain substituents. <i>Plant Physiology</i> , 2013 , 163, 86-94	6.6	30
49	Metabolism of xyloglucan generates xylose-deficient oligosaccharide subunits of this polysaccharide in etiolated peas. <i>Carbohydrate Research</i> , 1995 , 277, 291-311	2.9	30
48	Inhibition of UV-induced immune suppression and interleukin-10 production by plant oligosaccharides and polysaccharides. <i>Photochemistry and Photobiology</i> , 1999 , 69, 141-7	3.6	30
47	The Maize MID-COMPLEMENTING ACTIVITY Homolog CELL NUMBER REGULATOR13/NARROW ODD DWARF Coordinates Organ Growth and Tissue Patterning. <i>Plant Cell</i> , 2017 , 29, 474-490	11.6	29
46	Sequencing and functional validation of the JGI <i>Brachypodium distachyon</i> T-DNA collection. <i>Plant Journal</i> , 2017 , 91, 361-370	6.9	29
45	Structural Modifications of Fructans in <i>Aloe barbadensis</i> Miller (Aloe Vera) Grown under Water Stress. <i>PLoS ONE</i> , 2016 , 11, e0159819	3.7	28

44	The presence of fucogalactoxyloglucan and its synthesis in rice indicates conserved functional importance in plants. <i>Plant Physiology</i> , 2015 , 168, 549-60	6.6	25
43	<i>Arabidopsis thaliana</i> AtUTr7 encodes a golgi-localized UDP-glucose/UDP-galactose transporter that affects lateral root emergence. <i>Molecular Plant</i> , 2012 , 5, 1263-80	14.4	25
42	SHOU4 Proteins Regulate Trafficking of Cellulose Synthase Complexes to the Plasma Membrane. <i>Current Biology</i> , 2018 , 28, 3174-3182.e6	6.3	25
41	Structural characterization of chemically and enzymatically derived standard oligosaccharides isolated from partially purified tamarind xyloglucan. <i>Carbohydrate Polymers</i> , 2003 , 51, 347-356	10.3	24
40	Glucuronic Acid Moieties on Xylan Are Functionally Equivalent to O-Acetyl-Substituents. <i>Molecular Plant</i> , 2015 , 8, 1119-21	14.4	23
39	Enzymatic synthesis and purification of uridine diphospho-beta-l-arabinopyranose, a substrate for the biosynthesis of plant polysaccharides. <i>Analytical Biochemistry</i> , 2000 , 278, 69-73	3.1	23
38	Identification and evolution of a plant cell wall specific glycoprotein glycosyl transferase, ExAD. <i>Scientific Reports</i> , 2017 , 7, 45341	4.9	22
37	A DUF-246 family glycosyltransferase-like gene affects male fertility and the biosynthesis of pectic arabinogalactans. <i>BMC Plant Biology</i> , 2016 , 16, 90	5.3	22
36	OLIGO mass profiling (OLIMP) of extracellular polysaccharides. <i>Journal of Visualized Experiments</i> , 2010 ,	1.6	22
35	Improved protocol for the formation of N-(p-nitrobenzyloxy)aminoalditol derivatives of oligosaccharides. <i>Carbohydrate Research</i> , 1996 , 282, 1-12	2.9	22
34	Oligosaccharide mass profiling (OLIMP) of cell wall polysaccharides by MALDI-TOF/MS. <i>Methods in Molecular Biology</i> , 2011 , 715, 43-54	1.4	21
33	Testing equality of correlation coefficients in two populations via permutation methods. <i>Journal of Statistical Planning and Inference</i> , 2012 , 142, 1396-1406	0.8	20
32	Downregulation of Maize Cinnamoyl-Coenzyme A Reductase via RNA Interference Technology Causes Brown Midrib and Improves Ammonia Fiber Expansion-Pretreated Conversion into Fermentable Sugars for Biofuels. <i>Crop Science</i> , 2012 , 52, 2687-2701	2.4	20
31	Solubilization of galactosyltransferase that synthesizes 1,4-beta-galactan side chains in pectic rhamnogalacturonan I. <i>Physiologia Plantarum</i> , 2002 , 114, 540-548	4.6	17
30	Mechanistic insights from plant heteromannan synthesis in yeast. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 522-527	11.5	17
29	Nitric-acid hydrolysis of <i>Miscanthus giganteus</i> to sugars fermented to bioethanol. <i>Biotechnology and Bioprocess Engineering</i> , 2015 , 20, 304-314	3.1	16
28	A Xyloglucan Backbone 6-O-Acetyltransferase from <i>Brachypodium distachyon</i> Modulates Xyloglucan Xylosylation. <i>Molecular Plant</i> , 2016 , 9, 615-7	14.4	15
27	A sorghum NAC gene is associated with variation in biomass properties and yield potential. <i>Plant Direct</i> , 2018 , 2, e00070	3.3	15

26	Broad spectrum developmental role of Brachypodium AUX1. <i>New Phytologist</i> , 2018 , 219, 1216-1223	9.8	14
25	Deposition of lignin in four species of Saccharum. <i>Scientific Reports</i> , 2019 , 9, 5877	4.9	13
24	The synthesis of xyloglucan, an abundant plant cell wall polysaccharide, requires CSLC function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 20316-20324	11.5	13
23	High-throughput functional assessment of polysaccharide-active enzymes using matrix-assisted laser desorption/ionization-time-of-flight mass spectrometry as exemplified on plant cell wall polysaccharides. <i>Analytical Biochemistry</i> , 2008 , 373, 9-17	3.1	12
22	The EgMUR3 xyloglucan galactosyltransferase from Eucalyptus grandis complements the mur3 cell wall phenotype in Arabidopsis thaliana. <i>Tree Genetics and Genomes</i> , 2010 , 6, 745-756	2.1	11
21	Transcriptional co-response analysis as a tool to identify new components of the wall biosynthetic machinery. <i>Plant Biosystems</i> , 2005 , 139, 69-73	1.6	11
20	Two-Step Delignification of Miscanthus To Enhance Enzymatic Hydrolysis: Aqueous Ammonia Followed by Sodium Hydroxide and Oxidants. <i>Energy & Fuels</i> , 2014 , 28, 542-548	4.1	10
19	Inducible expression of Pisum sativum xyloglucan fucosyltransferase in the pea root cap meristem, and effects of antisense mRNA expression on root cap cell wall structural integrity. <i>Plant Cell Reports</i> , 2008 , 27, 1125-35	5.1	10
18	Preservation of the delayed-type hypersensitivity response to alloantigen by xyloglucans or oligogalacturonide does not correlate with the capacity to reject ultraviolet-induced skin tumors in mice. <i>Journal of Investigative Dermatology</i> , 2001 , 116, 62-8	4.3	10
17	Comparative genomics of pectinacetyltransferases: Insight on function and biology. <i>Plant Signaling and Behavior</i> , 2015 , 10, e1055434	2.5	9
16	Growth- and stress-related defects associated with wall hypoacetylation are strigolactone-dependent. <i>Plant Direct</i> , 2018 , 2, e00062	3.3	9
15	Expression of heterologous xyloglucan xylosyltransferases in Arabidopsis to investigate their role in determining xyloglucan xylosylation substitution patterns. <i>Planta</i> , 2015 , 241, 1145-58	4.7	8
14	OrganoCat Fractionation of Empty Fruit Bunches from Palm Trees into Lignin, Sugars, and Cellulose-Enriched Pulp. <i>ACS Omega</i> , 2019 , 4, 14451-14457	3.9	7
13	Identification of an arabinopyranosyltransferase from involved in the synthesis of the hemicellulose xyloglucan. <i>Plant Direct</i> , 2018 , 2, e00046	3.3	6
12	Hemicelluloses and Cell Expansion 2006 , 57-88		6
11	Multiscale analysis of lignocellulose recalcitrance towards OrganoCat pretreatment and fractionation. <i>Biotechnology for Biofuels</i> , 2020 , 13, 155	7.8	6
10	A mixed-linkage (1,3;1,4)-D-glucan specific hydrolase mediates dark-triggered degradation of this plant cell wall polysaccharide. <i>Plant Physiology</i> , 2021 , 185, 1559-1573	6.6	4
9	Genetic dissection of cell wall defects and the strigolactone pathway in Arabidopsis. <i>Plant Direct</i> , 2019 , 3, e00149	3.3	3

8	The TaCslA12 gene expressed in the wheat grain endosperm synthesizes wheat-like mannan when expressed in yeast and Arabidopsis. <i>Plant Science</i> , 2021 , 302, 110693	5.3	3
7	Regulation of acetylation of plant cell wall components is complex and responds to external stimuli. <i>Plant Signaling and Behavior</i> , 2020 , 15, 1687185	2.5	2
6	The Suitability of Orthogonal Hosts to Study Plant Cell Wall Biosynthesis. <i>Plants</i> , 2019 , 8,	4.5	2
5	Dissection of Plant Cell Walls by High-Throughput Methods43-64		1
4	An advanced method for the release, enrichment and purification of high-quality Arabidopsis thaliana rosette leaf trichomes enables profound insights into the trichome proteome.. <i>Plant Methods</i> , 2022 , 18, 12	5.8	0
3	Microwave Assisted Pretreatment of Biomass to Enhance Enzymatic Saccharification and Direct Glucose Production.. <i>Frontiers in Plant Science</i> , 2021 , 12, 767254	6.2	0
2	Modular biosynthesis of plant hemicellulose and its impact on yeast cells. <i>Biotechnology for Biofuels</i> , 2021 , 14, 140	7.8	0
1	Dissection of Plant Cell Walls by High-Throughput Methods 2018 , 43-64		