

# William G T Willats

## List of Publications by Year in Descending Order

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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.

160  
papers

9,868  
citations

52  
h-index

96  
g-index

163  
ext. papers

11,568  
ext. citations

6.4  
avg, IF

6.01  
L-index

#	Paper	IF	Citations
160	Commercial Yeast Strains Expressing Polygalacturonase and Glucanase Unravel the Cell Walls of Chardonnay Grape Pomace. <i>Biology</i> , <b>2022</b> , 11, 664	4.9	
159	Removal of eDNA from fabrics using a novel laundry DNase revealed using high-resolution imaging. <i>Scientific Reports</i> , <b>2021</b> , 11, 21542	4.9	1
158	Untangling the impact of red wine maceration times on wine ageing. A multidisciplinary approach focusing on extended maceration in Shiraz wines. <i>Food Research International</i> , <b>2021</b> , 150, 110697	7	0
157	Ancient origin of fucosylated xyloglucan in charophycean green algae. <i>Communications Biology</i> , <b>2021</b> , 4, 754	6.7	4
156	Analytical implications of different methods for preparing plant cell wall material. <i>Carbohydrate Polymers</i> , <b>2021</b> , 261, 117866	10.3	0
155	Tracking cell wall changes in wine and table grapes undergoing <i>Botrytis cinerea</i> infection using glycan microarrays. <i>Annals of Botany</i> , <b>2021</b> , 128, 527-543	4.1	1
154	Diatom fucan polysaccharide precipitates carbon during algal blooms. <i>Nature Communications</i> , <b>2021</b> , 12, 1150	17.4	12
153	Adaptation of <i>Arabidopsis halleri</i> to extreme metal pollution through limited metal accumulation involves changes in cell wall composition and metal homeostasis. <i>New Phytologist</i> , <b>2021</b> , 230, 669-682	9.8	6
152	Differences in berry skin and pulp cell wall polysaccharides from ripe and overripe Shiraz grapes evaluated using glycan profiling reveals extensin-rich flesh. <i>Food Chemistry</i> , <b>2021</b> , 363, 130180	8.5	1
151	High-resolution 3D mapping of rhizosphere glycan patterning using molecular probes in a transparent soil system. <i>Cell Surface</i> , <b>2021</b> , 7, 100059	4.8	2
150	Analysis of Plant Cell Walls Using High-Throughput Profiling Techniques with Multivariate Methods. <i>Methods in Molecular Biology</i> , <b>2020</b> , 2149, 327-337	1.4	
149	The impact of carbohydrate-active enzymes on mediating cell wall polysaccharide-tannin interactions in a wine-like matrix. <i>Food Research International</i> , <b>2020</b> , 129, 108889	7	7
148	Overexpression of VviPGIP1 and NtCAD14 in Tobacco Screened Using Glycan Microarrays Reveals Cell Wall Reorganisation in the Absence of Fungal Infection. <i>Vaccines</i> , <b>2020</b> , 8,	5.3	1
147	Microbiota-directed fibre activates both targeted and secondary metabolic shifts in the distal gut. <i>Nature Communications</i> , <b>2020</b> , 11, 5773	17.4	24
146	Combinatorial Glycomic Analyses to Direct CAzyme Discovery for the Tailored Degradation of Canola Meal Non-Starch Dietary Polysaccharides. <i>Microorganisms</i> , <b>2020</b> , 8,	4.9	3
145	Understanding Changes in Tomato Cell Walls in Roots and Fruits: The Contribution of Arbuscular Mycorrhizal Colonization. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	6
144	Tracking polysaccharides during white winemaking using glycan microarrays reveals glycoprotein-rich sediments. <i>Food Research International</i> , <b>2019</b> , 123, 662-673	7	3

143	Detection of Seasonal Variation in Polysaccharides Using Carbohydrate Detecting Microarrays. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 512	6.2	3
142	Metabolism of polysaccharides in dynamic middle lamellae during cotton fibre development. <i>Planta</i> , <b>2019</b> , 249, 1565-1581	4.7	4
141	Separating Golgi Proteins from to Reveals Underlying Properties of Cisternal Localization. <i>Plant Cell</i> , <b>2019</b> , 31, 2010-2034	11.6	21
140	Extensin arabinoside chain length is modulated in elongating cotton fibre. <i>Cell Surface</i> , <b>2019</b> , 5, 100033	4.8	5
139	Investigating the relationship between cell wall polysaccharide composition and the extractability of grape phenolic compounds into Shiraz wines. Part II: Extractability during fermentation into wines made from grapes of different ripeness levels. <i>Food Chemistry</i> , <b>2019</b> , 278, 26-35	8.5	22
138	Investigating the relationship between grape cell wall polysaccharide composition and the extractability of phenolic compounds into Shiraz wines. Part I: Vintage and ripeness effects. <i>Food Chemistry</i> , <b>2019</b> , 278, 36-46	8.5	21
137	Polyploidy Affects Plant Growth and Alters Cell Wall Composition. <i>Plant Physiology</i> , <b>2019</b> , 179, 74-87	6.6	67
136	Structural basis for the role of serine-rich repeat proteins from in gut microbe-host interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E2706-E2715	11.5	24
135	Double blind microarray-based polysaccharide profiling enables parallel identification of uncharacterized polysaccharides and carbohydrate-binding proteins with unknown specificities. <i>Scientific Reports</i> , <b>2018</b> , 8, 2500	4.9	10
134	Synthesis of branched and linear 1,4-linked galactan oligosaccharides. <i>Organic and Biomolecular Chemistry</i> , <b>2018</b> , 16, 1157-1162	3.9	4
133	The impact of silicon on cell wall composition and enzymatic saccharification of. <i>Biotechnology for Biofuels</i> , <b>2018</b> , 11, 171	7.8	29
132	Branched Pectic Galactan in Phloem-Sieve-Element Cell Walls: Implications for Cell Mechanics. <i>Plant Physiology</i> , <b>2018</b> , 176, 1547-1558	6.6	39
131	Analyses of Polysaccharides Using Carbohydrate Microarray Profiling. <i>Journal of AOAC INTERNATIONAL</i> , <b>2018</b> , 101, 1720-1728	1.7	8
130	The Three Members of the Arabidopsis Glycosyltransferase Family 92 are Functional $\beta$ 1,4-Galactan Synthases. <i>Plant and Cell Physiology</i> , <b>2018</b> , 59, 2624-2636	4.9	16
129	Interspecies cross-feeding orchestrates carbon degradation in the rumen ecosystem. <i>Nature Microbiology</i> , <b>2018</b> , 3, 1274-1284	26.6	70
128	Tracking polysaccharides through the brewing process. <i>Carbohydrate Polymers</i> , <b>2018</b> , 196, 465-473	10.3	13
127	Dissection of Plant Cell Walls by High-Throughput Methods <b>2018</b> , 43-64		
126	Three Pectin Methyltransferase Inhibitors Protect Cell Wall Integrity for Arabidopsis Immunity to. <i>Plant Physiology</i> , <b>2017</b> , 173, 1844-1863	6.6	96

125	Pea Border Cell Maturation and Release Involve Complex Cell Wall Structural Dynamics. <i>Plant Physiology</i> , <b>2017</b> , 174, 1051-1066	6.6	21
124	Combining hydrothermal pretreatment with enzymes de-pectinates and exposes the innermost xyloglucan-rich hemicellulose layers of wine grape pomace. <i>Food Chemistry</i> , <b>2017</b> , 232, 340-350	8.5	15
123	An oligogalacturonide-derived molecular probe demonstrates the dynamics of calcium-mediated pectin complexation in cell walls of tip-growing structures. <i>Plant Journal</i> , <b>2017</b> , 91, 534-546	6.9	24
122	Development of novel monoclonal antibodies against starch and ulvan - implications for antibody production against polysaccharides with limited immunogenicity. <i>Scientific Reports</i> , <b>2017</b> , 7, 9326	4.9	15
121	Exploring the Glycans of <i>Euglena gracilis</i> . <i>Biology</i> , <b>2017</b> , 6,	4.9	19
120	Click chemistry-based tracking reveals putative cell wall-located auxin binding sites in expanding cells. <i>Scientific Reports</i> , <b>2017</b> , 7, 15988	4.9	11
119	Synthesis and Application of Branched Type II Arabinogalactans. <i>Journal of Organic Chemistry</i> , <b>2017</b> , 82, 12066-12084	4.2	9
118	Insoluble (1 → 3), (1 → 4)-D-glucan is a component of cell walls in brown algae (Phaeophyceae) and is masked by alginates in tissues. <i>Scientific Reports</i> , <b>2017</b> , 7, 2880	4.9	46
117	Prediction of Pectin Yield and Quality by FTIR and Carbohydrate Microarray Analysis. <i>Food and Bioprocess Technology</i> , <b>2017</b> , 10, 143-154	5.1	29
116	Microarray Glycan Profiling Reveals Algal Fucoidan Epitopes in Diverse Marine Metazoans. <i>Frontiers in Marine Science</i> , <b>2017</b> , 4,	4.5	3
115	Genome-wide association mapping in winter barley for grain yield and culm cell wall polymer content using the high-throughput CoMPP technique. <i>PLoS ONE</i> , <b>2017</b> , 12, e0173313	3.7	17
114	Dissecting the polysaccharide-rich grape cell wall matrix using recombinant pectinases during winemaking. <i>Carbohydrate Polymers</i> , <b>2016</b> , 152, 510-519	10.3	24
113	High-throughput Screening of Carbohydrate-degrading Enzymes Using Novel Insoluble Chromogenic Substrate Assay Kits. <i>Journal of Visualized Experiments</i> , <b>2016</b> ,	1.6	3
112	Complexity of the <i>Ruminococcus flavefaciens</i> cellulosome reflects an expansion in glycan recognition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 7136-41	11.5	40
111	Understanding CrRLK1L Function: Cell Walls and Growth Control. <i>Trends in Plant Science</i> , <b>2016</b> , 21, 516-527	13.1	88
110	Synthesis of E1,4-Linked Galactan Side-Chains of Rhamnogalacturonan I. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 11543-8	4.8	21
109	Arabinogalactan proteins have deep roots in eukaryotes: identification of genes and epitopes in brown algae and their role in <i>Fucus serratus</i> embryo development. <i>New Phytologist</i> , <b>2016</b> , 209, 1428-41	9.8	48
108	Characterization of the LM5 pectic galactan epitope with synthetic analogues of E1,4-d-galactotetraose. <i>Carbohydrate Research</i> , <b>2016</b> , 436, 36-40	2.9	22

107	Effect of Commercial Enzymes on Berry Cell Wall Deconstruction in the Context of Intravineyard Ripeness Variation under Winemaking Conditions. <i>Journal of Agricultural and Food Chemistry</i> , <b>2016</b> , 64, 3862-72	5.7	13
106	Understanding plant cell-wall remodelling during the symbiotic interaction between <i>Tuber melanosporum</i> and <i>Corylus avellana</i> using a carbohydrate microarray. <i>Planta</i> , <b>2016</b> , 244, 347-59	4.7	17
105	Cell Wall Composition and Candidate Biosynthesis Gene Expression During Rice Development. <i>Plant and Cell Physiology</i> , <b>2016</b> , 57, 2058-2075	4.9	11
104	Dissecting the polysaccharide-rich grape cell wall changes during winemaking using combined high-throughput and fractionation methods. <i>Carbohydrate Polymers</i> , <b>2015</b> , 133, 567-77	10.3	37
103	Recognition of xyloglucan by the crystalline cellulose-binding site of a family 3a carbohydrate-binding module. <i>FEBS Letters</i> , <b>2015</b> , 589, 2297-303	3.8	39
102	Identification and Characterization of a Golgi-Localized UDP-Xylose Transporter Family from <i>Arabidopsis</i> . <i>Plant Cell</i> , <b>2015</b> , 27, 1218-27	11.6	46
101	Antibody-based screening of cell wall matrix glycans in ferns reveals taxon, tissue and cell-type specific distribution patterns. <i>BMC Plant Biology</i> , <b>2015</b> , 15, 56	5.3	26
100	Resistant starch diet induces change in the swine microbiome and a predominance of beneficial bacterial populations. <i>Microbiome</i> , <b>2015</b> , 3, 16	16.6	87
99	A multivariate approach for high throughput pectin profiling by combining glycan microarrays with monoclonal antibodies. <i>Carbohydrate Research</i> , <b>2015</b> , 409, 41-7	2.9	8
98	The Deconstruction of Pectic Rhamnogalacturonan I Unmasks the Occurrence of a Novel Arabinogalactan Oligosaccharide Epitope. <i>Plant and Cell Physiology</i> , <b>2015</b> , 56, 2181-96	4.9	24
97	Monoclonal antibodies indicate low-abundance links between heteroxylan and other glycans of plant cell walls. <i>Planta</i> , <b>2015</b> , 242, 1321-34	4.7	43
96	Profiling the Hydrolysis of Isolated Grape Berry Skin Cell Walls by Purified Enzymes. <i>Journal of Agricultural and Food Chemistry</i> , <b>2015</b> , 63, 8267-74	5.7	18
95	Heteromannan and Heteroxylan Cell Wall Polysaccharides Display Different Dynamics During the Elongation and Secondary Cell Wall Deposition Phases of Cotton Fiber Cell Development. <i>Plant and Cell Physiology</i> , <b>2015</b> , 56, 1786-97	4.9	18
94	Cell wall composition profiling of parasitic giant dodder ( <i>Cuscuta reflexa</i> ) and its hosts: a priori differences and induced changes. <i>New Phytologist</i> , <b>2015</b> , 207, 805-16	9.8	34
93	Multi-omics analysis identifies genes mediating the extension of cell walls in the <i>Arabidopsis thaliana</i> root elongation zone. <i>Frontiers in Cell and Developmental Biology</i> , <b>2015</b> , 3, 10	5.7	25
92	Structural characterization of a mixed-linkage glucan deficient mutant reveals alteration in cellulose microfibril orientation in rice coleoptile mesophyll cell walls. <i>Frontiers in Plant Science</i> , <b>2015</b> , 6, 628	6.2	16
91	A new versatile microarray-based method for high throughput screening of carbohydrate-active enzymes. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 9020-36	5.4	42
90	SnRK1 from <i>Arabidopsis thaliana</i> is an atypical AMPK. <i>Plant Journal</i> , <b>2015</b> , 82, 183-92	6.9	84

89	Following the compositional changes of fresh grape skin cell walls during the fermentation process in the presence and absence of maceration enzymes. <i>Journal of Agricultural and Food Chemistry</i> , <b>2015</b> , 63, 2798-810	5.7	37
88	<i>Penium margaritaceum</i> as a model organism for cell wall analysis of expanding plant cells. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1242, 1-21	1.4	6
87	In vitro Biochemical Characterization of All Barley Endosperm Starch Synthases. <i>Frontiers in Plant Science</i> , <b>2015</b> , 6, 1265	6.2	32
86	Application of enzymes for efficient extraction, modification, and development of functional properties of lime pectin. <i>Food Hydrocolloids</i> , <b>2014</b> , 40, 273-282	10.6	70
85	Discovery of LPMO activity on hemicelluloses shows the importance of oxidative processes in plant cell wall degradation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 6287-92	11.5	289
84	Profiling the main cell wall polysaccharides of grapevine leaves using high-throughput and fractionation methods. <i>Carbohydrate Polymers</i> , <b>2014</b> , 99, 190-8	10.3	26
83	Tracking developmentally regulated post-synthetic processing of homogalacturonan and chitin using reciprocal oligosaccharide probes. <i>Development (Cambridge)</i> , <b>2014</b> , 141, 4841-50	6.6	56
82	Evidence for land plant cell wall biosynthetic mechanisms in charophyte green algae. <i>Annals of Botany</i> , <b>2014</b> , 114, 1217-36	4.1	55
81	Range of cell-wall alterations enhance saccharification in <i>Brachypodium distachyon</i> mutants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 14601-6	11.5	47
80	Comparative glycan profiling of <i>Ceratopteris richardii</i> $\mathcal{R}$ -FernRgametophytes and sporophytes links cell-wall composition to functional specialization. <i>Annals of Botany</i> , <b>2014</b> , 114, 1295-307	4.1	16
79	Pectic-(1,4)-galactan, extensin and arabinogalactan-protein epitopes differentiate ripening stages in wine and table grape cell walls. <i>Annals of Botany</i> , <b>2014</b> , 114, 1279-94	4.1	43
78	Assessment of leaf/stem ratio in wheat straw feedstock and impact on enzymatic conversion. <i>GCB Bioenergy</i> , <b>2014</b> , 6, 90-96	5.6	31
77	Understanding the relationship between cotton fiber properties and non-cellulosic cell wall polysaccharides. <i>PLoS ONE</i> , <b>2014</b> , 9, e112168	3.7	13
76	Pectin metabolism and assembly in the cell wall of the charophyte green alga <i>Penium margaritaceum</i> . <i>Plant Physiology</i> , <b>2014</b> , 165, 105-18	6.6	76
75	<i>Escherichia coli</i> common pilus (ECP) targets arabinosyl residues in plant cell walls to mediate adhesion to fresh produce plants. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 34349-65	5.4	20
74	Flagella interact with ionic plant lipids to mediate adherence of pathogenic <i>Escherichia coli</i> to fresh produce plants. <i>Environmental Microbiology</i> , <b>2014</b> , 16, 2181-95	5.2	32
73	Stable transformation and reverse genetic analysis of <i>Penium margaritaceum</i> : a platform for studies of charophyte green algae, the immediate ancestors of land plants. <i>Plant Journal</i> , <b>2014</b> , 77, 339-51	6.9	45
72	Disruption of the microtubule network alters cellulose deposition and causes major changes in pectin distribution in the cell wall of the green alga, <i>Penium margaritaceum</i> . <i>Journal of Experimental Botany</i> , <b>2014</b> , 65, 465-79	7	22

71	The role of the cell wall in plant immunity. <i>Frontiers in Plant Science</i> , <b>2014</b> , 5, 178	6.2	267
70	Non-cellulosic polysaccharides from cotton fibre are differently impacted by textile processing. <i>PLoS ONE</i> , <b>2014</b> , 9, e115150	3.7	8
69	Overexpression of the grapevine PGIP1 in tobacco results in compositional changes in the leaf arabinoxyloglucan network in the absence of fungal infection. <i>BMC Plant Biology</i> , <b>2013</b> , 13, 46	5.3	23
68	Arabinose-rich polymers as an evolutionary strategy to plasticize resurrection plant cell walls against desiccation. <i>Planta</i> , <b>2013</b> , 237, 739-54	4.7	98
67	A bacterial glucanotransferase can replace the complex maltose metabolism required for starch to sucrose conversion in leaves at night. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 28581-98	5.4	28
66	Inactivation of OsIRX10 leads to decreased xylan content in rice culm cell walls and improved biomass saccharification. <i>Molecular Plant</i> , <b>2013</b> , 6, 570-3	14.4	33
65	Glycan profiling of plant cell wall polymers using microarrays. <i>Journal of Visualized Experiments</i> , <b>2012</b> , e4238	1.6	17
64	Carbohydrate microarrays in plant science. <i>Methods in Molecular Biology</i> , <b>2012</b> , 918, 351-62	1.4	11
63	Substituent-specific antibody against glucuronoxylan reveals close association of glucuronic acid and acetyl substituents and distinct labeling patterns in tree species. <i>Planta</i> , <b>2012</b> , 236, 739-51	4.7	25
62	Versatile high resolution oligosaccharide microarrays for plant glycobiology and cell wall research. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 39429-38	5.4	168
61	The glycosyltransferase repertoire of the spikemoss <i>Selaginella moellendorffii</i> and a comparative study of its cell wall. <i>PLoS ONE</i> , <b>2012</b> , 7, e35846	3.7	52
60	Profiling the main cell wall polysaccharides of tobacco leaves using high-throughput and fractionation techniques. <i>Carbohydrate Polymers</i> , <b>2012</b> , 88, 939-949	10.3	29
59	The Cell Walls of Green Algae: A Journey through Evolution and Diversity. <i>Frontiers in Plant Science</i> , <b>2012</b> , 3, 82	6.2	234
58	Cell wall evolution and diversity. <i>Frontiers in Plant Science</i> , <b>2012</b> , 3, 152	6.2	75
57	The Charophycean green algae as model systems to study plant cell walls and other evolutionary adaptations that gave rise to land plants. <i>Plant Signaling and Behavior</i> , <b>2012</b> , 7, 1-3	2.5	100
56	Two SusD-like proteins encoded within a polysaccharide utilization locus of an uncultured ruminant Bacteroidetes phylotype bind strongly to cellulose. <i>Applied and Environmental Microbiology</i> , <b>2012</b> , 78, 5935-7	4.8	26
55	A putative <i>Arabidopsis thaliana</i> glycosyltransferase, At4g01220, which is closely related to three plant cell wall-specific xylosyltransferases, is differentially expressed spatially and temporally. <i>Plant Science</i> , <b>2011</b> , 180, 470-9	5.3	9
54	Screening and characterization of plant cell walls using carbohydrate microarrays. <i>Methods in Molecular Biology</i> , <b>2011</b> , 715, 115-21	1.4	15



53	The dynamics of plant cell-wall polysaccharide decomposition in leaf-cutting ant fungus gardens. <i>PLoS ONE</i> , <b>2011</b> , 6, e17506	3.7	36
52	The cooperative activities of CSLD2, CSLD3, and CSLD5 are required for normal Arabidopsis development. <i>Molecular Plant</i> , <b>2011</b> , 4, 1024-37	14.4	73
51	The charophycean green algae provide insights into the early origins of plant cell walls. <i>Plant Journal</i> , <b>2011</b> , 68, 201-11	6.9	172
50	Evolution and diversity of plant cell walls: from algae to flowering plants. <i>Annual Review of Plant Biology</i> , <b>2011</b> , 62, 567-90	30.7	455
49	Characterisation of the arabinose-rich carbohydrate composition of immature and mature marama beans ( <i>Tylosema esculentum</i> ). <i>Phytochemistry</i> , <b>2011</b> , 72, 1466-72	4	12
48	Restricted access of proteins to mannan polysaccharides in intact plant cell walls. <i>Plant Journal</i> , <b>2010</b> , 64, 191-203	6.9	172
47	How have plant cell walls evolved?. <i>Plant Physiology</i> , <b>2010</b> , 153, 366-72	6.6	99
46	Recognition of the helical structure of beta-1,4-galactan by a new family of carbohydrate-binding modules. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 35999-6009	5.4	32
45	High-throughput microarray profiling of cell wall polymers during hydrothermal pre-treatment of wheat straw. <i>Biotechnology and Bioengineering</i> , <b>2010</b> , 105, 509-14	4.9	24
44	Characterization of the primary cell walls of seedlings of <i>Brachypodium distachyon</i> --a potential model plant for temperate grasses. <i>Phytochemistry</i> , <b>2010</b> , 71, 62-9	4	52
43	A specialized outer layer of the primary cell wall joins elongating cotton fibers into tissue-like bundles. <i>Plant Physiology</i> , <b>2009</b> , 150, 684-99	6.6	67
42	The distribution of cell wall polymers during antheridium development and spermatogenesis in the Charophycean green alga, <i>Chara corallina</i> . <i>Annals of Botany</i> , <b>2009</b> , 104, 1045-56	4.1	41
41	An array of possibilities for pectin. <i>Carbohydrate Research</i> , <b>2009</b> , 344, 1872-8	2.9	22
40	Simultaneous in vivo truncation of pectic side chains. <i>Transgenic Research</i> , <b>2009</b> , 18, 961-9	3.3	20
39	High-throughput screening of <i>Erwinia chrysanthemi</i> pectin methylesterase variants using carbohydrate microarrays. <i>Proteomics</i> , <b>2009</b> , 9, 1861-8	4.8	12
38	Mixed-linkage (1-->3),(1-->4)-beta-D-glucan is not unique to the Poales and is an abundant component of <i>Equisetum arvense</i> cell walls. <i>Plant Journal</i> , <b>2008</b> , 54, 510-21	6.9	133
37	Pectic homogalacturonan masks abundant sets of xyloglucan epitopes in plant cell walls. <i>BMC Plant Biology</i> , <b>2008</b> , 8, 60	5.3	291
36	Bio-prospecting across the plant kingdom for industrially relevant cell wall polysaccharides using novel glycan microarrays. <i>Journal of Biotechnology</i> , <b>2008</b> , 136, S199	3.7	



35	Functional analysis of the cellulose synthase-like genes CSLD1, CSLD2, and CSLD4 in tip-growing Arabidopsis cells. <i>Plant Physiology</i> , <b>2008</b> , 148, 1238-53	6.6	110
34	GeneCAT--novel webtools that combine BLAST and co-expression analyses. <i>Nucleic Acids Research</i> , <b>2008</b> , 36, W320-6	20.1	121
33	Silencing of acidic pathogenesis-related PR-1 genes increases extracellular beta-(1->3)-glucanase activity at the onset of tobacco defence reactions. <i>Journal of Experimental Botany</i> , <b>2008</b> , 59, 1225-39	7	45
32	Identification of a xylogalacturonan xylosyltransferase involved in pectin biosynthesis in Arabidopsis. <i>Plant Cell</i> , <b>2008</b> , 20, 1289-302	11.6	100
31	High-throughput screening of monoclonal antibodies against plant cell wall glycans by hierarchical clustering of their carbohydrate microarray binding profiles. <i>Glycoconjugate Journal</i> , <b>2008</b> , 25, 37-48	3	138
30	High-throughput mapping of cell-wall polymers within and between plants using novel microarrays. <i>Plant Journal</i> , <b>2007</b> , 50, 1118-28	6.9	241
29	Disruption of ATCSLD5 results in reduced growth, reduced xylan and homogalacturonan synthase activity and altered xylan occurrence in Arabidopsis. <i>Plant Journal</i> , <b>2007</b> , 52, 791-802	6.9	85
28	The effect of calcium ions on adhesion and competitive exclusion of <i>Lactobacillus</i> ssp. and <i>E. coli</i> O138. <i>International Journal of Food Microbiology</i> , <b>2007</b> , 114, 113-9	5.8	45
27	Functional genomic analysis supports conservation of function among cellulose synthase-like a gene family members and suggests diverse roles of mannans in plants. <i>Plant Physiology</i> , <b>2007</b> , 143, 1881-93	6.6	160
26	Solid-phase chemical tools for glycobiology. <i>Carbohydrate Research</i> , <b>2006</b> , 341, 1209-34	2.9	126
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5	Side chains of pectic polysaccharides are regulated in relation to cell proliferation and cell differentiation. <i>Plant Journal</i> , <b>1999</b> , 20, 619-28	6.9	141
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1	Dissection of Plant Cell Walls by High-Throughput Methods 43-64		1