William G T Willats

List of Publications by Citations

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	Pectin: new insights into an old polymer are starting to gel. *Trends in Food Science and Technology*, **2006**, 17, 97-104	15.3	595
159	Evolution and diversity of plant cell walls: from algae to flowering plants. *Annual Review of Plant Biology*, **2011**, 62, 567-90	30.7	455
158	Modulation of the degree and pattern of methyl-esterification of pectic homogalacturonan in plant cell walls. Implications for pectin methyl esterase action, matrix properties, and cell adhesion. *Journal of Biological Chemistry*, **2001**, 276, 19404-13	5.4	439
157	Generation of monoclonal antibody specific to (1-->5)-alpha-L-arabinan. *Carbohydrate Research*, **1998**, 308, 149-52	2.9	312
156	Pectic homogalacturonan masks abundant sets of xyloglucan epitopes in plant cell walls. *BMC Plant Biology*, **2008**, 8, 60	5.3	291
155	Discovery of LPMO activity on hemicelluloses shows the importance of oxidative processes in plant cell wall degradation. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 6287-92	11.5	289
154	The role of the cell wall in plant immunity. *Frontiers in Plant Science*, **2014**, 5, 178	6.2	267
153	Synthetic methyl hexagalacturonate hapten inhibitors of anti-homogalacturonan monoclonal antibodies LM7, JIM5 and JIM7. *Carbohydrate Research*, **2003**, 338, 1797-800	2.9	242
152	High-throughput mapping of cell-wall polymers within and between plants using novel microarrays. *Plant Journal*, **2007**, 50, 1118-28	6.9	241
151	The Cell Walls of Green Algae: A Journey through Evolution and Diversity. *Frontiers in Plant Science*, **2012**, 3, 82	6.2	234
150	Analysis of pectic epitopes recognised by hybridoma and phage display monoclonal antibodies using defined oligosaccharides, polysaccharides, and enzymatic degradation. *Carbohydrate Research*, **2000**, 327, 309-20	2.9	176
149	The charophycean green algae provide insights into the early origins of plant cell walls. *Plant Journal*, **2011**, 68, 201-11	6.9	172
148	Restricted access of proteins to mannan polysaccharides in intact plant cell walls. *Plant Journal*, **2010**, 64, 191-203	6.9	172
147	Immunochemical comparison of membrane-associated and secreted arabinogalactan-proteins in rice and carrot. *Planta*, **1996**, 198, 452-459	4.7	169
146	Versatile high resolution oligosaccharide microarrays for plant glycobiology and cell wall research. *Journal of Biological Chemistry*, **2012**, 287, 39429-38	5.4	168
145	Sugar-coated microarrays: a novel slide surface for the high-throughput analysis of glycans. *Proteomics*, **2002**, 2, 1666-71	4.8	166
144	Functional genomic analysis supports conservation of function among cellulose synthase-like a gene family members and suggests diverse roles of mannans in plants. *Plant Physiology*, **2007**, 143, 1881-93	6.6	160

143	Phage display: practicalities and prospects. *Plant Molecular Biology*, **2002**, 50, 837-54	4.6	142
142	Side chains of pectic polysaccharides are regulated in relation to cell proliferation and cell differentiation. *Plant Journal*, **1999**, 20, 619-28	6.9	141
141	High-throughput screening of monoclonal antibodies against plant cell wall glycans by hierarchical clustering of their carbohydrate microarray binding profiles. *Glycoconjugate Journal*, **2008**, 25, 37-48	3	138
140	Mixed-linkage (1-->3),(1-->4)-beta-D-glucan is not unique to the Poales and is an abundant component of Equisetum arvense cell walls. *Plant Journal*, **2008**, 54, 510-21	6.9	133
139	Solid-phase chemical tools for glycobiology. *Carbohydrate Research*, **2006**, 341, 1209-34	2.9	126
138	In-situ analysis of pectic polysaccharides in seed mucilage and at the root surface of Arabidopsis thaliana. *Planta*, **2001**, 213, 37-44	4.7	126
137	GeneCAT--novel webtools that combine BLAST and co-expression analyses. *Nucleic Acids Research*, **2008**, 36, W320-6	20.1	121
136	Novel cell wall architecture of isoxaben-habituated Arabidopsis suspension-cultured cells: global transcript profiling and cellular analysis. *Plant Journal*, **2004**, 40, 260-75	6.9	116
135	Altered middle lamella homogalacturonan and disrupted deposition of (1-->5)-alpha-L-arabinan in the pericarp of Cnr, a ripening mutant of tomato. *Plant Physiology*, **2001**, 126, 210-21	6.6	115
134	Functional analysis of the cellulose synthase-like genes CSLD1, CSLD2, and CSLD4 in tip-growing Arabidopsis cells. *Plant Physiology*, **2008**, 148, 1238-53	6.6	110
133	Cell wall antibodies without immunization: generation and use of de-esterified homogalacturonan block-specific antibodies from a naive phage display library. *Plant Journal*, **1999**, 18, 57-65	6.9	101
132	The Charophycean green algae as model systems to study plant cell walls and other evolutionary adaptations that gave rise to land plants. *Plant Signaling and Behavior*, **2012**, 7, 1-3	2.5	100
131	Identification of a xylogalacturonan xylosyltransferase involved in pectin biosynthesis in Arabidopsis. *Plant Cell*, **2008**, 20, 1289-302	11.6	100
130	How have plant cell walls evolved?. *Plant Physiology*, **2010**, 153, 366-72	6.6	99
129	Arabinose-rich polymers as an evolutionary strategy to plasticize resurrection plant cell walls against desiccation. *Planta*, **2013**, 237, 739-54	4.7	98
128	Three Pectin Methylesterase Inhibitors Protect Cell Wall Integrity for Arabidopsis Immunity to. *Plant Physiology*, **2017**, 173, 1844-1863	6.6	96
127	A xylogalacturonan epitope is specifically associated with plant cell detachment. *Planta*, **2004**, 218, 673-81	4.7	94
126	Understanding CrRLK1L Function: Cell Walls and Growth Control. *Trends in Plant Science*, **2016**, 21, 516-527	13.1	88

125	Resistant starch diet induces change in the swine microbiome and a predominance of beneficial bacterial populations. *Microbiome*, **2015**, 3, 16	16.6	87
124	Disruption of ATCSLD5 results in reduced growth, reduced xylan and homogalacturonan synthase activity and altered xylan occurrence in Arabidopsis. *Plant Journal*, **2007**, 52, 791-802	6.9	85
123	SnRK1 from Arabidopsis thaliana is an atypical AMPK. *Plant Journal*, **2015**, 82, 183-92	6.9	84
122	Making and using antibody probes to study plant cell walls. *Plant Physiology and Biochemistry*, **2000**, 38, 27-36	5.4	79
121	Pectin metabolism and assembly in the cell wall of the charophyte green alga Penium margaritaceum. *Plant Physiology*, **2014**, 165, 105-18	6.6	76
120	Cell wall evolution and diversity. *Frontiers in Plant Science*, **2012**, 3, 152	6.2	75
119	The cooperative activities of CSLD2, CSLD3, and CSLD5 are required for normal Arabidopsis development. *Molecular Plant*, **2011**, 4, 1024-37	14.4	73
118	Application of enzymes for efficient extraction, modification, and development of functional properties of lime pectin. *Food Hydrocolloids*, **2014**, 40, 273-282	10.6	70
117	Interspecies cross-feeding orchestrates carbon degradation in the rumen ecosystem. *Nature Microbiology*, **2018**, 3, 1274-1284	26.6	70
116	A specialized outer layer of the primary cell wall joins elongating cotton fibers into tissue-like bundles. *Plant Physiology*, **2009**, 150, 684-99	6.6	67
115	Polyploidy Affects Plant Growth and Alters Cell Wall Composition. *Plant Physiology*, **2019**, 179, 74-87	6.6	67
114	The Arabidopsis co-expression tool (ACT): a WWW-based tool and database for microarray-based gene expression analysis. *Plant Journal*, **2006**, 46, 336-48	6.9	65
113	Altered cell wall disassembly during ripening of Cnr tomato fruit: implications for cell adhesion and fruit softening. *Planta*, **2002**, 215, 440-7	4.7	61
112	Tracking developmentally regulated post-synthetic processing of homogalacturonan and chitin using reciprocal oligosaccharide probes. *Development (Cambridge)*, **2014**, 141, 4841-50	6.6	56
111	Evidence for land plant cell wall biosynthetic mechanisms in charophyte green algae. *Annals of Botany*, **2014**, 114, 1217-36	4.1	55
110	The glycosyltransferase repertoire of the spikemoss Selaginella moellendorffii and a comparative study of its cell wall. *PLoS ONE*, **2012**, 7, e35846	3.7	52
109	Characterization of the primary cell walls of seedlings of Brachypodium distachyon--a potential model plant for temperate grasses. *Phytochemistry*, **2010**, 71, 62-9	4	52
108	Arabinogalactan proteins have deep roots in eukaryotes: identification of genes and epitopes in brown algae and their role in Fucus serratus embryo development. *New Phytologist*, **2016**, 209, 1428-41	9.8	48

107	Range of cell-wall alterations enhance saccharification in Brachypodium distachyon mutants. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 14601-6	11.5	47
106	Identification and Characterization of a Golgi-Localized UDP-Xylose Transporter Family from Arabidopsis. *Plant Cell*, **2015**, 27, 1218-27	11.6	46
105	Insoluble (1 -> 3), (1 -> 4)-β-D-glucan is a component of cell walls in brown algae (Phaeophyceae) and is masked by alginates in tissues. *Scientific Reports*, **2017**, 7, 2880	4.9	46
104	Stable transformation and reverse genetic analysis of Penium margaritaceum: a platform for studies of charophyte green algae, the immediate ancestors of land plants. *Plant Journal*, **2014**, 77, 339-51	6.9	45
103	Silencing of acidic pathogenesis-related PR-1 genes increases extracellular beta-(1->3)-glucanase activity at the onset of tobacco defence reactions. *Journal of Experimental Botany*, **2008**, 59, 1225-39	7	45
102	The effect of calcium ions on adhesion and competitive exclusion of Lactobacillus ssp. and E. coli O138. *International Journal of Food Microbiology*, **2007**, 114, 113-9	5.8	45
101	Monoclonal antibodies indicate low-abundance links between heteroxylan and other glycans of plant cell walls. *Planta*, **2015**, 242, 1321-34	4.7	43
100	Pectic-(1,4)-galactan, extensin and arabinogalactan-protein epitopes differentiate ripening stages in wine and table grape cell walls. *Annals of Botany*, **2014**, 114, 1279-94	4.1	43
99	A new versatile microarray-based method for high throughput screening of carbohydrate-active enzymes. *Journal of Biological Chemistry*, **2015**, 290, 9020-36	5.4	42
98	The distribution of cell wall polymers during antheridium development and spermatogenesis in the Charophycean green alga, Chara corallina. *Annals of Botany*, **2009**, 104, 1045-56	4.1	41
97	Complexity of the Ruminococcus flavefaciens cellulosome reflects an expansion in glycan recognition. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 7136-41	11.5	40
96	Recognition of xyloglucan by the crystalline cellulose-binding site of a family 3a carbohydrate-binding module. *FEBS Letters*, **2015**, 589, 2297-303	3.8	39
95	Branched Pectic Galactan in Phloem-Sieve-Element Cell Walls: Implications for Cell Mechanics. *Plant Physiology*, **2018**, 176, 1547-1558	6.6	39
94	Dissecting the polysaccharide-rich grape cell wall changes during winemaking using combined high-throughput and fractionation methods. *Carbohydrate Polymers*, **2015**, 133, 567-77	10.3	37
93	Following the compositional changes of fresh grape skin cell walls during the fermentation process in the presence and absence of maceration enzymes. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 2798-810	5.7	37
92	The dynamics of plant cell-wall polysaccharide decomposition in leaf-cutting ant fungus gardens. *PLoS ONE*, **2011**, 6, e17506	3.7	36
91	A monoclonal antibody to feruloylated-(1-->4)-beta-D-galactan. *Planta*, **2004**, 219, 1036-41	4.7	35
90	Cell wall composition profiling of parasitic giant dodder (Cuscuta reflexa) and its hosts: a priori differences and induced changes. *New Phytologist*, **2015**, 207, 805-16	9.8	34

89	Inactivation of OsIRX10 leads to decreased xylan content in rice culm cell walls and improved biomass saccharification. *Molecular Plant*, **2013**, 6, 570-3	14.4	33
88	Pectin: cell biology and prospects for functional analysis **2001**, 9-27		33
87	Flagella interact with ionic plant lipids to mediate adherence of pathogenic Escherichia coli to fresh produce plants. *Environmental Microbiology*, **2014**, 16, 2181-95	5.2	32
86	Recognition of the helical structure of beta-1,4-galactan by a new family of carbohydrate-binding modules. *Journal of Biological Chemistry*, **2010**, 285, 35999-6009	5.4	32
85	In vitro Biochemical Characterization of All Barley Endosperm Starch Synthases. *Frontiers in Plant Science*, **2015**, 6, 1265	6.2	32
84	Assessment of leaf/stem ratio in wheat straw feedstock and impact on enzymatic conversion. *GCB Bioenergy*, **2014**, 6, 90-96	5.6	31
83	Immunoprofiling of pectic polysaccharides. *Analytical Biochemistry*, **1999**, 268, 143-6	3.1	30
82	The impact of silicon on cell wall composition and enzymatic saccharification of. *Biotechnology for Biofuels*, **2018**, 11, 171	7.8	29
81	Prediction of Pectin Yield and Quality by FTIR and Carbohydrate Microarray Analysis. *Food and Bioprocess Technology*, **2017**, 10, 143-154	5.1	29
80	Profiling the main cell wall polysaccharides of tobacco leaves using high-throughput and fractionation techniques. *Carbohydrate Polymers*, **2012**, 88, 939-949	10.3	29
79	A bacterial glucanotransferase can replace the complex maltose metabolism required for starch to sucrose conversion in leaves at night. *Journal of Biological Chemistry*, **2013**, 288, 28581-98	5.4	28
78	Antibody-based screening of cell wall matrix glycans in ferns reveals taxon, tissue and cell-type specific distribution patterns. *BMC Plant Biology*, **2015**, 15, 56	5.3	26
77	Profiling the main cell wall polysaccharides of grapevine leaves using high-throughput and fractionation methods. *Carbohydrate Polymers*, **2014**, 99, 190-8	10.3	26
76	Two SusD-like proteins encoded within a polysaccharide utilization locus of an uncultured ruminant Bacteroidetes phylotype bind strongly to cellulose. *Applied and Environmental Microbiology*, **2012**, 78, 5935-7	4.8	26
75	Multi-omics analysis identifies genes mediating the extension of cell walls in the Arabidopsis thaliana root elongation zone. *Frontiers in Cell and Developmental Biology*, **2015**, 3, 10	5.7	25
74	Substituent-specific antibody against glucuronoxylan reveals close association of glucuronic acid and acetyl substituents and distinct labeling patterns in tree species. *Planta*, **2012**, 236, 739-51	4.7	25
73	An oligogalacturonide-derived molecular probe demonstrates the dynamics of calcium-mediated pectin complexation in cell walls of tip-growing structures. *Plant Journal*, **2017**, 91, 534-546	6.9	24
72	The Deconstruction of Pectic Rhamnogalacturonan I Unmasks the Occurrence of a Novel Arabinogalactan Oligosaccharide Epitope. *Plant and Cell Physiology*, **2015**, 56, 2181-96	4.9	24

71	Structural basis for the role of serine-rich repeat proteins from in gut microbe-host interactions. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E2706-E2715	11.5	24
70	Dissecting the polysaccharide-rich grape cell wall matrix using recombinant pectinases during winemaking. *Carbohydrate Polymers*, **2016**, 152, 510-519	10.3	24
69	High-throughput microarray profiling of cell wall polymers during hydrothermal pre-treatment of wheat straw. *Biotechnology and Bioengineering*, **2010**, 105, 509-14	4.9	24
68	Immunocytochemical characterization of the cell walls of bean cell suspensions during habituation and dehabituation to dichlobenil. *Physiologia Plantarum*, **2006**, 127, 87-99	4.6	24
67	Microbiota-directed fibre activates both targeted and secondary metabolic shifts in the distal gut. *Nature Communications*, **2020**, 11, 5773	17.4	24
66	Overexpression of the grapevine PGIP1 in tobacco results in compositional changes in the leaf arabinoxyloglucan network in the absence of fungal infection. *BMC Plant Biology*, **2013**, 13, 46	5.3	23
65	Disruption of the microtubule network alters cellulose deposition and causes major changes in pectin distribution in the cell wall of the green alga, Penium margaritaceum. *Journal of Experimental Botany*, **2014**, 65, 465-79	7	22
64	An array of possibilities for pectin. *Carbohydrate Research*, **2009**, 344, 1872-8	2.9	22
63	Characterization of the LM5 pectic galactan epitope with synthetic analogues of β1,4-d-galactotetraose. *Carbohydrate Research*, **2016**, 436, 36-40	2.9	22
62	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. *Food Chemistry*, **2019**, 278, 26-35	8.5	22
61	Pea Border Cell Maturation and Release Involve Complex Cell Wall Structural Dynamics. *Plant Physiology*, **2017**, 174, 1051-1066	6.6	21
60	Separating Golgi Proteins from to Reveals Underlying Properties of Cisternal Localization. *Plant Cell*, **2019**, 31, 2010-2034	11.6	21
59	Synthesis of β1,4-Linked Galactan Side-Chains of Rhamnogalacturonan I. *Chemistry - A European Journal*, **2016**, 22, 11543-8	4.8	21
58	Investigating the relationship between grape cell wall polysaccharide composition and the extractability of phenolic compounds into Shiraz wines. Part I: Vintage and ripeness effects. *Food Chemistry*, **2019**, 278, 36-46	8.5	21
57	Escherichia coli common pilus (ECP) targets arabinosyl residues in plant cell walls to mediate adhesion to fresh produce plants. *Journal of Biological Chemistry*, **2014**, 289, 34349-65	5.4	20
56	Simultaneous in vivo truncation of pectic side chains. *Transgenic Research*, **2009**, 18, 961-9	3.3	20
55	Exploring the Glycans of Euglena gracilis. *Biology*, **2017**, 6,	4.9	19
54	Profiling the Hydrolysis of Isolated Grape Berry Skin Cell Walls by Purified Enzymes. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 8267-74	5.7	18

53	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, 1786-97	4.9	18
52	Glycan profiling of plant cell wall polymers using microarrays. *Journal of Visualized Experiments*, **2012**, e4238	1.6	17
51	Isolation and characterisation of the homogalacturonan from type II cell walls of the commelinoid monocot wheat using HF-solvolysis. *Carbohydrate Research*, **2003**, 338, 423-31	2.9	17
50	Genome-wide association mapping in winter barley for grain yield and culm cell wall polymer content using the high-throughput CoMPP technique. *PLoS ONE*, **2017**, 12, e0173313	3.7	17
49	Understanding plant cell-wall remodelling during the symbiotic interaction between Tuber melanosporum and Corylus avellana using a carbohydrate microarray. *Planta*, **2016**, 244, 347-59	4.7	17
48	Comparative glycan profiling of Ceratopteris richardii RC-FernRgametophytes and sporophytes links cell-wall composition to functional specialization. *Annals of Botany*, **2014**, 114, 1295-307	4.1	16
47	Structural characterization of a mixed-linkage glucan deficient mutant reveals alteration in cellulose microfibril orientation in rice coleoptile mesophyll cell walls. *Frontiers in Plant Science*, **2015**, 6, 628	6.2	16
46	The Three Members of the Arabidopsis Glycosyltransferase Family 92 are Functional Β1,4-Galactan Synthases. *Plant and Cell Physiology*, **2018**, 59, 2624-2636	4.9	16
45	Combining hydrothermal pretreatment with enzymes de-pectinates and exposes the innermost xyloglucan-rich hemicellulose layers of wine grape pomace. *Food Chemistry*, **2017**, 232, 340-350	8.5	15
44	Development of novel monoclonal antibodies against starch and ulvan - implications for antibody production against polysaccharides with limited immunogenicity. *Scientific Reports*, **2017**, 7, 9326	4.9	15
43	Screening and characterization of plant cell walls using carbohydrate microarrays. *Methods in Molecular Biology*, **2011**, 715, 115-21	1.4	15
42	Understanding the relationship between cotton fiber properties and non-cellulosic cell wall polysaccharides. *PLoS ONE*, **2014**, 9, e112168	3.7	13
41	Effect of Commercial Enzymes on Berry Cell Wall Deconstruction in the Context of Intravineyard Ripeness Variation under Winemaking Conditions. *Journal of Agricultural and Food Chemistry*, **2016**, 64, 3862-72	5.7	13
40	Tracking polysaccharides through the brewing process. *Carbohydrate Polymers*, **2018**, 196, 465-473	10.3	13
39	Characterisation of the arabinose-rich carbohydrate composition of immature and mature marama beans (Tylosema esculentum). *Phytochemistry*, **2011**, 72, 1466-72	4	12
38	High-throughput screening of Erwinia chrysanthemi pectin methylesterase variants using carbohydrate microarrays. *Proteomics*, **2009**, 9, 1861-8	4.8	12
37	Diatom fucan polysaccharide precipitates carbon during algal blooms. *Nature Communications*, **2021**, 12, 1150	17.4	12
36	Click chemistry-based tracking reveals putative cell wall-located auxin binding sites in expanding cells. *Scientific Reports*, **2017**, 7, 15988	4.9	11

35	Carbohydrate microarrays in plant science. *Methods in Molecular Biology*, **2012**, 918, 351-62	1.4	11
34	Cell Wall Composition and Candidate Biosynthesis Gene Expression During Rice Development. *Plant and Cell Physiology*, **2016**, 57, 2058-2075	4.9	11
33	Double blind microarray-based polysaccharide profiling enables parallel identification of uncharacterized polysaccharides and carbohydrate-binding proteins with unknown specificities. *Scientific Reports*, **2018**, 8, 2500	4.9	10
32	Synthesis and Application of Branched Type II Arabinogalactans. *Journal of Organic Chemistry*, **2017**, 82, 12066-12084	4.2	9
31	A putative Arabidopsis thaliana glycosyltransferase, At4g01220, which is closely related to three plant cell wall-specific xylosyltransferases, is differentially expressed spatially and temporally. *Plant Science*, **2011**, 180, 470-9	5.3	9
30	A multivariate approach for high throughput pectin profiling by combining glycan microarrays with monoclonal antibodies. *Carbohydrate Research*, **2015**, 409, 41-7	2.9	8
29	Non-cellulosic polysaccharides from cotton fibre are differently impacted by textile processing. *PLoS ONE*, **2014**, 9, e115150	3.7	8
28	Analyses of Polysaccharides Using Carbohydrate Microarray Profiling. *Journal of AOAC INTERNATIONAL*, **2018**, 101, 1720-1728	1.7	8
27	The impact of carbohydrate-active enzymes on mediating cell wall polysaccharide-tannin interactions in a wine-like matrix. *Food Research International*, **2020**, 129, 108889	7	7
26	Understanding Changes in Tomato Cell Walls in Roots and Fruits: The Contribution of Arbuscular Mycorrhizal Colonization. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	6
25	Penium margaritaceum as a model organism for cell wall analysis of expanding plant cells. *Methods in Molecular Biology*, **2015**, 1242, 1-21	1.4	6
24	Adaptation of Arabidopsis halleri to extreme metal pollution through limited metal accumulation involves changes in cell wall composition and metal homeostasis. *New Phytologist*, **2021**, 230, 669-682	9.8	6
23	Extensin arabinoside chain length is modulated in elongating cotton fibre. *Cell Surface*, **2019**, 5, 100033	4.8	5
22	Metabolism of polysaccharides in dynamic middle lamellae during cotton fibre development. *Planta* , **2019**, 249, 1565-1581	4.7	4
21	Synthesis of branched and linear 1,4-linked galactan oligosaccharides. *Organic and Biomolecular Chemistry*, **2018**, 16, 1157-1162	3.9	4
20	Plant science in the age of phage. *Trends in Plant Science*, **2004**, 9, 465-8	13.1	4
19	Ancient origin of fucosylated xyloglucan in charophycean green algae. *Communications Biology*, **2021**, 4, 754	6.7	4
18	Tracking polysaccharides during white winemaking using glycan microarrays reveals glycoprotein-rich sediments. *Food Research International*, **2019**, 123, 662-673	7	3

17	Detection of Seasonal Variation in Polysaccharides Using Carbohydrate Detecting Microarrays. *Frontiers in Plant Science*, **2019**, 10, 512	6.2	3
16	High-throughput Screening of Carbohydrate-degrading Enzymes Using Novel Insoluble Chromogenic Substrate Assay Kits. *Journal of Visualized Experiments*, **2016**,	1.6	3
15	Microarray Glycan Profiling Reveals Algal Fucoidan Epitopes in Diverse Marine Metazoans. *Frontiers in Marine Science*, **2017**, 4,	4.5	3
14	Combinatorial Glycomic Analyses to Direct CAZyme Discovery for the Tailored Degradation of Canola Meal Non-Starch Dietary Polysaccharides. *Microorganisms*, **2020**, 8,	4.9	3
13	High-resolution 3D mapping of rhizosphere glycan patterning using molecular probes in a transparent soil system. *Cell Surface*, **2021**, 7, 100059	4.8	2
12	Removal of eDNA from fabrics using a novel laundry DNase revealed using high-resolution imaging. *Scientific Reports*, **2021**, 11, 21542	4.9	1
11	Pectin Cell Biology: Complexity in Context **2003**, 147-157		1
10	Overexpression of VviPGIP1 and NtCAD14 in Tobacco Screened Using Glycan Microarrays Reveals Cell Wall Reorganisation in the Absence of Fungal Infection. *Vaccines*, **2020**, 8,	5.3	1
9	Tracking cell wall changes in wine and table grapes undergoing Botrytis cinerea infection using glycan microarrays. *Annals of Botany*, **2021**, 128, 527-543	4.1	1
8	Differences in berry skin and pulp cell wall polysaccharides from ripe and overripe Shiraz grapes evaluated using glycan profiling reveals extensin-rich flesh. *Food Chemistry*, **2021**, 363, 130180	8.5	1
7	Dissection of Plant Cell Walls by High-Throughput Methods43-64		1
6	Untangling the impact of red wine maceration times on wine ageing. A multidisciplinary approach focusing on extended maceration in Shiraz wines. *Food Research International*, **2021**, 150, 110697	7	0
5	Analytical implications of different methods for preparing plant cell wall material. *Carbohydrate Polymers*, **2021**, 261, 117866	10.3	0
4	Bio-prospecting across the plant kingdom for industrially relevant cell wall polysaccharides using novel glycan microarrays. *Journal of Biotechnology*, **2008**, 136, S199	3.7	
3	Analysis of Plant Cell Walls Using High-Throughput Profiling Techniques with Multivariate Methods. *Methods in Molecular Biology*, **2020**, 2149, 327-337	1.4	
2	Dissection of Plant Cell Walls by High-Throughput Methods **2018**, 43-64		
1	Commercial Yeast Strains Expressing Polygalacturonase and Glucanase Unravel the Cell Walls of Chardonnay Grape Pomace. *Biology*, **2022**, 11, 664	4.9	