J Paul Knox

List of Publications by Year
in descending order

194 papers	19,171 citations	9756 73 h-index	13338 130 g-index
204 all docs	204 docs citations	204 times ranked	11810 citing authors

#	Article	IF	Citations
1	Pectin: cell biology and prospects for functional analysis. Plant Molecular Biology, 2001, 47, 9-27.	2.0	891
2	Pectin: new insights into an old polymer are starting to gel. Trends in Food Science and Technology, 2006, 17, 97-104.	7.8	707
3	Pectin esterification is spatially regulated both within cell walls and between developing tissues of root apices. Planta, 1990, 181, 512-21.	1.6	602
4	Modulation of the Degree and Pattern of Methyl-esterification of Pectic Homogalacturonan in Plant Cell Walls. Journal of Biological Chemistry, 2001, 276, 19404-19413.	1.6	528
5	Monoclonal Antibodies to Plant Cell Wall Xylans and Arabinoxylans. Journal of Histochemistry and Cytochemistry, 2005, 53, 543-546.	1.3	430
6	Localization of Pectic Galactan in Tomato Cell Walls Using a Monoclonal Antibody Specific to (1[->]4)-Î²-D-Galactan. Plant Physiology, 1997, 113, 1405-1412.	2.3	407
7	An extended set of monoclonal antibodies to pectic homogalacturonan. Carbohydrate Research, 2009, 344, 1858-1862.	1.1	376
8	Pectic homogalacturonan masks abundant sets of xyloglucan epitopes in plant cell walls. BMC Plant Biology, 2008, 8, 60.	1.6	375
9	Developmentally regulated epitopes of cell surface arabinogalactan proteins and their relation to root tissue pattern formation. Plant Journal, 1991, 1, 317-326.	2.8	372
10	Generation of a monoclonal antibody specific to (1â†’5)-Î±-l-arabinan. Carbohydrate Research, 1998, 308, 149-152.	1.1	362
11	Intercellular adhesion and cell separation in plants. Plant, Cell and Environment, 2003, 26, 977-989.	2.8	329
12	Singlet oxygen and plants. Phytochemistry, 1985, 24, 889-896.	1.4	308
13	High-throughput mapping of cell-wall polymers within and between plants using novel microarrays. Plant Journal, 2007, 50, 1118-1128.	2.8	286
14	Synthetic methyl hexagalacturonate hapten inhibitors of anti-homogalacturonan monoclonal antibodies LM7, JIM5 and JIM7. Carbohydrate Research, 2003, 338, 1797-1800.	1.1	277
15	Characterization of carbohydrate structural features recognized by anti-arabinogalactan-protein monoclonal antibodies. Glycobiology, 1996, 6, 131-139.	1.3	273
16	Advances in understanding the molecular basis of plant cell wall polysaccharide recognition by carbohydrate-binding modules. Current Opinion in Structural Biology, 2013, 23, 669-677.	2.6	268
17	Pectin: cell biology and prospects for functional analysis. , 2001, , 9-27.		247
18	Common components of the infection thread matrix and the intercellular space identified by immunocytochemical analysis of pea nodules and uninfected roots. EMBO Journal, 1989, 8, 335-341.	3.5	242

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19	A role for arabinogalactan-proteins in plant cell expansion: evidence from studies on the interaction of beta-glucosyl Yariv reagent with seedlings of Arabidopsis thaliana. Plant Journal, 1996, 9, 919-925.	2.8	228
20	Proteomic analysis of the Arabidopsis thaliana cell wall. Electrophoresis, 2002, 23, 1754.	1.3	225
21	A family of abundant plasma membrane-associated glycoproteins related to the arabinogalactan proteins is unique to flowering plants.. Journal of Cell Biology, 1989, 108, 1967-1977.	2.3	223
22	Understanding the Biological Rationale for the Diversity of Cellulose-directed Carbohydrate-binding Modules in Prokaryotic Enzymes. Journal of Biological Chemistry, 2006, 281, 29321-29329.	1.6	221
23	Carbohydrate-binding modules promote the enzymatic deconstruction of intact plant cell walls by targeting and proximity effects. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 15293-15298.	3.3	219
24	Restricted access of proteins to mannan polysaccharides in intact plant cell walls. Plant Journal, 2010, 64, 191-203.	2.8	217
25	Immunochemical comparison of membrane-associated and secreted arabinogalactan-proteins in rice and carrot. Planta, 1996, 198, 452-459.	1.6	213
26	The use of Antibodies to Study the Architecture and Developmental Regulation of Plant Cell Walls. International Review of Cytology, 1997, 171, 79-120.	6.2	213
27	Versatile High Resolution Oligosaccharide Microarrays for Plant Glycobiology and Cell Wall Research. Journal of Biological Chemistry, 2012, 287, 39429-39438.	1.6	207
28	Analysis of pectic epitopes recognised by hybridoma and phage display monoclonal antibodies using defined oligosaccharides, polysaccharides, and enzymatic degradation. Carbohydrate Research, 2000, 327, 309-320.	1.1	199
29	Revealing the structural and functional diversity of plant cell walls. Current Opinion in Plant Biology, 2008, 11, 308-313.	3.5	194
30	Temporal and spatial regulation of pectic (14)-beta-D-galactan in cell walls of developing pea cotyledons: implications for mechanical properties. Plant Journal, 2000, 22, 105-113.	2.8	192
31	ABA promotes quiescence of the quiescent centre and suppresses stem cell differentiation in the Arabidopsis primary root meristem. Plant Journal, 2010, 64, 764-774.	2.8	182
32	Arabinogalactan Proteins Are Required for Apical Cell Extension in the Moss Physcomitrella patens. Plant Cell, 2005, 17, 3051-3065.	3.1	179
33	Sugar-coated microarrays: A novel slide surface for the high-throughput analysis of glycans. Proteomics, 2002, 2, 1666-1671.	1.3	176
34	Localization of cell wall proteins in relation to the developmental anatomy of the carrot root apex. Plant Journal, 1994, 5, 237-246.	2.8	169
35	Loss-of-Function Mutation of <i>REDUCED WALL ACETYLATION2</i> in Arabidopsis Leads to Reduced Cell Wall Acetylation and Increased Resistance to <i>Botrytis cinerea</i> Â Â Â. Plant Physiology, 2011, 155, 1068-1078.	2.3	163
36	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.	1.4	155

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37	Side chains of pectic polysaccharides are regulated in relation to cell proliferation and cell differentiation. Plant Journal, 1999, 20, 619-628.	2.8	150
38	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.	2.6	148
39	In-situ analysis of pectic polysaccharides in seed mucilage and at the root surface of Arabidopsis thaliana. Planta, 2001, 213, 37-44.	1.6	146
40	Developmentally regulated proteoglycans and glycoproteins of the plant cell surface. FASEB Journal, 1995, 9, 1004-1012.	0.2	144
41	Novel cell wall architecture of isoxaben-habituated Arabidopsis suspension-cultured cells: global transcript profiling and cellular analysis. Plant Journal, 2004, 40, 260-275.	2.8	144
42	Cell wall pectic (1â†'4)-Î²-d-galactan marks the acceleration of cell elongation in theArabidopsisseedling root meristem. Plant Journal, 2003, 33, 447-454.	2.8	138
43	Developmental complexity of arabinan polysaccharides and their processing in plant cell walls. Plant Journal, 2009, 59, 413-425.	2.8	134
44	Stomatal Function Requires Pectin De-methyl-esterification of the Guard Cell Wall. Current Biology, 2016, 26, 2899-2906.	1.8	131
45	Altered Middle Lamella Homogalacturonan and Disrupted Deposition of (1â†'5)-Î±-l-Arabinan in the Pericarp ofCnr, a Ripening Mutant of Tomato. Plant Physiology, 2001, 126, 210-221.	2.3	127
46	An epitope of rice threonine- and hydroxyproline-rich glycoprotein is common to cell wall and hydrophobic plasma-membrane glycoproteins. Planta, 1995, 196, 510-22.	1.6	125
47	Patterns of expression of the JIM4 arabinogalactan-protein epitope in cell cultures and during somatic embryogenesis in Daucus carota L.. Planta, 1990, 180, 285-92.	1.6	124
48	Differential recognition of plant cell walls by microbial xylan-specific carbohydrate-binding modules. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4765-4770.	3.3	123
49	Cell Wall Biology: Perspectives from Cell Wall Imaging. Molecular Plant, 2011, 4, 212-219.	3.9	118
50	A Synthetic Glycan Microarray Enables Epitope Mapping of Plant Cell Wall Glycan-Directed Antibodies. Plant Physiology, 2017, 175, 1094-1104.	2.3	117
51	A xylogalacturonan epitope is specifically associated with plant cell detachment. Planta, 2004, 218, 673-681.	1.6	116
52	Localization of Cell Wall Polysaccharides in Normal and Compression Wood of Radiata Pine: Relationships with Lignification and Microfibril Orientation. Plant Physiology, 2012, 158, 642-653.	2.3	115
53	Cellulose and pectin localization in roots of mycorrhizalAllium porrum: labelling continuity between host cell wall and interfacial material. Planta, 1990, 180, 537-547.	1.6	112
54	Cell adhesion, cell separation and plant morphogenesis. Plant Journal, 1992, 2, 137-141.	2.8	112

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55	Glycoside hydrolase carbohydrate-binding modules as molecular probes for the analysis of plant cell wall polymers. Analytical Biochemistry, 2004, 326, 49-54.	1.1	111
56	Involvement of Diamine Oxidase and Peroxidase in Insolubilization of the Extracellular Matrix: Implications for Pea Nodule Initiation by Rhizobium leguminosarum. Molecular Plant-Microbe Interactions, 2000, 13, 413-420.	1.4	110
57	Cell Walls of Developing Wheat Starchy Endosperm: Comparison of Composition and RNA-Seq Transcriptome Â Â Â. Plant Physiology, 2012, 158, 612-627.	2.3	110
58	Evidence that family 35 carbohydrate binding modules display conserved specificity but divergent function. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 3065-3070.	3.3	109
59	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.	2.8	106
60	The Cooperative Activities of CSLD2, CSLD3, and CSLD5 Are Required for Normal Arabidopsis Development. Molecular Plant, 2011, 4, 1024-1037.	3.9	106
61	Spatial Regulation of Pectic Polysaccharides in Relation to Pit Fields in Cell Walls of Tomato Fruit Pericarp. Plant Physiology, 2000, 122, 775-782.	2.3	105
62	Cell wall evolution and diversity. Frontiers in Plant Science, 2012, 3, 152.	1.7	99
63	Characterisation of CRISPR mutants targeting genes modulating pectin degradation in ripening tomato. Plant Physiology, 2019, 179, pp.01187.2018.	2.3	92
64	Diversity in the distribution of polysaccharide and glycoprotein epitopes in the cell walls of bryophytes: new evidence for the multiple evolution of waterâ€conducting cells. New Phytologist, 2002, 156, 491-508.	3.5	91
65	QUASIMODO1 is expressed in vascular tissue of Arabidopsis thaliana inflorescence stems, and affects homogalacturonan and xylan biosynthesis. Planta, 2005, 222, 613-622.	1.6	90
66	The TOR Pathway Modulates the Structure of Cell Walls in<i>Arabidopsis</i>Â. Plant Cell, 2010, 22, 1898-1908.	3.1	89
67	Making and using antibody probes to study plant cell walls. Plant Physiology and Biochemistry, 2000, 38, 27-36.	2.8	85
68	Cell Wall Microstructure Analysis Implicates Hemicellulose Polysaccharides in Cell Adhesion in Tomato Fruit Pericarp Parenchyma. Molecular Plant, 2009, 2, 910-921.	3.9	85
69	Isolation and activity of the photodynamic pigment hypericin. Plant, Cell and Environment, 1985, 8, 19-25.	2.8	84
70	Distribution of cellâ€wall xylans in bryophytes and tracheophytes: new insights into basal interrelationships of land plants. New Phytologist, 2005, 168, 231-240.	3.5	84
71	CsAGP1, a Gibberellin-Responsive Gene from Cucumber Hypocotyls, Encodes a Classical Arabinogalactan Protein and Is Involved in Stem Elongation. Plant Physiology, 2003, 131, 1450-1459.	2.3	82
72	A cortical band of gelatinous fibers causes the coiling of redvine tendrils: a model based upon cytochemical and immunocytochemical studies. Planta, 2006, 225, 485-498.	1.6	79

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73	ARAD proteins associated with pectic Arabinan biosynthesis form complexes when transiently overexpressed in planta. Planta, 2012, 236, 115-128.	1.6	79
74	LRX Proteins Play a Crucial Role in Pollen Grain and Pollen Tube Cell Wall Development. Plant Physiology, 2018, 176, 1981-1992.	2.3	79
75	Xyloglucan is released by plants and promotes soil particle aggregation. New Phytologist, 2018, 217, 1128-1136.	3.5	79
76	Stage-specific responses of embryogenic carrot cell suspension cultures to arabinogalactan protein-binding Î²-glucosyl Yariv reagent. Planta, 1998, 205, 32-38.	1.6	78
77	Altered cell wall disassembly during ripening of Cnr tomato fruit: implications for cell adhesion and fruit softening. Planta, 2002, 215, 440-447.	1.6	74
78	Enzymatic treatments reveal differential capacities for xylan recognition and degradation in primary and secondary plant cell walls. Plant Journal, 2009, 58, 413-422.	2.8	72
79	Regulation of pectic polysaccharide domains in relation to cell development and cell properties in the pea testa. Journal of Experimental Botany, 2002, 53, 707-713.	2.4	71
80	A role for arabinogalactan proteins in gibberellinâ€induced Î±â€amylase production in barley aleurone cells. Plant Journal, 2002, 29, 733-741.	2.8	67
81	Functional analysis of folate polyglutamylation and its essential role in plant metabolism and development. Plant Journal, 2010, 64, 267-279.	2.8	67
82	Occurrence of cell surface arabinogalactan-protein and extensin epitopes in relation to pericycle and vascular tissue development in the root apex of four species. Planta, 1998, 204, 252-259.	1.6	65
83	Promotion of Testa Rupture during Garden Cress Germination Involves Seed Compartment-Specific Expression and Activity of Pectin Methylesterases Â. Plant Physiology, 2014, 167, 200-215.	2.3	64
84	ARABIDOPSIS DEHISCENCE ZONE POLYGALACTURONASE 1 (ADPG1) releases latent defense signals in stems with reduced lignin content. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3281-3290.	3.3	64
85	Distinct Cell Wall Architectures in Seed Endosperms in Representatives of the Brassicaceae and Solanaceae Â Â Â. Plant Physiology, 2012, 160, 1551-1566.	2.3	63
86	Expression of Extracellular Glycoproteins in the Uninfected Cells of Developing Pea Nodule Tissue. Molecular Plant-Microbe Interactions, 1991, 4, 563.	1.4	63
87	Elicitors and defense gene induction in plants with altered lignin compositions. New Phytologist, 2018, 219, 1235-1251.	3.5	61
88	Cell Wall Pectic Arabinans Influence the Mechanical Properties of Arabidopsis thaliana Inflorescence Stems and Their Response to Mechanical Stress. Plant and Cell Physiology, 2013, 54, 1278-1288.	1.5	60
89	Targeted Modification of Homogalacturonan by Transgenic Expression of a Fungal Polygalacturonase Alters Plant Growth. Plant Physiology, 2004, 135, 1294-1304.	2.3	59
90	Distribution of pectic epitopes in cell walls of the sugar beet root. Planta, 2005, 222, 355-371.	1.6	59

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91	Complexity of the <i>Ruminococcus flavefaciens</i> cellulosome reflects an expansion in glycan recognition. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7136-7141.	3.3	58
92	Branched Pectic Galactan in Phloem-Sieve-Element Cell Walls: Implications for Cell Mechanics. Plant Physiology, 2018, 176, 1547-1558.	2.3	58
93	Molecular probes for the plant cell surface. Protoplasma, 1992, 167, 1-9.	1.0	57
94	Apical Dominance inPhaseolus vulgarisL.. Journal of Experimental Botany, 1984, 35, 239-244.	2.4	56
95	Monoclonal Antibodies Directed to Fucoidan Preparations from Brown Algae. PLoS ONE, 2015, 10, e0118366.	1.1	56
96	Sticky mucilages and exudates of plants: putative microenvironmental design elements with biotechnological value. New Phytologist, 2020, 225, 1461-1469.	3.5	56
97	In situ analysis of cell wall polymers associated with phloem fibre cells in stems of hemp, Cannabis sativa L.. Planta, 2008, 228, 1-13.	1.6	55
98	Immunolocalization of LM2 arabinogalactan protein epitope associated with endomembranes of plant cells. Protoplasma, 2000, 212, 186-196.	1.0	54
99	Immunolocalization of Î²-(1â†’4) and Î²-(1â†’6)-D-galactan epitopes in the cell wall and Golgi stacks of developing flax root tissues. Protoplasma, 1998, 203, 26-34.	1.0	53
100	Monoclonal antibodies indicate low-abundance links between heteroxylan and other glycans of plant cell walls. Planta, 2015, 242, 1321-1334.	1.6	53
101	Correlations between axial stiffness and microstructure of a species of bamboo. Royal Society Open Science, 2017, 4, 160412.	1.1	50
102	Understanding How the Complex Molecular Architecture of Mannan-degrading Hydrolases Contributes to Plant Cell Wall Degradation. Journal of Biological Chemistry, 2014, 289, 2002-2012.	1.6	47
103	Comparative in situ analyses of cell wall matrix polysaccharide dynamics in developing rice and wheat grain. Planta, 2015, 241, 669-685.	1.6	47
104	Photodynamic damage to plant leaf tissue by rose bengal. Plant Science Letters, 1984, 37, 3-7.	1.9	46
105	Immunogold localization of plant surface arabinogalactan-proteins using glycerol liquid substitution and scanning electron microscopy. Journal of Microscopy, 1999, 193, 150-157.	0.8	46
106	Roles and regulation of plant cell walls surrounding plasmodesmata. Current Opinion in Plant Biology, 2014, 22, 93-100.	3.5	46
107	Epitope detection chromatography: a method to dissect the structural heterogeneity and interâ€connections of plant cellâ€wall matrix glycans. Plant Journal, 2014, 78, 715-722.	2.8	46
108	Recognition of xyloglucan by the crystalline celluloseâ€binding site of a family 3a carbohydrateâ€binding module. FEBS Letters, 2015, 589, 2297-2303.	1.3	46

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109	Analysis of the distribution of copper amine oxidase in cell walls of legume seedlings. Planta, 2001, 214, 37-45.	1.6	45
110	Disentangling pectic homogalacturonan and rhamnogalacturonan-I polysaccharides: Evidence for sub-populations in fruit parenchyma systems. Food Chemistry, 2018, 246, 275-285.	4.2	44
111	Monoclonal Antibodies, Carbohydrate-Binding Modules, and the Detection of Polysaccharides in Plant Cell Walls. Methods in Molecular Biology, 2011, 715, 103-113.	0.4	43
112	Pectin Methylesterases Modulate Plant Homogalacturonan Status in Defenses against the Aphid <i>Myzus persicae</i>. Plant Cell, 2019, 31, 1913-1929.	3.1	43
113	Heterogeneity and Glycan Masking of Cell Wall Microstructures in the Stems of Miscanthus x giganteus, and Its Parents M. sinensis and M. sacchariflorus. PLoS ONE, 2013, 8, e82114.	1.1	42
114	Use of monoclonal antibodies to separate the enantiomers of abscisic acid. Analytical Biochemistry, 1986, 155, 92-94.	1.1	41
115	Sequential cell wall transformations in response to the induction of a pedicel abscission event in <i>Euphorbia pulcherrima</i> (poinsettia). Plant Journal, 2008, 54, 993-1003.	2.8	41
116	Low Sugar Is Not Always Good: Impact of Specific <i>O</i>-Glycan Defects on Tip Growth in Arabidopsis. Plant Physiology, 2015, 168, 808-813.	2.3	41
117	Elucidating the role of polygalacturonase genes in strawberry fruit softening. Journal of Experimental Botany, 2020, 71, 7103-7117.	2.4	41
118	Cereal root exudates contain highly structurally complex polysaccharides with soilâ€binding properties. Plant Journal, 2020, 103, 1666-1678.	2.8	41
119	Immunoprofiling of Pectic Polysaccharides. Analytical Biochemistry, 1999, 268, 143-146.	1.1	40
120	A monoclonal antibody to feruloylated-(1?4)-?-d-galactan. Planta, 2004, 219, 1036-1041.	1.6	40
121	Host-specific signatures of the cell wall changes induced by the plant parasitic nematode, Meloidogyne incognita. Scientific Reports, 2018, 8, 17302.	1.6	39
122	Preparation and characterization of monoclonal antibodies which recognise different gibberellin epitopes. Planta, 1987, 170, 86-91.	1.6	38
123	Detection of Î²-1-4-galactan in compression wood of Sitka spruce [Picea sitchensis (Bong.) CarriÃ¨re] by immunofluorescence. Holzforschung, 2007, 61, 311-316.	0.9	38
124	Investigations into the occurrence of plant cell surface epitopes in exudate gums. Carbohydrate Polymers, 1994, 24, 281-286.	5.1	36
125	Family 46 Carbohydrate-binding Modules Contribute to the Enzymatic Hydrolysis of Xyloglucan and Î²-1,3â€“1,4-Glucans through Distinct Mechanisms. Journal of Biological Chemistry, 2015, 290, 10572-10586.	1.6	36
126	The photodynamic action of eosin, a singlet-oxygen generator. Planta, 1985, 164, 22-29.	1.6	35

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127	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.	1.6	35
128	The monoclonal antibody JIM5 indicates patterns of pectin deposition in relation to pit fields at the plasma-membrane-face of tomato pericarp cell walls. Protoplasma, 1995, 188, 133-137.	1.0	34
129	Identification of Quantitative Trait Loci Affecting Hemicellulose Characteristics Based on Cell Wall Composition in a Wild and Cultivated Rice Species. Molecular Plant, 2012, 5, 162-175.	3.9	34
130	Dynamics of cell wall assembly during early embryogenesis in the brown alga<i>Fucus</i>. Journal of Experimental Botany, 2016, 67, 6089-6100.	2.4	34
131	Electron-energy-loss spectroscopic imaging of calcium and nitrogen in the cell walls of apple fruits. Planta, 1999, 208, 438-443.	1.6	32
132	Modulating <i>in vitro</i> bone cell and macrophage behavior by immobilized enzymatically tailored pectins. Journal of Biomedical Materials Research - Part A, 2008, 86A, 597-606.	2.1	32
133	Multiâ€scale spatial heterogeneity of pectic rhamnogalacturonan I (<scp>RG</scp>â€“I) structural features in tobacco seed endosperm cell walls. Plant Journal, 2013, 75, 1018-1027.	2.8	32
134	Understanding How Noncatalytic Carbohydrate Binding Modules Can Display Specificity for Xyloglucan. Journal of Biological Chemistry, 2013, 288, 4799-4809.	1.6	31
135	Syncytia formed by adult female <i>Heterodera schachtii</i> in <i>Arabidopsis thaliana</i> roots have a distinct cell wall molecular architecture. New Phytologist, 2012, 196, 238-246.	3.5	30
136	Analysis of the physical properties of developing cotton fibres. European Polymer Journal, 2014, 51, 57-68.	2.6	30
137	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.	1.8	30
138	Arabinogalactan proteins in embryogenic and non-embryogenic callus cultures ofEuphorbia pulcherrima. Physiologia Plantarum, 2000, 108, 180-187.	2.6	29
139	Arabinogalactan-protein and pectin epitopes in relation to an extracellular matrix surface network and somatic embryogenesis and callogenesis in Trifolium nigrescens Viv.. Plant Cell, Tissue and Organ Culture, 2013, 115, 35-44.	1.2	29
140	The photodynamic action of eosin, a singlet-oxygen generator. Planta, 1985, 164, 30-34.	1.6	28
141	Enzymatically-tailored pectins differentially influence the morphology, adhesion, cell cycle progression and survival of fibroblasts. Biochimica Et Biophysica Acta - General Subjects, 2008, 1780, 995-1003.	1.1	28
142	Promiscuous, non-catalytic, tandem carbohydrate-binding modules modulate the cell-wall structure and development of transgenic tobacco (Nicotiana tabacum) plants. Journal of Plant Research, 2007, 120, 605-617.	1.2	27
143	Characterization of the LM5 pectic galactan epitope with synthetic analogues of Î²-1,4-d-galactotetraose. Carbohydrate Research, 2016, 436, 36-40.	1.1	27
144	The Gsp-1 genes encode the wheat arabinogalactan peptide. Journal of Cereal Science, 2017, 74, 155-164.	1.8	27

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145	Î²-(1,4)-Galactan remodelling in Arabidopsis cell walls affects the xyloglucan structure during elongation. Planta, 2019, 249, 351-362.	1.6	27
146	Identification of novel cell surface epitopes using a leaf epidermal-strip assay system. Planta, 1995, 196, 266.	1.6	26
147	The Deconstruction of Pectic Rhamnogalacturonan I Unmasks the Occurrence of a Novel Arabinogalactan Oligosaccharide Epitope. Plant and Cell Physiology, 2015, 56, pcv128.	1.5	26
148	Photosensitisers from plants. Pest Management Science, 1986, 17, 579-586.	0.7	25
149	Ginseng root water-extracted pectic polysaccharides originate from secretory cavities. Planta, 2011, 234, 487-499.	1.6	25
150	An extensin-rich matrix lines the carinal canals in Equisetum ramosissimum, which may function as water-conducting channels. Annals of Botany, 2011, 108, 307-319.	1.4	25
151	Ultrastructure and composition of cell wall appositions in the roots of Asplenium (Polypodiales). Micron, 2011, 42, 863-870.	1.1	23
152	Analysis of crystallinity changes in cellulose II polymers using carbohydrate-binding modules. Carbohydrate Polymers, 2012, 89, 213-221.	5.1	23
153	Extraction, texture analysis and polysaccharide epitope mapping data of sequential extracts of strawberry, apple, tomato and aubergine fruit parenchyma. Data in Brief, 2018, 17, 314-320.	0.5	23
154	Non-lignified helical cell wall thickenings in root cortical cells of Aspleniaceae (Polypodiales): histology and taxonomical significance. Annals of Botany, 2011, 107, 195-207.	1.4	22
155	A quantitative method for the high throughput screening for the soil adhesion properties of plant and microbial polysaccharides and exudates. Plant and Soil, 2018, 428, 57-65.	1.8	22
156	<i>Craterostigma plantagineum</i> cell wall composition is remodelled during desiccation and the glycineâ€rich protein CpGRP1 interacts with pectins through clustered arginines. Plant Journal, 2019, 100, 661-676.	2.8	22
157	Up against the wall: arabinogalactanâ€protein dynamics at cell surfaces. New Phytologist, 2006, 169, 443-445.	3.5	21
158	Reliable scale-up of membrane protein over-expression by bacterial auto-induction: From microwell plates to pilot scale fermentations. Molecular Membrane Biology, 2008, 25, 588-598.	2.0	21
159	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.	1.5	21
160	The Complex Cell Wall Composition of Syncytia Induced by Plant Parasitic Cyst Nematodes Reflects Both Function and Host Plant. Frontiers in Plant Science, 2017, 8, 1087.	1.7	21
161	Re-engineering of the PAM1 phage display monoclonal antibody to produce a soluble, versatile anti-homogalacturonan scFv. Plant Science, 2005, 169, 1090-1095.	1.7	20
162	Intriguing, complex and everywhere: getting to grips with arabinogalactan-proteins. Trends in Plant Science, 1999, 4, 123-125.	4.3	19

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163	Intercellular Pectic Protuberances in Asplenium: New Data on their Composition and Origin. Annals of Botany, 2007, 100, 1165-1173.	1.4	19
164	ABA signalling modulates the detection of the LM6 arabinan cell wall epitope at the surface of <i>Arabidopsis thaliana</i> seedling root apices. New Phytologist, 2011, 190, 618-626.	3.5	19
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