

Paul Dupree

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177
papers

14,747
citations

70
h-index

119
g-index

205
ext. papers

17,046
ext. citations

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avg, IF

6.23
L-index

#	Paper	IF	Citations
177	Insights into the oxidative degradation of cellulose by a copper metalloenzyme that exploits biomass components. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 15079-84	11.5	692
176	VIP21, a 21-kD membrane protein is an integral component of trans-Golgi-network-derived transport vesicles. <i>Journal of Cell Biology</i> , 1992 , 118, 1003-14	7.3	498
175	Mapping the Arabidopsis organelle proteome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 6518-23	11.5	464
174	The wood from the trees: The use of timber in construction. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 68, 333-359	16.2	424
173	Analysis of detergent-resistant membranes in Arabidopsis. Evidence for plasma membrane lipid rafts. <i>Plant Physiology</i> , 2005 , 137, 104-16	6.6	395
172	Caveolae and sorting in the trans-Golgi network of epithelial cells.. <i>EMBO Journal</i> , 1993 , 12, 1597-1605	13	344
171	Identification of glycosylphosphatidylinositol-anchored proteins in Arabidopsis. A proteomic and genomic analysis. <i>Plant Physiology</i> , 2003 , 132, 568-77	6.6	322
170	Lignocellulose degradation mechanisms across the Tree of Life. <i>Current Opinion in Chemical Biology</i> , 2015 , 29, 108-19	9.7	317
169	Comparison of five xylan synthesis mutants reveals new insight into the mechanisms of xylan synthesis. <i>Plant Journal</i> , 2007 , 52, 1154-68	6.9	271
168	COBRA, an Arabidopsis extracellular glycosyl-phosphatidyl inositol-anchored protein, specifically controls highly anisotropic expansion through its involvement in cellulose microfibril orientation. <i>Plant Cell</i> , 2005 , 17, 1749-63	11.6	260
167	Localization of organelle proteins by isotope tagging (LOPIT). <i>Molecular and Cellular Proteomics</i> , 2004 , 3, 1128-34	7.6	255
166	Glycan complexity dictates microbial resource allocation in the large intestine. <i>Nature Communications</i> , 2015 , 6, 7481	17.4	241
165	Characterization of IRX10 and IRX10-like reveals an essential role in glucuronoxylan biosynthesis in Arabidopsis. <i>Plant Journal</i> , 2009 , 57, 732-46	6.9	229
164	Two-dimensional gel electrophoresis: recent advances in sample preparation, detection and quantitation. <i>Current Opinion in Chemical Biology</i> , 2002 , 6, 46-50	9.7	223
163	Absence of branches from xylan in Arabidopsis gux mutants reveals potential for simplification of lignocellulosic biomass. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 17409-14	11.5	221
162	Resolution of the structural isomers of partially methylesterified oligogalacturonides by polysaccharide analysis using carbohydrate gel electrophoresis. <i>Glycobiology</i> , 2006 , 16, 29-35	5.8	213
161	Folding of xylan onto cellulose fibrils in plant cell walls revealed by solid-state NMR. <i>Nature Communications</i> , 2016 , 7, 13902	17.4	207

160	Structure and boosting activity of a starch-degrading lytic polysaccharide monooxygenase. <i>Nature Communications</i> , 2015 , 6, 5961	17.4	205
159	The molecular basis of polysaccharide cleavage by lytic polysaccharide monooxygenases. <i>Nature Chemical Biology</i> , 2016 , 12, 298-303	11.7	205
158	Lignin biosynthesis perturbations affect secondary cell wall composition and saccharification yield in <i>Arabidopsis thaliana</i> . <i>Biotechnology for Biofuels</i> , 2013 , 6, 46	7.8	194
157	VASCULAR-RELATED NAC-DOMAIN6 and VASCULAR-RELATED NAC-DOMAIN7 effectively induce transdifferentiation into xylem vessel elements under control of an induction system. <i>Plant Physiology</i> , 2010 , 153, 906-14	6.6	189
156	Glycosyl transferases in family 61 mediate arabinofuranosyl transfer onto xylan in grasses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 989-93	11.5	185
155	The pattern of xylan acetylation suggests xylan may interact with cellulose microfibrils as a twofold helical screw in the secondary plant cell wall of <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2014 , 79, 492-506	6.9	181
154	Targeting of active sialyltransferase to the plant Golgi apparatus. <i>Plant Cell</i> , 1998 , 10, 1759-68	11.6	172
153	Glycosylphosphatidylinositol lipid anchoring of plant proteins. Sensitive prediction from sequence- and genome-wide studies for <i>Arabidopsis</i> and rice. <i>Plant Physiology</i> , 2003 , 133, 1691-701	6.6	168
152	Prediction of glycosylphosphatidylinositol-anchored proteins in <i>Arabidopsis</i> . A genomic analysis. <i>Plant Physiology</i> , 2002 , 129, 486-99	6.6	164
151	A novel bioinformatics approach identifies candidate genes for the synthesis and feruloylation of arabinoxylan. <i>Plant Physiology</i> , 2007 , 144, 43-53	6.6	154
150	SETH1 and SETH2, two components of the glycosylphosphatidylinositol anchor biosynthetic pathway, are required for pollen germination and tube growth in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2004 , 16, 229-40	11.6	150
149	Polysaccharide analysis using carbohydrate gel electrophoresis: a method to study plant cell wall polysaccharides and polysaccharide hydrolases. <i>Analytical Biochemistry</i> , 2002 , 300, 53-68	3.1	144
148	Caveolae and sorting in the trans-Golgi network of epithelial cells. <i>EMBO Journal</i> , 1993 , 12, 1597-605	13	142
147	The <i>Arabidopsis ppi1</i> mutant is specifically defective in the expression, chloroplast import, and accumulation of photosynthetic proteins. <i>Plant Cell</i> , 2003 , 15, 1859-71	11.6	136
146	An ancient family of lytic polysaccharide monooxygenases with roles in arthropod development and biomass digestion. <i>Nature Communications</i> , 2018 , 9, 756	17.4	135
145	Identification and characterization of GONST1, a golgi-localized GDP-mannose transporter in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2001 , 13, 2283-95	11.6	133
144	Cell wall glucomannan in <i>Arabidopsis</i> is synthesised by CSLA glycosyltransferases, and influences the progression of embryogenesis. <i>Plant Journal</i> , 2009 , 60, 527-38	6.9	132
143	Co-operative regulation of endocytosis by three Rab5 isoforms. <i>FEBS Letters</i> , 1995 , 366, 65-71	3.8	132

142	Unusual microbial xylanases from insect guts. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 3609-174.8		130
141	ECA3, a Golgi-localized P2A-type ATPase, plays a crucial role in manganese nutrition in Arabidopsis. <i>Plant Physiology</i> , 2008 , 146, 116-28	6.6	128
140	Use of a proteome strategy for tagging proteins present at the plasma membrane. <i>Plant Journal</i> , 1998 , 16, 633-41	6.9	125
139	Glycosylphosphatidylinositol-anchored cell-surface proteins from Arabidopsis. <i>Electrophoresis</i> , 1999 , 20, 2027-35	3.6	125
138	GUX1 and GUX2 glucuronyltransferases decorate distinct domains of glucuronoxytan with different substitution patterns. <i>Plant Journal</i> , 2013 , 74, 423-34	6.9	124
137	Diversity of the exoproteome of <i>Fusarium graminearum</i> grown on plant cell wall. <i>Current Genetics</i> , 2005 , 48, 366-79	2.9	120
136	Putative glycosyltransferases and other plant Golgi apparatus proteins are revealed by LOPIT proteomics. <i>Plant Physiology</i> , 2012 , 160, 1037-51	6.6	119
135	A proteomic analysis of organelles from Arabidopsis thaliana. <i>Electrophoresis</i> , 2000 , 21, 3488-99	3.6	117
134	An even pattern of xylan substitution is critical for interaction with cellulose in plant cell walls. <i>Nature Plants</i> , 2017 , 3, 859-865	11.5	114
133	Protein transport to the dendritic plasma membrane of cultured neurons is regulated by rab8p. <i>Journal of Cell Biology</i> , 1993 , 123, 47-55	7.3	113
132	Arabidopsis genes IRREGULAR XYLEM (IRX15) and IRX15L encode DUF579-containing proteins that are essential for normal xylan deposition in the secondary cell wall. <i>Plant Journal</i> , 2011 , 66, 401-13	6.9	110
131	Molecular cloning and subcellular localization of three GTP-binding proteins of the rab subfamily. <i>Journal of Cell Science</i> , 1993 , 106, 1249-1261	5.3	108
130	Localisation and characterisation of cell wall mannan polysaccharides in Arabidopsis thaliana. <i>Planta</i> , 2003 , 218, 27-36	4.7	107
129	A proteomic approach identifies many novel palmitoylated proteins in Arabidopsis. <i>New Phytologist</i> , 2013 , 197, 805-814	9.8	104
128	An evolutionary route to xylanase process fitness. <i>Protein Science</i> , 2004 , 13, 494-503	6.3	103
127	Covalent interactions between lignin and hemicelluloses in plant secondary cell walls. <i>Current Opinion in Biotechnology</i> , 2019 , 56, 97-104	11.4	103
126	Structural and electronic determinants of lytic polysaccharide monooxygenase reactivity on polysaccharide substrates. <i>Nature Communications</i> , 2017 , 8, 1064	17.4	101
125	β-galactosyl Yariv reagent binds to the β1,3-galactan of arabinogalactan proteins. <i>Plant Physiology</i> , 2013 , 161, 1117-26	6.6	101

124	UDP-glucose 4-epimerase isoforms UGE2 and UGE4 cooperate in providing UDP-galactose for cell wall biosynthesis and growth of <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2007 , 19, 1565-79	11.6	98
123	AtCSLA7, a cellulose synthase-like putative glycosyltransferase, is important for pollen tube growth and embryogenesis in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2003 , 131, 547-57	6.6	98
122	The plant Golgi apparatus. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1998 , 1404, 259-70	4.9	95
121	The modular architecture of <i>Cellvibrio japonicus</i> mannanases in glycoside hydrolase families 5 and 26 points to differences in their role in mannan degradation. <i>Biochemical Journal</i> , 2003 , 371, 1027-43	3.8	95
120	Structural characterization of <i>Arabidopsis</i> leaf arabinogalactan polysaccharides. <i>Plant Physiology</i> , 2012 , 160, 653-66	6.6	93
119	Quantitative and reproducible two-dimensional gel analysis using Phoretix 2D Full. <i>Electrophoresis</i> , 2001 , 22, 2075-85	3.6	91
118	Evolution of Xylan Substitution Patterns in Gymnosperms and Angiosperms: Implications for Xylan Interaction with Cellulose. <i>Plant Physiology</i> , 2016 , 171, 2418-31	6.6	89
117	Molecular architecture of softwood revealed by solid-state NMR. <i>Nature Communications</i> , 2019 , 10, 4978	7.4	87
116	Structure elucidation of arabinoxylan isomers by normal phase HPLC-MALDI-TOF/TOF-MS/MS. <i>Carbohydrate Research</i> , 2007 , 342, 724-35	2.9	85
115	A deficiency of the small GTPase rab8 inhibits membrane traffic in developing neurons. <i>Molecular and Cellular Biology</i> , 1995 , 15, 918-24	4.8	85
114	Carbohydrate structural analysis of wheat flour arabinogalactan protein. <i>Carbohydrate Research</i> , 2010 , 345, 2648-56	2.9	84
113	Guilty by insolubility--does a protein's detergent insolubility reflect a caveolar location?. <i>Trends in Cell Biology</i> , 1995 , 5, 187-9	18.3	82
112	The Golgi localized bifunctional UDP-rhamnose/UDP-galactose transporter family of <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 11563-8	11.5	81
111	VIP21-Caveolin, a protein of the trans-Golgi network and caveolae. <i>FEBS Letters</i> , 1994 , 346, 88-91	3.8	78
110	Cloning and subcellular localization of novel rab proteins reveals polarized and cell type-specific expression. <i>Journal of Cell Science</i> , 1994 , 107, 3437-3448	5.3	77
109	Abnormal glycosphingolipid mannosylation triggers salicylic acid-mediated responses in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013 , 25, 1881-94	11.6	74
108	Chemical and in situ characterization of macromolecular components of the cell walls from the green seaweed <i>Codium fragile</i> . <i>Glycobiology</i> , 2009 , 19, 212-28	5.8	74
107	Methods of quantitative proteomics and their application to plant organelle characterization. <i>Journal of Experimental Botany</i> , 2006 , 57, 1493-9	7	70

106	Quantitative proteomic approach to study subcellular localization of membrane proteins. <i>Nature Protocols</i> , 2006 , 1, 1778-89	18.8	70
105	A galactosyltransferase acting on arabinogalactan protein glycans is essential for embryo development in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2013 , 76, 128-37	6.9	64
104	A multifunctional hybrid glycosyl hydrolase discovered in an uncultured microbial consortium from ruminant gut. <i>Applied Microbiology and Biotechnology</i> , 2007 , 74, 113-24	5.7	64
103	Golgi-localized STELLO proteins regulate the assembly and trafficking of cellulose synthase complexes in <i>Arabidopsis</i> . <i>Nature Communications</i> , 2016 , 7, 11656	17.4	62
102	The role of carbon starvation in the induction of enzymes that degrade plant-derived carbohydrates in <i>Aspergillus niger</i> . <i>Fungal Genetics and Biology</i> , 2014 , 72, 34-47	3.9	62
101	Sub-cellular localization of membrane proteins. <i>Proteomics</i> , 2008 , 8, 3991-4011	4.8	61
100	A β -glucuronosyltransferase from <i>Arabidopsis thaliana</i> 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
99	<i>Arabidopsis thaliana</i> expresses multiple Golgi-localised nucleotide-sugar transporters related to GONST1. <i>Molecular Genetics and Genomics</i> , 2004 , 272, 397-410	3.1	60
98	Identification of a sphingolipid β -glucuronosyltransferase that is essential for pollen function in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2014 , 26, 3314-25	11.6	59
97	An unusual xylan in <i>Arabidopsis</i> primary cell walls is synthesised by GUX3, IRX9L, IRX10L and IRX14. <i>Plant Journal</i> , 2015 , 83, 413-26	6.9	57
96	Dynamic response of prevacuolar compartments to brefeldin A in plant cells. <i>Plant Physiology</i> , 2006 , 142, 1442-59	6.6	57
95	A surface endogalactanase in <i>Bacteroides thetaiotaomicron</i> confers keystone status for arabinogalactan degradation. <i>Nature Microbiology</i> , 2018 , 3, 1314-1326	26.6	57
94	The environmental and economic sustainability of potential bioethanol from willow in the UK. <i>Bioresource Technology</i> , 2010 , 101, 9612-23	11	55
93	Probing the molecular architecture of <i>Arabidopsis thaliana</i> secondary cell walls using two- and three-dimensional ^{13}C solid state nuclear magnetic resonance spectroscopy. <i>Biochemistry</i> , 2015 , 54, 2335-45	3.2	54
92	Aspen Tension Wood Fibers Contain β (1 \rightarrow 4)-Galactans and Acidic Arabinogalactans Retained by Cellulose Microfibrils in Gelatinous Walls. <i>Plant Physiology</i> , 2015 , 169, 2048-63	6.6	54
91	The use of isotope-coded affinity tags (ICAT) to study organelle proteomes in <i>Arabidopsis thaliana</i> . <i>Biochemical Society Transactions</i> , 2004 , 32, 520-3	5.1	54
90	Mapping of Ras-related GTP-binding proteins by GTP overlay following two-dimensional gel electrophoresis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994 , 91, 7874-8	11.5	53
89	A scaffold-associated DNA region is located downstream of the pea plastocyanin gene. <i>Plant Cell</i> , 1991 , 3, 1239-50	11.6	50

88	Plant organelle proteomics. <i>Current Opinion in Plant Biology</i> , 2007 , 10, 594-9	9.9	48
87	Effects of Xylan Side-Chain Substitutions on Xylan-Cellulose Interactions and Implications for Thermal Pretreatment of Cellulosic Biomass. <i>Biomacromolecules</i> , 2017 , 18, 1311-1321	6.9	46
86	Evidence that GH115 β -glucuronidase activity, which is required to degrade plant biomass, is dependent on conformational flexibility. <i>Journal of Biological Chemistry</i> , 2014 , 289, 53-64	5.4	46
85	Characterisation of FUT4 and FUT6 β (1 \rightarrow 2)-fucosyltransferases reveals that absence of root arabinogalactan fucosylation increases Arabidopsis root growth salt sensitivity. <i>PLoS ONE</i> , 2014 , 9, e93297	3.7	46
84	Xylan decoration patterns and the plant secondary cell wall molecular architecture. <i>Biochemical Society Transactions</i> , 2016 , 44, 74-8	5.1	46
83	Suppression of xylan endotransglycosylase PtXyn10A affects cellulose microfibril angle in secondary wall in aspen wood. <i>New Phytologist</i> , 2015 , 205, 666-81	9.8	44
82	Biogenesis of cell-surface polarity in epithelial cells and neurons. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 1992 , 57, 611-9	3.9	44
81	Monoclonal antibodies indicate low-abundance links between heteroxylan and other glycans of plant cell walls. <i>Planta</i> , 2015 , 242, 1321-34	4.7	43
80	Oligosaccharide relative quantitation using isotope tagging and normal-phase liquid chromatography/mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2008 , 22, 2723-30	2.2	43
79	Plant endoplasmic reticulum supports the protein secretory pathway and has a role in proliferating tissues. <i>Plant Journal</i> , 2006 , 48, 657-73	6.9	43
78	Molecular cloning and subcellular localization of three GTP-binding proteins of the rab subfamily. <i>Journal of Cell Science</i> , 1993 , 106 (Pt 4), 1249-61	5.3	42
77	Phylogenetic and biochemical evidence supports the recruitment of an ADP-glucose translocator for the export of photosynthate during plastid endosymbiosis. <i>Molecular Biology and Evolution</i> , 2010 , 27, 2691-701	8.3	39
76	Galactoglucomannans increase cell population density and alter the protoxylem/metaxylem tracheary element ratio in xylogenetic cultures of Zinnia. <i>Plant Physiology</i> , 2006 , 142, 696-709	6.6	39
75	Isolation of a mouse cDNA encoding Rab23, a small novel GTPase expressed predominantly in the brain. <i>Gene</i> , 1994 , 138, 207-11	3.8	39
74	Expression of exogenous proteins in mammalian cells with the Semliki Forest virus vector. <i>Methods in Cell Biology</i> , 1994 , 43 Pt A, 43-53	1.8	39
73	UUAT1 Is a Golgi-Localized UDP-Uronic Acid Transporter That Modulates the Polysaccharide Composition of Arabidopsis Seed Mucilage. <i>Plant Cell</i> , 2017 , 29, 129-143	11.6	36
72	Identification of an algal xylan synthase indicates that there is functional orthology between algal and plant cell wall biosynthesis. <i>New Phytologist</i> , 2018 , 218, 1049-1060	9.8	35
71	A unique family of proteins associated with internalized membranes in protein storage vacuoles of the Brassicaceae. <i>Plant Journal</i> , 2005 , 41, 429-41	6.9	34

70	Identification of an additional protein involved in mannan biosynthesis. <i>Plant Journal</i> , 2013 , 73, 105-17	6.9	33
69	Removal of glucuronic acid from xylan is a strategy to improve the conversion of plant biomass to sugars for bioenergy. <i>Biotechnology for Biofuels</i> , 2017 , 10, 224	7.8	33
68	Expression of photosynthesis gene-promoter fusions in leaf epidermal cells of transgenic tobacco plants. <i>Plant Journal</i> , 1991 , 1, 115-120	6.9	32
67	Label-free protein quantification for plant Golgi protein localization and abundance. <i>Plant Physiology</i> , 2014 , 166, 1033-43	6.6	31
66	Vascular Plants Are Globally Significant Contributors to Marine Carbon Fluxes and Sinks. <i>Annual Review of Marine Science</i> , 2020 , 12, 469-497	15.4	31
65	KONJAC1 and 2 Are Key Factors for GDP-Mannose Generation and Affect l-Ascorbic Acid and Glucomannan Biosynthesis in Arabidopsis. <i>Plant Cell</i> , 2015 , 27, 3397-409	11.6	30
64	Development and application of a high throughput carbohydrate profiling technique for analyzing plant cell wall polysaccharides and carbohydrate active enzymes. <i>Biotechnology for Biofuels</i> , 2013 , 6, 94	7.8	30
63	The Patterned Structure of Galactoglucomannan Suggests It May Bind to Cellulose in Seed Mucilage. <i>Plant Physiology</i> , 2018 , 178, 1011-1026	6.6	30
62	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
61	Proteomic complex detection using sedimentation. <i>Analytical Chemistry</i> , 2007 , 79, 2078-83	7.8	27
60	Analysis of methylated and unmethylated polygalacturonic acid structure by polysaccharide analysis using carbohydrate gel electrophoresis. <i>Analytical Biochemistry</i> , 2003 , 321, 174-82	3.1	27
59	Calcium Binding by Arabinogalactan Polysaccharides Is Important for Normal Plant Development. <i>Plant Cell</i> , 2020 , 32, 3346-3369	11.6	27
58	Enzymatic fingerprinting of Arabidopsis pectic polysaccharides using polysaccharide analysis by carbohydrate gel electrophoresis (PACE). <i>Planta</i> , 2006 , 224, 163-74	4.7	26
57	Cell wall remodeling under salt stress: Insights into changes in polysaccharides, feruloylation, lignification, and phenolic metabolism in maize. <i>Plant, Cell and Environment</i> , 2020 , 43, 2172-2191	8.4	25
56	An engineered GH1 β glucosidase displays enhanced glucose tolerance and increased sugar release from lignocellulosic materials. <i>Scientific Reports</i> , 2019 , 9, 4903	4.9	24
55	An investigation of pectin methylesterification patterns by two independent methods: capillary electrophoresis and polysaccharide analysis using carbohydrate gel electrophoresis. <i>Carbohydrate Research</i> , 2005 , 340, 1193-9	2.9	22
54	Isolation of a murine cDNA clone encoding Rab19, a novel tissue-specific small GTPase. <i>Gene</i> , 1995 , 155, 257-60	3.8	20
53	L-Fucose-containing arabinogalactan-protein in radish leaves. <i>Carbohydrate Research</i> , 2015 , 415, 1-11	2.9	19

52	Structural Imaging of Native Cryo-Preserved Secondary Cell Walls Reveals the Presence of Macrofibrils and Their Formation Requires Normal Cellulose, Lignin and Xylan Biosynthesis. <i>Frontiers in Plant Science</i> , 2019 , 10, 1398	6.2	19
51	Enzymatic fragmentation of carbohydrate moieties of radish arabinogalactan-protein and elucidation of the structures. <i>Bioscience, Biotechnology and Biochemistry</i> , 2014 , 78, 818-31	2.1	19
50	An efficient arabinoxylan-debranching β -L-arabinofuranosidase of family GH62 from <i>Aspergillus nidulans</i> contains a secondary carbohydrate binding site. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 6265-6277	5.7	18
49	Three Decades of Advances in Arabinogalactan-Protein Biosynthesis. <i>Frontiers in Plant Science</i> , 2020 , 11, 610377	6.2	18
48	Deficiency of adenosine kinase activity affects the degree of pectin methyl-esterification in cell walls of <i>Arabidopsis thaliana</i> . <i>Planta</i> , 2006 , 224, 1401-14	4.7	17
47	Hemocyanin facilitates lignocellulose digestion by wood-boring marine crustaceans. <i>Nature Communications</i> , 2018 , 9, 5125	17.4	16
46	A Transcriptomic Analysis of Xylan Mutants Does Not Support the Existence of a Secondary Cell Wall Integrity System in <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2018 , 9, 384	6.2	15
45	Characterization of a β -galactosidase from <i>Bacillus subtilis</i> with transgalactosylation activity. <i>International Journal of Biological Macromolecules</i> , 2018 , 120, 279-287	7.9	15
44	Two members of the DUF579 family are responsible for arabinogalactan methylation in <i>Arabidopsis</i> . <i>Plant Direct</i> , 2019 , 3, e00117	3.3	14
43	The ectopically parting cells 1-2 (epc1-2) mutant exhibits an exaggerated response to abscisic acid. <i>Journal of Experimental Botany</i> , 2007 , 58, 1813-23	7	14
42	Palmitoylation in plants: new insights through proteomics. <i>Plant Signaling and Behavior</i> , 2013 , 8,	2.5	12
41	Determination of the N-glycosylation patterns of seed proteins: applications to determine the authenticity and substantial equivalence of genetically modified (GM) crops. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 8779-88	5.7	12
40	Sequence of a canine cDNA clone encoding a Ran/TC4 GTP-binding protein. <i>Gene</i> , 1992 , 120, 325-6	3.8	11
39	Oligosaccharide Binding and Thermostability of Two Related AA9 Lytic Polysaccharide Monoxygenases. <i>Biochemistry</i> , 2020 , 59, 3347-3358	3.2	11
38	Secondary cell wall characterization in a BY-2 inductive system. <i>Plant Cell, Tissue and Organ Culture</i> , 2013 , 115, 223-232	2.7	10
37	GARNet, the Genomic <i>Arabidopsis</i> Resource Network. <i>Trends in Plant Science</i> , 2002 , 7, 145-7	13.1	10
36	Development of an oligosaccharide library to characterise the structural variation in glucuronoarabinoxylan in the cell walls of vegetative tissues in grasses. <i>Biotechnology for Biofuels</i> , 2019 , 12, 109	7.8	9
35	Plant embryogenesis: cell division forms a pattern. <i>Current Biology</i> , 1996 , 6, 683-5	6.3	9

34	Action of an endo- β 1,3(4)-glucanase on cellobiosyl unit structure in barley β 1,3:1,4-glucan. <i>Bioscience, Biotechnology and Biochemistry</i> , 2015 , 79, 1810-7	2.1	8
33	Studies of enzymatic cleavage of cellulose using polysaccharide analysis by carbohydrate gel electrophoresis (PACE). <i>Methods in Enzymology</i> , 2012 , 510, 51-67	1.7	8
32	Carbohydrate gel electrophoresis. <i>Methods in Molecular Biology</i> , 2011 , 715, 81-92	1.4	8
31	Loss of TaIRX9b gene function in wheat decreases chain length and amount of arabinoxylan in grain but increases cross-linking. <i>Plant Biotechnology Journal</i> , 2020 , 18, 2316-2327	11.6	7
30	Secondary cell wall composition and candidate gene expression in developing willow (<i>Salix purpurea</i>) stems. <i>Planta</i> , 2014 , 239, 1041-53	4.7	7
29	Importance of Water in Maintaining Softwood Secondary Cell Wall Nanostructure. <i>Biomacromolecules</i> , 2021 , 22, 4669-4680	6.9	7
28	Correlative FLIM-confocal-Raman mapping applied to plant lignin composition and autofluorescence. <i>Micron</i> , 2019 , 126, 102733	2.3	5
27	BdGT43B2 functions in xylan biosynthesis and is essential for seedling survival in. <i>Plant Direct</i> , 2020 , 4, e00216	3.3	5
26	Xylan Structure and Dynamics in Native Grass Cell Walls Investigated by Solid-State NMR Spectroscopy. <i>ACS Omega</i> , 2021 , 6, 15460-15471	3.9	5
25	Water deficit and abscisic acid treatments increase the expression of a glucomannan mannosyltransferase gene (GMMT) in <i>Aloe vera</i> Burm. F. <i>Phytochemistry</i> , 2019 , 159, 90-101	4	5
24	Spontaneous rearrangement of acetylated xylan on hydrophilic cellulose surfaces. <i>Cellulose</i> , 2021 , 28, 3327-3345	5.5	5
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15	Internal fragmentation of proteins in polyacrylamide matrices for microsequencing. <i>The Protein Journal</i> , 1992 , 11, 356-356		1
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11	Expression of a glucomannan mannosyltransferase gene (GMMT) from Aloe vera is induced by water deficit and abscisic acid		1
10	Protein Sorting and Glycolipid-Enriched Detergent-Insoluble Complexes in Epithelial Cells 1994 , 107-114		0
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