Tony Bacic

List of Publications by Year
in descending order

183 papers	14,127 citations	25423 59 h-index	26792 111 g-index
193 all docs	193 docs citations	193 times ranked	16744 citing authors

#	Article	IF	Citations
1	Cell surface carbohydrates of symbiotic dinoflagellates and their role in the establishment of cnidarianâ€“dinoflagellate symbiosis. ISME Journal, 2022, 16, 190-199.	4.4	12
2	FLA11 and FLA12 glycoproteins fineâ€tune stem secondary wall properties in response to mechanical stresses. New Phytologist, 2022, 233, 1750-1767.	3.5	27
3	Rain events at maturity severely impact the seed quality of psyllium (<i>Plantago ovata</i> Forssk.). Journal of Agronomy and Crop Science, 2022, 208, 567-581.	1.7	3
4	The gooâ€d stuff: <i>Plantago</i> as a myxospermous model with modern utility. New Phytologist, 2021, 229, 1917-1923.	3.5	14
5	Cell wall modification by the xyloglucan endotransglucosylase/hydrolase <scp>XTH19</scp> influences freezing tolerance after cold and subâ€zero acclimation. Plant, Cell and Environment, 2021, 44, 915-930.	2.8	43
6	Recent advances in <i>Cannabis sativa</i> genomics research. New Phytologist, 2021, 230, 73-89.	3.5	66
7	Untargeted Metabolomic Analyses Reveal Chemical Complexity of Dioecious. Australian Journal of Chemistry, 2021, 74, 463-479.	0.5	11
8	A Pipeline towards the Biochemical Characterization of the Arabidopsis GT14 Family. International Journal of Molecular Sciences, 2021, 22, 1360.	1.8	7
9	Cracking the â€œSugar Codeâ€: A Snapshot of N- and O-Glycosylation Pathways and Functions in Plants Cells. Frontiers in Plant Science, 2021, 12, 640919.	1.7	33
10	Biochemical and Functional Characterization of GALT8, an Arabidopsis GT31 Î²-(1,3)-Galactosyltransferase That Influences Seedling Development. Frontiers in Plant Science, 2021, 12, 678564.	1.7	8
11	The composition of Australian Plantago seeds highlights their potential as nutritionally-rich functional food ingredients. Scientific Reports, 2021, 11, 12692.	1.6	14
12	MADS1 maintains barley spike morphology at high ambient temperatures. Nature Plants, 2021, 7, 1093-1107.	4.7	35
13	Analysis of Genetic Diversity in the Traditional Chinese Medicine Plant â€˜Kushenâ€™ (Sophora flavescens) Tj ETQq1 1 0.784314 rgBT	1.7	2
14	Transcript Profiling of MIKCc MADS-Box Genes Reveals Conserved and Novel Roles in Barley Inflorescence Development. Frontiers in Plant Science, 2021, 12, 705286.	1.7	15
15	The cell wall polysaccharides of a photosynthetic relative of apicomplexans, <i>Chromera velia</i>. Journal of Phycology, 2021, 57, 1805-1809.	1.0	0
16	Genome-wide association study reveals the genetic complexity of fructan accumulation patterns in barley grain. Journal of Experimental Botany, 2021, 72, 2383-2402.	2.4	17
17	Epigenetic mechanisms involved in intrauterine growth restriction and aberrant kidney development and function. Journal of Developmental Origins of Health and Disease, 2021, 12, 952-962.	0.7	7
18	Nutritional properties of selected superfood extracts and their potential health benefits. PeerJ, 2021, 9, e12525.	0.9	12

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19	Transcriptional and biochemical analyses of gibberellin expression and content in germinated barley grain. Journal of Experimental Botany, 2020, 71, 1870-1884.	2.4	17
20	Effects of Excess Manganese on the Xylem Sap Protein Profile of Tomato (Solanum lycopersicum) as Revealed by Shotgun Proteomic Analysis. International Journal of Molecular Sciences, 2020, 21, 8863.	1.8	10
21	The Role of Brachypodium distachyon Wall-Associated Kinases (WAKs) in Cell Expansion and Stress Responses. Cells, 2020, 9, 2478.	1.8	18
22	UDPâ€Api/UDPâ€Xyl synthases affect plant development by controlling the content of UDPâ€Api to regulate the RGâ€IIâ€borate complex. Plant Journal, 2020, 104, 252-267.	2.8	12
23	The novel features of Plantago ovata seed mucilage accumulation, storage and release. Scientific Reports, 2020, 10, 11766.	1.6	12
24	Targeted mutation of barley (1,3;1,4)â€Î²â€glucan synthases reveals complex relationships between the storage and cell wall polysaccharide content. Plant Journal, 2020, 104, 1009-1022.	2.8	35
25	Fasciclin-Like Arabinogalactan-Protein 16 (FLA16) Is Required for Stem Development in Arabidopsis. Frontiers in Plant Science, 2020, 11, 615392.	1.7	28
26	Evolution of Sequence-Diverse Disordered Regions in a Protein Family: Order within the Chaos. Molecular Biology and Evolution, 2020, 37, 2155-2172.	3.5	20
27	Arabinogalactan-proteins of Zostera marina L. contain unique glycan structures and provide insight into adaption processes to saline environments. Scientific Reports, 2020, 10, 8232.	1.6	37
28	A small-scale fractionation pipeline for rapid analysis of seed mucilage characteristics. Plant Methods, 2020, 16, 20.	1.9	10
29	Integrative Multi-omics Analyses of Barley Rootzones under Salinity Stress Reveal Two Distinctive Salt Tolerance Mechanisms. Plant Communications, 2020, 1, 100031.	3.6	26
30	The effect of zinc fertilisation and arbuscular mycorrhizal fungi on grain quality and yield of contrasting barley cultivars. Functional Plant Biology, 2020, 47, 122.	1.1	12
31	Biochemical Compositional Analysis and Kinetic Modeling of Hydrothermal Carbonization of Australian Saltbush. Energy & Fuels, 2019, 33, 12469-12479.	2.5	24
32	Molecular Mechanism of Xylogenesis in Moso Bamboo (Phyllostachys edulis) Shoots during Cold Storage. Polymers, 2019, 11, 38.	2.0	9
33	Barley grain (1,3;1,4)-Î²-glucan content: effects of transcript and sequence variation in genes encoding the corresponding synthase and endohydrolase enzymes. Scientific Reports, 2019, 9, 17250.	1.6	24
34	Natural Variation in Ovule Morphology Is Influenced by Multiple Tissues and Impacts Downstream Grain Development in Barley (Hordeum vulgare L.). Frontiers in Plant Science, 2019, 10, 1374.	1.7	9
35	Hydrothermal Carbonization of Australian Saltbush. Energy & Fuels, 2019, 33, 1157-1166.	2.5	9
36	A Novel (1,4)-Î²-Linked Glucoxylan Is Synthesized by Members of the <i>Cellulose Synthase-Like F</i> Gene Family in Land Plants. ACS Central Science, 2019, 5, 73-84.	5.3	25

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37	Accumulation of volatile phenol glycoconjugates in grapes following grapevine exposure to smoke and potential mitigation of smoke taint by foliar application of kaolin. Planta, 2019, 249, 941-952.	1.6	31
38	Plant glycosylphosphatidylinositol anchored proteins at the plasma membraneâ€cell wall nexus. Journal of Integrative Plant Biology, 2018, 60, 649-669.	4.1	62
39	Functional Characterization of a Glycosyltransferase from the Moss <i>Physcomitrella patens</i> Involved in the Biosynthesis of a Novel Cell Wall Arabinoglucan. Plant Cell, 2018, 30, 1293-1308.	3.1	22
40	Genetic and environmental factors contribute to variation in cell wall composition in mature desi chickpea (<i>Cicer arietinum</i>L.) cotyledons. Plant, Cell and Environment, 2018, 41, 2195-2208.	2.8	23
41	Root cell wall solutions for crop plants in saline soils. Plant Science, 2018, 269, 47-55.	1.7	159
42	N-linked Glycan Micro-heterogeneity in Glycoproteins of Arabidopsis. Molecular and Cellular Proteomics, 2018, 17, 413-421.	2.5	37
43	Method for hullâ€less barley transformation and manipulation of grain mixedâ€linkage betaâ€glucan. Journal of Integrative Plant Biology, 2018, 60, 382-396.	4.1	13
44	Cell wall biomechanics: a tractable challenge in manipulating plant cell walls â€˜fit for purposeâ€™!. Current Opinion in Biotechnology, 2018, 49, 163-171.	3.3	42
45	Loss of LOFSEP Transcription Factor Function Converts Spikelet to Leaf-Like Structures in Rice. Plant Physiology, 2018, 176, 1646-1664.	2.3	49
46	Blue Light Regulates Secondary Cell Wall Thickening via MYC2/MYC4 Activation of the <i>NST1</i>-Directed Transcriptional Network in Arabidopsis. Plant Cell, 2018, 30, 2512-2528.	3.1	59
47	Hitting the Wallâ€”Sensing and Signaling Pathways Involved in Plant Cell Wall Remodeling in Response to Abiotic Stress. Plants, 2018, 7, 89.	1.6	110
48	A Golgi UDP-GlcNAc transporter delivers substrates for N-linked glycans and sphingolipids. Nature Plants, 2018, 4, 792-801.	4.7	27
49	Quantitative structural organisation model for wheat endosperm cell walls: Cellulose as an important constituent. Carbohydrate Polymers, 2018, 196, 199-208.	5.1	61
50	Revised Phylogeny of the <i>Cellulose Synthase</i> Gene Superfamily: Insights into Cell Wall Evolution. Plant Physiology, 2018, 177, 1124-1141.	2.3	118
51	The plant secretory pathway seen through the lens of the cell wall. Protoplasma, 2017, 254, 75-94.	1.0	41
52	Effect of Processing on Viscosity and Molecular Weight of (1,3)(1,4)â€Î²â€Glucan in Western Australian Oat Cultivars. Cereal Chemistry, 2017, 94, 625-632.	1.1	5
53	Isolation of tissues and preservation of <scp>RNA</scp> from intact, germinated barley grain. Plant Journal, 2017, 91, 754-765.	2.8	28
54	Insights into the Evolution of Hydroxyproline-Rich Glycoproteins from 1000 Plant Transcriptomes. Plant Physiology, 2017, 174, 904-921.	2.3	62

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55	Pipeline to Identify Hydroxyproline-Rich Glycoproteins. Plant Physiology, 2017, 174, 886-903.	2.3	61
56	Variation in barley (1Ââ†' 3, 1Ââ†'Â4)-Î²-glucan endohydrolases reveals novel allozymes with increased thermostability. Theoretical and Applied Genetics, 2017, 130, 1053-1063.	1.8	6
57	Novel Barley (1â†'3,1â†'4)-Î²-Glucan Endohydrolase Alleles Confer Increased Enzyme Thermostability. Journal of Agricultural and Food Chemistry, 2017, 65, 421-428.	2.4	1
58	Regulation of cell wall genes in response to DEFECTIVE KERNEL1 (DEK1)-induced cell wall changes. Plant Signaling and Behavior, 2017, 12, e1345405.	1.2	2
59	Isolation and structural elucidation by 2D NMR of planteose, a major oligosaccharide in the mucilage of chia (Salvia hispanica L.) seeds. Carbohydrate Polymers, 2017, 175, 231-240.	5.1	36
60	Functional Specialization of Cellulose Synthase Isoforms in a Moss Shows Parallels with Seed Plants. Plant Physiology, 2017, 175, 210-222.	2.3	34
61	KNS4/UPEX1: A Type II Arabinogalactan <i>Î²</i>-(1,3)-Galactosyltransferase Required for Pollen Exine Development. Plant Physiology, 2017, 173, 183-205.	2.3	74
62	Enrichment of Golgi Membranes from Triticum aestivum (Wheat) Seedlings. Methods in Molecular Biology, 2017, 1511, 131-150.	0.4	3
63	<i>Arabidopsis </i><scp>DEFECTIVE KERNEL</scp>1 regulates cell wall composition and axial growth in the inflorescence stem. Plant Direct, 2017, 1, e00027.	0.8	8
64	Dissecting the Genetic Basis for Seed Coat Mucilage Heteroxylan Biosynthesis in Plantago ovata Using Gamma Irradiation and Infrared Spectroscopy. Frontiers in Plant Science, 2017, 8, 326.	1.7	20
65	Morphology, Carbohydrate Distribution, Gene Expression, and Enzymatic Activities Related to Cell Wall Hydrolysis in Four Barley Varieties during Simulated Malting. Frontiers in Plant Science, 2017, 8, 1872.	1.7	24
66	A Genome Wide Association Study of arabinoxylan content in 2-row spring barley grain. PLoS ONE, 2017, 12, e0182537.	1.1	29
67	Fruit Calcium: Transport and Physiology. Frontiers in Plant Science, 2016, 7, 569.	1.7	233
68	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. New Phytologist, 2016, 209, 1428-1441.	3.5	87
69	Differences in glycosyltransferase family 61 accompany variation in seed coat mucilage composition in<i>Plantago</i>spp.. Journal of Experimental Botany, 2016, 67, 6481-6495.	2.4	46
70	Regulation of Meristem Morphogenesis by Cell Wall Synthases in Arabidopsis. Current Biology, 2016, 26, 1404-1415.	1.8	89
71	Genetics, Transcriptional Profiles, and Catalytic Properties of the UDP-Arabinose Mutase Family from Barley. Biochemistry, 2016, 55, 322-334.	1.2	13
72	A Glycosyltransferase from <i>Nicotiana alata</i> Pollen Mediates Synthesis of a Linear (1,5)-Î±-L-Arabinan When Expressed in Arabidopsis. Plant Physiology, 2016, 170, 1962-1974.	2.3	17

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73	Downâ€regulation of the <i>glucan synthaseâ€like 6</i> gene (<i>HvGsl6</i>) in barley leads to decreased callose accumulation and increased cell wall penetration by <i>Blumeria graminis</i> f. sp. <i>hordei</i>. New Phytologist, 2016, 212, 434-443.	3.5	41
74	The barley (<i>Hordeum vulgare</i>) cellulose synthaseâ€like D2 gene (<i>HvCslD2</i>) mediates penetration resistance to hostâ€adapted and nonhost isolates of the powdery mildew fungus. New Phytologist, 2016, 212, 421-433.	3.5	52
75	DEFECTIVE KERNEL1 (DEK1) Regulates Cell Walls in the Leaf Epidermis. Plant Physiology, 2016, 172, 2204-2218.	2.3	28
76	Cell-Type-Specific H⁺-ATPase Activity in Root Tissues Enables K⁺ Retention and Mediates Acclimation of Barley (<i>Hordeum vulgare</i>) to Salinity Stress. Plant Physiology, 2016, 172, 2445-2458.	2.3	158
77	Low-Input Fermentations of Agave tequilana Leaf Juice Generate High Returns on Ethanol Yields. Bioenergy Research, 2016, 9, 1142-1154.	2.2	9
78	The Dynamics of Transcript Abundance during Cellularization of Developing Barley Endosperm. Plant Physiology, 2016, 170, 1549-1565.	2.3	47
79	Root spatial metabolite profiling of two genotypes of barley<i>(Hordeum vulgare</i>L.) reveals differences in response to short-term salt stress. Journal of Experimental Botany, 2016, 67, 3731-3745.	2.4	137
80	(1,3;1,4)-Î²-Glucan Biosynthesis by the CSLF6 Enzyme: Position and Flexibility of Catalytic Residues Influence Product Fine Structure. Biochemistry, 2016, 55, 2054-2061.	1.2	37
81	Mass spectrometry imaging for plant biology: a review. Phytochemistry Reviews, 2016, 15, 445-488.	3.1	210
82	Genetic Diversity and Genome Wide Association Study of Î²-Glucan Content in Tetraploid Wheat Grains. PLoS ONE, 2016, 11, e0152590.	1.1	40
83	Prospecting for Energy-Rich Renewable Raw Materials: Sorghum Stem Case Study. PLoS ONE, 2016, 11, e0156638.	1.1	6
84	Distribution, structure and biosynthetic gene families of (1,3;1,4)â€Î²â€glucan in <i>Sorghum bicolor</i>. Journal of Integrative Plant Biology, 2015, 57, 429-445.	4.1	33
85	Genetics and physiology of cell wall polysaccharides in the model C4 grass, Setaria viridis spp. BMC Plant Biology, 2015, 15, 236.	1.6	16
86	Proteomic analysis of Pteropus alecto kidney cells in response to the viral mimic, Poly I:C. Proteome Science, 2015, 13, 25.	0.7	6
87	FunRich: An open access standalone functional enrichment and interaction network analysis tool. Proteomics, 2015, 15, 2597-2601.	1.3	1,145
88	The dynamics of cereal cyst nematode infection differ between susceptible and resistant barley cultivars and lead to changes in (1,3;1,4)â€Î²â€glucan levels and <scp><i>HvCslF</i></scp> gene transcript abundance. New Phytologist, 2015, 207, 135-147.	3.5	40
89	Prospecting for Energy-Rich Renewable Raw Materials: Agave Leaf Case Study. PLoS ONE, 2015, 10, e0135382.	1.1	73
90	Characterization of protein N-glycosylation by tandem mass spectrometry using complementary fragmentation techniques. Frontiers in Plant Science, 2015, 6, 674.	1.7	26

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91	EXIMS: an improved data analysis pipeline based on a new peak picking method for EXploring Imaging Mass Spectrometry data. Bioinformatics, 2015, 31, 3198-3206.	1.8	31
92	Regulation of Starch Stores by a Ca2+-Dependent Protein Kinase Is Essential for Viable Cyst Development in Toxoplasma gondii. Cell Host and Microbe, 2015, 18, 670-681.	5.1	71
93	Detection of QTL for metabolic and agronomic traits in wheat with adjustments for variation at genetic loci that affect plant phenology. Plant Science, 2015, 233, 143-154.	1.7	72
94	A tandem liquid chromatographyâ€“mass spectrometry (LCâ€“MS) method for profiling small molecules in complex samples. Metabolomics, 2015, 11, 1552-1562.	1.4	12
95	Grape marc as a source of carbohydrates for bioethanol: Chemical composition, pre-treatment and saccharification. Bioresource Technology, 2015, 193, 76-83.	4.8	105
96	Interactions of Arabinoxylan and (1,3)(1,4)-Î²-Glucan with Cellulose Networks. Biomacromolecules, 2015, 16, 1232-1239.	2.6	63
97	Differential expression of the HvCslF6 gene late in grain development may explain quantitative differences in (1,3;1,4)-Î²-glucan concentration in barley. Molecular Breeding, 2015, 35, 20.	1.0	17
98	Determining the Subcellular Location of Synthesis and Assembly of the Cell Wall Polysaccharide (1,3;) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.1	61
99	Endosymbiosis undone by stepwise elimination of the plastid in a parasitic dinoflagellate. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5767-5772.	3.3	88
100	Wine Protein Haze: Mechanisms of Formation and Advances in Prevention. Journal of Agricultural and Food Chemistry, 2015, 63, 4020-4030.	2.4	129
101	Unique Aspects of the Structure and Dynamics of Elementary I<i>Î²</i> Cellulose Microfibrils Revealed by Computational Simulations Â. Plant Physiology, 2015, 168, 3-17.	2.3	77
102	Arabidopsis leucine-rich repeat extensin (LRX) proteins modify cell wall composition and influence plant growth. BMC Plant Biology, 2015, 15, 155.	1.6	109
103	Asparagus Spears as a Model to Study Heteroxylan Biosynthesis during Secondary Wall Development. PLoS ONE, 2015, 10, e0123878.	1.1	17
104	A Genome-Wide Association Study for Culm Cellulose Content in Barley Reveals Candidate Genes Co-Expressed with Members of the CELLULOSE SYNTHASE A Gene Family. PLoS ONE, 2015, 10, e0130890.	1.1	24
105	Genome Wide Association Mapping for Arabinoxylan Content in a Collection of Tetraploid Wheats. PLoS ONE, 2015, 10, e0132787.	1.1	56
106	Evolution and development of cell walls in cereal grains. Frontiers in Plant Science, 2014, 5, 456.	1.7	124
107	Biochemical and molecular changes associated with heteroxylan biosynthesis in Neolamarckia cadamba (Rubiaceae) during xylogenesis. Frontiers in Plant Science, 2014, 5, 602.	1.7	20
108	Differential accumulation of callose, arabinoxylan and cellulose in nonpenetrated versus penetrated papillae on leaves of barley infected with <i>Blumeria graminis</i> f. sp. <i>hordei</i>. New Phytologist, 2014, 204, 650-660.	3.5	125

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109	Are designer plant cell walls a realistic aspiration or will the plasticity of the plant's metabolism win out?. Current Opinion in Biotechnology, 2014, 26, 108-114.	3.3	50
110	Plant cell wall engineering: applications in biofuel production and improved human health. Current Opinion in Biotechnology, 2014, 26, 79-84.	3.3	67
111	The reducing end sequence of wheat endosperm cell wall arabinoxylans. Carbohydrate Research, 2014, 386, 23-32.	1.1	17
112	Evidence for land plant cell wall biosynthetic mechanisms in charophyte green algae. Annals of Botany, 2014, 114, 1217-1236.	1.4	80
113	The Barley Genome Sequence Assembly Reveals Three Additional Members of the CslF (1,3;1,4)-Î²-Glucan Synthase Gene Family. PLoS ONE, 2014, 9, e90888.	1.1	39
114	The response of the maize nitrate transport system to nitrogen demand and supply across the lifecycle. New Phytologist, 2013, 198, 82-94.	3.5	108
115	Exploratory analysis of high-throughput metabolomic data. Metabolomics, 2013, 9, 1311-1320.	1.4	11
116	Genetic variation in the root growth response of barley genotypes to salinity stress. Functional Plant Biology, 2013, 40, 516.	1.1	53
117	Characterization of Ion Contents and Metabolic Responses to Salt Stress of Different Arabidopsis AtHKT1;1 Genotypes and Their Parental Strains. Molecular Plant, 2013, 6, 350-368.	3.9	61
118	Current challenges in cell wall biology in the cereals and grasses. Frontiers in Plant Science, 2012, 3, 130.	1.7	84
119	Arabinogalactan-proteins and the research challenges for these enigmatic plant cell surface proteoglycans. Frontiers in Plant Science, 2012, 3, 140.	1.7	135
120	Determining the polysaccharide composition of plant cell walls. Nature Protocols, 2012, 7, 1590-1607.	5.5	557
121	Preparation of plant cells for transmission electron microscopy to optimize immunogold labeling of carbohydrate and protein epitopes. Nature Protocols, 2012, 7, 1716-1727.	5.5	112
122	An exo-Î²-(1â†’3)-d-galactanase from Streptomyces sp. provides insights into type II arabinogalactan structure. Carbohydrate Research, 2012, 352, 70-81.	1.1	28
123	O-Glycosylated Cell Wall Proteins Are Essential in Root Hair Growth. Science, 2011, 332, 1401-1403.	6.0	287
124	Overâ€expression of specific <i>HvCslF</i> cellulose synthaseâ€like genes in transgenic barley increases the levels of cell wall (1,3;1,4)â€Î²â€‹<scp>d</scp>â€glucans and alters their fine structure. Plant Biotechnology Journal, 2011, 9, 117-135.	4.1	171
125	The charophycean green algae provide insights into the early origins of plant cell walls. Plant Journal, 2011, 68, 201-211.	2.8	226
126	Effects of Yariv dyes, arabinogalactan-protein binding reagents, on the growth and viability of Brazilian pine suspension culture cells. Trees - Structure and Function, 2010, 24, 391-398.	0.9	10

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127	Heterogeneity in the chemistry, structure and function of plant cell walls. Nature Chemical Biology, 2010, 6, 724-732.	3.9	509
128	Arabinogalactan-Proteins: Key Regulators at the Cell Surface?. Plant Physiology, 2010, 153, 403-419.	2.3	419
129	REVIEW: Variability in Fine Structures of Noncellulosic Cell Wall Polysaccharides from Cereal Grains: Potential Importance in Human Health and Nutrition. Cereal Chemistry, 2010, 87, 272-282.	1.1	167
130	Plant cell walls: the skeleton of the plant world. Functional Plant Biology, 2010, 37, 357.	1.1	161
131	A Customized Gene Expression Microarray Reveals That the Brittle Stem Phenotype <i>fs2</i> of Barley Is Attributable to a Retroelement in the <i>HvCesA4</i> Cellulose Synthase Gene Â Â. Plant Physiology, 2010, 153, 1716-1728.	2.3	37
132	Biotransformation of ingenol-3-angelate in four plant cell suspension cultures. Biocatalysis and Biotransformation, 2009, 27, 186-194.	1.1	11
133	Metabolic profiling of transgenic wheat over-expressing the high-molecular-weight Dx5 glutenin subunit. Metabolomics, 2009, 5, 239-252.	1.4	36
134	Hyphal cell walls from the plant pathogen <i>Rhynchosporiumâ€ƒsecalis</i> contain (1,3/1,6)â€Î²â€‹<scp>d</scp>â€glucans, galactoâ€•and rhamnomannans, (1,3;1,4)â€Î²â€‹<scp>d</scp>â€glucans and chitin. FEBS Journal, 2009, 276, 3698-3709.	2.2	38
135	Metabolic responses to salt stress of barley (Hordeum vulgare L.) cultivars, Sahara and Clipper, which differ in salinity tolerance. Journal of Experimental Botany, 2009, 60, 4089-4103.	2.4	375
136	(1,3;1,4)-Î²-D-Glucans in Cell Walls of the Poaceae, Lower Plants, and Fungi: A Tale of Two Linkages. Molecular Plant, 2009, 2, 873-882.	3.9	164
137	Phylogenetic analysis and functional characterisation of strictosidine synthase-like genes in Arabidopsis thaliana. Functional Plant Biology, 2009, 36, 1098.	1.1	13
138	Identification of a novel group of putative Arabidopsis thaliana Î²-(1,3)-galactosyltransferases. Plant Molecular Biology, 2008, 68, 43-59.	2.0	81
139	Mixedâ€linkage (1â†'3),(1â†'4)â€Î²<scp>â€dâ€</scp>glucan is not unique to the Poales and is an abundant component of <i>Equisetum arvense</i> cell walls. Plant Journal, 2008, 54, 510-521.	2.8	151
140	The Genetics and Transcriptional Profiles of the Cellulose Synthase-Like <i>HvCslF</i> Gene Family in Barley. Plant Physiology, 2008, 146, 1821-1833.	2.3	204
141	Biotransformation of podophyllotoxin byHordeum vulgarecell suspension cultures. Biocatalysis and Biotransformation, 2007, 25, 1-8.	1.1	11
142	High-throughput mapping of cell-wall polymers within and between plants using novel microarrays. Plant Journal, 2007, 50, 1118-1128.	2.8	286
143	The impact of constitutive heterologous expression of a moss Na+ transporter on the metabolomes of rice and barley. Metabolomics, 2007, 3, 307-317.	1.4	57
144	Cellulose Synthase-Like CslF Genes Mediate the Synthesis of Cell Wall (1,3;1,4)-Â-D-Glucans. Science, 2006, 311, 1940-1942.	6.0	422

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145	Breaking an impasse in pectin biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 5639-5640.	3.3	30
146	Effects of structural variation in xyloglucan polymers on interactions with bacterial cellulose. American Journal of Botany, 2006, 93, 1402-1414.	0.8	95
147	VARIATIONS IN THE SUBSTITUTED 3-LINKED MANNANS CLOSELY ASSOCIATED WITH THE SILICIFIED WALLS OF DIATOMS1. Journal of Phycology, 2005, 41, 1154-1161.	1.0	50
148	Plant cell wall polysaccharide biosynthesis: real progress in the identification of participating genes. Planta, 2005, 221, 309-312.	1.6	14
149	Arabinogalactan Proteins Are Required for Apical Cell Extension in the Moss Physcomitrella patens. Plant Cell, 2005, 17, 3051-3065.	3.1	179
150	Regioselective acylation of several polyhydroxylated natural compounds byCandida antarcticalipase B. Biocatalysis and Biotransformation, 2005, 23, 109-116.	1.1	16
151	The CesA Gene Family of Barley. Quantitative Analysis of Transcripts Reveals Two Groups of Co-Expressed Genes. Plant Physiology, 2004, 134, 224-236.	2.3	275
152	Characterization of the Arabidopsis Lysine-Rich Arabinogalactan-Protein AtAGP17 Mutant (rat1) That Results in a Decreased Efficiency of Agrobacterium Transformation. Plant Physiology, 2004, 135, 2162-2171.	2.3	149
153	Post-translational Modifications of Arabinogalactan-peptides of Arabidopsis thaliana. Journal of Biological Chemistry, 2004, 279, 45503-45511.	1.6	73
154	Extraction and characterization of agar from Australian Pterocladia lucida. Journal of Applied Phycology, 2004, 16, 41-48.	1.5	9
155	THE COMPLEX POLYSACCHARIDES OF THE RAPHID DIATOM PINNULARIA VIRIDIS (BACILLARIOPHYCEAE)1. Journal of Phycology, 2003, 39, 543-554.	1.0	78
156	Heterogeneous xylose-rich glycans are associated with extracellular glycoproteins from the biofouling diatomCraspedostauros australis(Bacillariophyceae). European Journal of Phycology, 2003, 38, 351-360.	0.9	60
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