

Tony Bacic

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188
papers

10,398
citations

53
h-index

97
g-index

193
ext. papers

12,737
ext. citations

6.5
avg, IF

6.27
L-index

#	Paper	IF	Citations
188	FunRich: An open access standalone functional enrichment and interaction network analysis tool. <i>Proteomics</i> , 2015 , 15, 2597-601	4.8	735
187	Determining the polysaccharide composition of plant cell walls. <i>Nature Protocols</i> , 2012 , 7, 1590-607	18.8	402
186	Heterogeneity in the chemistry, structure and function of plant cell walls. <i>Nature Chemical Biology</i> , 2010 , 6, 724-32	11.7	398
185	Cellulose synthase-like CslF genes mediate the synthesis of cell wall (1,3;1,4)-beta-D-glucans. <i>Science</i> , 2006 , 311, 1940-2	33.3	346
184	Arabinogalactan-proteins: key regulators at the cell surface?. <i>Plant Physiology</i> , 2010 , 153, 403-19	6.6	337
183	Metabolic responses to salt stress of barley (<i>Hordeum vulgare</i> L.) cultivars, Sahara and Clipper, which differ in salinity tolerance. <i>Journal of Experimental Botany</i> , 2009 , 60, 4089-103	7	318
182	The fasciclin-like arabinogalactan proteins of Arabidopsis. A multigene family of putative cell adhesion molecules. <i>Plant Physiology</i> , 2003 , 133, 1911-25	6.6	269
181	The CesA gene family of barley. Quantitative analysis of transcripts reveals two groups of co-expressed genes. <i>Plant Physiology</i> , 2004 , 134, 224-36	6.6	248
180	High-throughput mapping of cell-wall polymers within and between plants using novel microarrays. <i>Plant Journal</i> , 2007 , 50, 1118-28	6.9	241
179	O-glycosylated cell wall proteins are essential in root hair growth. <i>Science</i> , 2011 , 332, 1401-3	33.3	220
178	Changes in cell wall composition during ripening of grape berries. <i>Plant Physiology</i> , 1998 , 118, 783-92	6.6	193
177	The complex structures of arabinogalactan-proteins and the journey towards understanding function. <i>Plant Molecular Biology</i> , 2001 , 47, 161-176	4.6	190
176	Using genomic resources to guide research directions. The arabinogalactan protein gene family as a test case. <i>Plant Physiology</i> , 2002 , 129, 1448-63	6.6	190
175	The classical arabinogalactan protein gene family of arabidopsis. <i>Plant Cell</i> , 2000 , 12, 1751-68	11.6	190
174	The genetics and transcriptional profiles of the cellulose synthase-like HvCslF gene family in barley. <i>Plant Physiology</i> , 2008 , 146, 1821-33	6.6	177
173	The charophycean green algae provide insights into the early origins of plant cell walls. <i>Plant Journal</i> , 2011 , 68, 201-11	6.9	172
172	Arabinogalactan proteins are required for apical cell extension in the moss <i>Physcomitrella patens</i> . <i>Plant Cell</i> , 2005 , 17, 3051-65	11.6	162

171	Fruit Calcium: Transport and Physiology. <i>Frontiers in Plant Science</i> , 2016 , 7, 569	6.2	153
170	Mass spectrometry imaging for plant biology: a review. <i>Phytochemistry Reviews</i> , 2016 , 15, 445-488	7.7	149
169	Pollen tubes of <i>Nicotiana glauca</i> express two genes from different beta-glucan synthase families. <i>Plant Physiology</i> , 2001 , 125, 2040-52	6.6	140
168	Plant cell walls: the skeleton of the plant world. <i>Functional Plant Biology</i> , 2010 , 37, 357	2.7	134
167	Mixed-linkage (1 \rightarrow 3),(1 \rightarrow 4)-beta-D-glucan is not unique to the Poales and is an abundant component of <i>Equisetum arvense</i> cell walls. <i>Plant Journal</i> , 2008 , 54, 510-21	6.9	133
166	(1,3;1,4)-beta-D-glucans in cell walls of the poaceae, lower plants, and fungi: a tale of two linkages. <i>Molecular Plant</i> , 2009 , 2, 873-82	14.4	132
165	Over-expression of specific HvCSLF cellulose synthase-like genes in transgenic barley increases the levels of cell wall (1,3;1,4)-beta-D-glucans and alters their fine structure. <i>Plant Biotechnology Journal</i> , 2011 , 9, 117-35	11.6	131
164	REVIEW: Variability in Fine Structures of Noncellulosic Cell Wall Polysaccharides from Cereal Grains: Potential Importance in Human Health and Nutrition. <i>Cereal Chemistry</i> , 2010 , 87, 272-282	2.4	125
163	Characterization of the <i>Arabidopsis</i> lysine-rich arabinogalactan-protein AtAGP17 mutant (rat1) that results in a decreased efficiency of agrobacterium transformation. <i>Plant Physiology</i> , 2004 , 135, 2162-71	6.6	118
162	Arabinogalactan-proteins and the research challenges for these enigmatic plant cell surface proteoglycans. <i>Frontiers in Plant Science</i> , 2012 , 3, 140	6.2	113
161	Wine protein haze: mechanisms of formation and advances in prevention. <i>Journal of Agricultural and Food Chemistry</i> , 2015 , 63, 4020-30	5.7	106
160	Cell-Type-Specific H ⁺ -ATPase Activity in Root Tissues Enables K ⁺ Retention and Mediates Acclimation of Barley (<i>Hordeum vulgare</i>) to Salinity Stress. <i>Plant Physiology</i> , 2016 , 172, 2445-2458	6.6	99
159	Preparation of plant cells for transmission electron microscopy to optimize immunogold labeling of carbohydrate and protein epitopes. <i>Nature Protocols</i> , 2012 , 7, 1716-27	18.8	91
158	Evolution and development of cell walls in cereal grains. <i>Frontiers in Plant Science</i> , 2014 , 5, 456	6.2	88
157	Root cell wall solutions for crop plants in saline soils. <i>Plant Science</i> , 2018 , 269, 47-55	5.3	87
156	The response of the maize nitrate transport system to nitrogen demand and supply across the lifecycle. <i>New Phytologist</i> , 2013 , 198, 82-94	9.8	85
155	Differential accumulation of callose, arabinoxylan and cellulose in nonpenetrated versus penetrated papillae on leaves of barley infected with <i>Blumeria graminis</i> f. sp. hordei. <i>New Phytologist</i> , 2014 , 204, 650-660	9.8	82
154	Effects of structural variation in xyloglucan polymers on interactions with bacterial cellulose. <i>American Journal of Botany</i> , 2006 , 93, 1402-14	2.7	80

153	Grape marc as a source of carbohydrates for bioethanol: Chemical composition, pre-treatment and saccharification. <i>Bioresource Technology</i> , 2015 , 193, 76-83	11	76
152	THE COMPLEX POLYSACCHARIDES OF THE RAPID DIATOM PINNULARIA VIRIDIS (BACILLARIOPHYCEAE)1. <i>Journal of Phycology</i> , 2003 , 39, 543-554	3	75
151	Molecular characterization of a stigma-specific gene encoding an arabinogalactan-protein (AGP) from <i>Nicotiana glauca</i> . <i>Plant Journal</i> , 1996 , 9, 313-23	6.9	75
150	Root spatial metabolite profiling of two genotypes of barley (<i>Hordeum vulgare</i> L.) reveals differences in response to short-term salt stress. <i>Journal of Experimental Botany</i> , 2016 , 67, 3731-45	7	74
149	Molecular cloning of cDNAs encoding the protein backbones of arabinogalactan-proteins from the filtrate of suspension-cultured cells of <i>Pyrus communis</i> and <i>Nicotiana glauca</i> . <i>Plant Journal</i> , 1995 , 8, 269-81	6.9	71
148	Hitting the Wall-Sensing and Signaling Pathways Involved in Plant Cell Wall Remodeling in Response to Abiotic Stress. <i>Plants</i> , 2018 , 7,	4.5	69
147	Identification of a novel group of putative <i>Arabidopsis thaliana</i> beta-(1,3)-galactosyltransferases. <i>Plant Molecular Biology</i> , 2008 , 68, 43-59	4.6	68
146	<i>Arabidopsis</i> leucine-rich repeat extensin (LRX) proteins modify cell wall composition and influence plant growth. <i>BMC Plant Biology</i> , 2015 , 15, 155	5.3	65
145	Post-translational modifications of arabinogalactan-peptides of <i>Arabidopsis thaliana</i> . Endoplasmic reticulum and glycosylphosphatidylinositol-anchor signal cleavage sites and hydroxylation of proline. <i>Journal of Biological Chemistry</i> , 2004 , 279, 45503-11	5.4	64
144	Revised Phylogeny of the Gene Superfamily: Insights into Cell Wall Evolution. <i>Plant Physiology</i> , 2018 , 177, 1124-1141	6.6	64
143	Unique aspects of the structure and dynamics of elementary cellulose microfibrils revealed by computational simulations. <i>Plant Physiology</i> , 2015 , 168, 3-17	6.6	63
142	Regulation of Meristem Morphogenesis by Cell Wall Synthases in <i>Arabidopsis</i> . <i>Current Biology</i> , 2016 , 26, 1404-15	6.3	61
141	Endosymbiosis undone by stepwise elimination of the plastid in a parasitic dinoflagellate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 5767-72	11.5	60
140	Detection of QTL for metabolic and agronomic traits in wheat with adjustments for variation at genetic loci that affect plant phenology. <i>Plant Science</i> , 2015 , 233, 143-154	5.3	60
139	Current challenges in cell wall biology in the cereals and grasses. <i>Frontiers in Plant Science</i> , 2012 , 3, 130	6.2	59
138	A (1→4)-beta-mannan-specific monoclonal antibody and its use in the immunocytochemical location of galactomannans. <i>Planta</i> , 2001 , 214, 235-42	4.7	59
137	Evidence for land plant cell wall biosynthetic mechanisms in charophyte green algae. <i>Annals of Botany</i> , 2014 , 114, 1217-36	4.1	55
136	The impact of constitutive heterologous expression of a moss Na ⁺ transporter on the metabolomes of rice and barley. <i>Metabolomics</i> , 2007 , 3, 307-317	4.7	53

135	Heterogeneous xylose-rich glycans are associated with extracellular glycoproteins from the biofouling diatom <i>Craspedostauros australis</i> (Bacillariophyceae). <i>European Journal of Phycology</i> , 2003 , 38, 351-360	2.2	53
134	Prospecting for Energy-Rich Renewable Raw Materials: Agave Leaf Case Study. <i>PLoS ONE</i> , 2015 , 10, e0135382	3.7	51
133	Interactions of arabinoxylan and (1,3)(1,4)- β -glucan with cellulose networks. <i>Biomacromolecules</i> , 2015 , 16, 1232-9	6.9	50
132	Plant cell wall engineering: applications in biofuel production and improved human health. <i>Current Opinion in Biotechnology</i> , 2014 , 26, 79-84	11.4	50
131	Determining the subcellular location of synthesis and assembly of the cell wall polysaccharide (1,3; 1,4)- β -glucan in grasses. <i>Plant Cell</i> , 2015 , 27, 754-71	11.6	49
130	Regulation of Starch Stores by a Ca(2+)-Dependent Protein Kinase Is Essential for Viable Cyst Development in <i>Toxoplasma gondii</i> . <i>Cell Host and Microbe</i> , 2015 , 18, 670-81	23.4	49
129	Arabinogalactan proteins have deep roots in eukaryotes: identification of genes and epitopes in brown algae and their role in <i>Fucus serratus</i> embryo development. <i>New Phytologist</i> , 2016 , 209, 1428-41	9.8	48
128	KNS4/UPEX1: A Type II Arabinogalactan β (1,3)-Galactosyltransferase Required for Pollen Exine Development. <i>Plant Physiology</i> , 2017 , 173, 183-205	6.6	47
127	Isolation and characterization of cell walls from the mesocarp of mature grape berries (<i>Vitis vinifera</i>). <i>Planta</i> , 1997 , 203, 93-100	4.7	47
126	VARIATIONS IN THE SUBSTITUTED 3-LINKED MANNANS CLOSELY ASSOCIATED WITH THE SILICIFIED WALLS OF DIATOMS ¹ . <i>Journal of Phycology</i> , 2005 , 41, 1154-1161	3	46
125	Characterization of ion contents and metabolic responses to salt stress of different <i>Arabidopsis</i> AtHKT1;1 genotypes and their parental strains. <i>Molecular Plant</i> , 2013 , 6, 350-68	14.4	45
124	Membrane fractionation and enrichment of callose synthase from pollen tubes of <i>Nicotiana glauca</i> Link et Otto. <i>Planta</i> , 1998 , 205, 380-8	4.7	45
123	BETA/KAPPA-CARRAGEENANS AS EVIDENCE FOR CONTINUED SEPARATION OF THE FAMILIES DICRANEMATAACEAE AND SARCODIACEAE (GIGARTINALES, RHODOPHYTA) ¹ . <i>Journal of Phycology</i> , 1993 , 29, 833-844	3	42
122	Quantitative structural organisation model for wheat endosperm cell walls: Cellulose as an important constituent. <i>Carbohydrate Polymers</i> , 2018 , 196, 199-208	10.3	41
121	Are designer plant cell walls a realistic aspiration or will the plasticity of the plant metabolism win out?. <i>Current Opinion in Biotechnology</i> , 2014 , 26, 108-14	11.4	40
120	The barley (<i>Hordeum vulgare</i>) cellulose synthase-like D2 gene (HvCslD2) mediates penetration resistance to host-adapted and nonhost isolates of the powdery mildew fungus. <i>New Phytologist</i> , 2016 , 212, 421-33	9.8	39
119	Re-evaluation of the role of a transmitting tract-specific glycoprotein on pollen tube growth. <i>Plant Journal</i> , 1998 , 13, 529-535	6.9	39
118	Insights into the Evolution of Hydroxyproline-Rich Glycoproteins from 1000 Plant Transcriptomes. <i>Plant Physiology</i> , 2017 , 174, 904-921	6.6	36

117	Pipeline to Identify Hydroxyproline-Rich Glycoproteins. <i>Plant Physiology</i> , 2017 , 174, 886-903	6.6	35
116	Genome Wide Association Mapping for Arabinoxylan Content in a Collection of Tetraploid Wheats. <i>PLoS ONE</i> , 2015 , 10, e0132787	3.7	34
115	Role of a callose synthase zymogen in regulating wall deposition in pollen tubes of <i>Nicotiana glauca</i> Link et Otto. <i>Planta</i> , 1999 , 208, 528-538	4.7	33
114	Loss of LOFSEP Transcription Factor Function Converts Spikelet to Leaf-Like Structures in Rice. <i>Plant Physiology</i> , 2018 , 176, 1646-1664	6.6	33
113	Metabolic profiling of transgenic wheat over-expressing the high-molecular-weight Dx5 glutenin subunit. <i>Metabolomics</i> , 2009 , 5, 239-252	4.7	32
112	A REVISION OF THE SYSTEMATICS OF THE NIZYMENIACEAE (GIGARTINALES, RHODOPHYTA) BASED ON POLYSACCHARIDES, ANATOMY, AND NUCLEOTIDE SEQUENCES1. <i>Journal of Phycology</i> , 1995 , 31, 153-166	3	32
111	The dynamics of cereal cyst nematode infection differ between susceptible and resistant barley cultivars and lead to changes in (1,3;1,4)- β -glucan levels and HvCslF gene transcript abundance. <i>New Phytologist</i> , 2015 , 207, 135-147	9.8	31
110	Structural analysis and molecular model of a self-incompatibility RNase from wild tomato. <i>Plant Physiology</i> , 1998 , 116, 463-9	6.6	31
109	The plant secretory pathway seen through the lens of the cell wall. <i>Protoplasma</i> , 2017 , 254, 75-94	3.4	30
108	Plant glycosylphosphatidylinositol anchored proteins at the plasma membrane-cell wall nexus. <i>Journal of Integrative Plant Biology</i> , 2018 , 60, 649-669	8.3	30
107	Genetic variation in the root growth response of barley genotypes to salinity stress. <i>Functional Plant Biology</i> , 2013 , 40, 516-530	2.7	30
106	Genetic Diversity and Genome Wide Association Study of β -Glucan Content in Tetraploid Wheat Grains. <i>PLoS ONE</i> , 2016 , 11, e0152590	3.7	30
105	-linked Glycan Micro-heterogeneity in Glycoproteins of Arabidopsis. <i>Molecular and Cellular Proteomics</i> , 2018 , 17, 413-421	7.6	29
104	Hyphal cell walls from the plant pathogen <i>Rhynchosporium secalis</i> contain (1,3/1,6)- β -D-glucans, galacto- and rhamnomannans, (1,3;1,4)- β -D-glucans and chitin. <i>FEBS Journal</i> , 2009 , 276, 3698-709	5.7	29
103	The barley genome sequence assembly reveals three additional members of the CslF (1,3;1,4)- β -glucan synthase gene family. <i>PLoS ONE</i> , 2014 , 9, e90888	3.7	29
102	A customized gene expression microarray reveals that the brittle stem phenotype fs2 of barley is attributable to a retroelement in the HvCesA4 cellulose synthase gene. <i>Plant Physiology</i> , 2010 , 153, 1716-28	6.6	28
101	Breaking an impasse in pectin biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 5639-40	11.5	27
100	Characterisation of extracellular polysaccharides from suspension cultures of members of the poaceae. <i>Planta</i> , 2000 , 210, 261-8	4.7	27

99	Down-regulation of the glucan synthase-like 6 gene (HvGsl6) in barley leads to decreased callose accumulation and increased cell wall penetration by <i>Blumeria graminis</i> f. sp. <i>hordei</i> . <i>New Phytologist</i> , 2016 , 212, 434-43	9.8	25
98	(1,3;1,4)- β -Glucan Biosynthesis by the CSLF6 Enzyme: Position and Flexibility of Catalytic Residues Influence Product Fine Structure. <i>Biochemistry</i> , 2016 , 55, 2054-61	3.2	25
97	Blue Light Regulates Secondary Cell Wall Thickening via MYC2/MYC4 Activation of the β -Directed Transcriptional Network in Arabidopsis. <i>Plant Cell</i> , 2018 , 30, 2512-2528	11.6	25
96	Differences in glycosyltransferase family 61 accompany variation in seed coat mucilage composition in <i>Plantago</i> spp. <i>Journal of Experimental Botany</i> , 2016 , 67, 6481-6495	7	24
95	Cell wall biomechanics: a tractable challenge in manipulating plant cell walls fit for purpose. <i>Current Opinion in Biotechnology</i> , 2018 , 49, 163-171	11.4	23
94	The Dynamics of Transcript Abundance during Cellularization of Developing Barley Endosperm. <i>Plant Physiology</i> , 2016 , 170, 1549-65	6.6	23
93	Recent advances in <i>Cannabis sativa</i> genomics research. <i>New Phytologist</i> , 2021 , 230, 73-89	9.8	23
92	Distribution, structure and biosynthetic gene families of (1,3;1,4)- β -glucan in <i>Sorghum bicolor</i> . <i>Journal of Integrative Plant Biology</i> , 2015 , 57, 429-45	8.3	22
91	EXIMS: an improved data analysis pipeline based on a new peak picking method for EXploring Imaging Mass Spectrometry data. <i>Bioinformatics</i> , 2015 , 31, 3198-206	7.2	22
90	Isolation and structural elucidation by 2D NMR of planteose, a major oligosaccharide in the mucilage of chia (<i>Salvia hispanica</i> L.) seeds. <i>Carbohydrate Polymers</i> , 2017 , 175, 231-240	10.3	21
89	Functional Specialization of Cellulose Synthase Isoforms in a Moss Shows Parallels with Seed Plants. <i>Plant Physiology</i> , 2017 , 175, 210-222	6.6	21
88	Characterization of protein N-glycosylation by tandem mass spectrometry using complementary fragmentation techniques. <i>Frontiers in Plant Science</i> , 2015 , 6, 674	6.2	21
87	CARRAGEENANS FROM AUSTRALIAN REPRESENTATIVES OF THE FAMILY CYSTOCLONIACEAE (GIGARTINALES, RHODOPHYTA), WITH DESCRIPTION OF CALLIBLEPHARIS CELATOSPORA SP. NOV., AND TRANSFER OF AUSTROCLONIUM TO THE FAMILY ARESCHOUGIACEAE. <i>Journal of Phycology</i> , 1998 , 34, 515-535	3	21
86	Accumulation of volatile phenol glycoconjugates in grapes following grapevine exposure to smoke and potential mitigation of smoke taint by foliar application of kaolin. <i>Planta</i> , 2019 , 249, 941-952	4.7	21
85	Biosynthesis of lipophosphoglycan from <i>Leishmania major</i> : solubilization and characterization of a (beta 1-3)-galactosyltransferase. <i>Biochemical Journal</i> , 1996 , 317 (Pt 1), 247-55	3.8	20
84	Genetic and environmental factors contribute to variation in cell wall composition in mature desi chickpea (<i>Cicer arietinum</i> L.) cotyledons. <i>Plant, Cell and Environment</i> , 2018 , 41, 2195-2208	8.4	18
83	DEFECTIVE KERNEL1 (DEK1) Regulates Cell Walls in the Leaf Epidermis. <i>Plant Physiology</i> , 2016 , 172, 2206-2218	6.2	18
82	Isolation of tissues and preservation of RNA from intact, germinated barley grain. <i>Plant Journal</i> , 2017 , 91, 754-765	6.9	17

81	Morphology, Carbohydrate Distribution, Gene Expression, and Enzymatic Activities Related to Cell Wall Hydrolysis in Four Barley Varieties during Simulated Malting. <i>Frontiers in Plant Science</i> , 2017 , 8, 1872	6.2	17
80	Biochemical and molecular changes associated with heteroxylan biosynthesis in <i>Neolamarckia cadamba</i> (Rubiaceae) during xylogenesis. <i>Frontiers in Plant Science</i> , 2014 , 5, 602	6.2	17
79	Arabinogalactan-proteins of <i>Zostera marina</i> L. contain unique glycan structures and provide insight into adaption processes to saline environments. <i>Scientific Reports</i> , 2020 , 10, 8232	4.9	15
78	The reducing end sequence of wheat endosperm cell wall arabinoxylans. <i>Carbohydrate Research</i> , 2014 , 386, 23-32	2.9	15
77	An exo- β (1 \rightarrow 3)-D-galactanase from <i>Streptomyces</i> sp. provides insights into type II arabinogalactan structure. <i>Carbohydrate Research</i> , 2012 , 352, 70-81	2.9	15
76	Structure of the N-Linked Oligosaccharides from Tridacnin, a Lectin Found in the Haemolymph of the Giant Clam <i>Hippopus Hippopus</i> . <i>FEBS Journal</i> , 1995 , 232, 873-880		15
75	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. <i>PLoS ONE</i> , 2015 , 10, e0130890	3.7	15
74	A Novel (1,4)- β -linked Glucoxylan Is Synthesized by Members of the Gene Family in Land Plants. <i>ACS Central Science</i> , 2019 , 5, 73-84	16.8	15
73	AGPs Through Time and Space 2018 , 767-804		15
72	Plant cell wall polysaccharide biosynthesis: real progress in the identification of participating genes. <i>Planta</i> , 2005 , 221, 309-12	4.7	14
71	A Genome Wide Association Study of arabinoxylan content in 2-row spring barley grain. <i>PLoS ONE</i> , 2017 , 12, e0182537	3.7	14
70	Mucin-Like Proteophosphoglycans from the Protozoan Parasite <i>Leishmania</i> .. <i>Trends in Glycoscience and Glycotechnology</i> , 1999 , 11, 53-71	0.1	14
69	A Golgi UDP-GlcNAc transporter delivers substrates for N-linked glycans and sphingolipids. <i>Nature Plants</i> , 2018 , 4, 792-801	11.5	14
68	Differential expression of the gene late in grain development may explain quantitative differences in (1,3;1,4)- β -glucan concentration in barley. <i>Molecular Breeding</i> , 2015 , 35, 20	3.4	13
67	Integrative Multi-omics Analyses of Barley Rootzones under Salinity Stress Reveal Two Distinctive Salt Tolerance Mechanisms. <i>Plant Communications</i> , 2020 , 1, 100031	9	13
66	Dissecting the Genetic Basis for Seed Coat Mucilage Heteroxylan Biosynthesis in Using Gamma Irradiation and Infrared Spectroscopy. <i>Frontiers in Plant Science</i> , 2017 , 8, 326	6.2	13
65	Regioselective acylation of several polyhydroxylated natural compounds by <i>Candida antarctica</i> lipase B. <i>Biocatalysis and Biotransformation</i> , 2005 , 23, 109-116	2.5	13
64	A Glycosyltransferase from <i>Nicotiana glauca</i> Pollen Mediates Synthesis of a Linear (1,5)- β -Arabinan When Expressed in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2016 , 170, 1962-74	6.6	13

63	Functional Characterization of a Glycosyltransferase from the Moss Involved in the Biosynthesis of a Novel Cell Wall Arabinoglycan. <i>Plant Cell</i> , 2018 , 30, 1293-1308	11.6	12
62	Abiotic Stress and Metabolomics 2018 , 61-85		12
61	Biochemical Compositional Analysis and Kinetic Modeling of Hydrothermal Carbonization of Australian Saltbush. <i>Energy & Fuels</i> , 2019 , 33, 12469-12479	4.1	12
60	CHEMISTRY, PROPERTIES, AND PHYLOGENETIC IMPLICATIONS OF THE METHYLATED CARRAGEENANS FROM RED ALGAE OF THE GENUS ARESCHOUGIA (ARESCHOUGIACEAE, GIGARTINALES, RHODOPHYTA). <i>Journal of Phycology</i> , 2001 , 37, 1127-1137	3	12
59	Disulphide bonding in a stylar self-incompatibility ribonuclease of <i>Nicotiana glauca</i> . <i>FEBS Journal</i> , 1996 , 242, 75-80		12
58	Asparagus Spears as a Model to Study Heteroxylan Biosynthesis during Secondary Wall Development. <i>PLoS ONE</i> , 2015 , 10, e0123878	3.7	12
57	A tandem liquid chromatography-mass spectrometry (LC-MS) method for profiling small molecules in complex samples. <i>Metabolomics</i> , 2015 , 11, 1552-1562	4.7	11
56	Genetics and physiology of cell wall polysaccharides in the model C4 grass, <i>Setaria viridis</i> spp. <i>BMC Plant Biology</i> , 2015 , 15, 236	5.3	11
55	Transcriptional and biochemical analyses of gibberellin expression and content in germinated barley grain. <i>Journal of Experimental Botany</i> , 2020 , 71, 1870-1884	7	11
54	Targeted mutation of barley (1,3;1,4)-β-glucan synthases reveals complex relationships between the storage and cell wall polysaccharide content. <i>Plant Journal</i> , 2020 , 104, 1009-1022	6.9	11
53	Cell wall modification by the xyloglucan endotransglucosylase/hydrolase XTH19 influences freezing tolerance after cold and sub-zero acclimation. <i>Plant, Cell and Environment</i> , 2021 , 44, 915-930	8.4	11
52	Exploratory analysis of high-throughput metabolomic data. <i>Metabolomics</i> , 2013 , 9, 1311-1320	4.7	9
51	Abiotic Stress and Metabolomics 2011 , 61-85		9
50	Extraction and characterization of agar from Australian <i>Pterocladia lucida</i> . <i>Journal of Applied Phycology</i> , 2004 , 16, 41-48	3.2	9
49	Pyruvated carrageenans from <i>Solieria robusta</i> and its adelphoparasite <i>Tikvahiella candida</i> . <i>Hydrobiologia</i> , 1999 , 398/399, 401-409	2.4	9
48	Genetics, Transcriptional Profiles, and Catalytic Properties of the UDP-Arabinose Mutase Family from Barley. <i>Biochemistry</i> , 2016 , 55, 322-34	3.2	9
47	Cracking the "Sugar Code": A Snapshot of - and -Glycosylation Pathways and Functions in Plants Cells. <i>Frontiers in Plant Science</i> , 2021 , 12, 640919	6.2	9
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