

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

79 papers	4,409 citations	31 h-index	66 g-index
82 ext. papers	5,465 ext. citations	7 avg, IF	5.19 L-index

#	Paper	IF	Citations
79	Transcriptomics technologies. <i>PLoS Computational Biology</i> , 2017 , 13, e1005457	5	385
78	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
77	Improvement of stress tolerance of wheat and barley by modulation of expression of DREB/CBF factors. <i>Plant Biotechnology Journal</i> , 2011 , 9, 230-49	11.6	318
76	The pineapple genome and the evolution of CAM photosynthesis. <i>Nature Genetics</i> , 2015 , 47, 1435-42	36.3	309
75	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
74	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
73	The Plant Cell Wall: A Complex and Dynamic Structure As Revealed by the Responses of Genes under Stress Conditions. <i>Frontiers in Plant Science</i> , 2016 , 7, 984	6.2	175
72	Nuisance Proteins of Wine Are Grape Pathogenesis-Related Proteins. <i>Journal of Agricultural and Food Chemistry</i> , 1996 , 44, 3-5	5.7	151
71	A two-staged model of Na ⁺ exclusion in rice explained by 3D modeling of HKT transporters and alternative splicing. <i>PLoS ONE</i> , 2012 , 7, e39865	3.7	134
70	Over-expression of specific HvCslF cellulose synthase-like genes in transgenic barley increases the levels of cell wall (1,3;1,4)-D-glucans and alters their fine structure. <i>Plant Biotechnology Journal</i> , 2011 , 9, 117-35	11.6	131
69	Metabolite profiling reveals distinct changes in carbon and nitrogen metabolism in phosphate-deficient barley plants (<i>Hordeum vulgare</i> L.). <i>Plant and Cell Physiology</i> , 2008 , 49, 691-703	4.9	130
68	Barley beta-D-glucan exohydrolases with beta-D-glucosidase activity. Purification, characterization, and determination of primary structure from a cDNA clone. <i>Journal of Biological Chemistry</i> , 1996 , 271, 5277-86	5.4	116
67	Improved salinity tolerance of rice through cell type-specific expression of AtHKT1;1. <i>PLoS ONE</i> , 2010 , 5, e12571	3.7	106
66	Phosphate utilization efficiency correlates with expression of low-affinity phosphate transporters and noncoding RNA, IPS1, in barley. <i>Plant Physiology</i> , 2011 , 156, 1217-29	6.6	89
65	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
64	Increased expression of six ZIP family genes by zinc (Zn) deficiency is associated with enhanced uptake and root-to-shoot translocation of Zn in barley (<i>Hordeum vulgare</i>). <i>New Phytologist</i> , 2015 , 207, 1097-109	9.8	78
63	Microarray expression analysis of meiosis and microsporogenesis in hexaploid bread wheat. <i>BMC Genomics</i> , 2006 , 7, 267	4.5	65

62	Revised Phylogeny of the Gene Superfamily: Insights into Cell Wall Evolution. <i>Plant Physiology</i> , 2018 , 177, 1124-1141	6.6	64
61	EPSPS gene amplification in glyphosate-resistant <i>Bromus diandrus</i> . <i>Pest Management Science</i> , 2016 , 72, 81-8	4.6	63
60	Discovery of cyclotide-like protein sequences in graminaceous crop plants: ancestral precursors of circular proteins?. <i>Plant Cell</i> , 2006 , 18, 2134-44	11.6	62
59	Isolation of plant transcription factors using a modified yeast one-hybrid system. <i>Plant Methods</i> , 2006 , 2, 3	5.8	47
58	Gene structure and expression pattern analysis of three monodehydroascorbate reductase (MdhAr) genes in <i>Physcomitrella patens</i> : implications for the evolution of the MDHAR family in plants. <i>Plant Molecular Biology</i> , 2006 , 60, 259-75	4.6	46
57	A genome wide association scan for (1,3;1,4)- β -glucan content in the grain of contemporary 2-row Spring and Winter barleys. <i>BMC Genomics</i> , 2014 , 15, 907	4.5	42
56	Grain development in <i>Brachypodium</i> and other grasses: possible interactions between cell expansion, starch deposition, and cell-wall synthesis. <i>Journal of Experimental Botany</i> , 2013 , 64, 5033-47	7	40
55	Defensin promoters as potential tools for engineering disease resistance in cereal grains. <i>Plant Biotechnology Journal</i> , 2010 , 8, 47-64	11.6	40
54	Spatial gradients in cell wall composition and transcriptional profiles along elongating maize internodes. <i>BMC Plant Biology</i> , 2014 , 14, 27	5.3	39
53	Pattern of deposition of cell wall polysaccharides and transcript abundance of related cell wall synthesis genes during differentiation in barley endosperm. <i>Plant Physiology</i> , 2012 , 159, 655-70	6.6	38
52	Gene expression patterns and catalytic properties of UDP-D-glucose 4-epimerases from barley (<i>Hordeum vulgare</i> L.). <i>Biochemical Journal</i> , 2006 , 394, 115-24	3.8	38
51	Evolutionary Dynamics of the Cellulose Synthase Gene Superfamily in Grasses. <i>Plant Physiology</i> , 2015 , 168, 968-83	6.6	35
50	Spatial and temporal expression of endosperm transfer cell-specific promoters in transgenic rice and barley. <i>Plant Biotechnology Journal</i> , 2008 , 6, 465-76	11.6	34
49	The CELLULOSE-SYNTHASE LIKE C (CSLC) family of barley includes members that are integral membrane proteins targeted to the plasma membrane. <i>Molecular Plant</i> , 2009 , 2, 1025-39	14.4	32
48	Exploring the Role of Cell Wall-Related Genes and Polysaccharides during Plant Development. <i>Plants</i> , 2018 , 7,	4.5	31
47	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
46	Temperature influences the level of glyphosate resistance in barnyardgrass (<i>Echinochloa colona</i>). <i>Pest Management Science</i> , 2016 , 72, 1031-9	4.6	31
45	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

44	Expression of vacuolar H ⁺ -pyrophosphatase (OVP3) is under control of an anoxia-inducible promoter in rice. <i>Plant Molecular Biology</i> , 2010 , 72, 47-60	4.6	28
43	Identification and characterisation of barley (<i>Hordeum vulgare</i>) respiratory burst oxidase homologue family members. <i>Functional Plant Biology</i> , 2008 , 35, 347-359	2.7	28
42	Powerful regulatory systems and post-transcriptional gene silencing resist increases in cellulose content in cell walls of barley. <i>BMC Plant Biology</i> , 2015 , 15, 62	5.3	27
41	Endo-(1,4)- β -glucanase gene families in the grasses: temporal and spatial co-transcription of orthologous genes. <i>BMC Plant Biology</i> , 2012 , 12, 235	5.3	27
40	Complex regulation by Apetala2 domain-containing transcription factors revealed through analysis of the stress-responsive TdCor410b promoter from durum wheat. <i>PLoS ONE</i> , 2013 , 8, e58713	3.7	27
39	Translating auxin responses into ovules, seeds and yield: Insight from Arabidopsis and the cereals. <i>Journal of Integrative Plant Biology</i> , 2019 , 61, 310-336	8.3	26
38	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
37	Characterization and expression patterns of UDP-D-glucuronate decarboxylase genes in barley. <i>Plant Physiology</i> , 2005 , 138, 131-41	6.6	24
36	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
35	The Dynamics of Transcript Abundance during Cellularization of Developing Barley Endosperm. <i>Plant Physiology</i> , 2016 , 170, 1549-65	6.6	23
34	Clusters of genes encoding fructan biosynthesizing enzymes in wheat and barley. <i>Plant Molecular Biology</i> , 2012 , 80, 299-314	4.6	23
33	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
32	Asexual Female Gametogenesis Involves Contact with a Sexually-Fated Megaspore in Apomictic. <i>Plant Physiology</i> , 2018 , 177, 1027-1049	6.6	20
31	Probing the hammerhead ribozyme structure with ribonucleases. <i>Nucleic Acids Research</i> , 1994 , 22, 1620-50.1	50.1	19
30	Analysis of the (1,3)- β -D-glucan synthase gene family of barley. <i>Phytochemistry</i> , 2009 , 70, 713-20	4	18
29	Differences in hydrolytic enzyme activity accompany natural variation in mature aleurone morphology in barley (<i>Hordeum vulgare</i> L.). <i>Scientific Reports</i> , 2018 , 8, 11025	4.9	17
28	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
27	Altered Expression of Genes Implicated in Xylan Biosynthesis Affects Penetration Resistance against Powdery Mildew. <i>Frontiers in Plant Science</i> , 2017 , 8, 445	6.2	15

26	Characterization of the wheat gene encoding a grain-specific lipid transfer protein TdPR61, and promoter activity in wheat, barley and rice. <i>Journal of Experimental Botany</i> , 2012 , 63, 2025-40	7	15
25	A Novel (1,4)-Linked Glucoxytan Is Synthesized by Members of the Gene Family in Land Plants. <i>ACS Central Science</i> , 2019 , 5, 73-84	16.8	15
24	Systematic identification of factors involved in post-transcriptional processes in wheat grain. <i>Plant Molecular Biology</i> , 2006 , 62, 637-53	4.6	14
23	A Genome Wide Association Study of arabinoxylan content in 2-row spring barley grain. <i>PLoS ONE</i> , 2017 , 12, e0182537	3.7	14
22	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
21	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
20	The scutellar vascular bundle-specific promoter of the wheat HD-Zip IV transcription factor shows similar spatial and temporal activity in transgenic wheat, barley and rice. <i>Plant Biotechnology Journal</i> , 2012 , 10, 43-53	11.6	13
19	The genetics, transcriptional profiles, and catalytic properties of UDP-alpha-D-xylose 4-epimerases from barley. <i>Plant Physiology</i> , 2010 , 153, 555-68	6.6	13
18	Cell wall modifications in maize pulvini in response to gravitational stress. <i>Plant Physiology</i> , 2011 , 156, 2155-71	6.6	13
17	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
16	Combining transcriptional datasets using the generalized singular value decomposition. <i>BMC Bioinformatics</i> , 2008 , 9, 335	3.6	11
15	Overexpression of HvCslF6 in barley grain alters carbohydrate partitioning plus transfer tissue and endosperm development. <i>Journal of Experimental Botany</i> , 2020 , 71, 138-153	7	10
14	Genetics, Transcriptional Profiles, and Catalytic Properties of the UDP-Arabinose Mutase Family from Barley. <i>Biochemistry</i> , 2016 , 55, 322-34	3.2	9
13	Another building block in the plant cell wall: Barley xyloglucan xyloglucosyl transferases link covalently xyloglucan and anionic oligosaccharides derived from pectin. <i>Plant Journal</i> , 2020 , 104, 752-767	6.9	8
12	Phylogenetic analysis and functional characterisation of strictosidine synthase-like genes in <i>Arabidopsis thaliana</i> . <i>Functional Plant Biology</i> , 2010 , 36, 1098-1109	2.7	7
11	Carbon Flux and Carbohydrate Gene Families in Pineapple. <i>Tropical Plant Biology</i> , 2016 , 9, 200-213	1.6	7
10	Analysis of cell wall synthesis and metabolism during early germination of f. sp. conidial cells induced. <i>Cell Surface</i> , 2019 , 5, 100030	4.8	6
9	Wheat wounding-responsive HD-Zip IV transcription factor GL7 is predominantly expressed in grain and activates genes encoding defensins. <i>Plant Molecular Biology</i> , 2019 , 101, 41-61	4.6	5

8	Prospecting for Energy-Rich Renewable Raw Materials: Sorghum Stem Case Study. <i>PLoS ONE</i> , 2016 , 11, e0156638	3.7	5
7	Evidence for multiple interspecific hybridization in <i>Saccharomyces sensu stricto</i> species. <i>FEMS Yeast Research</i> , 2002 , 1, 323-331	3.1	4
6	Composition and biosynthetic machinery of the f. sp. conidia cell wall. <i>Cell Surface</i> , 2019 , 5, 100029	4.8	3
5	HvLEAFY controls the early stages of floral organ specification and inhibits the formation of multiple ovaries in barley. <i>Plant Journal</i> , 2021 , 108, 509-527	6.9	2
4	Expression patterns and protein structure of a lipid transfer protein END1 from Arabidopsis. <i>Planta</i> , 2014 , 240, 1319-34	4.7	1
3	Auxin Treatment Enhances Anthocyanin Production in the Non-Climacteric Sweet Cherry (L.). <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
2	Transcript Profiling of MIKCC MADS-Box Genes Reveals Conserved and Novel Roles in Barley Inflorescence Development. <i>Frontiers in Plant Science</i> , 2021 , 12, 705286	6.2	1
1	Identification and spatio-temporal expression analysis of barley genes that encode putative modular xylanolytic enzymes. <i>Plant Science</i> , 2021 , 308, 110792	5.3	