

Zhongyi Li

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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.

82

papers

3,287

citations

33

h-index

56

g-index

85

ext. papers

3,686

ext. citations

4.8

avg, IF

4.46

L-index

#	Paper	IF	Citations
82	High-amylose wheat generated by RNA interference improves indices of large-bowel health in rats. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 3546-51	11.5	398
81	Barley sex6 mutants lack starch synthase IIa activity and contain a starch with novel properties. <i>Plant Journal</i> , 2003 , 34, 173-85	6.9	267
80	Control of starch branching in barley defined through differential RNAi suppression of starch branching enzyme IIa and IIb. <i>Journal of Experimental Botany</i> , 2010 , 61, 1469-82	7	145
79	Quality of winter wheat in relation to heat and drought shock after anthesis. <i>Czech Journal of Food Sciences</i> , 2011 , 29, 117-128	1.3	109
78	Role of the Escherichia coli glgX gene in glycogen metabolism. <i>Journal of Bacteriology</i> , 2005 , 187, 1465-73	5.5	96
77	Effects of starch synthase IIa gene dosage on grain, protein and starch in endosperm of wheat. <i>Theoretical and Applied Genetics</i> , 2007 , 115, 1053-65	6	94
76	Circadian clock regulation of starch metabolism establishes GBSSI as a major contributor to amylopectin synthesis in <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 2006 , 142, 305-17	6.6	94
75	Comparison of starch-branching enzyme genes reveals evolutionary relationships among isoforms. Characterization of a gene for starch-branching enzyme IIa from the wheat genome donor <i>Aegilops tauschii</i> . <i>Plant Physiology</i> , 2001 , 125, 1314-24	6.6	94
74	Over-expression of microRNA171 affects phase transitions and floral meristem determinancy in barley. <i>BMC Plant Biology</i> , 2013 , 13, 6	5.3	93
73	The localization and expression of the class II starch synthases of wheat. <i>Plant Physiology</i> , 1999 , 120, 1147-56	6.6	88
72	The structure and expression of the wheat starch synthase III gene. Motifs in the expressed gene define the lineage of the starch synthase III gene family. <i>Plant Physiology</i> , 2000 , 123, 613-24	6.6	82
71	Complementation of sugary-1 phenotype in rice endosperm with the wheat isoamylase1 gene supports a direct role for isoamylase1 in amylopectin biosynthesis. <i>Plant Physiology</i> , 2005 , 137, 43-56	6.6	78
70	Starch branching enzyme IIb in wheat is expressed at low levels in the endosperm compared to other cereals and encoded at a non-syntenic locus. <i>Planta</i> , 2005 , 222, 899-909	4.7	76
69	Genetic Alteration of Starch Functionality in Wheat. <i>Journal of Cereal Science</i> , 2000 , 31, 91-110	3.8	76
68	IMPROVED VECTORS FOR AGROBACTERIUM TUMEFACIENS-MEDIATED TRANSFORMATION OF MONOCOT PLANTS. <i>Acta Horticulturae</i> , 1998 , 401-408	0.3	70
67	Resistant starch in cereals: Exploiting genetic engineering and genetic variation. <i>Journal of Cereal Science</i> , 2007 , 46, 251-260	3.8	69
66	A genetic strategy generating wheat with very high amylose content. <i>Plant Biotechnology Journal</i> , 2015 , 13, 1276-86	11.6	61

65	miRNA regulation in the early development of barley seed. <i>BMC Plant Biology</i> , 2012 , 12, 120	5.3	58
64	The structural organisation of the gene encoding class II starch synthase of wheat and barley and the evolution of the genes encoding starch synthases in plants. <i>Functional and Integrative Genomics</i> , 2003 , 3, 76-85	3.8	57
63	Resistant Starch and Health [Himalaya 292, a Novel Barley Cultivar to Deliver Benefits to Consumers. <i>Starch/Staerke</i> , 2003 , 55, 539-545	2.3	57
62	Differential effects of genetically distinct mechanisms of elevating amylose on barley starch characteristics. <i>Carbohydrate Polymers</i> , 2012 , 89, 979-91	10.3	56
61	Cloning and characterization of a gene encoding wheat starch synthase I. <i>Theoretical and Applied Genetics</i> , 1999 , 98, 1208-1216	6	56
60	Multiple isoforms of starch branching enzyme-I in wheat: lack of the major SBE-I isoform does not alter starch phenotype. <i>Functional Plant Biology</i> , 2004 , 31, 591-601	2.7	49
59	The barley amo1 locus is tightly linked to the starch synthase IIIa gene and negatively regulates expression of granule-bound starch synthetic genes. <i>Journal of Experimental Botany</i> , 2011 , 62, 5217-31	7	46
58	Genetic enhancement of oil content in potato tuber (<i>Solanum tuberosum</i> L.) through an integrated metabolic engineering strategy. <i>Plant Biotechnology Journal</i> , 2017 , 15, 56-67	11.6	45
57	Down-regulation of Glucan, Water-Dikinase activity in wheat endosperm increases vegetative biomass and yield. <i>Plant Biotechnology Journal</i> , 2012 , 10, 871-82	11.6	45
56	Suppression of starch synthase I expression affects the granule morphology and granule size and fine structure of starch in wheat endosperm. <i>Journal of Experimental Botany</i> , 2014 , 65, 2189-201	7	45
55	Comparison of promoters and selectable marker genes for use in Indica rice transformation. <i>Molecular Breeding</i> , 1997 , 3, 1-14	3.4	45
54	Gene expression in a starch synthase IIa mutant of barley: changes in the level of gene transcription and grain composition. <i>Functional and Integrative Genomics</i> , 2008 , 8, 211-21	3.8	40
53	A high-throughput method for the detection of homologous gene deletions in hexaploid wheat. <i>BMC Plant Biology</i> , 2010 , 10, 264	5.3	35
52	Processing of novel elevated amylose wheats: functional properties and starch digestibility of extruded products. <i>Journal of Agricultural and Food Chemistry</i> , 2007 , 55, 10248-57	5.7	35
51	The different effects of starch synthase IIa mutations or variation on endosperm amylose content of barley, wheat and rice are determined by the distribution of starch synthase I and starch branching enzyme IIb between the starch granule and amyloplast stroma. <i>Theoretical and Applied Genetics</i> , 2015 , 128, 1407-19	6	33
50	Production of high oleic rice grains by suppressing the expression of the OsFAD2-1 gene. <i>Functional Plant Biology</i> , 2013 , 40, 996-1004	2.7	33
49	Characterisation of disproportionating enzyme from wheat endosperm. <i>Planta</i> , 2006 , 224, 20-31	4.7	32
48	Characterisation of a gene encoding wheat endosperm starch branching enzyme-I. <i>Theoretical and Applied Genetics</i> , 1999 , 98, 156-163	6	32

47	Multiple effects of the starch synthase II mutation in developing wheat endosperm. <i>Functional Plant Biology</i> , 2007 , 34, 431-438	2.7	29
46	Allelic effects on starch structure and properties of six starch biosynthetic genes in a rice recombinant inbred line population. <i>Rice</i> , 2015 , 8, 15	5.8	28
45	A survey of β -glucan and arabinoxylan content in wheat. <i>Journal of the Science of Food and Agriculture</i> , 2011 , 91, 1298-303	4.3	28
44	Wheat starch biosynthesis. <i>Euphytica</i> , 2001 , 119, 55-58	2.1	27
43	Transcriptome profiling reveals the genetic basis of alkalinity tolerance in wheat. <i>BMC Genomics</i> , 2017 , 18, 24	4.5	26
42	The sugary-type isoamylase gene from rice and <i>Aegilops tauschii</i> : characterization and comparison with maize and arabidopsis. <i>Genome</i> , 2003 , 46, 496-506	2.4	23
41	Comparison of three selectable marker genes for transformation of wheat by microprojectile bombardment. <i>Functional Plant Biology</i> , 1998 , 25, 39	2.7	23
40	An assessment of heavy ion irradiation mutagenesis for reverse genetics in wheat (<i>Triticum aestivum</i> L.). <i>PLoS ONE</i> , 2015 , 10, e0117369	3.7	20
39	Rice ragged stunt oryzavirus genome segments S7 and S10 encode non-structural proteins of M(r) 68,025 (Pns7) and M(r) 32,364 (Pns10). <i>Archives of Virology</i> , 1997 , 142, 1719-26	2.6	19
38	Rice ragged stunt oryzavirus genome segment S4 could encode an RNA dependent RNA polymerase and a second protein of unknown function. <i>Archives of Virology</i> , 1998 , 143, 1815-22	2.6	18
37	The M(r) 43K major capsid protein of rice ragged stunt oryzavirus is a post-translationally processed product of a M(r) 67,348 polypeptide encoded by genome segment 8. <i>Archives of Virology</i> , 1996 , 141, 1689-701	2.6	18
36	Mutation of the d-hordein gene by RNA-guided Cas9 targeted editing reducing the grain size and changing grain compositions in barley. <i>Food Chemistry</i> , 2020 , 311, 125892	8.5	18
35	Characterization of starch phosphorylases in barley grains. <i>Journal of the Science of Food and Agriculture</i> , 2013 , 93, 2137-45	4.3	16
34	Asymmetric somatic hybridization between haploid common wheat and UV-irradiated <i>Haynaldia villosa</i> . <i>Plant Science</i> , 1998 , 137, 217-223	5.3	15
33	Somatic embryogenesis and plant regeneration from protoplasts isolated from embryogenic cell suspensions of wheat (<i>Triticum aestivum</i> L.). <i>Plant Cell, Tissue and Organ Culture</i> , 1992 , 28, 79-85	2.7	15
32	Genome segment 5 of rice ragged stunt virus encodes a virion protein. <i>Journal of General Virology</i> , 1996 , 77 (Pt 12), 3155-60	4.9	13
31	Plant Regeneration from Protoplasts Derived from Embryogenesis Suspension Cultures of Wheat (<i>Triticum aestivum</i> L.). <i>Journal of Plant Physiology</i> , 1992 , 139, 714-718	3.6	13
30	RNAi-mediated down-regulation of the expression of OsFAD2-1: effect on lipid accumulation and expression of lipid biosynthetic genes in the rice grain. <i>BMC Plant Biology</i> , 2016 , 16, 189	5.3	13

29	Effects of a Novel Barley, Himalaya 292, on Rheological and Breadmaking Properties of Wheat and Barley Doughs. <i>Cereal Chemistry</i> , 2005 , 82, 626-632	2.4	11
28	Direct somatic embryogenesis and plant regeneration from protoplasts of <i>Bupleurum scorzonerifolium</i> Willd. <i>Plant Cell Reports</i> , 1992 , 11, 155-8	5.1	11
27	Effect of wide variation of the Waxy gene on starch properties in hull-less barley from Qinghai-Tibet plateau in China. <i>Journal of Agricultural and Food Chemistry</i> , 2014 , 62, 11369-85	5.7	10
26	A Synergistic Genetic Engineering Strategy Induced Triacylglycerol Accumulation in Potato () Leaf. <i>Frontiers in Plant Science</i> , 2020 , 11, 215	6.2	9
25	The starch branching enzyme I locus from <i>Aegilops tauschii</i> , the donor of the D genome to wheat. <i>Functional and Integrative Genomics</i> , 2003 , 3, 69-75	3.8	9
24	Upregulated Lipid Biosynthesis at the Expense of Starch Production in Potato () Vegetative Tissues Simultaneous Downregulation of and Expressions. <i>Frontiers in Plant Science</i> , 2019 , 10, 1444	6.2	9
23	Callus regeneration from <i>Trifolium subterraneum</i> protoplasts and enhanced protoplast division by low-voltage treatment and nurse cells. <i>Plant Cell, Tissue and Organ Culture</i> , 1990 , 21, 67-73	2.7	8
22	A single-base change at a splice site in Wx-A1 caused incorrect RNA splicing and gene inactivation in a wheat EMS mutant line. <i>Theoretical and Applied Genetics</i> , 2019 , 132, 2097-2109	6	7
21	Effect of Milling on the Starch Properties of Winter Wheat Genotypes. <i>Starch/Staerke</i> , 2010 , 62, 115-122.3		7
20	Functional Genomic Validation of the Roles of in Rice Endosperm. <i>Frontiers in Genetics</i> , 2020 , 11, 289	4.5	6
19	Detailed comparison between the wheat chromosome group 7 short arms and the rice chromosome arms 6S and 8L with special reference to genes involved in starch biosynthesis. <i>Functional and Integrative Genomics</i> , 2004 , 4, 231-40	3.8	6
18	Processing high amylose wheat varieties with a capillary rheometer: Structure and thermomechanical properties of products. <i>Food Research International</i> , 2013 , 53, 73-80	7	4
17	Genetically Modified Starch: State of Art and Perspectives 2014 , 13-29		4
16	Advances in the Understanding of Starch Synthesis in Wheat and Barley. <i>Journal of Applied Glycoscience (1999)</i> , 2003 , 50, 217-224	1	4
15	Replication of subterranean clover stunt virus in pea and subterranean clover protoplasts. <i>Virus Research</i> , 1993 , 27, 173-183	6.4	4
14	Down-Regulation of Gene Expression Alters Lysophospholipid Composition in the Endosperm of Rice Grain and Influences Starch Properties. <i>Foods</i> , 2021 , 10,	4.9	4
13	A modified Megazyme fructan assay for rapidly screening wheat starch synthase IIa mutation populations reveals high fructan accumulation in mature grains of triple null lines. <i>Journal of Cereal Science</i> , 2017 , 73, 143-150	3.8	3
12	Starch biosynthesis in the small grained cereals: Wheat and barley. <i>Special Publication - Royal Society of Chemistry</i> , 129-137	0.1	3

11	Production of waxy tetraploid wheat (<i>Triticum turgidum durum</i> L.) by EMS mutagenesis. <i>Genetic Resources and Crop Evolution</i> , 2020 , 67, 433-443	2	3
10	The production of wheat - 1S chromosome substitution lines harboring alien novel high-molecular-weight glutenin subunits. <i>Genome</i> , 2020 , 63, 155-167	2.4	3
9	Expression of the high molecular weight glutenin 1Ay gene from <i>Triticum urartu</i> in barley. <i>Transgenic Research</i> , 2019 , 28, 225-235	3.3	2
8	PRODUCTION OF TRANSGENIC RICE WITH RICE RAGGED STUNT VIRUS SYNTHETIC RESISTANCE GENES. <i>Acta Horticulturae</i> , 1998 , 393-400	0.3	2
7	Control of Starch Biosynthesis in Vascular Plants and Algae 258-289		2
6	The impact of the indica rice SSIIa allele on the apparent high amylose starch from rice grain with downregulated japonica SBEIIb. <i>Theoretical and Applied Genetics</i> , 2020 , 133, 2961-2974	6	1
5	Down-regulation of glucan, water-dikinase activity in wheat endosperm increases vegetative biomass and yield. <i>Plant Biotechnology Journal</i> , 2013 , 11, 390-391	11.6	1
4	Editing of the starch synthase IIa gene led to transcriptomic and metabolomic changes and high amylose starch in barley.. <i>Carbohydrate Polymers</i> , 2022 , 285, 119238	10.3	1
3	Effects of Two Starch Synthase IIa Isoforms on Grain Components and Other Grain Traits in Barley. <i>Journal of Agricultural and Food Chemistry</i> , 2021 , 69, 1206-1213	5.7	1
2	Differential expression of three key starch biosynthetic genes in developing grains of rice differing in glycemic index. <i>Journal of Cereal Science</i> , 2021 , 99, 103187	3.8	
1	Control of Starch Biosynthesis in Vascular Plants and Algae 2018 , 258-289		