

# Lihuang Zhu

## List of Publications by Year in Descending Order

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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.

107  
papers

6,944  
citations

33  
h-index

83  
g-index

110  
ext. papers

8,341  
ext. citations

7.2  
avg, IF

4.79  
L-index

#	Paper	IF	Citations
107	Exploring Natural Allelic Variations of the Triketone Herbicide Resistance Gene HIS1 for Application in indica Rice and Particularly in Two-Line Hybrid Rice. <i>Rice</i> , <b>2021</b> , 14, 7	5.8	1
106	The OsSPK1-OsRac1-RAI1 defense signaling pathway is shared by two distantly related NLR proteins in rice blast resistance. <i>Plant Physiology</i> , <b>2021</b> , 187, 2852-2864	6.6	0
105	Heterotic performance of the main yield traits in different types of Indica hybrid rice. <i>Food and Energy Security</i> , <b>2020</b> , 9, e210	4.1	4
104	OsNPR3.3-dependent salicylic acid signaling is involved in recessive gene xa5-mediated immunity to rice bacterial blight. <i>Scientific Reports</i> , <b>2020</b> , 10, 6313	4.9	4
103	A Rice NBS-ARC Gene Conferring Quantitative Resistance to Bacterial Blight Is Regulated by a Pathogen Effector-Inducible miRNA. <i>Molecular Plant</i> , <b>2020</b> , 13, 1752-1767	14.4	6
102	Discovery of broad-spectrum fungicides that block septin-dependent infection processes of pathogenic fungi. <i>Nature Microbiology</i> , <b>2020</b> , 5, 1565-1575	26.6	9
101	Resequencing of 1,143 indica rice accessions reveals important genetic variations and different heterosis patterns. <i>Nature Communications</i> , <b>2020</b> , 11, 4778	17.4	20
100	Analysis of genetic architecture and favorable allele usage of agronomic traits in a large collection of Chinese rice accessions. <i>Science China Life Sciences</i> , <b>2020</b> , 63, 1688-1702	8.5	16
99	Importance of OsRac1 and RAI1 in signalling of nucleotide-binding site leucine-rich repeat protein-mediated resistance to rice blast disease. <i>New Phytologist</i> , <b>2019</b> , 223, 828-838	9.8	16
98	A novel antisense long noncoding RNA, TWISTED LEAF, maintains leaf blade flattening by regulating its associated sense R2R3-MYB gene in rice. <i>New Phytologist</i> , <b>2018</b> , 218, 774-788	9.8	34
97	WHITE PANICLE3, a Novel Nucleus-Encoded Mitochondrial Protein, Is Essential for Proper Development and Maintenance of Chloroplasts and Mitochondria in Rice. <i>Frontiers in Plant Science</i> , <b>2018</b> , 9, 762	6.2	5
96	Identification of a G2-like transcription factor, OsPHL3, functions as a negative regulator of flowering in rice by co-expression and reverse genetic analysis. <i>BMC Plant Biology</i> , <b>2018</b> , 18, 157	5.3	7
95	An AT-hook protein DEPRESSED PALEA1 physically interacts with the TCP Family transcription factor RETARDED PALEA1 in rice. <i>Biochemical and Biophysical Research Communications</i> , <b>2018</b> , 495, 487-492	3.4	9
94	Identification and characterization of rice blast resistance gene Pid4 by a combination of transcriptomic profiling and genome analysis. <i>Journal of Genetics and Genomics</i> , <b>2018</b> , 45, 663-672	4	15
93	A single transcription factor promotes both yield and immunity in rice. <i>Science</i> , <b>2018</b> , 361, 1026-1028	33.3	138
92	Sequencing and de novo assembly of a near complete indica rice genome. <i>Nature Communications</i> , <b>2017</b> , 8, 15324	17.4	164
91	Constitutive expression of OsDof4, encoding a C-C zinc finger transcription factor, confers its distinct flowering effects under long- and short-day photoperiods in rice ( <i>Oryza sativa</i> L.). <i>BMC Plant Biology</i> , <b>2017</b> , 17, 166	5.3	21

90	Allelic variation of the rice blast resistance gene <i>Pid3</i> in cultivated rice worldwide. <i>Scientific Reports</i> , <b>2017</b> , 7, 10362	4.9	11
89	A Natural Allele of a Transcription Factor in Rice Confers Broad-Spectrum Blast Resistance. <i>Cell</i> , <b>2017</b> , 170, 114-126.e15	56.2	242
88	Identification and Characterization of microRNA319a and Its Putative Target Gene, , in the Bioenergy Grass Switchgrass (). <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 396	6.2	8
87	The Multivesicular Bodies (MVBs)-Localized AAA ATPase LRD6-6 Inhibits Immunity and Cell Death Likely through Regulating MVBs-Mediated Vesicular Trafficking in Rice. <i>PLoS Genetics</i> , <b>2016</b> , 12, e1006311	6	33
86	A gain-of-function mutation in <i>Msl10</i> triggers cell death and wound-induced hyperaccumulation of jasmonic acid in <i>Arabidopsis</i> . <i>Journal of Integrative Plant Biology</i> , <b>2016</b> , 58, 600-9	8.3	16
85	Endoplasmic reticulum membrane-bound <i>MoSec62</i> is involved in the suppression of rice immunity and is essential for the pathogenicity of <i>Magnaporthe oryzae</i> . <i>Molecular Plant Pathology</i> , <b>2016</b> , 17, 1211-22	5.7	4
84	Gene expression analysis and SNP/InDel discovery to investigate yield heterosis of two rubber tree F1 hybrids. <i>Scientific Reports</i> , <b>2016</b> , 6, 24984	4.9	26
83	The rice thylakoid membrane-bound ascorbate peroxidase <i>OsAPX8</i> functions in tolerance to bacterial blight. <i>Scientific Reports</i> , <b>2016</b> , 6, 26104	4.9	21
82	Integrated analysis of phenome, genome, and transcriptome of hybrid rice uncovered multiple heterosis-related loci for yield increase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E6026-E6035	11.5	79
81	The E3 ligase <i>OsPUB15</i> interacts with the receptor-like kinase <i>PID2</i> and regulates plant cell death and innate immunity. <i>BMC Plant Biology</i> , <b>2015</b> , 15, 49	5.3	56
80	Long non-coding RNAs and their biological roles in plants. <i>Genomics, Proteomics and Bioinformatics</i> , <b>2015</b> , 13, 137-47	6.5	157
79	Overexpression of <i>OsDof12</i> affects plant architecture in rice ( <i>Oryza sativa</i> L.). <i>Frontiers in Plant Science</i> , <b>2015</b> , 6, 833	6.2	21
78	<i>OsMYB103L</i> , an R2R3-MYB transcription factor, influences leaf rolling and mechanical strength in rice ( <i>Oryza sativa</i> L.). <i>BMC Plant Biology</i> , <b>2014</b> , 14, 158	5.3	62
77	Genetic mapping of fiber color genes on two brown cotton cultivars in Xinjiang. <i>SpringerPlus</i> , <b>2014</b> , 3, 480		14
76	Regulation of inflorescence branch development in rice through a novel pathway involving the pentatricopeptide repeat protein <i>sped1-D</i> . <i>Genetics</i> , <b>2014</b> , 197, 1395-407	4	18
75	Excavation of <i>Pid3</i> orthologs with differential resistance spectra to <i>Magnaporthe oryzae</i> in rice resource. <i>PLoS ONE</i> , <b>2014</b> , 9, e93275	3.7	20
74	<i>THIS1</i> is a putative lipase that regulates tillering, plant height, and spikelet fertility in rice. <i>Journal of Experimental Botany</i> , <b>2013</b> , 64, 4389-402	7	23
73	Overexpression of microRNA319 impacts leaf morphogenesis and leads to enhanced cold tolerance in rice ( <i>Oryza sativa</i> L.). <i>Plant, Cell and Environment</i> , <b>2013</b> , 36, 2207-18	8.4	242

72	Constitutive expression of a miR319 gene alters plant development and enhances salt and drought tolerance in transgenic creeping bentgrass. <i>Plant Physiology</i> , <b>2013</b> , 161, 1375-91	6.6	272
71	Transgenic rice plants overexpressing BBT14 confer partial but broad-spectrum bacterial blight resistance <b>2013</b> , 56, 383-390		7
70	Functional analysis of Pid3-A4, an ortholog of rice blast resistance gene Pid3 revealed by allele mining in common wild rice. <i>Phytopathology</i> , <b>2013</b> , 103, 594-9	3.8	49
69	Identification of potential antisense transcripts in rice using conventional microarray. <i>Molecular Biotechnology</i> , <b>2012</b> , 51, 37-43	3	2
68	Effect and breeding potential of qSB-11LE, a sheath blight resistance quantitative trait loci from a susceptible rice cultivar. <i>Canadian Journal of Plant Science</i> , <b>2011</b> , 91, 191-198	1	7
67	Transcriptional characteristics of Xa21-mediated defense responses in rice. <i>Journal of Integrative Plant Biology</i> , <b>2011</b> , 53, 300-11	8.3	18
66	An AT-hook gene is required for palea formation and floral organ number control in rice. <i>Developmental Biology</i> , <b>2011</b> , 359, 277-88	3.1	68
65	The interactions among DWARF10, auxin and cytokinin underlie lateral bud outgrowth in rice. <i>Journal of Integrative Plant Biology</i> , <b>2010</b> , 52, 626-38	8.3	41
64	A rice kinase-protein interaction map. <i>Plant Physiology</i> , <b>2009</b> , 149, 1478-92	6.6	104
63	A transcriptomic analysis of superhybrid rice LYP9 and its parents. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 7695-701	11.5	162
62	Identification of a new rice blast resistance gene, Pid3, by genomewide comparison of paired nucleotide-binding site--leucine-rich repeat genes and their pseudogene alleles between the two sequenced rice genomes. <i>Genetics</i> , <b>2009</b> , 182, 1303-11	4	150
61	Functional characterization of rice OsDof12. <i>Planta</i> , <b>2009</b> , 229, 1159-69	4.7	78
60	Strigolactones are a new-defined class of plant hormones which inhibit shoot branching and mediate the interaction of plant-AM fungi and plant-parasitic weeds. <i>Science in China Series C: Life Sciences</i> , <b>2009</b> , 52, 693-700		22
59	STAMENLESS 1, encoding a single C2H2 zinc finger protein, regulates floral organ identity in rice. <i>Plant Journal</i> , <b>2009</b> , 59, 789-801	6.9	74
58	DWARF AND LOW-TILLERING, a new member of the GRAS family, plays positive roles in brassinosteroid signaling in rice. <i>Plant Journal</i> , <b>2009</b> , 58, 803-16	6.9	222
57	Isolation and functional analysis of LiYAB1, a YABBY family gene, from lily ( <i>Lilium longiflorum</i> ). <i>Journal of Plant Physiology</i> , <b>2009</b> , 166, 988-95	3.6	15
56	Genetic and Molecular Analyses of Blast Resistance in a Universal Blast Resistant Variety, Digu <b>2009</b> , 149-159		
55	Analysis of the protein expression profiling during rice callus differentiation under different plant hormone conditions. <i>Plant Molecular Biology</i> , <b>2008</b> , 68, 597-617	4.6	21

54	Proteomic and transcriptomic analysis of rice mature seed-derived callus differentiation. <i>Proteomics</i> , <b>2007</b> , 7, 755-68	4.8	42
53	Isolation, chromosomal location, and expression analysis of putative powdery mildew resistance genes in wheat ( <i>Triticum aestivum</i> L.). <i>Euphytica</i> , <b>2007</b> , 155, 125-133	2.1	4
52	Adapting rice anther culture to gene transformation and RNA interference. <i>Science in China Series C: Life Sciences</i> , <b>2006</b> , 49, 414-28		6
51	A B-lectin receptor kinase gene conferring rice blast resistance. <i>Plant Journal</i> , <b>2006</b> , 46, 794-804	6.9	383
50	The rice HIGH-TILLERING DWARF1 encoding an ortholog of Arabidopsis MAX3 is required for negative regulation of the outgrowth of axillary buds. <i>Plant Journal</i> , <b>2006</b> , 48, 687-98	6.9	297
49	QTLs and candidate genes for chlorate resistance in rice ( <i>Oryza sativa</i> L.). <i>Euphytica</i> , <b>2006</b> , 152, 141-148	2.1	12
48	Identification and fine mapping of a mutant gene for palealess spikelet in rice. <i>Planta</i> , <b>2005</b> , 221, 222-304	4.7	41
47	Characterizations and fine mapping of a mutant gene for high tillering and dwarf in rice ( <i>Oryza sativa</i> L.). <i>Planta</i> , <b>2005</b> , 222, 604-12	4.7	92
46	Gene expression profiling in rice young panicle and vegetative organs and identification of panicle-specific genes through known gene functions. <i>Molecular Genetics and Genomics</i> , <b>2005</b> , 274, 467-76	2.1	8
45	A comparison of rice chloroplast genomes. <i>Plant Physiology</i> , <b>2004</b> , 135, 412-20	6.6	124
44	Isolation and identification of a gene in response to rice blast disease in rice. <i>Plant Molecular Biology</i> , <b>2004</b> , 54, 99-109	4.6	12
43	Analysis of rice blast resistance genes by QTL mapping. <i>Science Bulletin</i> , <b>2004</b> , 49, 337-342		11
42	QTL analysis of seed dormancy in rice ( <i>Oryza sativa</i> L.). <i>Euphytica</i> , <b>2004</b> , 140, 155-162	2.1	51
41	Analysis of T-DNA- Xa21 loci and bacterial blight resistance effects of the transgene Xa21 in transgenic rice. <i>Theoretical and Applied Genetics</i> , <b>2004</b> , 109, 534-42	6	24
40	Comparative mapping of rice root traits in seedlings grown in nutrient or non-nutrient solution. <i>Progress in Natural Science: Materials International</i> , <b>2004</b> , 14, 327-331	3.6	2
39	Function analysis of a semi-dwarf sdg in rice with near isogenic lines. <i>Progress in Natural Science: Materials International</i> , <b>2004</b> , 14, 582-587	3.6	1
38	Functional analysis of the rice AP3 homologue OsMADS16 by RNA interference. <i>Plant Molecular Biology</i> , <b>2003</b> , 52, 957-66	4.6	82
37	Identification and gene prediction of a 24 kb region containing xa5, a recessive bacterial blight resistance gene in rice ( <i>Oryza sativa</i> L.). <i>Science Bulletin</i> , <b>2003</b> , 48, 2725-2729		

36	Characterization and mapping of a white panicle mutant gene in rice. <i>Science Bulletin</i> , <b>2003</b> , 48, 457-459		5
35	Genetic analysis of rice allelopathy. <i>Science Bulletin</i> , <b>2003</b> , 48, 265-268		6
34	Characterization and mapping of a lesion mimic mutant in rice ( <i>Oryza sativa</i> L.). <i>Science Bulletin</i> , <b>2003</b> , 48, 892-896	10.6	3
33	Breeding bacterial blight-resistant hybrid rice with the cloned bacterial blight resistance gene Xa21. <i>Molecular Breeding</i> , <b>2002</b> , 8, 285-293	3.4	32
32	Genetic mapping of a new semi-dwarf gene, sd-t(t), in indica rice and estimating of the physical distance of the mapping region. <i>Science in China Series C: Life Sciences</i> , <b>2002</b> , 45, 388-96		4
31	DIFFERENTIAL RESPONSE OF RICE PLANTS TO LOW-PHOSPHORUS STRESS AND ITS PHYSIOLOGICAL ADAPTIVE MECHANISM. <i>Journal of Plant Nutrition</i> , <b>2002</b> , 25, 1213-1224	2.3	13
30	A draft sequence of the rice genome ( <i>Oryza sativa</i> L. ssp. indica). <i>Science</i> , <b>2002</b> , 296, 79-92	33.3	2356
29	Efficient selection of homozygous lines of hybrid rice restorer with the transgeneXa21 using test cross and PCR. <i>Science Bulletin</i> , <b>2001</b> , 46, 125-128		2
28	Mapping of a new gene for brown planthopper resistance in cultivated rice introgressed from <i>Oryza eichingeri</i> . <i>Science Bulletin</i> , <b>2001</b> , 46, 1459-1462		33
27	Identification of an AFLP marker linked to the stripe rust resistance geneYr10 in wheat. <i>Science Bulletin</i> , <b>2001</b> , 46, 1466-1468		8
26	NBS-LRR resistance gene homologues in rice. <i>Science in China Series C: Life Sciences</i> , <b>2001</b> , 44, 253-62		7
25	Genetic analysis and gene mapping of a rice few-tillering mutant in early backcross populations ( <i>Oryza sativa</i> L.). <i>Science in China Series C: Life Sciences</i> , <b>2001</b> , 44, 570-5		7
24	Comparative study of QTLs for agronomic traits of rice( <i>Oriza sativa</i> L.) between salt stress and nonstress environment. <i>Science in China Series C: Life Sciences</i> , <b>2001</b> , 44, 73-82		18
23	QTL analysis of rice low temperature germinability. <i>Science Bulletin</i> , <b>2001</b> , 46, 1800-1803		23
22	A draft sequence of the rice ( <i>Oryza sativa</i> ssp.indica) genome. <i>Science Bulletin</i> , <b>2001</b> , 46, 1937-1942		24
21	Molecular tagging of a genic male-sterile gene in rice. <i>Science Bulletin</i> , <b>2001</b> , 46, 66-69		2
20	DETECTION AND VERIFICATION OF QUANTITATIVE TRAIT LOCI AFFECTING TOLERANCE TO LOW PHOSPHORUS IN RICE. <i>Journal of Plant Nutrition</i> , <b>2001</b> , 24, 1399-1408	2.3	18
19	Development and applications of a complete set of rice telotrisomics. <i>Genetics</i> , <b>2001</b> , 157, 361-8	4	29

18	Genetic analysis of morphological index and its related taxonomic traits for classification of indica/japonica rice. <i>Science in China Series C: Life Sciences</i> , <b>2000</b> , 43, 113-9	11
17	Introduction of a rice blight resistance gene, Xa21, into five Chinese rice varieties through an Agrobacterium-mediated system. <i>Science in China Series C: Life Sciences</i> , <b>2000</b> , 43, 361-8	20
16	Molecular mapping of split rice spikelet mutant srs-1 and analysis of its homeotic function in rice. <i>Science in China Series C: Life Sciences</i> , <b>2000</b> , 43, 369-75	4
15	QTL analysis of the rice seedling cold tolerance in a double haploid population derived from anther culture of a hybrid between indica and japonica rice. <i>Science Bulletin</i> , <b>2000</b> , 45, 448-453	31
14	Identification of quantitative trait loci affecting tolerance to low phosphorus in rice ( <i>Oryza Sativa</i> L.). <i>Science Bulletin</i> , <b>2000</b> , 45, 520-525	27
13	Identification of salt-tolerance QTL in rice ( <i>Oryza sativa</i> L.). <i>Science Bulletin</i> , <b>1999</b> , 44, 68-71	40
12	Amplification, analysis and chromosome mapping of novel homeobox-containing and homeobox-flanking sequences in rice. <i>Science in China Series C: Life Sciences</i> , <b>1999</b> , 42, 162-70	
11	Analysis and location of a rice BAC clone containing telomeric DNA sequences. <i>Science in China Series C: Life Sciences</i> , <b>1999</b> , 42, 68-73	
10	Starch RVA profile parameters of rice are mainly controlled by Wx gene. <i>Science Bulletin</i> , <b>1999</b> , 44, 2047-2051	18
9	Tagging major quantitative trait loci for sheath blight resistance in a rice variety, Jasmine 85. <i>Science Bulletin</i> , <b>1999</b> , 44, 1783-1789	24
8	Analysis of quantitative trait loci which contribute to anther culturability in rice ( <i>Oryza sativa</i> L.). <i>Molecular Breeding</i> , <b>1998</b> , 4, 165-172	3-4 39
7	Molecular evidence on maize specific DNA fragment transferred into wheat through sexual hybridization. <i>Science in China Series C: Life Sciences</i> , <b>1998</b> , 41, 126-32	5
6	Structural and functional analysis of a MADS box containing genomic DNA sequence cloned from rice. <i>Science in China Series C: Life Sciences</i> , <b>1998</b> , 41, 561-8	
5	Microdissection and amplification of the chromosome arm 5S in a rice telo-tetrasomic. <i>Science Bulletin</i> , <b>1998</b> , 43, 590-594	4
4	Extension of the rice DH population genetic map with microsatellite markers. <i>Science Bulletin</i> , <b>1998</b> , 43, 149-153	4
3	Inheritance and mapping of embryo sac abortion in hybrid between Indica and Japonica rice ( <i>Oryza sativa</i> L.). <i>Science in China Series C: Life Sciences</i> , <b>1998</b> , 41, 272-7	2
2	Inheritance of callus induction ability in rice anther culture. <i>Science Bulletin</i> , <b>1997</b> , 42, 1209-1211	0
1	Comparative mapping of QTLs for agronomic traits of rice across environments by using a doubled-haploid population. <i>Theoretical and Applied Genetics</i> , <b>1997</b> , 94, 145-50	6 99

