

# Lizhong Xiong

## 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

12,886  
citations

57  
h-index

111  
g-index

111  
ext. papers

16,238  
ext. citations

7.6  
avg, IF

6.65  
L-index

#	Paper	IF	Citations
107	A MITE variation-associated heat-inducible isoform of a heat-shock factor confers heat tolerance through regulation of JASMONATE ZIM-DOMAIN genes in rice.. <i>New Phytologist</i> , <b>2022</b> ,	9.8	1
106	Genome-wide association study revealed genetic variations of ABA sensitivity controlled by multiple stress-related genes in rice. <i>Stress Biology</i> , <b>2021</b> , 1, 1		
105	A FLASH pipeline for arrayed CRISPR library construction and the gene function discovery of rice receptor-like kinases. <i>Molecular Plant</i> , <b>2021</b> ,	14.4	3
104	A deep learning-integrated micro-CT image analysis pipeline for quantifying rice lodging resistance-related traits. <i>Plant Communications</i> , <b>2021</b> , 2, 100165	9	6
103	Using high-throughput multiple optical phenotyping to decipher the genetic architecture of maize drought tolerance. <i>Genome Biology</i> , <b>2021</b> , 22, 185	18.3	9
102	Combining UAV-RGB high-throughput field phenotyping and genome-wide association study to reveal genetic variation of rice germplasms in dynamic response to drought stress. <i>New Phytologist</i> , <b>2021</b> , 232, 440-455	9.8	5
101	Genetic analyses of lodging resistance and yield provide insights into post-Green-Revolution breeding in rice. <i>Plant Biotechnology Journal</i> , <b>2021</b> , 19, 814-829	11.6	3
100	High-throughput phenotyping accelerates the dissection of the dynamic genetic architecture of plant growth and yield improvement in rapeseed. <i>Plant Biotechnology Journal</i> , <b>2020</b> , 18, 2345-2353	11.6	13
99	OsTMF attenuates cold tolerance by affecting cell wall properties in rice. <i>New Phytologist</i> , <b>2020</b> , 227, 498-512	9.8	3
98	A lamin-like protein OsNMCP1 regulates drought resistance and root growth through chromatin accessibility modulation by interacting with a chromatin remodeller OsSWI3C in rice. <i>New Phytologist</i> , <b>2020</b> , 227, 65-83	9.8	8
97	Crop Phenomics and High-Throughput Phenotyping: Past Decades, Current Challenges, and Future Perspectives. <i>Molecular Plant</i> , <b>2020</b> , 13, 187-214	14.4	188
96	Nondestructive 3D Image Analysis Pipeline to Extract Rice Grain Traits Using X-Ray Computed Tomography. <i>Plant Phenomics</i> , <b>2020</b> , 2020, 3414926	7	9
95	and Redundantly Shape Rice Tiller Angle by Reducing Expression and Auxin Content. <i>Plant Physiology</i> , <b>2020</b> , 184, 1424-1437	6.6	11
94	Synergistic regulation of drought-responsive genes by transcription factor OsbZIP23 and histone modification in rice. <i>Journal of Integrative Plant Biology</i> , <b>2020</b> , 62, 723-729	8.3	10
93	Reversible Histone H2B Monoubiquitination Fine-Tunes Abscisic Acid Signaling and Drought Response in Rice. <i>Molecular Plant</i> , <b>2019</b> , 12, 263-277	14.4	22
92	Is Required for Formation of the Stigma and Style in Rice. <i>Plant Physiology</i> , <b>2019</b> , 180, 926-936	6.6	14
91	Directional upgrading of brown planthopper resistance in an elite rice cultivar by precise introgression of two resistance genes using genomics-based breeding. <i>Plant Science</i> , <b>2019</b> , 288, 110211	5.3	3

90	Genome-Wide Identification of SNAC1-Targeted Genes Involved in Drought Response in Rice. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 982	6.2	21
89	BIG regulates stomatal immunity and jasmonate production in Arabidopsis. <i>New Phytologist</i> , <b>2019</b> , 222, 335-348	9.8	12
88	Combining high-throughput micro-CT-RGB phenotyping and genome-wide association study to dissect the genetic architecture of tiller growth in rice. <i>Journal of Experimental Botany</i> , <b>2019</b> , 70, 545-561	7	35
87	Genome-Wide Association Studies of Image Traits Reveal Genetic Architecture of Drought Resistance in Rice. <i>Molecular Plant</i> , <b>2018</b> , 11, 789-805	14.4	72
86	Integrative Regulation of Drought Escape through ABA-Dependent and -Independent Pathways in Rice. <i>Molecular Plant</i> , <b>2018</b> , 11, 584-597	14.4	52
85	Novel Digital Features Discriminate Between Drought Resistant and Drought Sensitive Rice Under Controlled and Field Conditions. <i>Frontiers in Plant Science</i> , <b>2018</b> , 9, 492	6.2	25
84	Functional analysis of the HD-Zip transcription factor genes Oshox12 and Oshox14 in rice. <i>PLoS ONE</i> , <b>2018</b> , 13, e0199248	3.7	15
83	The OsMYB30 Transcription Factor Suppresses Cold Tolerance by Interacting with a JAZ Protein and Suppressing $\alpha$ -Amylase Expression. <i>Plant Physiology</i> , <b>2017</b> , 173, 1475-1491	6.6	68
82	High-Throughput Phenotyping and QTL Mapping Reveals the Genetic Architecture of Maize Plant Growth. <i>Plant Physiology</i> , <b>2017</b> , 173, 1554-1564	6.6	133
81	Translational repression by a miniature inverted-repeat transposable element in the 3' untranslated region. <i>Nature Communications</i> , <b>2017</b> , 8, 14651	17.4	38
80	A high-throughput stereo-imaging system for quantifying rape leaf traits during the seedling stage. <i>Plant Methods</i> , <b>2017</b> , 13, 7	5.8	40
79	Genetic control of the root system in rice under normal and drought stress conditions by genome-wide association study. <i>PLoS Genetics</i> , <b>2017</b> , 13, e1006889	6	68
78	An integrated hyperspectral imaging and genome-wide association analysis platform provides spectral and genetic insights into the natural variation in rice. <i>Scientific Reports</i> , <b>2017</b> , 7, 4401	4.9	22
77	Panicle-SEG: a robust image segmentation method for rice panicles in the field based on deep learning and superpixel optimization. <i>Plant Methods</i> , <b>2017</b> , 13, 104	5.8	85
76	Co-overexpression of the Constitutively Active Form of OsbZIP46 and ABA-Activated Protein Kinase SAPK6 Improves Drought and Temperature Stress Resistance in Rice. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 1102	6.2	32
75	OsJAZ1 Attenuates Drought Resistance by Regulating JA and ABA Signaling in Rice. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 2108	6.2	68
74	Ghd2, a CONSTANS-like gene, confers drought sensitivity through regulation of senescence in rice. <i>Journal of Experimental Botany</i> , <b>2016</b> , 67, 5785-5798	7	46
73	Feedback Regulation of ABA Signaling and Biosynthesis by a bZIP Transcription Factor Targets Drought-Resistance-Related Genes. <i>Plant Physiology</i> , <b>2016</b> , 171, 2810-25	6.6	136

72	New insights into the genetic basis of natural chilling and cold shock tolerance in rice by genome-wide association analysis. <i>Plant, Cell and Environment</i> , <b>2016</b> , 39, 556-70	8.4	75
71	MODD Mediates Deactivation and Degradation of OsZIP46 to Negatively Regulate ABA Signaling and Drought Resistance in Rice. <i>Plant Cell</i> , <b>2016</b> , 28, 2161-2177	11.6	78
70	Genome-wide association study of rice ( <i>Oryza sativa</i> L.) leaf traits with a high-throughput leaf scorer. <i>Journal of Experimental Botany</i> , <b>2015</b> , 66, 5605-15	7	55
69	A stress-responsive NAC transcription factor SNAC3 confers heat and drought tolerance through modulation of reactive oxygen species in rice. <i>Journal of Experimental Botany</i> , <b>2015</b> , 66, 6803-17	7	227
68	Breeding signatures of rice improvement revealed by a genomic variation map from a large germplasm collection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E5411-9	11.5	116
67	GID1 modulates stomatal response and submergence tolerance involving abscisic acid and gibberellic acid signaling in rice. <i>Journal of Integrative Plant Biology</i> , <b>2015</b> , 57, 954-68	8.3	23
66	General mechanisms of drought response and their application in drought resistance improvement in plants. <i>Cellular and Molecular Life Sciences</i> , <b>2015</b> , 72, 673-89	10.3	481
65	OsARID3, an AT-rich Interaction Domain-containing protein, is required for shoot meristem development in rice. <i>Plant Journal</i> , <b>2015</b> , 83, 806-17	6.9	10
64	Genetic Improvement of Drought Resistance in Rice <b>2015</b> , 73-102		3
63	OsJAZ9 acts as a transcriptional regulator in jasmonate signaling and modulates salt stress tolerance in rice. <i>Plant Science</i> , <b>2015</b> , 232, 1-12	5.3	95
62	A nondestructive method for estimating the total green leaf area of individual rice plants using multi-angle color images. <i>Journal of Innovative Optical Health Sciences</i> , <b>2015</b> , 08, 1550002	1.2	3
61	A homolog of ETHYLENE OVERPRODUCER, OsETOL1, differentially modulates drought and submergence tolerance in rice. <i>Plant Journal</i> , <b>2014</b> , 78, 834-49	6.9	49
60	Genetic engineering and breeding of drought-resistant crops. <i>Annual Review of Plant Biology</i> , <b>2014</b> , 65, 715-41	30.7	387
59	Combining high-throughput phenotyping and genome-wide association studies to reveal natural genetic variation in rice. <i>Nature Communications</i> , <b>2014</b> , 5, 5087	17.4	316
58	Conserved miR164-targeted NAC genes negatively regulate drought resistance in rice. <i>Journal of Experimental Botany</i> , <b>2014</b> , 65, 2119-35	7	207
57	Improvement of Stress Tolerance in Crops by Genetic Manipulation of ABA Metabolism, Signaling, and Regulation <b>2014</b> , 447-465		
56	A STRESS-RESPONSIVE NAC1-regulated protein phosphatase gene rice protein phosphatase18 modulates drought and oxidative stress tolerance through abscisic acid-independent reactive oxygen species scavenging in rice. <i>Plant Physiology</i> , <b>2014</b> , 166, 2100-14	6.6	95
55	Natural variation in the sequence of SNAC1 and its expression level polymorphism in rice Germplasms under drought stress. <i>Journal of Genetics and Genomics</i> , <b>2014</b> , 41, 609-12	4	6

54	A special member of the rice SRO family, OsSRO1c, mediates responses to multiple abiotic stresses through interaction with various transcription factors. <i>Plant Molecular Biology</i> , <b>2014</b> , 84, 693-705	4.6	29
53	Carotenoid deficiency impairs ABA and IAA biosynthesis and differentially affects drought and cold tolerance in rice. <i>Plant Molecular Biology</i> , <b>2013</b> , 83, 475-88	4.6	94
52	Characterization of a purine permease family gene OsPUP7 involved in growth and development control in rice. <i>Journal of Integrative Plant Biology</i> , <b>2013</b> , 55, 1119-35	8.3	45
51	Mutant resources for the functional analysis of the rice genome. <i>Molecular Plant</i> , <b>2013</b> , 6, 596-604	14.4	84
50	Rice panicle length measuring system based on dual-camera imaging. <i>Computers and Electronics in Agriculture</i> , <b>2013</b> , 98, 158-165	6.5	22
49	Genome-wide profiling of histone H3K4-tri-methylation and gene expression in rice under drought stress. <i>Plant Molecular Biology</i> , <b>2013</b> , 81, 175-88	4.6	130
48	The SNAC1-targeted gene OsSRO1c modulates stomatal closure and oxidative stress tolerance by regulating hydrogen peroxide in rice. <i>Journal of Experimental Botany</i> , <b>2013</b> , 64, 569-83	7	127
47	Plant phenomics and high-throughput phenotyping: accelerating rice functional genomics using multidisciplinary technologies. <i>Current Opinion in Plant Biology</i> , <b>2013</b> , 16, 180-7	9.9	174
46	Genetic mechanisms conferring adaptation to submergence and drought in rice: simple or complex?. <i>Current Opinion in Plant Biology</i> , <b>2013</b> , 16, 196-204	9.9	79
45	Insight into differential responses of upland and paddy rice to drought stress by comparative expression profiling analysis. <i>International Journal of Molecular Sciences</i> , <b>2013</b> , 14, 5214-38	6.3	31
44	Endogenous auxin and jasmonic acid levels are differentially modulated by abiotic stresses in rice. <i>Frontiers in Plant Science</i> , <b>2013</b> , 4, 397	6.2	261
43	A hyperspectral imaging system for an accurate prediction of the above-ground biomass of individual rice plants. <i>Review of Scientific Instruments</i> , <b>2013</b> , 84, 095107	1.7	13
42	Putative megaenzyme DWA1 plays essential roles in drought resistance by regulating stress-induced wax deposition in rice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 17790-5	11.5	72
41	A novel integrated method for large-scale detection, identification, and quantification of widely targeted metabolites: application in the study of rice metabolomics. <i>Molecular Plant</i> , <b>2013</b> , 6, 1769-80	14.4	532
40	Abiotic Stress Resistance <b>2013</b> , 193-215		1
39	An ornithine aminotransferase gene OsOAT confers drought and oxidative stress tolerance in rice. <i>Plant Science</i> , <b>2012</b> , 197, 59-69	5.3	94
38	A GH3 family member, OsGH3-2, modulates auxin and abscisic acid levels and differentially affects drought and cold tolerance in rice. <i>Journal of Experimental Botany</i> , <b>2012</b> , 63, 6467-80	7	201
37	Constitutive activation of transcription factor OsbZIP46 improves drought tolerance in rice. <i>Plant Physiology</i> , <b>2012</b> , 158, 1755-68	6.6	224

36	Gradual increase of miR156 regulates temporal expression changes of numerous genes during leaf development in rice. <i>Plant Physiology</i> , <b>2012</b> , 158, 1382-94	6.6	162
35	Identification of a cluster of PR4-like genes involved in stress responses in rice. <i>Journal of Plant Physiology</i> , <b>2011</b> , 168, 2212-24	3.6	48
34	Characterization of an inositol 1,3,4-trisphosphate 5/6-kinase gene that is essential for drought and salt stress responses in rice. <i>Plant Molecular Biology</i> , <b>2011</b> , 77, 547-63	4.6	48
33	Evaluation of near-isogenic lines for drought resistance QTL and fine mapping of a locus affecting flag leaf width, spikelet number, and root volume in rice. <i>Theoretical and Applied Genetics</i> , <b>2011</b> , 123, 815-26	6	69
32	A structural view of the conserved domain of rice stress-responsive NAC1. <i>Protein and Cell</i> , <b>2011</b> , 2, 55-63	3.2	71
31	Detecting quantitative trait loci for water use efficiency in rice using a recombinant inbred line population. <i>Science Bulletin</i> , <b>2011</b> , 56, 1481-1487		4
30	Increased leaf angle1, a Raf-like MAPKKK that interacts with a nuclear protein family, regulates mechanical tissue formation in the Lamina joint of rice. <i>Plant Cell</i> , <b>2011</b> , 23, 4334-47	11.6	95
29	A Raf-like MAPKKK gene DSM1 mediates drought resistance through reactive oxygen species scavenging in rice. <i>Plant Physiology</i> , <b>2010</b> , 152, 876-90	6.6	258
28	Characterization of the beta-carotene hydroxylase gene DSM2 conferring drought and oxidative stress resistance by increasing xanthophylls and abscisic acid synthesis in rice. <i>Plant Physiology</i> , <b>2010</b> , 154, 1304-18	6.6	203
27	Systematic identification and expression analysis of BREVIS RADIX-like homologous genes in rice. <i>Plant Science</i> , <b>2010</b> , 178, 183-191	5.3	6
26	Systematic analysis of GT factor family of rice reveals a novel subfamily involved in stress responses. <i>Molecular Genetics and Genomics</i> , <b>2010</b> , 283, 157-69	3.1	57
25	Global expression profiling of rice microRNAs by one-tube stem-loop reverse transcription quantitative PCR revealed important roles of microRNAs in abiotic stress responses. <i>Molecular Genetics and Genomics</i> , <b>2010</b> , 284, 477-88	3.1	77
24	Genetic mapping of the rice ionome in leaves and grain: identification of QTLs for 17 elements including arsenic, cadmium, iron and selenium. <i>Plant and Soil</i> , <b>2010</b> , 329, 139-153	4.2	198
23	A homolog of human ski-interacting protein in rice positively regulates cell viability and stress tolerance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 6410-5	11.5	117
22	Comprehensive expression profiling analysis of OsIAA gene family in developmental processes and in response to phytohormone and stress treatments. <i>Planta</i> , <b>2009</b> , 229, 577-91	4.7	117
21	Genome-wide identification of BURP domain-containing genes in rice reveals a gene family with diverse structures and responses to abiotic stresses. <i>Planta</i> , <b>2009</b> , 230, 149-63	4.7	49
20	Characterization of OsIAA1 gene, a member of rice Aux/IAA family involved in auxin and brassinosteroid hormone responses and plant morphogenesis. <i>Plant Molecular Biology</i> , <b>2009</b> , 70, 297-309	4.6	96
19	Characterization of Glossy1-homologous genes in rice involved in leaf wax accumulation and drought resistance. <i>Plant Molecular Biology</i> , <b>2009</b> , 70, 443-56	4.6	119

18	Identification and expression profiling analysis of TIFY family genes involved in stress and phytohormone responses in rice. <i>Plant Molecular Biology</i> , <b>2009</b> , 71, 291-305	4.6	243
17	Systematic identification of X1-homologous genes reveals a family involved in stress responses in rice. <i>Plant Molecular Biology</i> , <b>2009</b> , 71, 483-96	4.6	10
16	Comprehensive sequence and expression profile analysis of PEX11 gene family in rice. <i>Gene</i> , <b>2008</b> , 412, 59-70	3.8	19
15	Characterization of OsbZIP23 as a key player of the basic leucine zipper transcription factor family for conferring abscisic acid sensitivity and salinity and drought tolerance in rice. <i>Plant Physiology</i> , <b>2008</b> , 148, 1938-52	6.6	451
14	Characterization of transcription factor gene SNAC2 conferring cold and salt tolerance in rice. <i>Plant Molecular Biology</i> , <b>2008</b> , 67, 169-81	4.6	479
13	Systematic analysis of NPK1-like genes in rice reveals a stress-inducible gene cluster co-localized with a quantitative trait locus of drought resistance. <i>Molecular Genetics and Genomics</i> , <b>2008</b> , 280, 535-46 <sup>3.1</sup>		14
12	Systematic sequence analysis and identification of tissue-specific or stress-responsive genes of NAC transcription factor family in rice. <i>Molecular Genetics and Genomics</i> , <b>2008</b> , 280, 547-63	3.1	328
11	Over-expression of a LEA gene in rice improves drought resistance under the field conditions. <i>Theoretical and Applied Genetics</i> , <b>2007</b> , 115, 35-46	6	384
10	Global genome expression analysis of rice in response to drought and high-salinity stresses in shoot, flag leaf, and panicle. <i>Plant Molecular Biology</i> , <b>2007</b> , 63, 591-608	4.6	227
9	Characterization of a stress responsive proteinase inhibitor gene with positive effect in improving drought resistance in rice. <i>Planta</i> , <b>2007</b> , 226, 73-85	4.7	89
8	Characterization of stress-responsive CIPK genes in rice for stress tolerance improvement. <i>Plant Physiology</i> , <b>2007</b> , 144, 1416-28	6.6	339
7	RMD: a rice mutant database for functional analysis of the rice genome. <i>Nucleic Acids Research</i> , <b>2006</b> , 34, D745-8	20.1	171
6	Genomic organization, differential expression, and interaction of SQUAMOSA promoter-binding-like transcription factors and microRNA156 in rice. <i>Plant Physiology</i> , <b>2006</b> , 142, 280-93 <sup>6.6</sup>		442
5	Genetic basis of drought resistance at reproductive stage in rice: separation of drought tolerance from drought avoidance. <i>Genetics</i> , <b>2006</b> , 172, 1213-28	4	292
4	Overexpressing a NAM, ATAF, and CUC (NAC) transcription factor enhances drought resistance and salt tolerance in rice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 12987-92	11.5	1133
3	Establishment of a patterned GAL4-VP16 transactivation system for discovering gene function in rice. <i>Plant Journal</i> , <b>2006</b> , 46, 1059-72	6.9	29
2	Genetic analysis for drought resistance of rice at reproductive stage in field with different types of soil. <i>Theoretical and Applied Genetics</i> , <b>2005</b> , 111, 1127-36	6	89
1	Disease resistance and abiotic stress tolerance in rice are inversely modulated by an abscisic acid-inducible mitogen-activated protein kinase. <i>Plant Cell</i> , <b>2003</b> , 15, 745-59	11.6	624

