Liming Xiong

List of Publications by Year
in descending order

81 papers	14,416 citations	53794 45 h-index	66911 78 g-index
90 all docs	90 docs citations	90 times ranked	14521 citing authors

#	Article	IF	Citations
1	Cell Signaling during Cold, Drought, and Salt Stress. Plant Cell, 2002, 14, S165-S183.	6.6	1,874
2	Dynamic regulation of genome-wide pre-mRNA splicing and stress tolerance by the Sm-like protein LSm5 in Arabidopsis. Genome Biology, 2014, 15, R1.	9.6	1,501
3	Regulation of Abscisic Acid Biosynthesis. Plant Physiology, 2003, 133, 29-36.	4.8	708
4	Molecular and genetic aspects of plant responses to osmotic stress. Plant, Cell and Environment, 2002, 25, 131-139.	5.7	702
5	Plant abiotic stress response and nutrient use efficiency. Science China Life Sciences, 2020, 63, 635-674.	4.9	689
6	Genetic Analysis of Salt Tolerance in Arabidopsis: Evidence for a Critical Role of Potassium Nutrition. Plant Cell, 1998, 10, 1181-1191.	6.6	607
7	The Arabidopsis LOS5/ABA3 Locus Encodes a Molybdenum Cofactor Sulfurase and Modulates Cold Stressâ€“ and Osmotic Stressâ€“Responsive Gene Expression. Plant Cell, 2001, 13, 2063-2083.	6.6	492
8	The Arabidopsis LOS5/ABA3 Locus Encodes a Molybdenum Cofactor Sulfurase and Modulates Cold Stress- and Osmotic Stress-Responsive Gene Expression. Plant Cell, 2001, 13, 2063-2083.	6.6	440
9	The Arabidopsis HOS1 gene negatively regulates cold signal transduction and encodes a RING finger protein that displays cold-regulated nucleo-cytoplasmic partitioning. Genes and Development, 2001, 15, 912-924.	5.9	392
10	Regulation of Osmotic Stress-responsive Gene Expression by theLOS6/ABA1 Locus inArabidopsis. Journal of Biological Chemistry, 2002, 277, 8588-8596.	3.4	382
11	Identification of Drought Tolerance Determinants by Genetic Analysis of Root Response to Drought Stress and Abscisic Acid. Plant Physiology, 2006, 142, 1065-1074.	4.8	366
12	FIERY1 encoding an inositol polyphosphate 1-phosphatase is a negative regulator of abscisic acid and stress signaling in Arabidopsis. Genes and Development, 2001, 15, 1971-1984.	5.9	343
13	A DEAD Box RNA Helicase Is Essential for mRNA Export and Important for Development and Stress Responses in Arabidopsis. Plant Cell, 2005, 17, 256-267.	6.6	322
14	Modulation of Abscisic Acid Signal Transduction and Biosynthesis by an Sm-like Protein in Arabidopsis. Developmental Cell, 2001, 1, 771-781.	7.0	311
15	LOS2, a genetic locus required for cold-responsive gene transcription encodes a bi-functional enolase. EMBO Journal, 2002, 21, 2692-2702.	7.8	303
16	A Calcium Sensor and Its Interacting Protein Kinase Are Global Regulators of Abscisic Acid Signaling in Arabidopsis. Developmental Cell, 2002, 3, 233-244.	7.0	278
17	HOS1, a Genetic Locus Involved in Cold-Responsive Gene Expression in Arabidopsis. Plant Cell, 1998, 10, 1151-1161.	6.6	276
18	RNA helicase-like protein as an early regulator of transcription factors for plant chilling and freezing tolerance. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 11507-11512.	7.1	275

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19	Integration of light and abscisic acid signaling during seed germination and early seedling development. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 4495-4500.	7.1	251
20	A Nucleus-Localized Long Non-Coding RNA Enhances Drought and Salt Stress Tolerance. Plant Physiology, 2017, 175, 1321-1336.	4.8	251
21	Genome-wide analysis of alternative splicing of pre-mRNA under salt stress in Arabidopsis. BMC Genomics, 2014, 15, 431.	2.8	234
22	A Mitochondrial Complex I Defect Impairs Cold-Regulated Nuclear Gene Expression. Plant Cell, 2002, 14, 1235-1251.	6.6	233
23	Abiotic stress signal transduction in plants: Molecular and genetic perspectives. Physiologia Plantarum, 2001, 112, 152-166.	5.2	219
24	The Arabidopsis salt overly sensitive 4 Mutants Uncover a Critical Role for Vitamin B6 in Plant Salt Tolerance. Plant Cell, 2002, 14, 575-588.	6.6	191
25	Interaction of Osmotic Stress, Temperature, and Abscisic Acid in the Regulation of Gene Expression in Arabidopsis. Plant Physiology, 1999, 119, 205-212.	4.8	172
26	Pyridoxine is required for post-embryonic root development and tolerance to osmotic and oxidative stresses. Plant Journal, 2005, 44, 396-408.	5.7	163
27	The Plant Cuticle Is Required for Osmotic Stress Regulation of Abscisic Acid Biosynthesis and Osmotic Stress Tolerance in<i>Arabidopsis</i>Â. Plant Cell, 2011, 23, 1971-1984.	6.6	147
28	C-terminal domain phosphatase-like family members (AtCPLs) differentially regulate Arabidopsis thaliana abiotic stress signaling, growth, and development. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 10893-10898.	7.1	146
29	An Arabidopsis mutation in translation elongation factor 2 causes superinduction of CBF/DREB1 transcription factor genes but blocks the induction of their downstream targets under low temperatures. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 7786-7791.	7.1	144
30	Repression of stress-responsive genes by FIERY2, a novel transcriptional regulator in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 10899-10904.	7.1	137
31	A plant microRNA regulates the adaptation of roots to drought stress. FEBS Letters, 2012, 586, 1742-1747.	2.8	118
32	Cold-regulated gene expression and freezing tolerance in an Arabidopsis thaliana mutant. Plant Journal, 1999, 17, 301-308.	5.7	93
33	Arabidopsis Plastid AMOS1/EGY1 Integrates Abscisic Acid Signaling to Regulate Global Gene Expression Response to Ammonium Stress. Plant Physiology, 2012, 160, 2040-2051.	4.8	92
34	Shootâ€supplied ammonium targets the root auxin influx carrier AUX1 and inhibits lateral root emergence in <i>Arabidopsis</i>. Plant, Cell and Environment, 2011, 34, 933-946.	5.7	90
35	A KH-Domain RNA-Binding Protein Interacts with FIERY2/CTD Phosphatase-Like 1 and Splicing Factors and Is Important for Pre-mRNA Splicing in Arabidopsis. PLoS Genetics, 2013, 9, e1003875.	3.5	88
36	Genetic Analysis of Osmotic and Cold Stress Signal Transduction in Arabidopsis: Interactions and Convergence of Abscisic Acid-Dependent and Abscisic Acid-Independent Pathways. Plant Cell, 1997, 9, 1935.	6.6	85

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37	HOS5-a negative regulator of osmotic stress-induced gene expression in Arabidopsis thaliana. Plant Journal, 1999, 19, 569-578.	5.7	72
38	The RNA-binding protein HOS5 and serine/arginine-rich proteins RS40 and RS41 participate in miRNA biogenesis in Arabidopsis. Nucleic Acids Research, 2015, 43, 8283-8298.	14.5	67
39	<scp>AtM</scp>yb7, a subgroup 4 <scp>R</scp>2<scp>R</scp>3 <scp>M</scp>yb, negatively regulates <scp>ABA</scp>â€induced inhibition of seed germination by blocking the expression of the <scp>bZIP</scp> transcription factor <scp>ABI</scp>5. Plant, Cell and Environment, 2015, 38, 559-571.	5.7	66
40	Salt Tolerance. The Arabidopsis Book, 2002, 1, e0048.	0.5	63
41	myo-Inositol-1-phosphate Synthase Is Required for Polar Auxin Transport and Organ Development. Journal of Biological Chemistry, 2010, 285, 24238-24247.	3.4	62
42	A single amino acid substitution in the Arabidopsis FIERY1/HOS2 protein confers cold signaling specificity and lithium tolerance. Plant Journal, 2004, 40, 536-545.	5.7	58
43	Genetic analysis of pathway regulation for enhancing branchedâ€chain amino acid biosynthesis in plants. Plant Journal, 2010, 63, 573-583.	5.7	57
44	Arabidopsis cysteine-rich receptor-like kinase 45 functions in the responses to abscisic acid and abiotic stresses. Plant Physiology and Biochemistry, 2013, 67, 189-198.	5.8	57
45	Spliceosomal protein U1A is involved in alternative splicing and salt stress tolerance in Arabidopsis thaliana. Nucleic Acids Research, 2018, 46, 1777-1792.	14.5	57
46	A Nucleotide Metabolite Controls Stress-Responsive Gene Expression and Plant Development. PLoS ONE, 2011, 6, e26661.	2.5	45
47	The Putative E3 Ubiquitin Ligase ECERIFERUM9 Regulates Abscisic Acid Biosynthesis and Response during Seed Germination and Postgermination Growth in Arabidopsis Â Â. Plant Physiology, 2014, 165, 1255-1268.	4.8	42
48	The bifunctional abiotic stress signalling regulator and endogenous RNA silencing suppressor FIERY1 is required for lateral root formation. Plant, Cell and Environment, 2010, 33, 2180-2190.	5.7	41
49	The Arabidopsis Vacuolar Sorting Receptor1 Is Required for Osmotic Stress-Induced Abscisic Acid Biosynthesis Â. Plant Physiology, 2014, 167, 137-152.	4.8	41
50	Proteomic identification of early salicylate- and flg22-responsive redox-sensitive proteins in Arabidopsis. Scientific Reports, 2015, 5, 8625.	3.3	41
51	Arabidopsis proteome and the mass spectral assay library. Scientific Data, 2019, 6, 278.	5.3	39
52	<scp>GSA</scp>â€1/<scp>ARG</scp>1 protects root gravitropism in <i>Arabidopsis</i> under ammonium stress. New Phytologist, 2013, 200, 97-111.	7.3	35
53	Alternative splicing of anciently exonized 5S rRNA regulates plant transcription factor TFIIIA. Genome Research, 2009, 19, 913-921.	5.5	34
54	Enhancement of vitamin B₆ levels in seeds through metabolic engineering. Plant Biotechnology Journal, 2009, 7, 673-681.	8.3	30

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55	Arabidopsis <scp>YAK</scp>1 regulates abscisic acid response and drought resistance. FEBS Letters, 2016, 590, 2201-2209.	2.8	28
56	LOWER TEMPERATURE 1 Enhances ABA Responses and Plant Drought Tolerance by Modulating the Stability and Localization of C2-Domain ABA-Related Proteins in Arabidopsis. Molecular Plant, 2019, 12, 1243-1258.	8.3	28
57	The short-rooted vitamin B6-deficient mutant pdx1 has impaired local auxin biosynthesis. Planta, 2009, 229, 1303-1310.	3.2	22
58	Environmental Stress and Pre-mRNA Splicing. Molecular Plant, 2015, 8, 1302-1303.	8.3	21
59	TheArabidopsisgeneDIG6encodes a large 60S subunit nuclear export GTPase 1 that is involved in ribosome biogenesis and affects multiple auxin-regulated development processes. Journal of Experimental Botany, 2015, 66, 6863-6875.	4.8	21
60	The RNA Polymerase II C-Terminal Domain Phosphatase-Like Protein FIERY2/CPL1 Interacts with eIF4AIII and Is Essential for Nonsense-Mediated mRNA Decay in Arabidopsis. Plant Cell, 2016, 28, 770-785.	6.6	21
61	HOS1, a Genetic Locus Involved in Cold-Responsive Gene Expression in Arabidopsis. Plant Cell, 1998, 10, 1151.	6.6	20
62	High Throughput Screening of Signal Transduction Mutants With Luciferase Imaging. Plant Molecular Biology Reporter, 1999, 17, 159-170.	1.8	20
63	Plants, endosymbionts and parasites. Communicative and Integrative Biology, 2008, 1, 62-65.	1.4	20
64	Role of HY5 in abscisic acid response in seeds and seedlings. Plant Signaling and Behavior, 2008, 3, 986-988.	2.4	20
65	Genetic interaction of two abscisic acid signaling regulators, HY5 and FIERY1, in mediating lateral root formation. Plant Signaling and Behavior, 2011, 6, 123-125.	2.4	19
66	Arabidopsis Yak1 protein (AtYak1) is a dual specificity protein kinase. FEBS Letters, 2015, 589, 3321-3327.	2.8	18
67	Arabidopsis flower specific defense gene expression patterns affect resistance to pathogens. Frontiers in Plant Science, 2015, 6, 79.	3.6	17
68	Abscisic Acid In Plant Response And Adaptation To Drought And Salt Stress. , 2007, , 193-221.		13
69	Subcellular Localization and Functions of Plant lncRNAs in Drought and Salt Stress Tolerance. Methods in Molecular Biology, 2019, 1933, 173-186.	0.9	13
70	Enhanced plant growth by uniform placement of superphosphate with rock phosphate in acidic soils. Communications in Soil Science and Plant Analysis, 1996, 27, 2837-2850.	1.4	11
71	The Arabidopsis LOS5/ABA3 Locus Encodes a Molybdenum Cofactor Sulfurase and Modulates Cold Stress- and Osmotic Stress-Responsive Gene Expression. Plant Cell, 2001, 13, 2063.	6.6	11
72	Stress Signal Transduction: components, pathways and network integration. , 2006, , 3-29.		11

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73	The caseinolytic protease complex component CLPC1 in Arabidopsis maintains proteome and RNA homeostasis in chloroplasts. BMC Plant Biology, 2018, 18, 192.	3.6	9
74	An evaluation of the agronomic potential of partially acidulated rock phosphates in calcareous soil. Fertilizer Research, 1994, 38, 205-212.	0.5	8
75	Localized auxin biosynthesis and postembryonic root development in Arabidopsis. Plant Signaling and Behavior, 2009, 4, 752-754.	2.4	8
76	Two domain-disrupted hda6 alleles have opposite epigenetic effects on transgenes and some endogenous targets. Scientific Reports, 2015, 5, 17832.	3.3	8
77	Influence of phosphate on cadmium adsorption by soils. Fertilizer Research, 1995, 40, 31-40.	0.5	7
78	Magnesium influence on plant uptake of phosphorus in a calcareous soil. Journal of Plant Nutrition, 1995, 18, 1251-1261.	1.9	4
79	Title is missing!. Nutrient Cycling in Agroecosystems, 2002, 63, 91-98.	2.2	4
80	Genome-Wide Transcriptional Reprogramming Under Drought Stress. , 2012, , 273-289.		3
81	AtLSG1-2 Regulates Leaf Growth by Affecting Cell Proliferation and the Onset of Endoreduplication and Synergistically Interacts with AtNMD3 during Cell Proliferation Process. Frontiers in Plant Science, 2017, 8, 337.	3.6	2