Shou-Yi Chen

List of Publications by Year in Descending Order

97 papers	7,843 citations	49 h-index	88 g-index
100 ext. papers	9,747 ext. citations	7.5 avg, IF	5.47 L-index

#	Paper	IF	Citations
97	A transcriptional regulatory module controls lipid accumulation in soybean. *New Phytologist*, **2021**, 231, 661-678	9.8	7
96	Ethylene signaling in rice and Arabidopsis: New regulators and mechanisms. *Journal of Integrative Plant Biology*, **2021**, 63, 102-125	8.3	21
95	Nuclear factor Y subunit GmNFYA competes with GmHDA13 for interaction with GmFVE to positively regulate salt tolerance in soybean. *Plant Biotechnology Journal*, **2021**, 19, 2362-2379	11.6	5
94	The GDSL Lipase MHZ11 Modulates Ethylene Signaling in Rice Roots. *Plant Cell*, **2020**, 32, 1626-1643	11.6	9
93	Histidine kinase MHZ1/OsHK1 interacts with ethylene receptors to regulate root growth in rice. *Nature Communications*, **2020**, 11, 518	17.4	16
92	Ethylene Biosynthesis, Signaling, and Crosstalk with Other Hormones in Rice. *Small Methods*, **2020**, 4, 1900278	12.8	5
91	A class B heat shock factor selected for during soybean domestication contributes to salt tolerance by promoting flavonoid biosynthesis. *New Phytologist*, **2020**, 225, 268-283	9.8	32
90	Leveraging Atriplex hortensis choline monooxygenase to improve chilling tolerance in cotton. *Environmental and Experimental Botany*, **2019**, 162, 364-373	5.9	3
89	GmWRKY54 improves drought tolerance through activating genes in abscisic acid and Ca signaling pathways in transgenic soybean. *Plant Journal*, **2019**, 100, 384-398	6.9	36
88	Membrane protein MHZ3 stabilizes OsEIN2 in rice by interacting with its Nramp-like domain. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 2520-2525	11.5	19
87	E3 ubiquitin ligase SOR1 regulates ethylene response in rice root by modulating stability of Aux/IAA protein. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 4513-4518	11.5	39
86	An Alfin-like gene from Atriplex hortensis enhances salt and drought tolerance and abscisic acid response in transgenic Arabidopsis. *Scientific Reports*, **2018**, 8, 2707	4.9	15
85	Selection for a Zinc-Finger Protein Contributes to Seed Oil Increase during Soybean Domestication. *Plant Physiology*, **2017**, 173, 2208-2224	6.6	38
84	Ethylene-Inhibited Jasmonic Acid Biosynthesis Promotes Mesocotyl/Coleoptile Elongation of Etiolated Rice Seedlings. *Plant Cell*, **2017**, 29, 1053-1072	11.6	38
83	Soybean NIMA-Related Kinase1 Promotes Plant Growth and Improves Salt and Cold Tolerance. *Plant and Cell Physiology*, **2017**, 58, 1268-1278	4.9	9
82	A PP2C-1 Allele Underlying a Quantitative Trait Locus Enhances Soybean 100-Seed Weight. *Molecular Plant*, **2017**, 10, 670-684	14.4	66
81	A Histone Code Reader and a Transcriptional Activator Interact to Regulate Genes for Salt Tolerance. *Plant Physiology*, **2017**, 175, 1304-1320	6.6	29

80	Diverse Roles of Ethylene in Regulating Agronomic Traits in Rice. *Frontiers in Plant Science*, **2017**, 8, 1676	6.2	28
79	RNA Extraction and Preparation in Rice (Oryza sativa). *Current Protocols in Plant Biology*, **2016**, 1, 411-418	2.8	3
78	Soybean GmDREBL Increases Lipid Content in Seeds of Transgenic Arabidopsis. *Scientific Reports*, **2016**, 6, 34307	4.9	21
77	The transcriptomic signature of developing soybean seeds reveals the genetic basis of seed trait adaptation during domestication. *Plant Journal*, **2016**, 86, 530-44	6.9	50
76	Simple Methods for Screening and Statistical Analysis of Leaf Epidermal Cells in Dicotyledonous Plants. *Bio-protocol*, **2016**, 6,	0.9	3
75	Soybean miR172a Improves Salt Tolerance and Can Function as a Long-Distance Signal. *Molecular Plant*, **2016**, 9, 1337-1340	14.4	43
74	Tobacco ankyrin protein NEIP2 interacts with ethylene receptor NTHK1 and regulates plant growth and stress responses. *Plant and Cell Physiology*, **2015**, 56, 803-18	4.9	17
73	Tobacco Translationally Controlled Tumor Protein Interacts with Ethylene Receptor Tobacco Histidine Kinase1 and Enhances Plant Growth through Promotion of Cell Proliferation. *Plant Physiology*, **2015**, 169, 96-114	6.6	30
72	Melatonin delays leaf senescence and enhances salt stress tolerance in rice. *Journal of Pineal Research*, **2015**, 59, 91-101	10.4	184
71	Ethylene signaling in rice and Arabidopsis: conserved and diverged aspects. *Molecular Plant*, **2015**, 8, 495-505	14.4	107
70	Ethylene responses in rice roots and coleoptiles are differentially regulated by a carotenoid isomerase-mediated abscisic acid pathway. *Plant Cell*, **2015**, 27, 1061-81	11.6	72
69	Three SAUR proteins SAUR76, SAUR77 and SAUR78 promote plant growth in Arabidopsis. *Scientific Reports*, **2015**, 5, 12477	4.9	60
68	GmWRKY27 interacts with GmMYB174 to reduce expression of GmNAC29 for stress tolerance in soybean plants. *Plant Journal*, **2015**, 83, 224-36	6.9	109
67	The Role of Ethylene in Plants Under Salinity Stress. *Frontiers in Plant Science*, **2015**, 6, 1059	6.2	145
66	MAOHUZI6/ETHYLENE INSENSITIVE3-LIKE1 and ETHYLENE INSENSITIVE3-LIKE2 Regulate Ethylene Response of Roots and Coleoptiles and Negatively Affect Salt Tolerance in Rice. *Plant Physiology*, **2015**, 169, 148-65	6.6	104
65	Melatonin enhances plant growth and abiotic stress tolerance in soybean plants. *Journal of Experimental Botany*, **2015**, 66, 695-707	7	324
64	The Alfin-like homeodomain finger protein AL5 suppresses multiple negative factors to confer abiotic stress tolerance in Arabidopsis. *Plant Journal*, **2015**, 81, 871-83	6.9	41
63	De novo assembly of soybean wild relatives for pan-genome analysis of diversity and agronomic traits. *Nature Biotechnology*, **2014**, 32, 1045-52	44.5	375

62	Soybean GmMYB73 promotes lipid accumulation in transgenic plants. *BMC Plant Biology*, **2014**, 14, 73	5.3	57
61	Ethylene-induced inhibition of root growth requires abscisic acid function in rice (Oryza sativa L.) seedlings. *PLoS Genetics*, **2014**, 10, e1004701	6	68
60	Trihelix transcription factor GT-4 mediates salt tolerance via interaction with TEM2 in Arabidopsis. *BMC Plant Biology*, **2014**, 14, 339	5.3	29
59	Roles of Ethylene in Plant Growth and Responses to Stresses **2014**, 81-118		6
58	Identification of rice ethylene-response mutants and characterization of MHZ7/OsEIN2 in distinct ethylene response and yield trait regulation. *Molecular Plant*, **2013**, 6, 1830-48	14.4	76
57	Genome-wide analysis of DNA methylation in soybean. *Molecular Plant*, **2013**, 6, 1961-74	14.4	106
56	The transcription factor AtDOF4.2 regulates shoot branching and seed coat formation in Arabidopsis. *Biochemical Journal*, **2013**, 449, 373-88	3.8	37
55	Soybean GmbZIP123 gene enhances lipid content in the seeds of transgenic Arabidopsis plants. *Journal of Experimental Botany*, **2013**, 64, 4329-41	7	58
54	An S-domain receptor-like kinase, OsSIK2, confers abiotic stress tolerance and delays dark-induced leaf senescence in rice. *Plant Physiology*, **2013**, 163, 1752-65	6.6	78
53	Wheat WRKY genes TaWRKY2 and TaWRKY19 regulate abiotic stress tolerance in transgenic Arabidopsis plants. *Plant, Cell and Environment*, **2012**, 35, 1156-70	8.4	279
52	The continuous accumulation of Na in detached leaf sections is associated with over-expression of NTHK1 and salt tolerance in poplar plants. *Functional Plant Biology*, **2011**, 38, 236-245	2.7	4
51	EIN2 regulates salt stress response and interacts with a MA3 domain-containing protein ECIP1 in Arabidopsis. *Plant, Cell and Environment*, **2011**, 34, 1678-92	8.4	74
50	Soybean NAC transcription factors promote abiotic stress tolerance and lateral root formation in transgenic plants. *Plant Journal*, **2011**, 68, 302-13	6.9	317
49	NIMA-related kinase NEK6 affects plant growth and stress response in Arabidopsis. *Plant Journal*, **2011**, 68, 830-43	6.9	31
48	Enhancement of salt tolerance in alfalfa transformed with the gene encoding for betaine aldehyde dehydrogenase. *Euphytica*, **2011**, 178, 363-372	2.1	30
47	Identification of miRNAs and their target genes in developing soybean seeds by deep sequencing. *BMC Plant Biology*, **2011**, 11, 5	5.3	245
46	Receptor-like kinase OsSIK1 improves drought and salt stress tolerance in rice (Oryza sativa) plants. *Plant Journal*, **2010**, 62, 316-29	6.9	257
45	Development of Soybean EST-SSR Markers and Their Use to Assess Genetic Diversity in the Subgenus Soja. *Agricultural Sciences in China*, **2010**, 9, 1423-1429		8

44	Plant NAC-type transcription factor proteins contain a NARD domain for repression of transcriptional activation. *Planta*, **2010**, 232, 1033-43	4.7	104
43	DREB1C from Medicago truncatula enhances freezing tolerance in transgenic M. truncatula and China Rose (Rosa chinensis Jacq.). *Plant Growth Regulation*, **2010**, 60, 199-211	3.2	49
42	Soybean Trihelix transcription factors GmGT-2A and GmGT-2B improve plant tolerance to abiotic stresses in transgenic Arabidopsis. *PLoS ONE*, **2009**, 4, e6898	3.7	84
41	Soybean GmPHD-type transcription regulators improve stress tolerance in transgenic Arabidopsis plants. *PLoS ONE*, **2009**, 4, e7209	3.7	68
40	Effects of tobacco ethylene receptor mutations on receptor kinase activity, plant growth and stress responses. *Plant and Cell Physiology*, **2009**, 50, 1636-50	4.9	52
39	The ethylene receptor ETR2 delays floral transition and affects starch accumulation in rice. *Plant Cell*, **2009**, 21, 1473-94	11.6	160
38	Activation of a DRE-binding transcription factor from Medicago truncatula by deleting a Ser/Thr-rich region. *In Vitro Cellular and Developmental Biology - Plant*, **2009**, 45, 1-11	2.3	15
37	An R2R3-type transcription factor gene AtMYB59 regulates root growth and cell cycle progression in Arabidopsis. *Cell Research*, **2009**, 19, 1291-304	24.7	93
36	Rapid construction of a plant RNA interference expression vector for hairpin RNA-mediated targeting using a PCR-based method. *DNA and Cell Biology*, **2009**, 28, 605-13	3.6	4
35	Analysis of expressed receptor-like kinases (RLKs) in soybean. *Journal of Genetics and Genomics*, **2009**, 36, 611-9	4	18
34	Soybean GmMYB76, GmMYB92, and GmMYB177 genes confer stress tolerance in transgenic Arabidopsis plants. *Cell Research*, **2008**, 18, 1047-60	24.7	156
33	Soybean WRKY-type transcription factor genes, GmWRKY13, GmWRKY21, and GmWRKY54, confer differential tolerance to abiotic stresses in transgenic Arabidopsis plants. *Plant Biotechnology Journal*, **2008**, 6, 486-503	11.6	426
32	Ethylene signaling regulates salt stress response: An overview. *Plant Signaling and Behavior*, **2008**, 3, 761-3	2.5	78
31	Establishment of a transgenic system in fast-growing black locust (Robinia pseudoacacia L.). *Forestry Studies in China*, **2008**, 10, 243-252		3
30	Soybean GmbZIP44, GmbZIP62 and GmbZIP78 genes function as negative regulator of ABA signaling and confer salt and freezing tolerance in transgenic Arabidopsis. *Planta*, **2008**, 228, 225-40	4.7	240
29	Role of soybean GmbZIP132 under abscisic acid and salt stresses. *Journal of Integrative Plant Biology*, **2008**, 50, 221-30	8.3	58
28	The soybean Dof-type transcription factor genes, GmDof4 and GmDof11, enhance lipid content in the seeds of transgenic Arabidopsis plants. *Plant Journal*, **2007**, 52, 716-29	6.9	172
27	Modulation of ethylene responses affects plant salt-stress responses. *Plant Physiology*, **2007**, 143, 707-19	8.6	379

26	Cloning and comparative analysis of the gene encoding diacylglycerol acyltransferase from wild type and cultivated soybean. *Theoretical and Applied Genetics*, **2006**, 112, 1086-97	6	40
25	Roles of ethylene receptor NTHK1 domains in plant growth, stress response and protein phosphorylation. *FEBS Letters*, **2006**, 580, 1239-50	3.8	41
24	The Putative Ser/Thr Protein Kinase Gene GmAAPK from Soybean is Regulated by Abiotic Stress. *Journal of Integrative Plant Biology*, **2006**, 48, 327-333	8.3	11
23	Expression of tobacco ethylene receptor NTHK1 alters plant responses to salt stress. *Plant, Cell and Environment*, **2006**, 29, 1210-9	8.4	81
22	OsGLU1, a putative membrane-bound endo-1,4-beta-D-glucanase from rice, affects plant internode elongation. *Plant Molecular Biology*, **2006**, 60, 137-51	4.6	66
21	AtNAC2, a transcription factor downstream of ethylene and auxin signaling pathways, is involved in salt stress response and lateral root development. *Plant Journal*, **2005**, 44, 903-16	6.9	540
20	OsDREB4 Genes in Rice Encode AP2-Containing Proteins that Bind Specifically to the Dehydration-Responsive Element. *Journal of Integrative Plant Biology*, **2005**, 47, 467-476	8.3	27
19	Two New Group 3 LEA Genes of Wheat and Their Functional Analysis in Yeast. *Journal of Integrative Plant Biology*, **2005**, 47, 1372-1381	8.3	20
18	Soybean DRE-binding transcription factors that are responsive to abiotic stresses. *Theoretical and Applied Genetics*, **2005**, 110, 1355-62	6	137
17	Cloning and characterization of an HDZip I gene GmHZ1 from soybean. *Planta*, **2005**, 221, 831-43	4.7	23
16	QTL mapping of phosphorus deficiency tolerance in soybean (Glycine max L. Merr.). *Euphytica*, **2005** , 142, 137-142	2.1	62
15	A putative plasma membrane cation/proton antiporter from soybean confers salt tolerance in Arabidopsis. *Plant Molecular Biology*, **2005**, 59, 809-20	4.6	79
14	Characterization of a novel cell cycle-related gene from Arabidopsis. *Journal of Experimental Botany* , **2005**, 56, 807-16	7	15
13	Isolation and characterization of a Pti1 homologue from soybean. *Journal of Experimental Botany*, **2004**, 55, 535-7	7	19
12	Evidence for serine/threonine and histidine kinase activity in the tobacco ethylene receptor protein NTHK2. *Plant Physiology*, **2004**, 136, 2971-81	6.6	52
11	Characterization of soybean genomic features by analysis of its expressed sequence tags. *Theoretical and Applied Genetics*, **2004**, 108, 903-13	6	76
10	Genomic characterization of the S-adenosylmethionine decarboxylase genes from soybean. *Theoretical and Applied Genetics*, **2004**, 108, 842-50	6	23
9	Isolation and characterization of a full-length resistance gene homolog from soybean. *Theoretical and Applied Genetics*, **2003**, 106, 786-93	6	31

8	Characterization of a DRE-binding transcription factor from a halophyte Atriplex hortensis. *Theoretical and Applied Genetics*, **2003**, 107, 155-61	6	83
7	A new AOX homologous gene OsIM1 from rice (Oryza sativa L.) with an alternative splicing mechanism under salt stress. *Theoretical and Applied Genetics*, **2003**, 107, 326-31	6	40
6	An AP2/EREBP-type transcription-factor gene from rice is cold-inducible and encodes a nuclear-localized protein. *Theoretical and Applied Genetics*, **2003**, 107, 972-9	6	60
5	A rice transcription factor OsbHLH1 is involved in cold stress response. *Theoretical and Applied Genetics*, **2003**, 107, 1402-9	6	88
4	Serine/threonine kinase activity in the putative histidine kinase-like ethylene receptor NTHK1 from tobacco. *Plant Journal*, **2003**, 33, 385-93	6.9	86
3	AhCMO, regulated by stresses in Atriplex hortensis, can improve drought tolerance in transgenic tobacco. *Theoretical and Applied Genetics*, **2002**, 105, 815-821	6	55
2	Spatial expression and characterization of a putative ethylene receptor protein NTHK1 in tobacco. *Plant and Cell Physiology*, **2002**, 43, 810-5	4.9	28
1	Isolation and Characterization of a Salt- and Drought-inducible Gene for S-adenosylmethionine Decarboxylase from Wheat (Triticum aestivum L.). *Journal of Plant Physiology*, **2000**, 156, 386-393	3.6	36