Shenkui Liu

List of Publications by Year
in descending order

104	3,075	31	49
papers	citations	h-index	g-index
		147801	197818

105	105	105	3607
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	RNA-Binding Protein MAC5A Is Required for Gibberellin-Regulated Stamen Development. International Journal of Molecular Sciences, 2022, 23, 2009.	4.1	1
2	An S-ribonuclease binding protein EBS1 and brassinolide signaling are specifically required for Arabidopsis tolerance to bicarbonate. Journal of Experimental Botany, 2021, 72, 1449-1459.	4.8	17
3	Exogenous NaHCO3 enhances growth and lipid accumulation of the highly NaHCO3-tolerant Nannochloris sp. JB17. Journal of Applied Phycology, 2021, 33, 241-253.	2.8	5
4	Comprehensive analysis of NAC transcription factor family uncovers drought and salinity stress response in pearl millet (Pennisetum glaucum). BMC Genomics, 2021, 22, 70.	2.8	31
5	The Bâ€³-family subunits of protein phosphatase 2A are necessary for in-vitro dephosphorylation of the Arabidopsis mechanosensory transcription factor VIP1. Biochemical and Biophysical Research Communications, 2021, 534, 353-358.	2.1	2
6	Transcriptome dynamics and hub genes of green alga Nannochloris sp. JB17 under NaHCO3 stress. Algal Research, 2021, 54, 102185.	4.6	8
7	NDR/LATSâ€family protein kinase genes are indispensable for embryogenesis in Arabidopsis. FEBS Open Bio, 2021, 11, 2600-2606.	2.3	2
8	Genome-wide investigation of SQUAMOSA promoter binding protein-like transcription factor family in pearl millet (Pennisetum glaucum (L) R. Br.). Plant Gene, 2021, 27, 100313.	2.3	6
9	The underlying molecular conservation and diversification of dioecious flower and leaf buds provide insights into the development, dormancy breaking, flowering, and sex association of willows. Plant Physiology and Biochemistry, 2021, 167, 651-664.	5.8	4
10	Description of AtCAX4 in Response to Abiotic Stress in Arabidopsis. International Journal of Molecular Sciences, 2021, 22, 856.	4.1	3
11	Biotinylated subunit of 3-methylcrotonyl-CoA carboxylase encoding gene (AtMCCA) participating in Arabidopsis resistance to carbonate Stress by transcriptome analysis. Plant Science, 2021, 315, 111130.	3.6	1
12	Mutations in <i><scp>MIR</scp>396e</i> and <i><scp>MIR</scp>396f</i> increase grain size and modulate shoot architecture in rice. Plant Biotechnology Journal, 2020, 18, 491-501.	8.3	71
13	VIP1, a bZIP protein, interacts with the catalytic subunit of protein phosphatase 2A in Arabidopsis thaliana. Plant Signaling and Behavior, 2020, 15, 1706026.	2.4	3
14	Morphological and physiological responses of two willow species from different habitats to salt stress. Scientific Reports, 2020, 10, 18228.	3.3	17
15	Biotin plays an important role in Arabidopsis thaliana seedlings under carbonate stress. Plant Science, 2020, 300, 110639.	3.6	11
16	Sexual Differences in Physiological and Transcriptional Responses to Salinity Stress of Salix linearistipularis. Frontiers in Plant Science, 2020, 11, 517962.	3.6	13
17	A GDSL-type esterase/lipase gene, GELP77, is necessary for pollen dissociation and fertility in Arabidopsis. Biochemical and Biophysical Research Communications, 2020, 526, 1036-1041.	2.1	20
18	Small RNA sequencing reveals the role of pearl millet miRNAs and their targets in salinity stress responses. South African Journal of Botany, 2020, 132, 395-402.	2.5	25

#	Article	IF	Citations
19	Arabidopsis V-ATPase d2 Subunit Plays a Role in Plant Responses to Oxidative Stress. Genes, 2020, 11, 701.	2.4	6
20	Transcriptome profiling of Puccinellia tenuiflora during seed germination under a long-term saline-alkali stress. BMC Genomics, 2019, 20, 589.	2.8	34
21	Protein phosphatase 2A regulates the nuclear accumulation of the Arabidopsis bZIP protein VIP1 under hypo-osmotic stress. Journal of Experimental Botany, 2019, 70, 6101-6112.	4.8	21
22	The role of ammonium transporter (AMT) against salt stress in plants. Plant Signaling and Behavior, 2019, 14, 1625696.	2.4	25
23	Arabidopsis Ca2+-dependent nuclease AtCaN2 plays a negative role in plant responses to salt stress. Plant Science, 2019, 281, 213-222.	3.6	12
24	The interaction between AtMT2b and AtVDAC3 affects the mitochondrial membrane potential and reactive oxygen species generation under NaCl stress in Arabidopsis. Planta, 2019, 249, 417-429.	3.2	24
25	Pearl millet stress-responsive NAC transcription factor PgNAC21 enhances salinity stress tolerance in Arabidopsis. Plant Physiology and Biochemistry, 2019, 135, 546-553.	5.8	40
26	Pol III-Dependent Cabbage<i>BoNR8</i>Long ncRNA Affects Seed Germination and Growth in Arabidopsis. Plant and Cell Physiology, 2019, 60, 421-435.	3.1	19
27	Genome-Wide Pathway Analysis of Microarray Data Identifies Risk Pathways Related to Salt Stress in Arabidopsis Thaliana. Interdisciplinary Sciences, Computational Life Sciences, 2018, 10, 566-571.	3.6	4
28	The role of endomembrane-localized VHA-c in plant growth. Plant Signaling and Behavior, 2018, 13, e1382796.	2.4	2
29	Construction of genetic transformation system of Salix mongolica: in vitro leaf-based callus induction, adventitious buds differentiation, and plant regeneration. Plant Cell, Tissue and Organ Culture, 2018, 132, 213-217.	2.3	11
30	Overexpression of Acyl-CoA-Binding Protein 1 (ChACBP1) From Saline-Alkali-Tolerant Chlorella sp. Enhances Stress Tolerance in Arabidopsis. Frontiers in Plant Science, 2018, 9, 1772.	3.6	14
31	Screening and Evaluation of Salineâ€“Alkaline Tolerant Germplasm of Rice (Oryza sativa L.) in Soda Salineâ€“Alkali Soil. Agronomy, 2018, 8, 205.	3.0	47
32	B-family subunits of protein phosphatase 2A are necessary for pollen development but not for female gametophyte development in Arabidopsis. Biochemical and Biophysical Research Communications, 2018, 505, 176-180.	2.1	4
33	Possible inhibition of Arabidopsis VIP1-mediated mechanosensory signaling by streptomycin. Plant Signaling and Behavior, 2018, 13, e1521236.	2.4	4
34	Computational identification and evolutionary analysis of toxins in Mosquitocidal Bacillus thuringiensis strain S2160-1. 3 Biotech, 2018, 8, 293.	2.2	2
35	Transcriptomic analysis reveals the differentially expressed genes and pathways involved in drought tolerance in pearl millet [Pennisetum glaucum (L.) R. Br]. PLoS ONE, 2018, 13, e0195908.	2.5	65
36	Calcium signalling regulates the functions of the bZIP protein VIP1 in touch responses in<i>Arabidopsis thaliana</i>. Annals of Botany, 2018, 122, 1219-1229.	2.9	17

#	ARTICLE	IF	CITATIONS
37	Comparative de novo transcriptomic profiling of the salinity stress responsiveness in contrasting pearl millet lines. Environmental and Experimental Botany, 2018, 155, 619-627.	4.2	45
38	Functional characterization of a type 2 metallothionein gene, SsMT2, from alkaline-tolerant Suaeda salsa. Scientific Reports, 2017, 7, 17914.	3.3	43
39	Tolerance analysis of chloroplast OsCu/Zn-SOD overexpressing rice under NaCl and NaHCO3 stress. PLoS ONE, 2017, 12, e0186052.	2.5	62
40	A Chloroplast-Localized Rubredoxin Family Protein Gene from Puccinellia tenuiflora (PutRUB) Increases NaCl and NaHCO3 Tolerance by Decreasing H2O2 Accumulation. International Journal of Molecular Sciences, 2016, 17, 804.	4.1	18
41	The bZIP protein VIP1 is involved in touch responses in Arabidopsis roots. Plant Physiology, 2016, 171, pp.00256.2016.	4.8	39
42	VIP1 is very important/interesting protein 1 regulating touch responses of Arabidopsis. Plant Signaling and Behavior, 2016, 11, e1187358.	2.4	15
43	Overexpression of AtOxR gene improves abiotic stresses tolerance and vitamin C content in Arabidopsis thaliana. BMC Biotechnology, 2016, 16, 69.	3.3	10
44	A rice LSD1-like-type ZFP gene OsLOL5 enhances saline-alkaline tolerance in transgenic Arabidopsis thaliana, yeast and rice. BMC Genomics, 2016, 17, 142.	2.8	42
45	NaCl stress-induced transcriptomics analysis of Salix linearistipularis (syn. Salix mongolica). Journal of Biological Research, 2016, 23, 1.	2.1	14
46	N-terminus of PutCAX2 from Puccinellia tenuiflora affects Ca2+ and Ba2+ tolerance in yeast. Acta Physiologiae Plantarum, 2016, 38, 1.	2.1	2
47	Conserved Vâ€‹<scp>ATP</scp>ase c subunit plays a role in plant growth by influencing Vâ€‹<scp>ATP</scp>aseâ€dependent endosomal trafficking. Plant Biotechnology Journal, 2016, 14, 271-283.	8.3	35
48	Saline-induced changes of epicuticular waxy layer on the Puccinellia tenuiflora and Oryza sativa leave surfaces. Biological Research, 2015, 48, 33.	3.4	9
49	Discovery of two novel highly tolerant NaHCO3 Trebouxiophytes: Identification and characterization of microalgae from extreme salineâ€“alkali soil. Algal Research, 2015, 9, 245-253.	4.6	36
50	Design and implementation of semantics-based image retrieval system. , 2015, , .		0
51	Transcriptional Responses of a Bicarbonate-Tolerant Monocot, Puccinellia tenuiflora, and a Related Bicarbonate-Sensitive Species, Poa annua, to NaHCO3 Stress. International Journal of Molecular Sciences, 2015, 16, 496-509.	4.1	17
52	Adverse effect of urease on salt stress during seed germination in <i>Arabidopsis thaliana</i>. FEBS Letters, 2015, 589, 1308-1313.	2.8	17
53	<i>Arabidopsis</i> mitochondrial voltageâ€dependent anion channel 3 (AtVDAC3) protein interacts with thioredoxin m2. FEBS Letters, 2015, 589, 1207-1213.	2.8	30
54	A peroxisomal APX from Puccinellia tenuiflora improves the abiotic stress tolerance of transgenic Arabidopsis thaliana through decreasing of H2O2 accumulation. Journal of Plant Physiology, 2015, 175, 183-191.	3.5	60

#	Article	IF	Citations
55	Discovery and Characterization of Two Novel Salt-Tolerance Genes in Puccinellia tenuiflora. International Journal of Molecular Sciences, 2014, 15, 16469-16483.	4.1	6
56	Expression of the rgMT gene, encoding for a rice metallothionein-like protein in Saccharomyces cerevisiae and Arabidopsis thaliana. Journal of Genetics, 2014, 93, 709-718.	0.7	15
57	An efficient method for stable protein targeting in grasses (Poaceae): a case study in Puccinellia tenuiflora. BMC Biotechnology, 2014, 14, 52.	3.3	13
58	Abiotic stress response in yeast and metal-binding ability of a type 2 metallothionein-like protein (PutMT2) from Puccinellia tenuiflora. Molecular Biology Reports, 2014, 41, 5839-5849.	2.3	23
59	Arabidopsis G-protein Î² subunit AGB1 interacts with NPH3 and is involved in phototropism. Biochemical and Biophysical Research Communications, 2014, 445, 54-57.	2.1	15
60	Analysis of Functions of VIP1 and Its Close Homologs in Osmosensory Responses of Arabidopsis thaliana. PLoS ONE, 2014, 9, e103930.	2.5	51
61	A bZIP protein, VIP1, interacts with Arabidopsis heterotrimeric GÂprotein Î² subunit, AGB1. Plant Physiology and Biochemistry, 2013, 71, 240-246.	5.8	33
62	Metal-Binding Ability of VIP1: A bZIP Protein in Arabidopsis thaliana. Protein Journal, 2013, 32, 526-532.	1.6	11
63	<i>Arabidopsis</i> cysteine proteinase inhibitor AtCYSb interacts with a Ca²⁺â€dependent nuclease, AtCaN2. FEBS Letters, 2013, 587, 3417-3421.	2.8	13
64	High-Yield Production in Escherichia coli of Fungal Immunomodulatory Protein Isolated from Flammulina velutipes and Its Bioactivity Assay in Vivo. International Journal of Molecular Sciences, 2013, 14, 2230-2241.	4.1	21
65	Efficient Agrobacterium-Mediated Transformation of Hybrid Poplar Populus davidiana Dode Ã— Populus bollena Lauche. International Journal of Molecular Sciences, 2013, 14, 2515-2528.	4.1	21
66	Arabidopsis heterotrimeric G protein Î² subunit, AGB1, regulates brassinosteroid signalling independently of BZR1. Journal of Experimental Botany, 2013, 64, 3213-3223.	4.8	25
67	The Arabidopsis adaptor protein AP-3Âµ interacts with the G-protein Î² subunit AGB1 and is involved in abscisic acid regulation of germination and post-germination development. Journal of Experimental Botany, 2013, 64, 5611-5621.	4.8	19
68	Identification and Characterization of a PutAMT1;1 Gene from Puccinellia tenuiflora. PLoS ONE, 2013, 8, e83111.	2.5	17
69	A bZIP Protein, VIP1, Is a Regulator of Osmosensory Signaling in Arabidopsis Â. Plant Physiology, 2012, 159, 144-155.	4.8	95
70	Anditalea andensis gen. nov., sp. nov., an alkaliphilic, halotolerant bacterium isolated from extreme alkaliâ€“saline soil. Antonie Van Leeuwenhoek, 2012, 102, 703-710.	1.7	18
71	Molecular cloning, expression, and characterization of a Ca2+-dependent nuclease of Arabidopsis thaliana. Protein Expression and Purification, 2012, 83, 70-74.	1.3	9
72	Arabidopsis heterotrimeric G protein Î² subunit interacts with a plasma membrane 2C-type protein phosphatase, PP2C52. Biochimica Et Biophysica Acta - Molecular Cell Research, 2012, 1823, 2254-2260.	4.1	26

#	Article	IF	Citations
73	Drought-induced activation and rehydration-induced inactivation of MPK6 in Arabidopsis. Biochemical and Biophysical Research Communications, 2012, 426, 626-629.	2.1	29
74	Genetic Transformation and Analysis of Rice OsAPx2 Gene in Medicago sativa. PLoS ONE, 2012, 7, e41233.	2.5	27
75	Isolation and characterization of novel bacterial taxa from extreme alkali-saline soil. World Journal of Microbiology and Biotechnology, 2012, 28, 2147-2157.	3.6	42
76	Molecular cloning and characterization of plasma membrane- and vacuolar-type Na+/H+ antiporters of an alkaline-salt-tolerant monocot, Puccinellia tenuiflora. Journal of Plant Research, 2012, 125, 587-594.	2.4	30
77	A putative myristoylated 2Câ€type protein phosphatase, PP2C74, interacts with SnRK1 in Arabidopsis. FEBS Letters, 2012, 586, 693-698.	2.8	34
78	A U-Box E3 Ubiquitin Ligase, PUB20, Interacts with the Arabidopsis G-Protein Î² Subunit, AGB1. PLoS ONE, 2012, 7, e49207.	2.5	16
79	Characterization of an AtCCX5 gene from Arabidopsis thaliana that involves in high-affinity K+ uptake and Na+ transport in yeast. Biochemical and Biophysical Research Communications, 2011, 414, 96-100.	2.1	38
80	A rapid chemical method for lysing Arabidopsis cells for protein analysis. Plant Methods, 2011, 7, 22.	4.3	47
81	Ectopic Expression of the K+ Channel Î² Subunits from Puccinellia tenuiflora (KPutB1) and Rice (KOB1) Alters K+ Homeostasis of Yeast and Arabidopsis. Molecular Biotechnology, 2011, 48, 76-86.	2.4	24
82	Expression of the AKT1-type K+ channel gene from Puccinellia tenuiflora, PutAKT1, enhances salt tolerance in Arabidopsis. Plant Cell Reports, 2010, 29, 865-874.	5.6	87
83	Analysis of expressed sequence tags from a NaHCO3-treated alkali-tolerant plant, Chloris virgata. Plant Physiology and Biochemistry, 2010, 48, 247-255.	5.8	18
84	Cloning of a high-affinity K+ transporter gene PutHKT2;1 from Puccinellia tenuiflora and its functional comparison with OsHKT2;1 from rice in yeast and Arabidopsis. Journal of Experimental Botany, 2009, 60, 3491-3502.	4.8	87
85	Ectomycorrhizal fungal community in alkaline-saline soil in northeastern China. Mycorrhiza, 2009, 19, 329-335.	2.8	69
86	Stage- and tissue-specific expression of rice OsIsu1 gene encoding a scaffold protein for mitochondrial ironâ€"sulfur-cluster biogenesis. Biotechnology Letters, 2009, 31, 1305-1310.	2.2	5
87	Enhanced Thermotolerance of E. coli by Expressed OsHsp90 from Rice (Oryza sativa L.). Current Microbiology, 2009, 58, 129-133.	2.2	28
88	Evaluation of Fe(III) reduction by mitochondria induced with a respiratory substrate NADH or succinate, using a Fe(II)-specific chelator bathophenanthroline disulfonate in Saccharomyces cerevisiae. Biologia (Poland), 2009, 64, 877-880.	1.5	5
89	Characterization of a PutCAX1 gene from Puccinellia tenuiflora that confers Ca2+ and Ba2+ tolerance in yeast. Biochemical and Biophysical Research Communications, 2009, 383, 392-396.	2.1	32
90	Isolation and characterization of plasma membrane Na+/H+ antiporter genes from salt-sensitive and salt-tolerant reed plants. Journal of Plant Physiology, 2009, 166, 301-309.	3.5	36

#	Article	IF	Citations
91	Two cysteine proteinase inhibitors from Arabidopsis thaliana, AtCYSa and AtCYSb, increasing the salt, drought, oxidation and cold tolerance. Plant Molecular Biology, 2008, 68, 131-143.	3.9	185
92	Overexpression of a mitochondrial ATP synthase small subunit gene (AtMtATP6) confers tolerance to several abiotic stresses in Saccharomyces cerevisiae and Arabidopsis thaliana. Biotechnology Letters, 2008, 30, 1289-1294.	2.2	66
93	Cloning and functional comparison of a high-affinity K+ transporter gene PhaHKT1 of salt-tolerant and salt-sensitive reed plants. Journal of Experimental Botany, 2007, 58, 4387-4395.	4.8	53
94	Purification and characterization of carbonic anhydrase of rice (Oryza sativa L.) expressed in Escherichia coli. Protein Expression and Purification, 2007, 52, 379-383.	1.3	7
95	Two rice cytosolic ascorbate peroxidases differentially improve salt tolerance in transgenic Arabidopsis. Plant Cell Reports, 2007, 26, 1909-1917.	5.6	172
96	Expression of an NADP-malic enzyme gene in rice (Oryza sativa. L) is induced by environmental stresses; over-expression of the gene in Arabidopsis confers salt and osmotic stress tolerance. Plant Molecular Biology, 2007, 64, 49-58.	3.9	107
97	Isolation and characterization of a metallothionein-1 protein in Chloris virgata Swartz that enhances stress tolerances to oxidative, salinity and carbonate stress in Saccharomyces cerevisiae. Biotechnology Letters, 2007, 29, 1301-1305.	2.2	31
98	Expression, purification, and characterization of two NADP-malic enzymes of rice (Oryza sativa L.) in Escherichia coli. Protein Expression and Purification, 2006, 45, 200-205.	1.3	9
99	rHsp90 gene expression inÂresponse toÂseveral environmental stresses inÂrice (OryzaÂsativa L.). Plant Physiology and Biochemistry, 2006, 44, 380-386.	5.8	71
100	A metallothionein-like protein of rice (rgMT) functions in E. coli and its gene expression is induced by abiotic stresses. Biotechnology Letters, 2006, 28, 1749-1753.	2.2	54
101	Expression of a carbonic anhydrase gene is induced by environmental stresses in Rice (Oryza sativa L.). Biotechnology Letters, 2006, 29, 89-94.	2.2	64
102	Identification of a mitochondrial ATP synthase small subunit gene (RMtATP6) expressed in response to salts and osmotic stresses in rice (Oryza sativa L.). Journal of Experimental Botany, 2006, 57, 193-200.	4.8	63
103	Purification and characterization of two ascorbate peroxidases of rice (Oryza sativa L.) expressed in Escherichia coli. Biotechnology Letters, 2005, 27, 63-67.	2.2	15
104	Expression and purification of a novel rice (Oryza sativa L.) mitochondrial ATP synthase small subunit in Escherichia coli. Protein Expression and Purification, 2004, 37, 306-310.	1.3	8