

Shenkui Liu

List of Publications by Year in descending order

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104
papers

3,075
citations

147801

31
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197818

49
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105
all docs

105
docs citations

105
times ranked

3607
citing authors

#	ARTICLE	IF	CITATIONS
1	Two cysteine proteinase inhibitors from <i>Arabidopsis thaliana</i> , AtCYSa and AtCYSb, increasing the salt, drought, oxidation and cold tolerance. <i>Plant Molecular Biology</i> , 2008, 68, 131-143.	3.9	185
2	Two rice cytosolic ascorbate peroxidases differentially improve salt tolerance in transgenic <i>Arabidopsis</i> . <i>Plant Cell Reports</i> , 2007, 26, 1909-1917.	5.6	172
3	Expression of an NADP-malic enzyme gene in rice (<i>Oryza sativa</i> . L) is induced by environmental stresses; over-expression of the gene in <i>Arabidopsis</i> confers salt and osmotic stress tolerance. <i>Plant Molecular Biology</i> , 2007, 64, 49-58.	3.9	107
4	A bZIP Protein, VIP1, Is a Regulator of Osmosensory Signaling in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2012, 159, 144-155.	4.8	95
5	Cloning of a high-affinity K ⁺ transporter gene PutHKT2;1 from <i>Puccinellia tenuiflora</i> and its functional comparison with OsHKT2;1 from rice in yeast and <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2009, 60, 3491-3502.	4.8	87
6	Expression of the AKT1-type K ⁺ channel gene from <i>Puccinellia tenuiflora</i> , PutAKT1, enhances salt tolerance in <i>Arabidopsis</i> . <i>Plant Cell Reports</i> , 2010, 29, 865-874.	5.6	87
7	rHsp90 gene expression in response to several environmental stresses in rice (<i>Oryza sativa</i> L.). <i>Plant Physiology and Biochemistry</i> , 2006, 44, 380-386.	5.8	71
8	Mutations in <i>MIR396e</i> and <i>MIR396f</i> increase grain size and modulate shoot architecture in rice. <i>Plant Biotechnology Journal</i> , 2020, 18, 491-501.	8.3	71
9	Ectomycorrhizal fungal community in alkaline-saline soil in northeastern China. <i>Mycorrhiza</i> , 2009, 19, 329-335.	2.8	69
10	Overexpression of a mitochondrial ATP synthase small subunit gene (AtMtATP6) confers tolerance to several abiotic stresses in <i>Saccharomyces cerevisiae</i> and <i>Arabidopsis thaliana</i> . <i>Biotechnology Letters</i> , 2008, 30, 1289-1294.	2.2	66
11	Transcriptomic analysis reveals the differentially expressed genes and pathways involved in drought tolerance in pearl millet [<i>Pennisetum glaucum</i> (L.) R. Br]. <i>PLoS ONE</i> , 2018, 13, e0195908.	2.5	65
12	Expression of a carbonic anhydrase gene is induced by environmental stresses in Rice (<i>Oryza sativa</i> L.). <i>Biotechnology Letters</i> , 2006, 29, 89-94.	2.2	64
13	Identification of a mitochondrial ATP synthase small subunit gene (RMtATP6) expressed in response to salts and osmotic stresses in rice (<i>Oryza sativa</i> L.). <i>Journal of Experimental Botany</i> , 2006, 57, 193-200.	4.8	63
14	Tolerance analysis of chloroplast OsCu/Zn-SOD overexpressing rice under NaCl and NaHCO ₃ stress. <i>PLoS ONE</i> , 2017, 12, e0186052.	2.5	62
15	A peroxisomal APX from <i>Puccinellia tenuiflora</i> improves the abiotic stress tolerance of transgenic <i>Arabidopsis thaliana</i> through decreasing of H ₂ O ₂ accumulation. <i>Journal of Plant Physiology</i> , 2015, 175, 183-191.	3.5	60
16	A metallothionein-like protein of rice (rgMT) functions in <i>E. coli</i> and its gene expression is induced by abiotic stresses. <i>Biotechnology Letters</i> , 2006, 28, 1749-1753.	2.2	54
17	Cloning and functional comparison of a high-affinity K ⁺ transporter gene PhaHKT1 of salt-tolerant and salt-sensitive reed plants. <i>Journal of Experimental Botany</i> , 2007, 58, 4387-4395.	4.8	53
18	Analysis of Functions of VIP1 and Its Close Homologs in Osmosensory Responses of <i>Arabidopsis thaliana</i> . <i>PLoS ONE</i> , 2014, 9, e103930.	2.5	51

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19	A rapid chemical method for lysing Arabidopsis cells for protein analysis. <i>Plant Methods</i> , 2011, 7, 22.	4.3	47
20	Screening and Evaluation of Saline-alkaline Tolerant Germplasm of Rice (<i>Oryza sativa</i> L.) in Soda Saline-alkali Soil. <i>Agronomy</i> , 2018, 8, 205.	3.0	47
21	Comparative de novo transcriptomic profiling of the salinity stress responsiveness in contrasting pearl millet lines. <i>Environmental and Experimental Botany</i> , 2018, 155, 619-627.	4.2	45
22	Functional characterization of a type 2 metallothionein gene, SsMT2, from alkaline-tolerant Suaeda salsa. <i>Scientific Reports</i> , 2017, 7, 17914.	3.3	43
23	Isolation and characterization of novel bacterial taxa from extreme alkali-saline soil. <i>World Journal of Microbiology and Biotechnology</i> , 2012, 28, 2147-2157.	3.6	42
24	A rice LSD1-like-type ZFP gene OsL5L5 enhances saline-alkaline tolerance in transgenic Arabidopsis thaliana, yeast and rice. <i>BMC Genomics</i> , 2016, 17, 142.	2.8	42
25	Pearl millet stress-responsive NAC transcription factor PgNAC21 enhances salinity stress tolerance in Arabidopsis. <i>Plant Physiology and Biochemistry</i> , 2019, 135, 546-553.	5.8	40
26	The bZIP protein VIP1 is involved in touch responses in Arabidopsis roots. <i>Plant Physiology</i> , 2016, 171, pp.00256.2016.	4.8	39
27	Characterization of an AtCCX5 gene from Arabidopsis thaliana that involves in high-affinity K ⁺ uptake and Na ⁺ transport in yeast. <i>Biochemical and Biophysical Research Communications</i> , 2011, 414, 96-100.	2.1	38
28	Isolation and characterization of plasma membrane Na ⁺ /H ⁺ antiporter genes from salt-sensitive and salt-tolerant reed plants. <i>Journal of Plant Physiology</i> , 2009, 166, 301-309.	3.5	36
29	Discovery of two novel highly tolerant NaHCO ₃ Trebouxiophytes: Identification and characterization of microalgae from extreme saline-alkali soil. <i>Algal Research</i> , 2015, 9, 245-253.	4.6	36
30	Conserved V-ATPase c subunit plays a role in plant growth by influencing V-ATPase-dependent endosomal trafficking. <i>Plant Biotechnology Journal</i> , 2016, 14, 271-283.	8.3	35
31	A putative myristoylated 2C-type protein phosphatase, PP2C74, interacts with SnRK1 in Arabidopsis. <i>FEBS Letters</i> , 2012, 586, 693-698.	2.8	34
32	Transcriptome profiling of Puccinellia tenuiflora during seed germination under a long-term saline-alkali stress. <i>BMC Genomics</i> , 2019, 20, 589.	2.8	34
33	A bZIP protein, VIP1, interacts with Arabidopsis heterotrimeric G β protein γ^2 subunit, AGB1. <i>Plant Physiology and Biochemistry</i> , 2013, 71, 240-246.	5.8	33
34	Characterization of a PutCAX1 gene from Puccinellia tenuiflora that confers Ca ²⁺ and Ba ²⁺ tolerance in yeast. <i>Biochemical and Biophysical Research Communications</i> , 2009, 383, 392-396.	2.1	32
35	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. <i>Biotechnology Letters</i> , 2007, 29, 1301-1305.	2.2	31
36	Comprehensive analysis of NAC transcription factor family uncovers drought and salinity stress response in pearl millet (Pennisetum glaucum). <i>BMC Genomics</i> , 2021, 22, 70.	2.8	31

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37	Molecular cloning and characterization of plasma membrane- and vacuolar-type Na ⁺ /H ⁺ antiporters of an alkaline-salt-tolerant monocot, <i>Puccinellia tenuiflora</i> . <i>Journal of Plant Research</i> , 2012, 125, 587-594.	2.4	30
38	<i>Arabidopsis</i> mitochondrial voltage-dependent anion channel 3 (AtVDAC3) protein interacts with thioredoxin m2. <i>FEBS Letters</i> , 2015, 589, 1207-1213.	2.8	30
39	Drought-induced activation and rehydration-induced inactivation of MPK6 in <i>Arabidopsis</i> . <i>Biochemical and Biophysical Research Communications</i> , 2012, 426, 626-629.	2.1	29
40	Enhanced Thermotolerance of <i>E. coli</i> by Expressed OsHsp90 from Rice (<i>Oryza sativa</i> L.). <i>Current Microbiology</i> , 2009, 58, 129-133.	2.2	28
41	Genetic Transformation and Analysis of Rice OsAPx2 Gene in <i>Medicago sativa</i> . <i>PLoS ONE</i> , 2012, 7, e41233.	2.5	27
42	<i>Arabidopsis</i> heterotrimeric G protein β^2 subunit interacts with a plasma membrane 2C-type protein phosphatase, PP2C52. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2012, 1823, 2254-2260.	4.1	26
43	<i>Arabidopsis</i> heterotrimeric G protein β^2 subunit, AGB1, regulates brassinosteroid signalling independently of BZR1. <i>Journal of Experimental Botany</i> , 2013, 64, 3213-3223.	4.8	25
44	The role of ammonium transporter (AMT) against salt stress in plants. <i>Plant Signaling and Behavior</i> , 2019, 14, 1625696.	2.4	25
45	Small RNA sequencing reveals the role of pearl millet miRNAs and their targets in salinity stress responses. <i>South African Journal of Botany</i> , 2020, 132, 395-402.	2.5	25
46	Ectopic Expression of the K ⁺ Channel β^2 Subunits from <i>Puccinellia tenuiflora</i> (KPutB1) and Rice (KOB1) Alters K ⁺ Homeostasis of Yeast and <i>Arabidopsis</i> . <i>Molecular Biotechnology</i> , 2011, 48, 76-86.	2.4	24
47	The interaction between AtMT2b and AtVDAC3 affects the mitochondrial membrane potential and reactive oxygen species generation under NaCl stress in <i>Arabidopsis</i> . <i>Planta</i> , 2019, 249, 417-429.	3.2	24
48	Abiotic stress response in yeast and metal-binding ability of a type 2 metallothionein-like protein (PutMT2) from <i>Puccinellia tenuiflora</i> . <i>Molecular Biology Reports</i> , 2014, 41, 5839-5849.	2.3	23
49	High-Yield Production in <i>Escherichia coli</i> of Fungal Immunomodulatory Protein Isolated from <i>Flammulina velutipes</i> and Its Bioactivity Assay in Vivo. <i>International Journal of Molecular Sciences</i> , 2013, 14, 2230-2241.	4.1	21
50	Efficient <i>Agrobacterium</i> -Mediated Transformation of Hybrid Poplar <i>Populus davidiana</i> Dode \times <i>Populus bollena</i> Lauche. <i>International Journal of Molecular Sciences</i> , 2013, 14, 2515-2528.	4.1	21
51	Protein phosphatase 2A regulates the nuclear accumulation of the <i>Arabidopsis</i> bZIP protein VIP1 under hypo-osmotic stress. <i>Journal of Experimental Botany</i> , 2019, 70, 6101-6112.	4.8	21
52	A GDSL-type esterase/lipase gene, GELP77, is necessary for pollen dissociation and fertility in <i>Arabidopsis</i> . <i>Biochemical and Biophysical Research Communications</i> , 2020, 526, 1036-1041.	2.1	20
53	The <i>Arabidopsis</i> adaptor protein AP-3 μ interacts with the G-protein β^2 subunit AGB1 and is involved in abscisic acid regulation of germination and post-germination development. <i>Journal of Experimental Botany</i> , 2013, 64, 5611-5621.	4.8	19
54	Pol III-Dependent Cabbage <i>BoNR8</i> Long ncRNA Affects Seed Germination and Growth in <i>Arabidopsis</i> . <i>Plant and Cell Physiology</i> , 2019, 60, 421-435.	3.1	19

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55	Analysis of expressed sequence tags from a NaHCO ₃ -treated alkali-tolerant plant, <i>Chloris virgata</i> . <i>Plant Physiology and Biochemistry</i> , 2010, 48, 247-255.	5.8	18
56	<i>Anditalea andensis</i> gen. nov., sp. nov., an alkaliphilic, halotolerant bacterium isolated from extreme alkali saline soil. <i>Antonie Van Leeuwenhoek</i> , 2012, 102, 703-710.	1.7	18
57	A Chloroplast-Localized Rubredoxin Family Protein Gene from <i>Puccinellia tenuiflora</i> (PutRUB) Increases NaCl and NaHCO ₃ Tolerance by Decreasing H ₂ O ₂ Accumulation. <i>International Journal of Molecular Sciences</i> , 2016, 17, 804.	4.1	18
58	Transcriptional Responses of a Bicarbonate-Tolerant Monocot, <i>Puccinellia tenuiflora</i> , and a Related Bicarbonate-Sensitive Species, <i>Poa annua</i> , to NaHCO ₃ Stress. <i>International Journal of Molecular Sciences</i> , 2015, 16, 496-509.	4.1	17
59	Adverse effect of urease on salt stress during seed germination in <i>Arabidopsis thaliana</i> . <i>FEBS Letters</i> , 2015, 589, 1308-1313.	2.8	17
60	Calcium signalling regulates the functions of the bZIP protein VIP1 in touch responses in <i>Arabidopsis thaliana</i> . <i>Annals of Botany</i> , 2018, 122, 1219-1229.	2.9	17
61	Morphological and physiological responses of two willow species from different habitats to salt stress. <i>Scientific Reports</i> , 2020, 10, 18228.	3.3	17
62	An S-ribonuclease binding protein EBS1 and brassinolide signaling are specifically required for <i>Arabidopsis</i> tolerance to bicarbonate. <i>Journal of Experimental Botany</i> , 2021, 72, 1449-1459.	4.8	17
63	Identification and Characterization of a PutAMT1;1 Gene from <i>Puccinellia tenuiflora</i> . <i>PLoS ONE</i> , 2013, 8, e83111.	2.5	17
64	A U-Box E3 Ubiquitin Ligase, PUB20, Interacts with the <i>Arabidopsis</i> G-Protein β^2 Subunit, AGB1. <i>PLoS ONE</i> , 2012, 7, e49207.	2.5	16
65	Purification and characterization of two ascorbate peroxidases of rice (<i>Oryza sativa</i> L.) expressed in <i>Escherichia coli</i> . <i>Biotechnology Letters</i> , 2005, 27, 63-67.	2.2	15
66	Expression of the rgMT gene, encoding for a rice metallothionein-like protein in <i>Saccharomyces cerevisiae</i> and <i>Arabidopsis thaliana</i> . <i>Journal of Genetics</i> , 2014, 93, 709-718.	0.7	15
67	<i>Arabidopsis</i> G-protein β^2 subunit AGB1 interacts with NPH3 and is involved in phototropism. <i>Biochemical and Biophysical Research Communications</i> , 2014, 445, 54-57.	2.1	15
68	VIP1 is very important/interesting protein 1 regulating touch responses of <i>Arabidopsis</i> . <i>Plant Signaling and Behavior</i> , 2016, 11, e1187358.	2.4	15
69	NaCl stress-induced transcriptomics analysis of <i>Salix linearistipularis</i> (syn. <i>Salix mongolica</i>). <i>Journal of Biological Research</i> , 2016, 23, 1.	2.1	14
70	Overexpression of Acyl-CoA-Binding Protein 1 (ChACBP1) From Saline-Alkali-Tolerant <i>Chlorella</i> sp. Enhances Stress Tolerance in <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2018, 9, 1772.	3.6	14
71	<i>Arabidopsis</i> cysteine proteinase inhibitor AtCYSb interacts with a Ca ²⁺ -dependent nuclease, AtCaN2. <i>FEBS Letters</i> , 2013, 587, 3417-3421.	2.8	13
72	An efficient method for stable protein targeting in grasses (Poaceae): a case study in <i>Puccinellia tenuiflora</i> . <i>BMC Biotechnology</i> , 2014, 14, 52.	3.3	13

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73	Sexual Differences in Physiological and Transcriptional Responses to Salinity Stress of <i>Salix linearistipularis</i> . <i>Frontiers in Plant Science</i> , 2020, 11, 517962.	3.6	13
74	<i>Arabidopsis</i> Ca ²⁺ -dependent nuclease AtCaN2 plays a negative role in plant responses to salt stress. <i>Plant Science</i> , 2019, 281, 213-222.	3.6	12
75	Metal-Binding Ability of VIP1: A bZIP Protein in <i>Arabidopsis thaliana</i> . <i>Protein Journal</i> , 2013, 32, 526-532.	1.6	11
76	Construction of genetic transformation system of <i>Salix mongolica</i> : in vitro leaf-based callus induction, adventitious buds differentiation, and plant regeneration. <i>Plant Cell, Tissue and Organ Culture</i> , 2018, 132, 213-217.	2.3	11
77	Biotin plays an important role in <i>Arabidopsis thaliana</i> seedlings under carbonate stress. <i>Plant Science</i> , 2020, 300, 110639.	3.6	11
78	Overexpression of AtOxR gene improves abiotic stresses tolerance and vitamin C content in <i>Arabidopsis thaliana</i> . <i>BMC Biotechnology</i> , 2016, 16, 69.	3.3	10
79	Expression, purification, and characterization of two NADP-malic enzymes of rice (<i>Oryza sativa</i> L.) in <i>Escherichia coli</i> . <i>Protein Expression and Purification</i> , 2006, 45, 200-205.	1.3	9
80	Molecular cloning, expression, and characterization of a Ca ²⁺ -dependent nuclease of <i>Arabidopsis thaliana</i> . <i>Protein Expression and Purification</i> , 2012, 83, 70-74.	1.3	9
81	Saline-induced changes of epicuticular waxy layer on the <i>Puccinellia tenuiflora</i> and <i>Oryza sativa</i> leave surfaces. <i>Biological Research</i> , 2015, 48, 33.	3.4	9
82	Expression and purification of a novel rice (<i>Oryza sativa</i> L.) mitochondrial ATP synthase small subunit in <i>Escherichia coli</i> . <i>Protein Expression and Purification</i> , 2004, 37, 306-310.	1.3	8
83	Transcriptome dynamics and hub genes of green alga <i>Nannochloris</i> sp. JB17 under NaHCO ₃ stress. <i>Algal Research</i> , 2021, 54, 102185.	4.6	8
84	Purification and characterization of carbonic anhydrase of rice (<i>Oryza sativa</i> L.) expressed in <i>Escherichia coli</i> . <i>Protein Expression and Purification</i> , 2007, 52, 379-383.	1.3	7
85	Discovery and Characterization of Two Novel Salt-Tolerance Genes in <i>Puccinellia tenuiflora</i> . <i>International Journal of Molecular Sciences</i> , 2014, 15, 16469-16483.	4.1	6
86	<i>Arabidopsis</i> V-ATPase d2 Subunit Plays a Role in Plant Responses to Oxidative Stress. <i>Genes</i> , 2020, 11, 701.	2.4	6
87	Genome-wide investigation of SQUAMOSA promoter binding protein-like transcription factor family in pearl millet (<i>Pennisetum glaucum</i> (L) R. Br.). <i>Plant Gene</i> , 2021, 27, 100313.	2.3	6
88	Stage- and tissue-specific expression of rice OsIu1 gene encoding a scaffold protein for mitochondrial iron-sulfur-cluster biogenesis. <i>Biotechnology Letters</i> , 2009, 31, 1305-1310.	2.2	5
89	Evaluation of Fe(III) reduction by mitochondria induced with a respiratory substrate NADH or succinate, using a Fe(II)-specific chelator bathophenanthroline disulfonate in <i>Saccharomyces cerevisiae</i> . <i>Biologia (Poland)</i> , 2009, 64, 877-880.	1.5	5
90	Exogenous NaHCO ₃ enhances growth and lipid accumulation of the highly NaHCO ₃ -tolerant <i>Nannochloris</i> sp. JB17. <i>Journal of Applied Phycology</i> , 2021, 33, 241-253.	2.8	5

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91	Genome-Wide Pathway Analysis of Microarray Data Identifies Risk Pathways Related to Salt Stress in <i>Arabidopsis thaliana</i> . <i>Interdisciplinary Sciences, Computational Life Sciences</i> , 2018, 10, 566-571.	3.6	4
92	B-family subunits of protein phosphatase 2A are necessary for pollen development but not for female gametophyte development in <i>Arabidopsis</i> . <i>Biochemical and Biophysical Research Communications</i> , 2018, 505, 176-180.	2.1	4
93	Possible inhibition of <i>Arabidopsis</i> VIP1-mediated mechanosensory signaling by streptomycin. <i>Plant Signaling and Behavior</i> , 2018, 13, e1521236.	2.4	4
94	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. <i>Plant Physiology and Biochemistry</i> , 2021, 167, 651-664.	5.8	4
95	VIP1, a bZIP protein, interacts with the catalytic subunit of protein phosphatase 2A in <i>Arabidopsis thaliana</i> . <i>Plant Signaling and Behavior</i> , 2020, 15, 1706026.	2.4	3
96	Description of AtCAX4 in Response to Abiotic Stress in <i>Arabidopsis</i> . <i>International Journal of Molecular Sciences</i> , 2021, 22, 856.	4.1	3
97	N-terminus of PutCAX2 from <i>Puccinellia tenuiflora</i> affects Ca ²⁺ and Ba ²⁺ tolerance in yeast. <i>Acta Physiologiae Plantarum</i> , 2016, 38, 1.	2.1	2
98	The role of endomembrane-localized VHA-c in plant growth. <i>Plant Signaling and Behavior</i> , 2018, 13, e1382796.	2.4	2
99	Computational identification and evolutionary analysis of toxins in Mosquitocidal <i>Bacillus thuringiensis</i> strain S2160-1. <i>3 Biotech</i> , 2018, 8, 293.	2.2	2
100	The B ³ -family subunits of protein phosphatase 2A are necessary for in-vitro dephosphorylation of the <i>Arabidopsis</i> mechanosensory transcription factor VIP1. <i>Biochemical and Biophysical Research Communications</i> , 2021, 534, 353-358.	2.1	2
101	NDR/LATS family protein kinase genes are indispensable for embryogenesis in <i>Arabidopsis</i> . <i>FEBS Open Bio</i> , 2021, 11, 2600-2606.	2.3	2
102	Biotinylated subunit of 3-methylcrotonyl-CoA carboxylase encoding gene (AtMCCA) participating in <i>Arabidopsis</i> resistance to carbonate Stress by transcriptome analysis. <i>Plant Science</i> , 2021, 315, 111130.	3.6	1
103	RNA-Binding Protein MAC5A Is Required for Gibberellin-Regulated Stamen Development. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2009.	4.1	1
104	Design and implementation of semantics-based image retrieval system. , 2015, , .		0