

Jian Sun

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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.

59
papers

2,126
citations

25
h-index

45
g-index

62
ext. papers

2,771
ext. citations

5
avg, IF

4.38
L-index

#	Paper	IF	Citations
59	NaCl-induced alternations of cellular and tissue ion fluxes in roots of salt-resistant and salt-sensitive poplar species. <i>Plant Physiology</i> , 2009 , 149, 1141-53	6.6	253
58	H ₂ O ₂ and cytosolic Ca ²⁺ signals triggered by the PM H-coupled transport system mediate K ⁺ /Na ⁺ homeostasis in NaCl-stressed <i>Populus euphratica</i> cells. <i>Plant, Cell and Environment</i> , 2010 , 33, 943-58	8.4	136
57	Calcium mediates root K ⁺ /Na ⁺ homeostasis in poplar species differing in salt tolerance. <i>Tree Physiology</i> , 2009 , 29, 1175-86	4.2	136
56	Hydrogen sulfide alleviates cadmium toxicity through regulations of cadmium transport across the plasma and vacuolar membranes in <i>Populus euphratica</i> cells. <i>Plant Physiology and Biochemistry</i> , 2013 , 65, 67-74	5.4	122
55	Salt-induced expression of genes related to Na ⁽⁺⁾ /K ⁽⁺⁾ and ROS homeostasis in leaves of salt-resistant and salt-sensitive poplar species. <i>Plant Molecular Biology</i> , 2010 , 73, 251-69	4.6	115
54	Arabidopsis fatty acid desaturase FAD2 is required for salt tolerance during seed germination and early seedling growth. <i>PLoS ONE</i> , 2012 , 7, e30355	3.7	110
53	Hydrogen peroxide and nitric oxide mediate K ⁺ /Na ⁺ homeostasis and antioxidant defense in NaCl-stressed callus cells of two contrasting poplars. <i>Plant Cell, Tissue and Organ Culture</i> , 2010 , 103, 205-215	2.7	78
52	<i>Populus euphratica</i> XTH overexpression enhances salinity tolerance by the development of leaf succulence in transgenic tobacco plants. <i>Journal of Experimental Botany</i> , 2013 , 64, 4225-38	7	70
51	Extracellular ATP signaling is mediated by H ₂ O ₂ and cytosolic Ca ²⁺ in the salt response of <i>Populus euphratica</i> cells. <i>PLoS ONE</i> , 2012 , 7, e53136	3.7	61
50	<i>Paxillus involutus</i> strains MAJ and NAU mediate K ⁽⁺⁾ /Na ⁽⁺⁾ homeostasis in ectomycorrhizal <i>Populus x canescens</i> under sodium chloride stress. <i>Plant Physiology</i> , 2012 , 159, 1771-86	6.6	59
49	An ATP signalling pathway in plant cells: extracellular ATP triggers programmed cell death in <i>Populus euphratica</i> . <i>Plant, Cell and Environment</i> , 2012 , 35, 893-916	8.4	58
48	Melatonin-Stimulated Triacylglycerol Breakdown and Energy Turnover under Salinity Stress Contributes to the Maintenance of Plasma Membrane H-ATPase Activity and K/Na Homeostasis in Sweet Potato. <i>Frontiers in Plant Science</i> , 2018 , 9, 256	6.2	54
47	Salt tolerance in <i>Populus</i> : Significance of stress signaling networks, mycorrhization, and soil amendments for cellular and whole-plant nutrition. <i>Environmental and Experimental Botany</i> , 2014 , 107, 113-124	5.9	52
46	<i>Populus euphratica</i> APYRASE2 Enhances Cold Tolerance by Modulating Vesicular Trafficking and Extracellular ATP in Arabidopsis Plants. <i>Plant Physiology</i> , 2015 , 169, 530-48	6.6	48
45	Exogenous hydrogen peroxide, nitric oxide and calcium mediate root ion fluxes in two non-secretor mangrove species subjected to NaCl stress. <i>Tree Physiology</i> , 2013 , 33, 81-95	4.2	47
44	Exogenous Abscisic Acid Alleviates Cadmium Toxicity by Restricting Cd ²⁺ Influx in <i>Populus euphratica</i> Cells. <i>Journal of Plant Growth Regulation</i> , 2016 , 35, 827-837	4.7	43
43	Overexpression of copper/zinc superoxide dismutase from mangrove <i>Kandelia candel</i> in tobacco enhances salinity tolerance by the reduction of reactive oxygen species in chloroplast. <i>Frontiers in Plant Science</i> , 2015 , 6, 23	6.2	38

42	Overexpression of <i>Populus euphratica</i> xyloglucan endotransglucosylase/hydrolase gene confers enhanced cadmium tolerance by the restriction of root cadmium uptake in transgenic tobacco. <i>Environmental and Experimental Botany</i> , 2014 , 100, 74-83	5.9	36
41	Effects of Stockosorb and Luquasorb polymers on salt and drought tolerance of <i>Populus popularis</i> . <i>Scientia Horticulturae</i> , 2010 , 124, 268-273	4.1	33
40	Non-invasive microelectrode cadmium flux measurements reveal the spatial characteristics and real-time kinetics of cadmium transport in hyperaccumulator and nonhyperaccumulator ecotypes of <i>Sedum alfredii</i> . <i>Journal of Plant Physiology</i> , 2013 , 170, 355-9	3.6	32
39	Ion flux profiles and plant ion homeostasis control under salt stress. <i>Plant Signaling and Behavior</i> , 2009 , 4, 261-4	2.5	29
38	Genome-wide identification, structural and gene expression analysis of the bZIP transcription factor family in sweet potato wild relative <i>Ipomoea trifida</i> . <i>BMC Genetics</i> , 2019 , 20, 41	2.6	28
37	Overexpression of PeHA1 enhances hydrogen peroxide signaling in salt-stressed <i>Arabidopsis</i> . <i>Plant Physiology and Biochemistry</i> , 2013 , 71, 37-48	5.4	28
36	Extracellular ATP mediates cellular K ⁺ /Na ⁺ homeostasis in two contrasting poplar species under NaCl stress. <i>Trees - Structure and Function</i> , 2016 , 30, 825-837	2.6	27
35	NaCl-induced changes of ion homeostasis and nitrogen metabolism in two sweet potato (<i>Ipomoea batatas</i> L.) cultivars exhibit different salt tolerance at adventitious root stage. <i>Environmental and Experimental Botany</i> , 2016 , 129, 23-36	5.9	27
34	<i>Populus euphratica</i> HSF binds the promoter of WRKY1 to enhance salt tolerance. <i>Plant Science</i> , 2015 , 235, 89-100	5.3	25
33	Root-zone-specific sensitivity of K ⁺ - and Ca ²⁺ -permeable channels to H ₂ O ₂ determines ion homeostasis in salinized diploid and hexaploid <i>Ipomoea trifida</i> . <i>Journal of Experimental Botany</i> , 2019 , 70, 1389-1405	7	22
32	High rates of virus-induced gene silencing by tobacco rattle virus in <i>Populus</i> . <i>Tree Physiology</i> , 2015 , 35, 1016-29	4.2	22
31	Hydrogen Sulfide Mediates K and Na Homeostasis in the Roots of Salt-Resistant and Salt-Sensitive Poplar Species Subjected to NaCl Stress. <i>Frontiers in Plant Science</i> , 2018 , 9, 1366	6.2	22
30	NaCl-elicited, vacuolar Ca ²⁺ release facilitates prolonged cytosolic Ca ²⁺ signaling in the salt response of <i>Populus euphratica</i> cells. <i>Cell Calcium</i> , 2015 , 57, 348-65	4	21
29	Overexpression of PeHSF mediates leaf ROS homeostasis in transgenic tobacco lines grown under salt stress conditions. <i>Plant Cell, Tissue and Organ Culture</i> , 2013 , 115, 299-308	2.7	21
28	Overexpression of a poplar two-pore K ⁺ channel enhances salinity tolerance in tobacco cells. <i>Plant Cell, Tissue and Organ Culture</i> , 2013 , 112, 19-31	2.7	21
27	Genome-wide identification and expression analysis of glycine-rich RNA-binding protein family in sweet potato wild relative <i>Ipomoea trifida</i> . <i>Gene</i> , 2019 , 686, 177-186	3.8	21
26	High-throughput deep sequencing reveals the important role that microRNAs play in the salt response in sweet potato (<i>Ipomoea batatas</i> L.). <i>BMC Genomics</i> , 2020 , 21, 164	4.5	19
25	DORN1/P2K1 and purino-calcium signalling in plants: making waves with extracellular ATP. <i>Annals of Botany</i> , 2020 , 124, 1227-1242	4.1	18

24	Genome-wide analysis of expression quantitative trait loci (eQTLs) reveals the regulatory architecture of gene expression variation in the storage roots of sweet potato. <i>Horticulture Research</i> , 2020 , 7, 90	7.7	17
23	Ion fluxes in <i>Paxillus involutus</i> -inoculated roots of <i>Populus bianescens</i> under saline stress. <i>Environmental and Experimental Botany</i> , 2014 , 108, 99-108	5.9	15
22	Involvement of Phosphatidylserine and Triacylglycerol in the Response of Sweet Potato Leaves to Salt Stress. <i>Frontiers in Plant Science</i> , 2019 , 10, 1086	6.2	14
21	Extracellular ATP signaling and homeostasis in plant cells. <i>Plant Signaling and Behavior</i> , 2012 , 7, 566-9	2.5	14
20	Effect of NaCl on leaf H ⁺ -ATPase and the relevance to salt tolerance in two contrasting poplar species. <i>Trees - Structure and Function</i> , 2010 , 24, 597-607	2.6	14
19	Identification, expression analysis, and function evaluation of 42 tomato DEAD-box RNA helicase genes in growth development and stress response. <i>Acta Physiologiae Plantarum</i> , 2018 , 40, 1	2.6	12
18	-Facilitated Cd Influx through Plasma Membrane Ca-Permeable Channels Is Stimulated by HO and H-ATPase in Ectomycorrhizal Under Cadmium Stress. <i>Frontiers in Plant Science</i> , 2016 , 7, 1975	6.2	11
17	Genome-wide identification, characterisation and functional evaluation of WRKY genes in the sweet potato wild ancestor <i>Ipomoea trifida</i> (H.B.K.) G. Don. under abiotic stresses. <i>BMC Genetics</i> , 2019 , 20, 90	2.6	11
16	Isolation, Expression Analysis, and Function Evaluation of 12 Novel Stress-Responsive Genes of NAC Transcription Factors in Sweetpotato. <i>Crop Science</i> , 2018 , 58, 1328-1341	2.4	9
15	GaHD1, a candidate gene for the <i>Gossypium arboreum</i> SMA-4 mutant, promotes trichome and fiber initiation by cellular HO and Ca signals. <i>Plant Molecular Biology</i> , 2020 , 103, 409-423	4.6	8
14	Non-invasive flux measurements using microsensors: theory, limitations, and systems. <i>Methods in Molecular Biology</i> , 2012 , 913, 101-17	1.4	7
13	Annexin 1 Is a Component of eATP-Induced Cytosolic Calcium Elevation in Roots. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	7
12	Characterization of a Novel Chitinase from Sweet Potato and Its Fungicidal Effect against. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 7591-7600	5.7	6
11	Heat shock responses in <i>Populus euphratica</i> cell cultures: important role of crosstalk among hydrogen peroxide, calcium and potassium. <i>Plant Cell, Tissue and Organ Culture</i> , 2016 , 125, 215-230	2.7	6
10	A systematic comparison of eight new plastome sequences from <i>L. PeerJ</i> , 2019 , 7, e6563	3.1	6
9	Overexpression of phosphatidylserine synthase affords cellular Na homeostasis and salt tolerance by activating plasma membrane Na/H antiport activity in sweet potato roots. <i>Horticulture Research</i> , 2020 , 7, 131	7.7	6
8	Improving CRISPR-Cas-mediated RNA targeting and gene editing using SPLCV replicon-based expression vectors in <i>Nicotiana benthamiana</i> . <i>Plant Biotechnology Journal</i> , 2020 , 18, 1993	11.6	6
7	Identification of Shaker K channel family members in sweetpotato and functional exploration of IbAKT1. <i>Gene</i> , 2021 , 768, 145311	3.8	5

6	Targeting of SPCSV-RNase3 via CRISPR-Cas13 confers resistance against sweet potato virus disease. <i>Molecular Plant Pathology</i> , 2022 , 23, 104-117	5.7	4
5	Robust -Mediated Transient Expression in Two Duckweed Species (Lemnaceae) Directed by Non-replicating, Replicating, and Cell-to-Cell Spreading Vectors. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 5	5.8	4
4	SlSTE1 promotes abscisic acid-dependent salt stress-responsive pathways via improving ion homeostasis and reactive oxygen species scavenging in tomato. <i>Journal of Integrative Plant Biology</i> , 2020 , 62, 1942-1966	8.3	2
3	Damage Signaling by Extracellular Nucleotides: A Role for Cyclic Nucleotides in Elevating Cytosolic Free Calcium?. <i>Frontiers in Plant Science</i> , 2021 , 12, 788514	6.2	2
2	1-Butanol triggers programmed cell death in <i>Populus euphratica</i> cell cultures. <i>Plant Growth Regulation</i> , 2014 , 74, 33-45	3.2	0
1	NaCl-altered oxygen flux profiles and H ⁺ -ATPase activity in roots of two contrasting poplar species. <i>Tree Physiology</i> , 2021 , 41, 756-770	4.2	