Shaoliang Chen

List of Publications by Citations

83 papers	3,437 citations	34 h-index	57 g-index
87 ext. papers	4,158 ext. citations	4.8 avg, IF	4.95 L-index

#	Paper	IF	Citations
83	NaCl-induced alternations of cellular and tissue ion fluxes in roots of salt-resistant and salt-sensitive poplar species. *Plant Physiology*, **2009**, 149, 1141-53	6.6	253
82	Salinity tolerance of Populus. *Plant Biology*, **2010**, 12, 317-33	3.7	166
81	Salt, nutrient uptake and transport, and ABA of Populus euphratica; a hybrid in response to increasing soil NaCl. *Trees - Structure and Function*, **2001**, 15, 186-194	2.6	141
80	H2O2 and cytosolic Ca2+ signals triggered by the PM H-coupled transport system mediate K+/Na+ homeostasis in NaCl-stressed Populus euphratica cells. *Plant, Cell and Environment*, **2010**, 33, 943-58	8.4	136
79	Calcium mediates root K+/Na+ homeostasis in poplar species differing in salt tolerance. *Tree Physiology*, **2009**, 29, 1175-86	4.2	136
78	Hydrogen sulfide alleviates cadmium toxicity through regulations of cadmium transport across the plasma and vacuolar membranes in Populus euphratica cells. *Plant Physiology and Biochemistry*, **2013**, 65, 67-74	5.4	122
77	Sodium and chloride distribution in roots and transport in three poplar genotypes under increasing NaCl stress. *Forest Ecology and Management*, **2002**, 168, 217-230	3.9	119
76	Salt-induced expression of genes related to Na(+)/K(+) and ROS homeostasis in leaves of salt-resistant and salt-sensitive poplar species. *Plant Molecular Biology*, **2010**, 73, 251-69	4.6	115
75	Arabidopsis fatty acid desaturase FAD2 is required for salt tolerance during seed germination and early seedling growth. *PLoS ONE*, **2012**, 7, e30355	3.7	110
74	Effects of NaCl on shoot growth, transpiration, ion compartmentation, and transport in regenerated plants of Populus euphratica and Populus tomentosa. *Canadian Journal of Forest Research*, **2003**, 33, 967-975	1.9	103
73	Ionic homeostasis and reactive oxygen species control in leaves and xylem sap of two poplars subjected to NaCl stress. *Tree Physiology*, **2008**, 28, 947-57	4.2	93
72	Leaf photosynthesis, fluorescence response to salinity and the relevance to chloroplast salt compartmentation and anti-oxidative stress in two poplars. *Trees - Structure and Function*, **2007**, 21, 581-591	2.6	81
71	Hydrogen peroxide and nitric oxide mediate K+/Na+ homeostasis and antioxidant defense in NaCl-stressed callus cells of two contrasting poplars. *Plant Cell, Tissue and Organ Culture*, **2010**, 103, 205-215	2.7	78
70	Agrobacterium-mediated transformation of durum wheat (Triticum turgidum L. var. durum cv Stewart) with improved efficiency. *Journal of Experimental Botany*, **2010**, 61, 1567-81	7	75
69	On the salty side of life: molecular, physiological and anatomical adaptation and acclimation of trees to extreme habitats. *Plant, Cell and Environment*, **2015**, 38, 1794-816	8.4	71
68	Populus euphratica XTH overexpression enhances salinity tolerance by the development of leaf succulence in transgenic tobacco plants. *Journal of Experimental Botany*, **2013**, 64, 4225-38	7	70
67	Armet is an effector protein mediating aphid-plant interactions. *FASEB Journal*, **2015**, 29, 2032-45	0.9	62

66	Transcriptome characterization and sequencing-based identification of salt-responsive genes in Millettia pinnata, a semi-mangrove plant. *DNA Research*, **2012**, 19, 195-207	4.5	62
65	Extracellular ATP signaling is mediated by H□□ and cytosolic Ca□+ in the salt response of Populus euphratica cells. *PLoS ONE*, **2012**, 7, e53136	3.7	61
64	Paxillus involutus strains MAJ and NAU mediate K(+)/Na(+) homeostasis in ectomycorrhizal Populus x canescens under sodium chloride stress. *Plant Physiology*, **2012**, 159, 1771-86	6.6	59
63	Effect of NaCl on photosynthesis, salt accumulation and ion compartmentation in two mangrove species, Kandelia candel and Bruguiera gymnorhiza. *Aquatic Botany*, **2008**, 88, 303-310	1.8	59
62	An ATP signalling pathway in plant cells: extracellular ATP triggers programmed cell death in Populus euphratica. *Plant, Cell and Environment*, **2012**, 35, 893-916	8.4	58
61	Osmotic Stress and Ion-Specific Effects on Xylem Abscisic Acid and the Relevance to Salinity Tolerance in Poplar. *Journal of Plant Growth Regulation*, **2002**, 21, 224-233	4.7	56
60	Physiological and molecular mechanisms of heavy metal accumulation in nonmycorrhizal versus mycorrhizal plants. *Plant, Cell and Environment*, **2019**, 42, 1087-1103	8.4	56
59	Salt tolerance in Populus: Significance of stress signaling networks, mycorrhization, and soil amendments for cellular and whole-plant nutrition. *Environmental and Experimental Botany*, **2014**, 107, 113-124	5.9	52
58	Genotypic variation in drought tolerance of poplar in relation to abscisic acid. *Tree Physiology*, **1997**, 17, 797-803	4.2	51
57	Populus euphratica APYRASE2 Enhances Cold Tolerance by Modulating Vesicular Trafficking and Extracellular ATP in Arabidopsis Plants. *Plant Physiology*, **2015**, 169, 530-48	6.6	48
56	Exogenous hydrogen peroxide, nitric oxide and calcium mediate root ion fluxes in two non-secretor mangrove species subjected to NaCl stress. *Tree Physiology*, **2013**, 33, 81-95	4.2	47
55	Exogenous Abscisic Acid Alleviates Cadmium Toxicity by Restricting Cd2+ Influx in Populus euphratica Cells. *Journal of Plant Growth Regulation*, **2016**, 35, 827-837	4.7	43
54	Engineering Drought Resistance in Forest Trees. *Frontiers in Plant Science*, **2018**, 9, 1875	6.2	42
53	Overexpression of copper/zinc superoxide dismutase from mangrove Kandelia candel in tobacco enhances salinity tolerance by the reduction of reactive oxygen species in chloroplast. *Frontiers in Plant Science*, **2015**, 6, 23	6.2	38
52	Hydrogel modified uptake of salt ions and calcium in Populus euphratica under saline conditions. *Trees - Structure and Function*, **2004**, 18, 175-183	2.6	37
51	Overexpression of Populus euphratica xyloglucan endotransglucosylase/hydrolase gene confers enhanced cadmium tolerance by the restriction of root cadmium uptake in transgenic tobacco. *Environmental and Experimental Botany*, **2014**, 100, 74-83	5.9	36
50	Angiotensin-converting enzymes modulate aphid-plant interactions. *Scientific Reports*, **2015**, 5, 8885	4.9	35
49	Overexpression of the PtSOS2 gene improves tolerance to salt stress in transgenic poplar plants. *Plant Biotechnology Journal*, **2015**, 13, 962-73	11.6	33

48	Effects of Stockosorb and Luquasorb polymers on salt and drought tolerance of Populus popularis. *Scientia Horticulturae*, **2010**, 124, 268-273	4.1	33
47	Multiple signaling networks of extracellular ATP, hydrogen peroxide, calcium, and nitric oxide in the mediation of root ion fluxes in secretor and non-secretor mangroves under salt stress. *Aquatic Botany*, **2014**, 119, 33-43	1.8	31
46	Overexpression of a Populus trichocarpa H+-pyrophosphatase gene PtVP1.1 confers salt tolerance on transgenic poplar. *Tree Physiology*, **2015**, 35, 663-77	4.2	30
45	Ion flux profiles and plant ion homeostasis control under salt stress. *Plant Signaling and Behavior*, **2009**, 4, 261-4	2.5	29
44	Growth, Gas Exchange, Abscisic Acid, and Calmodulin Response to Salt Stress in Three Poplars. *Journal of Integrative Plant Biology*, **2006**, 48, 286-293	8.3	29
43	The Arabidopsis Ca□+-dependent protein kinase CPK27 is required for plant response to salt-stress. *Gene*, **2015**, 563, 203-14	3.8	28
42	Overexpression of PeHA1 enhances hydrogen peroxide signaling in salt-stressed Arabidopsis. *Plant Physiology and Biochemistry*, **2013**, 71, 37-48	5.4	28
41	Extracellular ATP mediates cellular K+/Na+ homeostasis in two contrasting poplar species under NaCl stress. *Trees - Structure and Function*, **2016**, 30, 825-837	2.6	27
40	Populus euphratica HSF binds the promoter of WRKY1 to enhance salt tolerance. *Plant Science*, **2015**, 235, 89-100	5.3	25
39	High rates of virus-induced gene silencing by tobacco rattle virus in Populus. *Tree Physiology*, **2015**, 35, 1016-29	4.2	22
38	Hydrogen Sulfide Mediates K and Na Homeostasis in the Roots of Salt-Resistant and Salt-Sensitive Poplar Species Subjected to NaCl Stress. *Frontiers in Plant Science*, **2018**, 9, 1366	6.2	22
37	NaCl-elicited, vacuolar Ca(2+) release facilitates prolonged cytosolic Ca(2+) signaling in the salt response of Populus euphratica cells. *Cell Calcium*, **2015**, 57, 348-65	4	21
36	Overexpression of PeHSF mediates leaf ROS homeostasis in transgenic tobacco lines grown under salt stress conditions. *Plant Cell, Tissue and Organ Culture*, **2013**, 115, 299-308	2.7	21
35	Overexpression of a poplar two-pore K+ channel enhances salinity tolerance in tobacco cells. *Plant Cell, Tissue and Organ Culture*, **2013**, 112, 19-31	2.7	21
34	Amelioration of nitrate uptake under salt stress by ectomycorrhiza with and without a Hartig net. *New Phytologist*, **2019**, 222, 1951-1964	9.8	21
33	Populus euphratica WRKY1 binds the promoter of H+-ATPase gene to enhance gene expression and salt tolerance. *Journal of Experimental Botany*, **2020**, 71, 1527-1539	7	19
32	Populus euphratica J3 mediates root K+/Na+ homeostasis by activating plasma membrane H+-ATPase in transgenic Arabidopsis under NaCl salinity. *Plant Cell, Tissue and Organ Culture*, **2017**, 131, 75-88	2.7	18
31	Salt-Sensitive Signaling Networks in the Mediation of K/Na Homeostasis Gene Expression in Roots. *Frontiers in Plant Science*, **2017**, 8, 1403	6.2	17

30	Ion fluxes in Paxillus involutus-inoculated roots of Populus□anescens under saline stress. *Environmental and Experimental Botany*, **2014**, 108, 99-108	5.9	15
29	Xylem abscisic acid accelerates leaf abscission by modulating polyamine and ethylene synthesis in water-stressed intact poplar. *Trees - Structure and Function*, **2002**, 16, 16-22	2.6	15
28	Extracellular ATP signaling and homeostasis in plant cells. *Plant Signaling and Behavior*, **2012**, 7, 566-9	2.5	14
27	Effect of NaCl on leaf H+-ATPase and the relevance to salt tolerance in two contrasting poplar species. *Trees - Structure and Function*, **2010**, 24, 597-607	2.6	14
26	The Arabidopsis Ca-Dependent Protein Kinase CPK12 Is Involved in Plant Response to Salt Stress. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	14
25	Genotypic Differences in Antioxidative Stress and Salt Tolerance of Three Poplars Under Salt Stress. *Frontiers of Forestry in China: Selected Publications From Chinese Universities*, **2006**, 1, 82-88		13
24	Quantitative X-ray microanalysis of hydrogen peroxide within plant cells. *Microscopy Research and Technique*, **2009**, 72, 49-60	2.8	12
23	-Facilitated Cd Influx through Plasma Membrane Ca-Permeable Channels Is Stimulated by HO and H-ATPase in Ectomycorrhizal □under Cadmium Stress. *Frontiers in Plant Science*, **2016**, 7, 1975	6.2	11
22	Over-transcription of genes in a parathion-resistant strain of mosquito Culex pipiens quinquefasciatus. *Insect Science*, **2015**, 22, 150-6	3.6	8
21	Quantitative X-ray Elemental Imaging in Plant Materials at the Subcellular Level with a Transmission Electron Microscope: Applications and Limitations. *Materials*, **2014**, 7, 3160-3175	3.5	7
20	Non-invasive flux measurements using microsensors: theory, limitations, and systems. *Methods in Molecular Biology*, **2012**, 913, 101-17	1.4	7
19	Heat shock responses in Populus euphratica cell cultures: important role of crosstalk among hydrogen peroxide, calcium and potassium. *Plant Cell, Tissue and Organ Culture*, **2016**, 125, 215-230	2.7	6
18	Phytochrome-interacting factors regulate seedling growth through ABA signaling. *Biochemical and Biophysical Research Communications*, **2020**, 526, 1100-1105	3.4	6
17	Populus euphratica remorin 6.5 activates plasma membrane H+-ATPases to mediate salt tolerance. *Tree Physiology*, **2020**, 40, 731-745	4.2	5
16	Genome-Wide Identification and Characterization of the UBP Gene Family in Moso Bamboo (). *International Journal of Molecular Sciences*, **2019**, 20,	6.3	4
15	Heterologous Expression of Three Dehydrin Genes Confers Abiotic Stress Tolerance in. *Plants*, **2020**, 9,	4.5	4
14	The complete mitochondrial genome of a tertiary relict evergreen woody plant. *Mitochondrial DNA Part B: Resources*, **2017**, 3, 9-11	0.5	4
13	Effect of NaCl on growth and ion relations in two salt-tolerant strains of Paxillus involutus. *Forestry Studies in China*, **2008**, 10, 95-100		4

12	Populus euphratica annexin1 facilitates cadmium enrichment in transgenic Arabidopsis. *Journal of Hazardous Materials*, **2021**, 405, 124063	12.8	4
11	Wood Formation under Severe Drought Invokes Adjustment of the Hormonal and Transcriptional Landscape in Poplar. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	4
10	Comprehensive evaluation of fuel properties and complex regulation of intracellular transporters for high oil production in developing seeds of for woody biodiesel. *Biotechnology for Biofuels*, **2019**, 12, 6	7.8	3
9	Genome-Wide Identification and Characterization of Hexokinase Genes in Moso Bamboo (). *Frontiers in Plant Science*, **2020**, 11, 600	6.2	3
8	Abscisic Acid, Calmodulin Response to Short Term and Long Term Salinity and the Relevance to NaCl-induced Antioxidant Defense in Two Mangrove Species. *The Open Forest Science Journal*, **2009** , 2, 48-58		3
7	JRL Mediates ABA Response, Ionic and ROS Homeostasis in Arabidopsis under Salt Stress. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	3
6	Proteomics reveal both photochemical and biochemical limitations involved in salt-induced suppression of photosynthesis in trees. *Tree Physiology*, **2018**, 38, 1599-1604	4.2	3
5	Thioredoxin f Confers Osmotic Stress Tolerance in Transgenic Tobacco. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	1
4	Isolation of protoplast from callus of Populus euphratica and H+ fluxes across plasma membrane under NaCl stress. *Forestry Studies in China*, **2007**, 9, 198-202		1
3	Ectomycorrhizal Fungal Strains Facilitate Cd Enrichment in a Woody Hyperaccumulator under Co-Existing Stress of Cadmium and Salt. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	1
2	Natural and Synthetic Hydrophilic Polymers Enhance Salt and Drought Tolerance of Metasequoia glyptostroboides Hu and W.C.Cheng Seedlings. *Forests*, **2018**, 9, 643	2.8	1
1	NaCl-altered oxygen flux profiles and H+-ATPase activity in roots of two contrasting poplar species. *Tree Physiology*, **2021**, 41, 756-770	4.2	