

# Shaoliang Chen

## List of Publications by Year in Descending Order

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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.

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	Ectomycorrhizal Fungal Strains Facilitate Cd Enrichment in a Woody Hyperaccumulator under Co-Existing Stress of Cadmium and Salt. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	1
82	<i>Populus euphratica</i> annexin1 facilitates cadmium enrichment in transgenic Arabidopsis. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 405, 124063	12.8	4
81	NaCl-altered oxygen flux profiles and H <sup>+</sup> -ATPase activity in roots of two contrasting poplar species. <i>Tree Physiology</i> , <b>2021</b> , 41, 756-770	4.2	
80	Wood Formation under Severe Drought Invokes Adjustment of the Hormonal and Transcriptional Landscape in Poplar. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	4
79	Thioredoxin f Confers Osmotic Stress Tolerance in Transgenic Tobacco. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	1
78	Genome-Wide Identification and Characterization of Hexokinase Genes in Moso Bamboo (). <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 600	6.2	3
77	<i>Populus euphratica</i> remorin 6.5 activates plasma membrane H <sup>+</sup> -ATPases to mediate salt tolerance. <i>Tree Physiology</i> , <b>2020</b> , 40, 731-745	4.2	5
76	Heterologous Expression of Three Dehydrin Genes Confers Abiotic Stress Tolerance in. <i>Plants</i> , <b>2020</b> , 9,	4.5	4
75	<i>Populus euphratica</i> WRKY1 binds the promoter of H <sup>+</sup> -ATPase gene to enhance gene expression and salt tolerance. <i>Journal of Experimental Botany</i> , <b>2020</b> , 71, 1527-1539	7	19
74	Phytochrome-interacting factors regulate seedling growth through ABA signaling. <i>Biochemical and Biophysical Research Communications</i> , <b>2020</b> , 526, 1100-1105	3.4	6
73	Genome-Wide Identification and Characterization of the UBP Gene Family in Moso Bamboo (). <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	4
72	Comprehensive evaluation of fuel properties and complex regulation of intracellular transporters for high oil production in developing seeds of for woody biodiesel. <i>Biotechnology for Biofuels</i> , <b>2019</b> , 12, 6	7.8	3
71	JRL Mediates ABA Response, Ionic and ROS Homeostasis in Arabidopsis under Salt Stress. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	3
70	Amelioration of nitrate uptake under salt stress by ectomycorrhiza with and without a Hartig net. <i>New Phytologist</i> , <b>2019</b> , 222, 1951-1964	9.8	21
69	Physiological and molecular mechanisms of heavy metal accumulation in nonmycorrhizal versus mycorrhizal plants. <i>Plant, Cell and Environment</i> , <b>2019</b> , 42, 1087-1103	8.4	56
68	Engineering Drought Resistance in Forest Trees. <i>Frontiers in Plant Science</i> , <b>2018</b> , 9, 1875	6.2	42
67	Natural and Synthetic Hydrophilic Polymers Enhance Salt and Drought Tolerance of <i>Metasequoia glyptostroboides</i> Hu and W.C.Cheng Seedlings. <i>Forests</i> , <b>2018</b> , 9, 643	2.8	1

66	The Arabidopsis Ca-Dependent Protein Kinase CPK12 Is Involved in Plant Response to Salt Stress. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	14
65	Proteomics reveal both photochemical and biochemical limitations involved in salt-induced suppression of photosynthesis in trees. <i>Tree Physiology</i> , <b>2018</b> , 38, 1599-1604	4.2	3
64	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> , <b>2018</b> , 9, 1366	6.2	22
63	The complete mitochondrial genome of a tertiary relict evergreen woody plant. <i>Mitochondrial DNA Part B: Resources</i> , <b>2017</b> , 3, 9-11	0.5	4
62	Populus euphratica J3 mediates root K <sup>+</sup> /Na <sup>+</sup> homeostasis by activating plasma membrane H <sup>+</sup> -ATPase in transgenic Arabidopsis under NaCl salinity. <i>Plant Cell, Tissue and Organ Culture</i> , <b>2017</b> , 131, 75-88	2.7	18
61	Salt-Sensitive Signaling Networks in the Mediation of K/Na Homeostasis Gene Expression in Roots. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 1403	6.2	17
60	Extracellular ATP mediates cellular K <sup>+</sup> /Na <sup>+</sup> homeostasis in two contrasting poplar species under NaCl stress. <i>Trees - Structure and Function</i> , <b>2016</b> , 30, 825-837	2.6	27
59	Heat shock responses in Populus euphratica cell cultures: important role of crosstalk among hydrogen peroxide, calcium and potassium. <i>Plant Cell, Tissue and Organ Culture</i> , <b>2016</b> , 125, 215-230	2.7	6
58	-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> , <b>2016</b> , 7, 1975	6.2	11
57	Exogenous Absciscic Acid Alleviates Cadmium Toxicity by Restricting Cd <sup>2+</sup> Influx in Populus euphratica Cells. <i>Journal of Plant Growth Regulation</i> , <b>2016</b> , 35, 827-837	4.7	43
56	NaCl-elicited, vacuolar Ca(2+) release facilitates prolonged cytosolic Ca(2+) signaling in the salt response of Populus euphratica cells. <i>Cell Calcium</i> , <b>2015</b> , 57, 348-65	4	21
55	High rates of virus-induced gene silencing by tobacco rattle virus in Populus. <i>Tree Physiology</i> , <b>2015</b> , 35, 1016-29	4.2	22
54	Overexpression of copper/zinc superoxide dismutase from mangrove Kandelia candel in tobacco enhances salinity tolerance by the reduction of reactive oxygen species in chloroplast. <i>Frontiers in Plant Science</i> , <b>2015</b> , 6, 23	6.2	38
53	Overexpression of a Populus trichocarpa H <sup>+</sup> -pyrophosphatase gene PtVP1.1 confers salt tolerance on transgenic poplar. <i>Tree Physiology</i> , <b>2015</b> , 35, 663-77	4.2	30
52	The Arabidopsis Ca <sup>2+</sup> -dependent protein kinase CPK27 is required for plant response to salt-stress. <i>Gene</i> , <b>2015</b> , 563, 203-14	3.8	28
51	Over-transcription of genes in a parathion-resistant strain of mosquito Culex pipiens quinquefasciatus. <i>Insect Science</i> , <b>2015</b> , 22, 150-6	3.6	8
50	Populus euphratica APYRASE2 Enhances Cold Tolerance by Modulating Vesicular Trafficking and Extracellular ATP in Arabidopsis Plants. <i>Plant Physiology</i> , <b>2015</b> , 169, 530-48	6.6	48
49	On the salty side of life: molecular, physiological and anatomical adaptation and acclimation of trees to extreme habitats. <i>Plant, Cell and Environment</i> , <b>2015</b> , 38, 1794-816	8.4	71

48	Angiotensin-converting enzymes modulate aphid-plant interactions. <i>Scientific Reports</i> , <b>2015</b> , 5, 8885	4.9	35
47	<i>Populus euphratica</i> HSF binds the promoter of WRKY1 to enhance salt tolerance. <i>Plant Science</i> , <b>2015</b> , 235, 89-100	5.3	25
46	Armet is an effector protein mediating aphid-plant interactions. <i>FASEB Journal</i> , <b>2015</b> , 29, 2032-45	0.9	62
45	Overexpression of the PtSOS2 gene improves tolerance to salt stress in transgenic poplar plants. <i>Plant Biotechnology Journal</i> , <b>2015</b> , 13, 962-73	11.6	33
44	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. <i>Aquatic Botany</i> , <b>2014</b> , 119, 33-43	1.8	31
43	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> , <b>2014</b> , 107, 113-124	5.9	52
42	Ion fluxes in <i>Paxillus involutus</i> -inoculated roots of <i>Populus bänescens</i> under saline stress. <i>Environmental and Experimental Botany</i> , <b>2014</b> , 108, 99-108	5.9	15
41	Quantitative X-ray Elemental Imaging in Plant Materials at the Subcellular Level with a Transmission Electron Microscope: Applications and Limitations. <i>Materials</i> , <b>2014</b> , 7, 3160-3175	3.5	7
40	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> , <b>2014</b> , 100, 74-83	5.9	36
39	Overexpression of PeHSF mediates leaf ROS homeostasis in transgenic tobacco lines grown under salt stress conditions. <i>Plant Cell, Tissue and Organ Culture</i> , <b>2013</b> , 115, 299-308	2.7	21
38	Overexpression of a poplar two-pore K <sup>+</sup> channel enhances salinity tolerance in tobacco cells. <i>Plant Cell, Tissue and Organ Culture</i> , <b>2013</b> , 112, 19-31	2.7	21
37	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> , <b>2013</b> , 65, 67-74	5.4	122
36	Overexpression of PeHA1 enhances hydrogen peroxide signaling in salt-stressed <i>Arabidopsis</i> . <i>Plant Physiology and Biochemistry</i> , <b>2013</b> , 71, 37-48	5.4	28
35	<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> , <b>2013</b> , 64, 4225-38	7	70
34	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> , <b>2013</b> , 33, 81-95	4.2	47
33	Transcriptome characterization and sequencing-based identification of salt-responsive genes in <i>Millettia pinnata</i> , a semi-mangrove plant. <i>DNA Research</i> , <b>2012</b> , 19, 195-207	4.5	62
32	Non-invasive flux measurements using microsensors: theory, limitations, and systems. <i>Methods in Molecular Biology</i> , <b>2012</b> , 913, 101-17	1.4	7
31	An ATP signalling pathway in plant cells: extracellular ATP triggers programmed cell death in <i>Populus euphratica</i> . <i>Plant, Cell and Environment</i> , <b>2012</b> , 35, 893-916	8.4	58

30	Extracellular ATP signaling and homeostasis in plant cells. <i>Plant Signaling and Behavior</i> , <b>2012</b> , 7, 566-9	2.5	14
29	Paxillus involutus strains MAJ and NAU mediate K(+)/Na(+) homeostasis in ectomycorrhizal Populus x canescens under sodium chloride stress. <i>Plant Physiology</i> , <b>2012</b> , 159, 1771-86	6.6	59
28	Arabidopsis fatty acid desaturase FAD2 is required for salt tolerance during seed germination and early seedling growth. <i>PLoS ONE</i> , <b>2012</b> , 7, e30355	3.7	110
27	Extracellular ATP signaling is mediated by H <sub>2</sub> O <sub>2</sub> and cytosolic Ca <sup>2+</sup> in the salt response of Populus euphratica cells. <i>PLoS ONE</i> , <b>2012</b> , 7, e53136	3.7	61
26	H <sub>2</sub> O <sub>2</sub> and cytosolic Ca <sup>2+</sup> signals triggered by the PM H-coupled transport system mediate K <sup>+</sup> /Na <sup>+</sup> homeostasis in NaCl-stressed Populus euphratica cells. <i>Plant, Cell and Environment</i> , <b>2010</b> , 33, 943-58	8.4	136
25	Effects of Stockosorb and Luquasorb polymers on salt and drought tolerance of Populus popularis. <i>Scientia Horticulturae</i> , <b>2010</b> , 124, 268-273	4.1	33
24	Agrobacterium-mediated transformation of durum wheat (Triticum turgidum L. var. durum cv Stewart) with improved efficiency. <i>Journal of Experimental Botany</i> , <b>2010</b> , 61, 1567-81	7	75
23	Salinity tolerance of Populus. <i>Plant Biology</i> , <b>2010</b> , 12, 317-33	3.7	166
22	Effect of NaCl on leaf H <sup>+</sup> -ATPase and the relevance to salt tolerance in two contrasting poplar species. <i>Trees - Structure and Function</i> , <b>2010</b> , 24, 597-607	2.6	14
21	Hydrogen peroxide and nitric oxide mediate K <sup>+</sup> /Na <sup>+</sup> homeostasis and antioxidant defense in NaCl-stressed callus cells of two contrasting poplars. <i>Plant Cell, Tissue and Organ Culture</i> , <b>2010</b> , 103, 205-215	2.7	78
20	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> , <b>2010</b> , 73, 251-69	4.6	115
19	Ion flux profiles and plant ion homeostasis control under salt stress. <i>Plant Signaling and Behavior</i> , <b>2009</b> , 4, 261-4	2.5	29
18	Calcium mediates root K <sup>+</sup> /Na <sup>+</sup> homeostasis in poplar species differing in salt tolerance. <i>Tree Physiology</i> , <b>2009</b> , 29, 1175-86	4.2	136
17	NaCl-induced alternations of cellular and tissue ion fluxes in roots of salt-resistant and salt-sensitive poplar species. <i>Plant Physiology</i> , <b>2009</b> , 149, 1141-53	6.6	253
16	Quantitative X-ray microanalysis of hydrogen peroxide within plant cells. <i>Microscopy Research and Technique</i> , <b>2009</b> , 72, 49-60	2.8	12
15	Absciscic Acid, Calmodulin Response to Short Term and Long Term Salinity and the Relevance to NaCl-induced Antioxidant Defense in Two Mangrove Species. <i>The Open Forest Science Journal</i> , <b>2009</b> , 2, 48-58		3
14	Effect of NaCl on photosynthesis, salt accumulation and ion compartmentation in two mangrove species, Kandelia candel and Bruguiera gymnorhiza. <i>Aquatic Botany</i> , <b>2008</b> , 88, 303-310	1.8	59
13	Ionic homeostasis and reactive oxygen species control in leaves and xylem sap of two poplars subjected to NaCl stress. <i>Tree Physiology</i> , <b>2008</b> , 28, 947-57	4.2	93

12	Effect of NaCl on growth and ion relations in two salt-tolerant strains of <i>Paxillus involutus</i> . <i>Forestry Studies in China</i> , <b>2008</b> , 10, 95-100		4
11	Leaf photosynthesis, fluorescence response to salinity and the relevance to chloroplast salt compartmentation and anti-oxidative stress in two poplars. <i>Trees - Structure and Function</i> , <b>2007</b> , 21, 581-591	2.6	81
10	Isolation of protoplast from callus of <i>Populus euphratica</i> and H <sup>+</sup> fluxes across plasma membrane under NaCl stress. <i>Forestry Studies in China</i> , <b>2007</b> , 9, 198-202		1
9	Genotypic Differences in Antioxidative Stress and Salt Tolerance of Three Poplars Under Salt Stress. <i>Frontiers of Forestry in China: Selected Publications From Chinese Universities</i> , <b>2006</b> , 1, 82-88		13
8	Growth, Gas Exchange, Absciscic Acid, and Calmodulin Response to Salt Stress in Three Poplars. <i>Journal of Integrative Plant Biology</i> , <b>2006</b> , 48, 286-293	8.3	29
7	Hydrogel modified uptake of salt ions and calcium in <i>Populus euphratica</i> under saline conditions. <i>Trees - Structure and Function</i> , <b>2004</b> , 18, 175-183	2.6	37
6	Effects of NaCl on shoot growth, transpiration, ion compartmentation, and transport in regenerated plants of <i>Populus euphratica</i> and <i>Populus tomentosa</i> . <i>Canadian Journal of Forest Research</i> , <b>2003</b> , 33, 967-975	1.9	103
5	Osmotic Stress and Ion-Specific Effects on Xylem Absciscic Acid and the Relevance to Salinity Tolerance in Poplar. <i>Journal of Plant Growth Regulation</i> , <b>2002</b> , 21, 224-233	4.7	56
4	Xylem abscisic acid accelerates leaf abscission by modulating polyamine and ethylene synthesis in water-stressed intact poplar. <i>Trees - Structure and Function</i> , <b>2002</b> , 16, 16-22	2.6	15
3	Sodium and chloride distribution in roots and transport in three poplar genotypes under increasing NaCl stress. <i>Forest Ecology and Management</i> , <b>2002</b> , 168, 217-230	3.9	119
2	Salt, nutrient uptake and transport, and ABA of <i>Populus euphratica</i> ; a hybrid in response to increasing soil NaCl. <i>Trees - Structure and Function</i> , <b>2001</b> , 15, 186-194	2.6	141
1	Genotypic variation in drought tolerance of poplar in relation to abscisic acid. <i>Tree Physiology</i> , <b>1997</b> , 17, 797-803	4.2	51