

# Honghong Wu

## 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.

51  
papers

2,253  
citations

25  
h-index

47  
g-index

57  
ext. papers

3,179  
ext. citations

6.5  
avg, IF

5.91  
L-index

#	Paper	IF	Citations
51	Plant Salinity Stress Response and Nano-Enabled Plant Salt Tolerance.. <i>Frontiers in Plant Science</i> , <b>2022</b> , 13, 843994	6.2	2
50	CeO nanoparticles improved cucumber salt tolerance is associated with its induced early stimulation on antioxidant system.. <i>Chemosphere</i> , <b>2022</b> , 134474	8.4	4
49	Cerium oxide nanoparticles improve cotton salt tolerance by enabling better ability to maintain cytosolic K/Na ratio. <i>Journal of Nanobiotechnology</i> , <b>2021</b> , 19, 153	9.4	23
48	Recent advances in nano-enabled agriculture for improving plant performance. <i>Crop Journal</i> , <b>2021</b> ,	4.6	11
47	Calcium channels and transporters in plants under salinity stress <b>2021</b> , 157-169		2
46	ROS Homeostasis and Plant Salt Tolerance: Plant Nanobiotechnology Updates. <i>Sustainability</i> , <b>2021</b> , 13, 3552	3.6	16
45	Nanoceria seed priming enhanced salt tolerance in rapeseed through modulating ROS homeostasis and α-amylase activities. <i>Journal of Nanobiotechnology</i> , <b>2021</b> , 19, 276	9.4	11
44	Higher ROS scavenging ability and plasma membrane H <sup>+</sup> -ATPase activity are associated with potassium retention in drought tolerant tea plants. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2020</b> , 183, 406-415	2.3	0
43	Emerging investigator series: molecular mechanisms of plant salinity stress tolerance improvement by seed priming with cerium oxide nanoparticles. <i>Environmental Science: Nano</i> , <b>2020</b> , 7, 2214-2228	7.1	45
42	Chloride and amino acids are associated with K-alleviated drought stress in tea ( <i>Camellia sinensis</i> ). <i>Functional Plant Biology</i> , <b>2020</b> , 47, 398-408	2.7	7
41	Nanoparticle Charge and Size Control Foliar Delivery Efficiency to Plant Cells and Organelles. <i>ACS Nano</i> , <b>2020</b> , 14, 7970-7986	16.7	84
40	Monitoring Plant Health with Near-Infrared Fluorescent HO Nanosensors. <i>Nano Letters</i> , <b>2020</b> , 20, 2432-2443	14.3	54
39	Nano-Biotechnology in Agriculture: Use of Nanomaterials to Promote Plant Growth and Stress Tolerance. <i>Journal of Agricultural and Food Chemistry</i> , <b>2020</b> , 68, 1935-1947	5.7	175
38	Targeted delivery of nanomaterials with chemical cargoes in plants enabled by a biorecognition motif. <i>Nature Communications</i> , <b>2020</b> , 11, 2045	17.4	46
37	Seed priming with gibberellic acid and melatonin in rapeseed: Consequences for improving yield and seed quality under drought and non-stress conditions. <i>Industrial Crops and Products</i> , <b>2020</b> , 156, 112858	5.8	24
36	Mesophyll cells ability to maintain potassium is correlated with drought tolerance in tea ( <i>Camellia sinensis</i> ). <i>Plant Physiology and Biochemistry</i> , <b>2019</b> , 136, 196-203	5.4	15
35	Nanobiotechnology approaches for engineering smart plant sensors. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 541-553	28.7	195

34	Root vacuolar Na sequestration but not exclusion from uptake correlates with barley salt tolerance. <i>Plant Journal</i> , <b>2019</b> , 100, 55-67	6.9	38
33	Efficient iron plaque formation on tea ( <i>Camellia sinensis</i> ) roots contributes to acidic stress tolerance. <i>Journal of Integrative Plant Biology</i> , <b>2019</b> , 61, 155-167	8.3	6
32	The Importance of Cl Exclusion and Vacuolar Cl Sequestration: Revisiting the Role of Cl Transport in Plant Salt Tolerance. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 1418	6.2	26
31	Plant salt tolerance and Na <sup>+</sup> sensing and transport. <i>Crop Journal</i> , <b>2018</b> , 6, 215-225	4.6	107
30	Standoff Optical Glucose Sensing in Photosynthetic Organisms by a Quantum Dot Fluorescent Probe. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 28279-28289	9.5	34
29	Maintenance of mesophyll potassium and regulation of plasma membrane H <sup>+</sup> -ATPase are associated with physiological responses of tea plants to drought and subsequent rehydration. <i>Crop Journal</i> , <b>2018</b> , 6, 611-620	4.6	37
28	Na <sup>+</sup> extrusion from the cytosol and tissue-specific Na <sup>+</sup> sequestration in roots confer differential salt stress tolerance between durum and bread wheat. <i>Journal of Experimental Botany</i> , <b>2018</b> , 69, 3987-4001	7.0	46
27	It is not all about sodium: revealing tissue specificity and signalling roles of potassium in plant responses to salt stress. <i>Plant and Soil</i> , <b>2018</b> , 431, 1-17	4.2	129
26	Root plasma membrane H <sup>+</sup> -ATPase is involved in low pH-inhibited nitrogen accumulation in tea plants ( <i>Camellia sinensis</i> L.). <i>Plant Growth Regulation</i> , <b>2018</b> , 86, 423-432	3.2	6
25	Catalytic Scavenging of Plant Reactive Oxygen Species In Vivo by Anionic Cerium Oxide Nanoparticles. <i>Journal of Visualized Experiments</i> , <b>2018</b> ,	1.6	10
24	Hydroxyl radical scavenging by cerium oxide nanoparticles improves Arabidopsis salinity tolerance by enhancing leaf mesophyll potassium retention. <i>Environmental Science: Nano</i> , <b>2018</b> , 5, 1567-1583	7.1	95
23	In Vivo Delivery of Nanoparticles into Plant Leaves. <i>Current Protocols in Chemical Biology</i> , <b>2017</b> , 9, 269-284	8.4	20
22	Anionic Cerium Oxide Nanoparticles Protect Plant Photosynthesis from Abiotic Stress by Scavenging Reactive Oxygen Species. <i>ACS Nano</i> , <b>2017</b> , 11, 11283-11297	16.7	177
21	Targeting the middle region of CP4-EPSPS protein for its traceability in highly processed soy-related products. <i>Journal of Food Science and Technology</i> , <b>2017</b> , 54, 3142-3151	3.3	2
20	Cell-Type-Specific H <sup>+</sup> -ATPase Activity in Root Tissues Enables K <sup>+</sup> Retention and Mediates Acclimation of Barley ( <i>Hordeum vulgare</i> ) to Salinity Stress. <i>Plant Physiology</i> , <b>2016</b> , 172, 2445-2458	6.6	99
19	Al(3 <sup>+</sup> ) -promoted fluoride accumulation in tea plants ( <i>Camellia sinensis</i> ) was inhibited by an anion channel inhibitor DIDS. <i>Journal of the Science of Food and Agriculture</i> , <b>2016</b> , 96, 4224-30	4.3	11
18	Anion Channel Inhibitor NPPB-Inhibited Fluoride Accumulation in Tea Plant ( <i>Camellia sinensis</i> ) Is Related to the Regulation of Ca <sup>2+</sup> , CaM and Depolarization of Plasma Membrane Potential. <i>International Journal of Molecular Sciences</i> , <b>2016</b> , 17,	6.3	13
17	Linking salinity stress tolerance with tissue-specific Na(+) sequestration in wheat roots. <i>Frontiers in Plant Science</i> , <b>2015</b> , 6, 71	6.2	65

16	Chloroplast-generated ROS dominate NaCl(-) induced K(+) efflux in wheat leaf mesophyll. <i>Plant Signaling and Behavior</i> , <b>2015</b> , 10, e1013793	2.5	15
15	Ca(2+) and CaM are involved in Al(3+) pretreatment-promoted fluoride accumulation in tea plants ( <i>Camellia sinensis</i> L.). <i>Plant Physiology and Biochemistry</i> , <b>2015</b> , 96, 288-95	5.4	25
14	Salt stress sensing and early signalling events in plant roots: Current knowledge and hypothesis. <i>Plant Science</i> , <b>2015</b> , 241, 109-19	5.3	109
13	K+ retention in leaf mesophyll, an overlooked component of salinity tolerance mechanism: a case study for barley. <i>Journal of Integrative Plant Biology</i> , <b>2015</b> , 57, 171-85	8.3	98
12	Developing and validating a high-throughput assay for salinity tissue tolerance in wheat and barley. <i>Planta</i> , <b>2015</b> , 242, 847-57	4.7	24
11	MIFE Technique-based Screening for Mesophyll K+ Retention for Crop Breeding for Salinity Tolerance. <i>Bio-protocol</i> , <b>2015</b> , 5,	0.9	2
10	Durum and bread wheat differ in their ability to retain potassium in leaf mesophyll: implications for salinity stress tolerance. <i>Plant and Cell Physiology</i> , <b>2014</b> , 55, 1749-62	4.9	40
9	Ability of leaf mesophyll to retain potassium correlates with salinity tolerance in wheat and barley. <i>Physiologia Plantarum</i> , <b>2013</b> , 149, 515-27	4.6	88
8	The combination of quantitative PCR and western blot detecting CP4-EPSPS component in Roundup Ready soy plant tissues and commercial soy-related foodstuffs. <i>Journal of Food Science</i> , <b>2012</b> , 77, C603-8	3.4	10
7	Presence of CP4-EPSPS component in roundup ready soybean-derived food products. <i>International Journal of Molecular Sciences</i> , <b>2012</b> , 13, 1919-32	6.3	11
6	Haem oxygenase-1 is involved in salicylic acid-induced alleviation of oxidative stress due to cadmium stress in <i>Medicago sativa</i> . <i>Journal of Experimental Botany</i> , <b>2012</b> , 63, 5521-34	7	64
5	Cadmium-induced heme oxygenase-1 gene expression is associated with the depletion of glutathione in the roots of <i>Medicago sativa</i> . <i>BioMetals</i> , <b>2011</b> , 24, 93-103	3.4	53
4	Endogenous hydrogen peroxide plays a positive role in the upregulation of heme oxygenase and acclimation to oxidative stress in wheat seedling leaves. <i>Journal of Integrative Plant Biology</i> , <b>2009</b> , 51, 951-60	8.3	61
3	CeO <sub>2</sub> nanoparticles modulate CuZn superoxide dismutase and lipoxygenase-IV isozyme activities to alleviate membrane oxidative damage to improve rapeseed salt tolerance. <i>Environmental Science: Nano</i> ,	7.1	2
2	Molecular basis of cerium oxide nanoparticle enhancement of rice salt tolerance and yield. <i>Environmental Science: Nano</i> ,	7.1	6
1	CeO <sub>2</sub> Nanoparticles Seed Priming Increases Salicylic Acid Level and ROS Scavenging Ability to Improve Rapeseed Salt Tolerance. <i>Global Challenges</i> , 2200025	4.3	0