Honghong Wu

List of Publications by Citations

51	2,253	25	47
papers	citations	h-index	g-index
57	3,179	6.5	5.91
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
51	Nanobiotechnology approaches for engineering smart plant sensors. *Nature Nanotechnology*, **2019**, 14, 541-553	28.7	195
50	Anionic Cerium Oxide Nanoparticles Protect Plant Photosynthesis from Abiotic Stress by Scavenging Reactive Oxygen Species. *ACS Nano*, **2017**, 11, 11283-11297	16.7	177
49	Nano-Biotechnology in Agriculture: Use of Nanomaterials to Promote Plant Growth and Stress Tolerance. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 1935-1947	5.7	175
48	It is not all about sodium: revealing tissue specificity and signalling roles of potassium in plant responses to salt stress. *Plant and Soil*, **2018**, 431, 1-17	4.2	129
47	Salt stress sensing and early signalling events in plant roots: Current knowledge and hypothesis. *Plant Science*, **2015**, 241, 109-19	5.3	109
46	Plant salt tolerance and Na+ sensing and transport. *Crop Journal*, **2018**, 6, 215-225	4.6	107
45	Cell-Type-Specific H+-ATPase Activity in Root Tissues Enables K+ Retention and Mediates Acclimation of Barley (Hordeum vulgare) to Salinity Stress. *Plant Physiology*, **2016**, 172, 2445-2458	6.6	99
44	K+ retention in leaf mesophyll, an overlooked component of salinity tolerance mechanism: a case study for barley. *Journal of Integrative Plant Biology*, **2015**, 57, 171-85	8.3	98
43	Hydroxyl radical scavenging by cerium oxide nanoparticles improves Arabidopsis salinity tolerance by enhancing leaf mesophyll potassium retention. *Environmental Science: Nano*, **2018**, 5, 1567-1583	7.1	95
42	Ability of leaf mesophyll to retain potassium correlates with salinity tolerance in wheat and barley. *Physiologia Plantarum*, **2013**, 149, 515-27	4.6	88
41	Nanoparticle Charge and Size Control Foliar Delivery Efficiency to Plant Cells and Organelles. *ACS Nano*, **2020**, 14, 7970-7986	16.7	84
40	Linking salinity stress tolerance with tissue-specific Na(+) sequestration in wheat roots. *Frontiers in Plant Science*, **2015**, 6, 71	6.2	65
39	Haem oxygenase-1 is involved in salicylic acid-induced alleviation of oxidative stress due to cadmium stress in Medicago sativa. *Journal of Experimental Botany*, **2012**, 63, 5521-34	7	64
38	Endogenous hydrogen peroxide plays a positive role in the upregulation of heme oxygenase and acclimation to oxidative stress in wheat seedling leaves. *Journal of Integrative Plant Biology*, **2009**, 51, 951-60	8.3	61
37	Monitoring Plant Health with Near-Infrared Fluorescent HO Nanosensors. *Nano Letters*, **2020**, 20, 2432-2443	[illegible]	54
36	Cadmium-induced heme oxygenase-1 gene expression is associated with the depletion of glutathione in the roots of Medicago sativa. *BioMetals*, **2011**, 24, 93-103	3.4	53
35	Targeted delivery of nanomaterials with chemical cargoes in plants enabled by a biorecognition motif. *Nature Communications*, **2020**, 11, 2045	17.4	46

34	Na+ extrusion from the cytosol and tissue-specific Na+ sequestration in roots confer differential salt stress tolerance between durum and bread wheat. *Journal of Experimental Botany*, **2018**, 69, 3987-4001	7	46
33	Emerging investigator series: molecular mechanisms of plant salinity stress tolerance improvement by seed priming with cerium oxide nanoparticles. *Environmental Science: Nano*, **2020**, 7, 2214-2228	7.1	45
32	Durum and bread wheat differ in their ability to retain potassium in leaf mesophyll: implications for salinity stress tolerance. *Plant and Cell Physiology*, **2014**, 55, 1749-62	4.9	40
31	Root vacuolar Na sequestration but not exclusion from uptake correlates with barley salt tolerance. *Plant Journal*, **2019**, 100, 55-67	6.9	38
30	Maintenance of mesophyll potassium and regulation of plasma membrane H+-ATPase are associated with physiological responses of tea plants to drought and subsequent rehydration. *Crop Journal*, **2018**, 6, 611-620	4.6	37
29	Standoff Optical Glucose Sensing in Photosynthetic Organisms by a Quantum Dot Fluorescent Probe. *ACS Applied Materials & Interfaces*, **2018**, 10, 28279-28289	9.5	34
28	The Importance of Cl Exclusion and Vacuolar Cl Sequestration: Revisiting the Role of Cl Transport in Plant Salt Tolerance. *Frontiers in Plant Science*, **2019**, 10, 1418	6.2	26
27	Ca(2+) and CaM are involved in Al(3+) pretreatment-promoted fluoride accumulation in tea plants (Camellia sinesis L.). *Plant Physiology and Biochemistry*, **2015**, 96, 288-95	5.4	25
26	Developing and validating a high-throughput assay for salinity tissue tolerance in wheat and barley. *Planta*, **2015**, 242, 847-57	4.7	24
25	Seed priming with gibberellic acid and melatonin in rapeseed: Consequences for improving yield and seed quality under drought and non-stress conditions. *Industrial Crops and Products*, **2020**, 156, 112850	5.9	24
24	Cerium oxide nanoparticles improve cotton salt tolerance by enabling better ability to maintain cytosolic K/Na ratio. *Journal of Nanobiotechnology*, **2021**, 19, 153	9.4	23
23	In Vivo Delivery of Nanoparticles into Plant Leaves. *Current Protocols in Chemical Biology*, **2017**, 9, 269-284	4.8	20
22	ROS Homeostasis and Plant Salt Tolerance: Plant Nanobiotechnology Updates. *Sustainability*, **2021**, 13, 3552	3.6	16
21	Mesophyll cellsTability to maintain potassium is correlated with drought tolerance in tea (Camellia sinensis). *Plant Physiology and Biochemistry*, **2019**, 136, 196-203	5.4	15
20	Chloroplast-generated ROS dominate NaCl(-) induced K(+) efflux in wheat leaf mesophyll. *Plant Signaling and Behavior*, **2015**, 10, e1013793	2.5	15
19	Anion Channel Inhibitor NPPB-Inhibited Fluoride Accumulation in Tea Plant (Camellia sinensis) Is Related to the Regulation of Ca□+, CaM and Depolarization of Plasma Membrane Potential. *International Journal of Molecular Sciences*, **2016**, 17,	6.3	13
18	Al(3+) -promoted fluoride accumulation in tea plants (Camellia sinensis) was inhibited by an anion channel inhibitor DIDS. *Journal of the Science of Food and Agriculture*, **2016**, 96, 4224-30	4.3	11
17	Presence of CP4-EPSPS component in roundup ready soybean-derived food products. *International Journal of Molecular Sciences*, **2012**, 13, 1919-32	6.3	11

16	Recent advances in nano-enabled agriculture for improving plant performance. *Crop Journal*, **2021**,	4.6	11
15	Nanoceria seed priming enhanced salt tolerance in rapeseed through modulating ROS homeostasis and □amylase activities. *Journal of Nanobiotechnology*, **2021**, 19, 276	9.4	11
14	The combination of quantitative PCR and western blot detecting CP4-EPSPS component in Roundup Ready soy plant tissues and commercial soy-related foodstuffs. *Journal of Food Science*, **2012**, 77, C603-8	3.4	10
13	Catalytic Scavenging of Plant Reactive Oxygen Species In Vivo by Anionic Cerium Oxide Nanoparticles. *Journal of Visualized Experiments*, **2018**,	1.6	10
12	Chloride and amino acids are associated with K-alleviated drought stress in tea (Camellia sinesis). *Functional Plant Biology*, **2020**, 47, 398-408	2.7	7
11	Efficient iron plaque formation on tea (Camellia sinensis) roots contributes to acidic stress tolerance. *Journal of Integrative Plant Biology*, **2019**, 61, 155-167	8.3	6
10	Root plasma membrane H+-ATPase is involved in low pH-inhibited nitrogen accumulation in tea plants (Camellia sinensis L.). *Plant Growth Regulation*, **2018**, 86, 423-432	3.2	6
9	Molecular basis of cerium oxide nanoparticle enhancement of rice salt tolerance and yield. *Environmental Science: Nano*,	7.1	6
8	CeO nanoparticles improved cucumber salt tolerance is associated with its induced early stimulation on antioxidant system.. *Chemosphere*, **2022**, 134474	8.4	4
7	Targeting the middle region of CP4-EPSPS protein for its traceability in highly processed soy-related products. *Journal of Food Science and Technology*, **2017**, 54, 3142-3151	3.3	2
6	CeO2 nanoparticles modulate Cu□n superoxide dismutase and lipoxygenase-IV isozyme activities to alleviate membrane oxidative damage to improve rapeseed salt tolerance. *Environmental Science: Nano*,	7.1	2
5	MIFE Technique-based Screening for Mesophyll K+ Retention for Crop Breeding for Salinity Tolerance. *Bio-protocol*, **2015**, 5,	0.9	2
4	Calcium channels and transporters in plants under salinity stress **2021**, 157-169		2
3	Plant Salinity Stress Response and Nano-Enabled Plant Salt Tolerance.. *Frontiers in Plant Science*, **2022**, 13, 843994	6.2	2
2	Higher ROS scavenging ability and plasma membrane H+-ATPase activity are associated with potassium retention in drought tolerant tea plants. *Journal of Plant Nutrition and Soil Science*, **2020**, 183, 406-415	2.3	0
1	CeO 2 Nanoparticles Seed Priming Increases Salicylic Acid Level and ROS Scavenging Ability to Improve Rapeseed Salt Tolerance. *Global Challenges*,2200025	4.3	0