

Honghong Wu

List of Publications by Year in descending order

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55
papers

4,143
citations

159525

30
h-index

161767

54
g-index

57
all docs

57
docs citations

57
times ranked

3617
citing authors

#	ARTICLE	IF	CITATIONS
1	Nano-Biotechnology in Agriculture: Use of Nanomaterials to Promote Plant Growth and Stress Tolerance. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 1935-1947.	2.4	363
2	Nanobiotechnology approaches for engineering smart plant sensors. <i>Nature Nanotechnology</i> , 2019, 14, 541-553.	15.6	337
3	Anionic Cerium Oxide Nanoparticles Protect Plant Photosynthesis from Abiotic Stress by Scavenging Reactive Oxygen Species. <i>ACS Nano</i> , 2017, 11, 11283-11297.	7.3	307
4	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> , 2018, 431, 1-17.	1.8	245
5	Nanoparticle Charge and Size Control Foliar Delivery Efficiency to Plant Cells and Organelles. <i>ACS Nano</i> , 2020, 14, 7970-7986.	7.3	204
6	Salt stress sensing and early signalling events in plant roots: Current knowledge and hypothesis. <i>Plant Science</i> , 2015, 241, 109-119.	1.7	189
7	Plant salt tolerance and Na ⁺ sensing and transport. <i>Crop Journal</i> , 2018, 6, 215-225.	2.3	182
8	Cell-Type-Specific H ⁺ -ATPase Activity in Root Tissues Enables K ⁺ Retention and Mediates Acclimation of Barley (<i>Hordeum vulgare</i>) to Salinity Stress. <i>Plant Physiology</i> , 2016, 172, 2445-2458.	2.3	158
9	Hydroxyl radical scavenging by cerium oxide nanoparticles improves <i>Arabidopsis</i> salinity tolerance by enhancing leaf mesophyll potassium retention. <i>Environmental Science: Nano</i> , 2018, 5, 1567-1583.	2.2	147
10	Monitoring Plant Health with Near-Infrared Fluorescent H ₂ O ₂ Nanosensors. <i>Nano Letters</i> , 2020, 20, 2432-2442.	4.5	142
11	K ⁺ retention in leaf mesophyll, an overlooked component of salinity tolerance mechanism: A case study for barley. <i>Journal of Integrative Plant Biology</i> , 2015, 57, 171-185.	4.1	132
12	Ability of leaf mesophyll to retain potassium correlates with salinity tolerance in wheat and barley. <i>Physiologia Plantarum</i> , 2013, 149, 515-527.	2.6	113
13	Targeted delivery of nanomaterials with chemical cargoes in plants enabled by a biorecognition motif. <i>Nature Communications</i> , 2020, 11, 2045.	5.8	107
14	Emerging investigator series: molecular mechanisms of plant salinity stress tolerance improvement by seed priming with cerium oxide nanoparticles. <i>Environmental Science: Nano</i> , 2020, 7, 2214-2228.	2.2	97
15	Linking salinity stress tolerance with tissue-specific Na ⁺ sequestration in wheat roots. <i>Frontiers in Plant Science</i> , 2015, 6, 71.	1.7	86
16	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> , 2012, 63, 5521-5534.	2.4	80
17	Root vacuolar Na ⁺ sequestration but not exclusion from uptake correlates with barley salt tolerance. <i>Plant Journal</i> , 2019, 100, 55-67.	2.8	80
18	Na ⁺ extrusion from the cytosol and tissue-specific Na ⁺ sequestration in roots confer differential salt stress tolerance between durum and bread wheat. <i>Journal of Experimental Botany</i> , 2018, 69, 3987-4001.	2.4	73

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19	Cerium oxide nanoparticles improve cotton salt tolerance by enabling better ability to maintain cytosolic K ⁺ /Na ⁺ ratio. <i>Journal of Nanobiotechnology</i> , 2021, 19, 153.	4.2	71
20	Recent advances in nano-enabled agriculture for improving plant performance. <i>Crop Journal</i> , 2022, 10, 1-12.	2.3	68
21	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> , 2009, 51, 951-960.	4.1	67
22	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> , 2020, 156, 112850.	2.5	63
23	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> , 2011, 24, 93-103.	1.8	60
24	ROS Homeostasis and Plant Salt Tolerance: Plant Nanobiotechnology Updates. <i>Sustainability</i> , 2021, 13, 3552.	1.6	59
25	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> , 2019, 10, 1418.	1.7	56
26	Nano-enabled agriculture: How do nanoparticles cross barriers in plants?. <i>Plant Communications</i> , 2022, 3, 100346.	3.6	54
27	Maintenance of mesophyll potassium and regulation of plasma membrane H ⁺ -ATPase are associated with physiological responses of tea plants to drought and subsequent rehydration. <i>Crop Journal</i> , 2018, 6, 611-620.	2.3	53
28	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> , 2014, 55, 1749-1762.	1.5	48
29	Nanoceria seed priming enhanced salt tolerance in rapeseed through modulating ROS homeostasis and Î±-amylase activities. <i>Journal of Nanobiotechnology</i> , 2021, 19, 276.	4.2	47
30	Standoff Optical Glucose Sensing in Photosynthetic Organisms by a Quantum Dot Fluorescent Probe. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 28279-28289.	4.0	45
31	Molecular basis of cerium oxide nanoparticle enhancement of rice salt tolerance and yield. <i>Environmental Science: Nano</i> , 2021, 8, 3294-3311.	2.2	36
32	Ca ²⁺ and CaM are involved in Al ³⁺ pretreatment-promoted fluoride accumulation in tea plants (<i>Camellia sinensis</i>). <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 1050-1055.	2.8	30
33	<i>In Vivo</i> Delivery of Nanoparticles into Plant Leaves. <i>Current Protocols in Chemical Biology</i> , 2017, 9, 269-284.	1.7	28
34	Carbon-Based Nanomaterials for Sustainable Agriculture: Their Application as Light Converters, Nanosensors, and Delivery Tools. <i>Plants</i> , 2022, 11, 511.	1.6	28
35	Mesophyll cells' ability to maintain potassium is correlated with drought tolerance in tea (<i>Camellia sinensis</i>). <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 1078-1084.	2.8	27
36	Developing and validating a high-throughput assay for salinity tissue tolerance in wheat and barley. <i>Planta</i> , 2015, 242, 847-857.	1.6	26

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37	Chloroplast-generated ROS dominate NaCl-induced K ⁺ efflux in wheat leaf mesophyll. <i>Plant Signaling and Behavior</i> , 2015, 10, e1013793.	1.2	23
38	Plant Salinity Stress Response and Nano-Enabled Plant Salt Tolerance. <i>Frontiers in Plant Science</i> , 2022, 13, 843994.	1.7	22
39	CeO ₂ nanoparticles improved cucumber salt tolerance is associated with its induced early stimulation on antioxidant system. <i>Chemosphere</i> , 2022, 299, 134474.	4.2	22
40	Anion Channel Inhibitor NPPB-Inhibited Fluoride Accumulation in Tea Plant (<i>Camellia sinensis</i>) Is Related to the Regulation of Ca ²⁺ , CaM and Depolarization of Plasma Membrane Potential. <i>International Journal of Molecular Sciences</i> , 2016, 17, 57.	1.8	17
41	Al ³⁺ -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> , 2016, 96, 4224-4230.	1.7	17
42	Catalytic Scavenging of Plant Reactive Oxygen Species & In Vivo by Anionic Cerium Oxide Nanoparticles. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	17
43	Chloride and amino acids are associated with K ⁺ -alleviated drought stress in tea (<i>Camellia sinensis</i>). <i>Functional Plant Biology</i> , 2020, 47, 398.	1.1	16
44	CeO ₂ Nanoparticles Seed Priming Increases Salicylic Acid Level and ROS Scavenging Ability to Improve Rapeseed Salt Tolerance. <i>Global Challenges</i> , 2022, 6, .	1.8	16
45	CeO ₂ nanoparticles modulate Cu ²⁺ Zn superoxide dismutase and lipoxygenase-IV isozyme activities to alleviate membrane oxidative damage to improve rapeseed salt tolerance. <i>Environmental Science: Nano</i> , 2022, 9, 1116-1132.	2.2	13
46	Presence of CP4-EPSPS Component in Roundup Ready Soybean-Derived Food Products. <i>International Journal of Molecular Sciences</i> , 2012, 13, 1919-1932.	1.8	12
47	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> , 2012, 77, C603-8.	1.5	12
48	Root plasma membrane H ⁺ -ATPase is involved in low pH-inhibited nitrogen accumulation in tea plants (<i>Camellia sinensis</i> L.). <i>Plant Growth Regulation</i> , 2018, 86, 423-432.	1.8	12
49	Editorial: New Insights Into Salinity Sensing, Signaling and Adaptation in Plants. <i>Frontiers in Plant Science</i> , 2020, 11, 604139.	1.7	12
50	Efficient iron plaque formation on tea (<i>Camellia sinensis</i>) roots contributes to acidic stress tolerance. <i>Journal of Integrative Plant Biology</i> , 2019, 61, 155-167.	4.1	7
51	Higher ROS scavenging ability and plasma membrane H ⁺ -ATPase activity are associated with potassium retention in drought tolerant tea plants. <i>Journal of Plant Nutrition and Soil Science</i> , 2020, 183, 406-415.	1.1	4
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55	MIFE Technique-based Screening for Mesophyll K+ Retention for Crop Breeding for Salinity Tolerance. Bio-protocol, 2015, 5, .	0.2	2