Wei-Hua Wu

List of Publications by Year
in descending order

43	5,939	136950 32	254184 43
papers	citations	h-index	g-index

44	44	44	5094
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Two calciumâ€dependent protein kinases enhance maize drought tolerance by activating anion channel ZmSLAC1 in guard cells. Plant Biotechnology Journal, 2022, 20, 143-157.	8.3	23
2	STOP1 Regulates LKS1 Transcription and Coordinates K+/NH4+ Balance in Arabidopsis Response to Low-K+ Stress. International Journal of Molecular Sciences, 2022, 23, 383.	4.1	8
3	Potassium and phosphorus transport and signaling in plants. Journal of Integrative Plant Biology, 2021, 63, 34-52.	8.5	167
4	A potassium-sensing niche in Arabidopsis roots orchestrates signaling and adaptation responses to maintain nutrient homeostasis. Developmental Cell, 2021, 56, 781-794.e6.	7.0	29
5	Phosphorylation at Ser28 stabilizes the <i>Arabidopsis</i> nitrate transporter NRT2.1 in response to nitrate limitation. Journal of Integrative Plant Biology, 2020, 62, 865-876.	8.5	22
6	<scp>KUP</scp> 9 maintains root meristem activity by regulating K ⁺ and auxin homeostasis in response to low K. EMBO Reports, 2020, 21, e50164.	4.5	43
7	CALCIUM-DEPENDENT PROTEIN KINASE 32-mediated phosphorylation is essential for the ammonium transport activity of AMT1;1 in Arabidopsis roots. Journal of Experimental Botany, 2020, 71, 5087-5097.	4.8	21
8	The Shenzhen declaration on plant sciencesâ€"Uniting plant sciences and society to build a green, sustainable Earth. Plants People Planet, 2019, 1, 59-61.	3.3	12
9	The Transcription Factor MYB59 Regulates K⁺/NO₃^{â^'} Translocation in the Arabidopsis Response to Low K⁺ Stress. Plant Cell, 2019, 31, 699-714.	6.6	100
10	ZmHAK5 and ZmHAK1 function in K⁺ uptake and distribution in maize under low K⁺ conditions. Journal of Integrative Plant Biology, 2019, 61, 691-705.	8.5	61
11	Electrophysiological Identification and Activity Analyses of Plasma Membrane K+ Channels in Maize Guard Cells. Plant and Cell Physiology, 2019, 60, 765-777.	3.1	6
12	The Ubiquitin E3 Ligase PRU1 Regulates WRKY6 Degradation to Modulate Phosphate Homeostasis in Response to Low-Pi Stress in Arabidopsis. Plant Cell, 2018, 30, 1062-1076.	6.6	64
13	Abscisic Acid Modulates Seed Germination via ABA INSENSITIVE5-Mediated PHOSPHATE1. Plant Physiology, 2017, 175, 1661-1668.	4.8	63
14	The K⁺ channel <scp>KZM</scp>2 is involved in stomatal movement by modulating inward K⁺ currents in maize guard cells. Plant Journal, 2017, 92, 662-675.	5.7	21
15	Regulation of potassium transport and signaling in plants. Current Opinion in Plant Biology, 2017, 39, 123-128.	7.1	175
16	NRT1.5/NPF7.3 Functions as a Proton-Coupled H⁺/K⁺ Antiporter for K⁺ Loading into the Xylem in Arabidopsis. Plant Cell, 2017, 29, 2016-2026.	6.6	167
17	Potassium channel AKT1 is involved in the auxinâ€mediated root growth inhibition in <i>Arabidopsis</i> response to low K⁺ stress. Journal of Integrative Plant Biology, 2017, 59, 895-909.	8.5	75
18	Two spatially and temporally distinct Ca²⁺ signals convey <i>Arabidopsis thaliana</i> responses to K⁺ deficiency. New Phytologist, 2017, 213, 739-750.	7.3	88

#	Article	IF	Citations
19	The Shenzhen Declaration on Plant Sciencesâ€"Uniting plant sciences and society to build a green, sustainable Earth. Journal of Systematics and Evolution, 2017, 55, 415-416.	3.1	20
20	The Shenzhen Declaration on Plant Sciences. Taxon, 2017, 66, 1261-1262.	0.7	1
21	Arabidopsis WRKY6 Transcription Factor Acts as a Positive Regulator of Abscisic Acid Signaling during Seed Germination and Early Seedling Development. PLoS Genetics, 2016, 12, e1005833.	3.5	101
22	AtKC1 and CIPK23 Synergistically Modulate AKT1-Mediated Low-Potassium Stress Responses in Arabidopsis. Plant Physiology, 2016, 170, 2264-2277.	4.8	96
23	Potassium Transporter KUP7 Is Involved in K + Acquisition and Translocation in Arabidopsis Root under K + -Limited Conditions. Molecular Plant, 2016, 9, 437-446.	8.3	156
24	Arabidopsis CALCIUM-DEPENDENT PROTEIN KINASE8 and CATALASE3 Function in Abscisic Acid-Mediated Signaling and H₂O₂ Homeostasis in Stomatal Guard Cells under Drought Stress. Plant Cell, 2015, 27, 1445-1460.	6.6	266
25	WRKY42 Modulates Phosphate Homeostasis through Regulating Phosphate Translocation and Acquisition in Arabidopsis Â. Plant Physiology, 2015, 167, 1579-1591.	4.8	153
26	Genetic approaches for improvement of the crop potassium acquisition and utilization efficiency. Current Opinion in Plant Biology, 2015, 25, 46-52.	7.1	130
27	Cytosolic Ca2+ Signals Enhance the Vacuolar Ion Conductivity of Bulging Arabidopsis Root Hair Cells. Molecular Plant, 2015, 8, 1665-1674.	8.3	33
28	Arabidopsis WRKY45 Transcription Factor Activates <i>PHOSPHATE TRANSPORTER1;1</i> Expression in Response to Phosphate Starvation Â Â. Plant Physiology, 2014, 164, 2020-2029.	4.8	226
29	Arabidopsis <scp>RAV</scp>1 transcription factor, phosphorylated by <scp>S</scp>n<scp>RK</scp>2 kinases, regulates the expression of <i><scp>ABI</scp>3</i>,<i><scp>ABI</scp>4</i>, and <i><scp>ABI</scp>5</i> during seed germination and early seedling development. Plant Journal, 2014, 80, 654-668.	5.7	224
30	The Os-AKT1 Channel Is Critical for K⁺ Uptake in Rice Roots and Is Modulated by the Rice CBL1-CIPK23 Complex. Plant Cell, 2014, 26, 3387-3402.	6.6	221
31	Ca2+-Dependent Protein Kinase11 and 24 Modulate the Activity of the Inward Rectifying K+ Channels in<i>Arabidopsis</i>Pollen Tubes. Plant Cell, 2013, 25, 649-661.	6.6	112
32	Potassium Transport and Signaling in Higher Plants. Annual Review of Plant Biology, 2013, 64, 451-476.	18.7	537
33	CalcineurinÂBâ€like protein <scp>CBL</scp>10 directly interacts with <scp>AKT</scp>1 and modulates K⁺ homeostasis in Arabidopsis. Plant Journal, 2013, 74, 258-266.	5.7	199
34	A Protein Kinase, Calcineurin B-Like Protein-Interacting Protein Kinase9, Interacts with Calcium Sensor Calcineurin B-Like Protein3 and Regulates Potassium Homeostasis under Low-Potassium Stress in Arabidopsis Â Â. Plant Physiology, 2012, 161, 266-277.	4.8	139
35	Transcriptome analysis of rice root responses to potassium deficiency. BMC Plant Biology, 2012, 12, 161.	3.6	176
36	Arabidopsis Calcium-Dependent Protein Kinase CPK10 Functions in Abscisic Acid- and Ca2+-Mediated Stomatal Regulation in Response to Drought Stress. Plant Physiology, 2010, 154, 1232-1243.	4.8	286

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37	Potassium channel Î±-subunit AtKC1 negatively regulates AKT1-mediated K+ uptake in Arabidopsis roots under low-K+ stress. Cell Research, 2010, 20, 826-837.	12.0	75
38	The WRKY6 Transcription Factor Modulates<i>PHOSPHATE1</i>Expression in Response to Low Pi Stress in<i>Arabidopsis</i>Â Â. Plant Cell, 2009, 21, 3554-3566.	6.6	366
39	Membrane Transporters for Nitrogen, Phosphate and Potassium Uptake in Plants. Journal of Integrative Plant Biology, 2008, 50, 835-848.	8.5	99
40	A Putative Calciumâ€Permeable Cyclic Nucleotideâ€Gated Channel, CNGC18, Regulates Polarized Pollen Tube Growth. Journal of Integrative Plant Biology, 2007, 49, 1261-1270.	8.5	38
41	AtCPK23 functions in Arabidopsis responses to drought and salt stresses. Plant Molecular Biology, 2007, 65, 511-518.	3.9	197
42	A Protein Kinase, Interacting with Two Calcineurin B-like Proteins, Regulates K+ Transporter AKT1 in Arabidopsis. Cell, 2006, 125, 1347-1360.	28.9	891
43	Differential Responses of Abaxial and Adaxial Guard Cells of Broad Bean to Abscisic Acid and Calcium. Plant Physiology, 1998, 118, 1421-1429.	4.8	52