Yizhou Wang

List of Publications by Year
in descending order

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29 papers	1,734 citations	304743 22 h-index	552781 26 g-index
30 all docs	30 docs citations	30 times ranked	2194 citing authors

#	Article	IF	Citations
1	An miR156-regulated nucleobase-ascorbate transporter 2 confers cadmium tolerance via enhanced anti-oxidative capacity in barley. Journal of Advanced Research, 2023, 44, 23-37.	9.5	11
2	Editorial: Transport and Membrane Traffic in Stomatal Biology. Frontiers in Plant Science, 2022, 13, .	3.6	0
3	An ATP binding cassette transporter HvABCB25 confers aluminum detoxification in wild barley. Journal of Hazardous Materials, 2021, 401, 123371.	12.4	33
4	Guard cell endomembrane Ca2+-ATPases underpin a â€˜carbon memoryâ€™ of photosynthetic assimilation that impacts on water-use efficiency. Nature Plants, 2021, 7, 1301-1313.	9.3	28
5	Mechanistic Insights into Potassium-Conferred Drought Stress Tolerance in Cultivated and Tibetan Wild Barley: Differential Osmoregulation, Nutrient Retention, Secondary Metabolism and Antioxidative Defense Capacity. International Journal of Molecular Sciences, 2021, 22, 13100.	4.1	7
6	Overexpression of HvAKT1 improves drought tolerance in barley by regulating root ion homeostasis and ROS and NO signaling. Journal of Experimental Botany, 2020, 71, 6587-6600.	4.8	31
7	Guard Cell Starch Degradation Yields Glucose for Rapid Stomatal Opening in Arabidopsis. Plant Cell, 2020, 32, 2325-2344.	6.6	62
8	Optimized Protocol for OnGuard2 Software in Studying Guard Cell Membrane Transport and Stomatal Physiology. Frontiers in Plant Science, 2020, 11, 131.	3.6	0
9	HvAKT2 and HvHAK1 confer drought tolerance in barley through enhanced leaf mesophyll H⁺ homoeostasis. Plant Biotechnology Journal, 2020, 18, 1683-1696.	8.3	54
10	Optogenetic manipulation of stomatal kinetics improves carbon assimilation, water use, and growth. Science, 2019, 363, 1456-1459.	12.6	205
11	HvPAA1 Encodes a P-Type ATPase, a Novel Gene for Cadmium Accumulation and Tolerance in Barley (Hordeum vulgare L.). International Journal of Molecular Sciences, 2019, 20, 1732.	4.1	20
12	Evolutionary Conservation of ABA Signaling for Stomatal Closure. Plant Physiology, 2017, 174, 732-747.	4.8	158
13	Global Sensitivity Analysis of OnGuard Models Identifies Key Hubs for Transport Interaction in Stomatal Dynamics. Plant Physiology, 2017, 174, 680-688.	4.8	23
14	Unexpected Connections between Humidity and Ion Transport Discovered Using a Model to Bridge Guard Cell-to-Leaf Scales. Plant Cell, 2017, 29, 2921-2939.	6.6	39
15	Molecular Evolution of Grass Stomata. Trends in Plant Science, 2017, 22, 124-139.	8.8	202
16	Nitrate reductase mutation alters potassium nutrition as well as nitric oxideâ€mediated control of guard cell ion channels in Arabidopsis. New Phytologist, 2016, 209, 1456-1469.	7.3	93
17	Loss of nitrate reductases NIA1 and NIA2 impairs stomatal closure by altering genes of core ABA signaling components in Arabidopsis. Plant Signaling and Behavior, 2016, 11, e1183088.	2.4	32
18	Modelling water use efficiency in a dynamic environment: An example using Arabidopsis thaliana. Plant Science, 2016, 251, 65-74.	3.6	42

#	Article	IF	Citations
19	An Optimal Frequency in Ca²⁺ Oscillations for Stomatal Closure Is an Emergent Property of Ion Transport in Guard Cells. Plant Physiology, 2016, 170, 33-42.	4.8	51
20	A vesicle-trafficking protein commandeers Kv channel voltage sensors for voltage-dependent secretion. Nature Plants, 2015, 1, 15108.	9.3	53
21	The Arabidopsis R-SNARE VAMP721 Interacts with KAT1 and KC1 K+ Channels to Moderate K+ Current at the Plasma Membrane. Plant Cell, 2015, 27, 1697-1717.	6.6	84
22	Emergent Oscillatory Properties in Modelling Ion Transport of Guard Cells. , 2015, , 323-342.		0
23	Systems Analysis of Guard Cell Membrane Transport for Enhanced Stomatal Dynamics and Water Use Efficiency Â Â. Plant Physiology, 2014, 164, 1593-1599.	4.8	57
24	Overexpression of plasma membrane H ⁺ -ATPase in guard cells promotes light-induced stomatal opening and enhances plant growth. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 533-538.	7.1	179
25	Exploring emergent properties in cellular homeostasis using OnGuard to model K+ and other ion transport in guard cells. Journal of Plant Physiology, 2014, 171, 770-778.	3.5	49
26	The conceptual approach to quantitative modeling of guard cells. Plant Signaling and Behavior, 2013, 8, e22747.	2.4	2
27	PYR/PYL/RCAR Abscisic Acid Receptors Regulate K+ and Clâ^' Channels through Reactive Oxygen Species-Mediated Activation of Ca2+ Channels at the Plasma Membrane of Intact Arabidopsis Guard Cells Â Â. Plant Physiology, 2013, 163, 566-577.	4.8	82
28	Systems Dynamic Modeling of a Guard Cell Clâ^' Channel Mutant Uncovers an Emergent Homeostatic Network Regulating Stomatal Transpiration Â Â. Plant Physiology, 2012, 160, 1956-1967.	4.8	83
29	Anion channel sensitivity to cytosolic organic acids implicates a central role for oxaloacetate in integrating ion flux with metabolism in stomatal guard cells. Biochemical Journal, 2011, 439, 161-170.	3.7	40