Honghong Hu

List of Publications by Year
in descending order

31 papers	6,351 citations	257450 24 h-index	414414 32 g-index
35 all docs	35 docs citations	35 times ranked	6936 citing authors

#	Article	IF	Citations
1	Overexpressing a NAM, ATAF, and CUC (NAC) transcription factor enhances drought resistance and salt tolerance in rice. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 12987-12992.	7.1	1,371
2	Guard Cell Signal Transduction Network: Advances in Understanding Abscisic Acid, CO₂, and Ca²⁺Signaling. Annual Review of Plant Biology, 2010, 61, 561-591.	18.7	1,165
3	Characterization of transcription factor gene SNAC2 conferring cold and salt tolerance in rice. Plant Molecular Biology, 2008, 67, 169-181.	3.9	561
4	Genetic Engineering and Breeding of Drought-Resistant Crops. Annual Review of Plant Biology, 2014, 65, 715-741.	18.7	561
5	Reconstitution of abscisic acid activation of SLAC1 anion channel by CPK6 and OST1 kinases and branched ABI1 PP2C phosphatase action. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 10593-10598.	7.1	393
6	Carbonic anhydrases are upstream regulators of CO2-controlled stomatal movements in guard cells. Nature Cell Biology, 2010, 12, 87-93.	10.3	364
7	The SNAC1-targeted gene OsSRO1c modulates stomatal closure and oxidative stress tolerance by regulating hydrogen peroxide in rice. Journal of Experimental Botany, 2013, 64, 569-583.	4.8	192
8	PYR/RCAR Receptors Contribute to Ozone-, Reduced Air Humidity-, Darkness-, and CO2-Induced Stomatal Regulation Â Â Â. Plant Physiology, 2013, 162, 1652-1668.	4.8	190
9	Carbonic anhydrases, EPF2 and a novel protease mediate CO2 control of stomatal development. Nature, 2014, 513, 246-250.	27.8	189
10	Central functions of bicarbonate in S-type anion channel activation and OST1 protein kinase in CO₂signal transduction in guard cell. EMBO Journal, 2011, 30, 1645-1658.	7.8	167
11	Genome-Wide Association Studies of Image Traits Reveal Genetic Architecture of Drought Resistance in Rice. Molecular Plant, 2018, 11, 789-805.	8.3	151
12	A STRESS-RESPONSIVE NAC1-Regulated Protein Phosphatase Gene Rice Protein Phosphatase18 Modulates Drought and Oxidative Stress Tolerance through Abscisic Acid-Independent Reactive Oxygen Species Scavenging in Rice Â Â. Plant Physiology, 2014, 166, 2100-2114.	4.8	142
13	Reconstitution of CO₂ Regulation of SLAC1 Anion Channel and Function of CO₂-Permeable PIP2;1 Aquaporin as CARBONIC ANHYDRASE4 Interactor. Plant Cell, 2016, 28, 568-582.	6.6	130
14	An ornithine Î´-aminotransferase gene OsOAT confers drought and oxidative stress tolerance in rice. Plant Science, 2012, 197, 59-69.	3.6	115
15	Integrative Regulation of Drought Escape through ABA-Dependent and -Independent Pathways inÂRice. Molecular Plant, 2018, 11, 584-597.	8.3	112
16	Distinct Cellular Locations of Carbonic Anhydrases Mediate Carbon Dioxide Control of Stomatal Movements. Plant Physiology, 2015, 169, 1168-1178.	4.8	78
17	Natural Variation in Arabidopsis Cvi-0 Accession Reveals an Important Role of MPK12 in Guard Cell CO2 Signaling. PLoS Biology, 2016, 14, e2000322.	5.6	69
18	Reversible Histone H2B Monoubiquitination Fine-Tunes Abscisic Acid Signaling and Drought Response in Rice. Molecular Plant, 2019, 12, 263-277.	8.3	53

#	Article	IF	Citations
19	Arabidopsis IAR4 Modulates Primary Root Growth Under Salt Stress Through ROS-Mediated Modulation of Auxin Distribution. Frontiers in Plant Science, 2019, 10, 522.	3.6	52
20	A special member of the rice SRO family, OsSRO1c, mediates responses to multiple abiotic stresses through interaction with various transcription factors. Plant Molecular Biology, 2014, 84, 693-705.	3.9	48
21	GDSL lipase occluded stomatal pore 1 is required for wax biosynthesis and stomatal cuticular ledge formation. New Phytologist, 2020, 228, 1880-1896.	7.3	45
22	The <scp>BIG</scp> protein distinguishes the process of <scp>CO</scp>₂â€induced stomatal closure from the inhibition of stomatal opening by <scp>CO</scp>₂. New Phytologist, 2018, 218, 232-241.	7.3	43
23	Intact leaf gas exchange provides a robust method for measuring the kinetics of stomatal conductance responses to abscisic acid and other small molecules in Arabidopsis and grasses. Plant Methods, 2019, 15, 38.	4.3	38
24	Genome-Wide Identification of SNAC1-Targeted Genes Involved in Drought Response in Rice. Frontiers in Plant Science, 2019, 10, 982.	3.6	34
25	OsTMF attenuates cold tolerance by affecting cell wall properties in rice. New Phytologist, 2020, 227, 498-512.	7.3	18
26	Two galacturonosyltransferases function in plant growth, stomatal development, and dynamics. Plant Physiology, 2021, 187, 2820-2836.	4.8	15
27	Involvement of abscisic acid, ABI5, and PPC2 in plant acclimation to low CO2. Journal of Experimental Botany, 2020, 71, 4093-4108.	4.8	13
28	Expression Pattern and Functional Analyses of Arabidopsis Guard Cell-Enriched GDSL Lipases. Frontiers in Plant Science, 2021, 12, 748543.	3.6	12
29	Aldehyde dehydrogenase ALDH3F1 involvement in flowering time regulation through histone acetylation modulation on FLOWERING LOCUS C. Journal of Integrative Plant Biology, 2020, 62, 1080-1092.	8.5	11
30	Serine Hydroxymethyltransferase 1 Is Essential for Primary-Root Growth at Low-Sucrose Conditions. International Journal of Molecular Sciences, 2022, 23, 4540.	4.1	2
31	Exploring CO2 permeability of plant aquaporins. FASEB Journal, 2012, 26, 1103.8.	0.5	0