Shengguan Cai

List of Publications by Year
in descending order

30 papers	983 citations	471509 17 h-index	477307 29 g-index
30 all docs	30 docs citations	30 times ranked	1275 citing authors

#	Article	IF	Citations
1	Evolutionary Conservation of ABA Signaling for Stomatal Closure. Plant Physiology, 2017, 174, 732-747.	4.8	158
2	Grain protein content variation and its association analysis in barley. BMC Plant Biology, 2013, 13, 35.	3.6	95
3	Comparative Transcriptome Profiling of Two Tibetan Wild Barley Genotypes in Responses to Low Potassium. PLoS ONE, 2014, 9, e100567.	2.5	76
4	Transcriptome profiling reveals mosaic genomic origins of modern cultivated barley. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13403-13408.	7.1	74
5	Genome-Wide Association Analysis of Aluminum Tolerance in Cultivated and Tibetan Wild Barley. PLoS ONE, 2013, 8, e69776.	2.5	55
6	Root and leaf metabolite profiles analysis reveals the adaptive strategies to low potassium stress in barley. BMC Plant Biology, 2018, 18, 187.	3.6	47
7	Association mapping for total polyphenol content, total flavonoid content and antioxidant activity in barley. BMC Genomics, 2018, 19, 81.	2.8	45
8	Identification of the proteins associated with low potassium tolerance in cultivated and Tibetan wild barley. Journal of Proteomics, 2015, 126, 1-11.	2.4	44
9	Speedy Grass Stomata: Emerging Molecular and Evolutionary Features. Molecular Plant, 2017, 10, 912-914.	8.3	36
10	Evolution of rapid blueâ€light response linked to explosive diversification of ferns in angiosperm forests. New Phytologist, 2021, 230, 1201-1213.	7.3	33
11	Development of predictive models for total phenolics and free p-coumaric acid contents in barley grain by near-infrared spectroscopy. Food Chemistry, 2017, 227, 342-348.	8.2	31
12	The influence of salinity on cell ultrastructures and photosynthetic apparatus of barley genotypes differing in salt stress tolerance. Acta Physiologiae Plantarum, 2014, 36, 1261-1269.	2.1	30
13	Genetic Diversity of Individual Phenolic Acids in Barley and Their Correlation with Barley Malt Quality. Journal of Agricultural and Food Chemistry, 2015, 63, 7051-7057.	5.2	29
14	The effects of GA and ABA treatments on metabolite profile of germinating barley. Food Chemistry, 2016, 192, 928-933.	8.2	29
15	EFFECT OF SALINITY AND HEXAVALENT CHROMIUM STRESSES ON UPTAKE AND ACCUMULATION OF MINERAL ELEMENTS IN BARLEY GENOTYPES DIFFERING IN SALT TOLERANCE. Journal of Plant Nutrition, 2012, 35, 827-839.	1.9	24
16	Molecular Evolution and Interaction of Membrane Transport and Photoreception in Plants. Frontiers in Genetics, 2019, 10, 956.	2.3	21
17	Comprehensive dissection of primary metabolites in response to diverse abiotic stress in barley at seedling stage. Plant Physiology and Biochemistry, 2021, 161, 54-64.	5.8	20
18	Genetic Diversity and QTL Mapping of Thermostability of Limit Dextrinase in Barley. Journal of Agricultural and Food Chemistry, 2015, 63, 3778-3783.	5.2	19

#	Article	IF	Citations
19	Interactive effects of aluminum and chromium stresses on the uptake of nutrients and the metals in barley. Soil Science and Plant Nutrition, 2011, 57, 68-79.	1.9	17
20	The changes in physiological and biochemical traits of Tibetan wild and cultivated barley in response to low phosphorus stress. Soil Science and Plant Nutrition, 2014, 60, 832-842.	1.9	15
21	Vacuolar H+-pyrophosphatase HVP10 enhances salt tolerance via promoting Na+ translocation into root vacuoles. Plant Physiology, 2022, 188, 1248-1263.	4.8	15
22	Multiâ€Omics Analysis Reveals the Mechanism Underlying the Edaphic Adaptation in Wild Barley at Evolution Slope (Tabigha). Advanced Science, 2021, 8, e2101374.	11.2	14
23	The zinc finger transcription factor ATF1 regulates aluminum tolerance in barley. Journal of Experimental Botany, 2020, 71, 6512-6523.	4.8	13
24	The combined treatment of Mn and Al alleviates the toxicity of Al or Mn stress alone in barley. Acta Physiologiae Plantarum, 2016, 38, 1.	2.1	11
25	Identification of Quantitative Trait Loci for the Phenolic Acid Contents and Their Association with Agronomic Traits in Tibetan Wild Barley. Journal of Agricultural and Food Chemistry, 2016, 64, 980-987.	5.2	10
26	Isobaric Tags for Relative and Absolute Quantitation Proteomic Analysis of Germinating Barley under Gibberellin and Abscisic Acid Treatments. Journal of Agricultural and Food Chemistry, 2017, 65, 2248-2257.	5.2	6
27	Time-Course Comparative Metabolome Analysis of Different Barley Varieties during Malting. Journal of Agricultural and Food Chemistry, 2022, 70, 2051-2059.	5.2	6
28	Genetic variation of HvXYN1 associated with endoxylanase activity and TAX content in barley (Hordeum vulgare L.). BMC Plant Biology, 2019, 19, 170.	3.6	5
29	Transcriptome-Based Analysis of Phosphite-Induced Resistance against Pathogens in Rice. Plants, 2020, 9, 1334.	3.5	4
30	Evolution of phosphate metabolism in Tibetan wild barley to adapt to aluminum stress. Plant and Soil, 0, , .	3.7	1