Cheng-Cai Chu

List of Publications by Citations

179 papers	12,961 citations	64 h-index	110 g-index
207 ext. papers	17,474 ext. citations	8.7 avg, IF	6.52 L-index

#	Paper	IF	Citations
179	Natural variation at the DEP1 locus enhances grain yield in rice. *Nature Genetics*, **2009**, 41, 494-7	36.3	645
178	Brassinosteroid regulates cell elongation by modulating gibberellin metabolism in rice. *Plant Cell*, **2014**, 26, 4376-93	11.6	442
177	Variation in NRT1.1B contributes to nitrate-use divergence between rice subspecies. *Nature Genetics*, **2015**, 47, 834-8	36.3	334
176	OsNAP connects abscisic acid and leaf senescence by fine-tuning abscisic acid biosynthesis and directly targeting senescence-associated genes in rice. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 10013-8	11.5	316
175	Overexpression of a rice OsDREB1F gene increases salt, drought, and low temperature tolerance in both Arabidopsis and rice. *Plant Molecular Biology*, **2008**, 67, 589-602	4.6	303
174	NRT1.1B is associated with root microbiota composition and nitrogen use in field-grown rice. *Nature Biotechnology*, **2019**, 37, 676-684	44.5	276
173	OsWRKY71, a rice transcription factor, is involved in rice defense response. *Journal of Plant Physiology*, **2007**, 164, 969-79	3.6	259
172	Nitric oxide and protein S-nitrosylation are integral to hydrogen peroxide-induced leaf cell death in rice. *Plant Physiology*, **2012**, 158, 451-64	6.6	237
171	Insights into salt tolerance from the genome of Thellungiella salsuginea. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 12219-24	11.5	227
170	Roles of DCL4 and DCL3b in rice phased small RNA biogenesis. *Plant Journal*, **2012**, 69, 462-74	6.9	224
169	DWARF AND LOW-TILLERING, a new member of the GRAS family, plays positive roles in brassinosteroid signaling in rice. *Plant Journal*, **2009**, 58, 803-16	6.9	222
168	OsbZIP71, a bZIP transcription factor, confers salinity and drought tolerance in rice. *Plant Molecular Biology*, **2014**, 84, 19-36	4.6	213
167	Control of grain size and rice yield by GL2-mediated brassinosteroid responses. *Nature Plants*, **2015**, 2, 15195	11.5	209
166	OsMT1a, a type 1 metallothionein, plays the pivotal role in zinc homeostasis and drought tolerance in rice. *Plant Molecular Biology*, **2009**, 70, 219-29	4.6	189
165	DWARF AND LOW-TILLERING acts as a direct downstream target of a GSK3/SHAGGY-like kinase to mediate brassinosteroid responses in rice. *Plant Cell*, **2012**, 24, 2562-77	11.6	187
164	S-nitrosylation of AtSABP3 antagonizes the expression of plant immunity. *Journal of Biological Chemistry*, **2009**, 284, 2131-7	5.4	187
163	Loss of function of OsDCL1 affects microRNA accumulation and causes developmental defects in rice. *Plant Physiology*, **2005**, 139, 296-305	6.6	185

162	Melatonin delays leaf senescence and enhances salt stress tolerance in rice. *Journal of Pineal Research*, **2015**, 59, 91-101	10.4	184
161	Arabidopsis WRKY46, WRKY54, and WRKY70 Transcription Factors Are Involved in Brassinosteroid-Regulated Plant Growth and Drought Responses. *Plant Cell*, **2017**, 29, 1425-1439	11.6	178
160	MicroRNAs in crop improvement: fine-tuners for complex traits. *Nature Plants*, **2017**, 3, 17077	11.5	176
159	OsPT2, a phosphate transporter, is involved in the active uptake of selenite in rice. *New Phytologist*, **2014**, 201, 1183-1191	9.8	172
158	Mutations of genes in synthesis of the carotenoid precursors of ABA lead to pre-harvest sprouting and photo-oxidation in rice. *Plant Journal*, **2008**, 54, 177-89	6.9	169
157	Mutation of the rice Narrow leaf1 gene, which encodes a novel protein, affects vein patterning and polar auxin transport. *Plant Physiology*, **2008**, 147, 1947-59	6.6	168
156	OsWRKY30 is activated by MAP kinases to confer drought tolerance in rice. *Plant Molecular Biology*, **2012**, 80, 241-53	4.6	167
155	Co-overexpression FIT with AtbHLH38 or AtbHLH39 in Arabidopsis-enhanced cadmium tolerance via increased cadmium sequestration in roots and improved iron homeostasis of shoots. *Plant Physiology*, **2012**, 158, 790-800	6.6	163
154	The redox switch: dynamic regulation of protein function by cysteine modifications. *Physiologia Plantarum*, **2010**, 138, 360-71	4.6	162
153	LEAF TIP NECROSIS1 plays a pivotal role in the regulation of multiple phosphate starvation responses in rice. *Plant Physiology*, **2011**, 156, 1101-15	6.6	162
152	Nitrogen use efficiency in crops: lessons from Arabidopsis and rice. *Journal of Experimental Botany*, **2017**, 68, 2477-2488	7	148
151	Expression of the Nitrate Transporter Gene Confers High Yield and Early Maturation in Rice. *Plant Cell*, **2018**, 30, 638-651	11.6	145
150	Cross-talk of nitric oxide and reactive oxygen species in plant programed cell death. *Frontiers in Plant Science*, **2013**, 4, 314	6.2	141
149	Activation of Big Grain1 significantly improves grain size by regulating auxin transport in rice. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 11102-7	11.5	140
148	GOLD HULL AND INTERNODE2 encodes a primarily multifunctional cinnamyl-alcohol dehydrogenase in rice. *Plant Physiology*, **2006**, 140, 972-83	6.6	140
147	SDG714, a histone H3K9 methyltransferase, is involved in Tos17 DNA methylation and transposition in rice. *Plant Cell*, **2007**, 19, 9-22	11.6	140
146	Nitric oxide function and signalling in plant disease resistance. *Journal of Experimental Botany*, **2008** , 59, 147-54	7	137
145	ROS accumulation and antiviral defence control by microRNA528 in rice. *Nature Plants*, **2017**, 3, 16203	11.5	134

144	Nitrate-NRT1.1B-SPX4 cascade integrates nitrogen and phosphorus signalling networks in plants. *Nature Plants*, **2019**, 5, 401-413	11.5	133
143	Genome-wide Targeted Mutagenesis in Rice Using the CRISPR/Cas9 System. *Molecular Plant*, **2017**, 10, 1242-1245	14.4	132
142	RD26 mediates crosstalk between drought and brassinosteroid signalling pathways. *Nature Communications*, **2017**, 8, 14573	17.4	119
141	CYTOKININ OXIDASE/DEHYDROGENASE4 Integrates Cytokinin and Auxin Signaling to Control Rice Crown Root Formation. *Plant Physiology*, **2014**, 165, 1035-1046	6.6	117
140	EUI1, encoding a putative cytochrome P450 monooxygenase, regulates internode elongation by modulating gibberellin responses in rice. *Plant and Cell Physiology*, **2006**, 47, 181-91	4.9	117
139	OsWRKY03, a rice transcriptional activator that functions in defense signaling pathway upstream of OsNPR1. *Cell Research*, **2005**, 15, 593-603	24.7	116
138	Oryza sativa dicer-like4 reveals a key role for small interfering RNA silencing in plant development. *Plant Cell*, **2007**, 19, 2705-18	11.6	115
137	NOT2 proteins promote polymerase II-dependent transcription and interact with multiple MicroRNA biogenesis factors in Arabidopsis. *Plant Cell*, **2013**, 25, 715-27	11.6	113
136	OsSDIR1 overexpression greatly improves drought tolerance in transgenic rice. *Plant Molecular Biology*, **2011**, 76, 145-56	4.6	107
135	Arsenic biotransformation and volatilization in transgenic rice. *New Phytologist*, **2011**, 191, 49-56	9.8	102
134	Nitric oxide ameliorates zinc oxide nanoparticles-induced phytotoxicity in rice seedlings. *Journal of Hazardous Materials*, **2015**, 297, 173-82	12.8	100
133	A Novel QTL qTGW3 Encodes the GSK3/SHAGGY-Like Kinase OsGSK5/OsSK41 that Interacts with OsARF4 to Negatively Regulate Grain Size and Weight in Rice. *Molecular Plant*, **2018**, 11, 736-749	14.4	100
132	Rice DENSE AND ERECT PANICLE 2 is essential for determining panicle outgrowth and elongation. *Cell Research*, **2010**, 20, 838-49	24.7	100
131	Root microbiota shift in rice correlates with resident time in the field and developmental stage. *Science China Life Sciences*, **2018**, 61, 613-621	8.5	98
130	Parallel selection on a dormancy gene during domestication of crops from multiple families. *Nature Genetics*, **2018**, 50, 1435-1441	36.3	92
129	The Arabidopsis Spontaneous Cell Death1 gene, encoding a zeta-carotene desaturase essential for carotenoid biosynthesis, is involved in chloroplast development, photoprotection and retrograde signalling. *Cell Research*, **2007**, 17, 458-70	24.7	91
128	A route to de novo domestication of wild allotetraploid rice. *Cell*, **2021**, 184, 1156-1170.e14	56.2	81
127	The histone methyltransferase SDG724 mediates H3K36me2/3 deposition at MADS50 and RFT1 and promotes flowering in rice. *Plant Cell*, **2012**, 24, 3235-47	11.6	79

126	High-efficiency breeding of early-maturing rice cultivars via CRISPR/Cas9-mediated genome editing. *Journal of Genetics and Genomics*, **2017**, 44, 175-178	4	76
125	Ethylene responses in rice roots and coleoptiles are differentially regulated by a carotenoid isomerase-mediated abscisic acid pathway. *Plant Cell*, **2015**, 27, 1061-81	11.6	72
124	Rice RNA-dependent RNA polymerase 6 acts in small RNA biogenesis and spikelet development. *Plant Journal*, **2012**, 71, 378-89	6.9	70
123	Functional Specificities of Brassinosteroid and Potential Utilization for Crop Improvement. *Trends in Plant Science*, **2018**, 23, 1016-1028	13.1	70
122	Melatonin Regulates Root Architecture by Modulating Auxin Response in Rice. *Frontiers in Plant Science*, **2017**, 8, 134	6.2	69
121	Early selection of bZIP73 facilitated adaptation of japonica rice to cold climates. *Nature Communications*, **2018**, 9, 3302	17.4	68
120	Semi-dominant mutations in the CC-NB-LRR-type R gene, NLS1, lead to constitutive activation of defense responses in rice. *Plant Journal*, **2011**, 66, 996-1007	6.9	68
119	An AT-hook gene is required for palea formation and floral organ number control in rice. *Developmental Biology*, **2011**, 359, 277-88	3.1	68
118	Variations in CYP78A13 coding region influence grain size and yield in rice. *Plant, Cell and Environment*, **2015**, 38, 800-11	8.4	66
117	OsGLU1, a putative membrane-bound endo-1,4-beta-D-glucanase from rice, affects plant internode elongation. *Plant Molecular Biology*, **2006**, 60, 137-51	4.6	66
116	The Power of Inbreeding: NGS-Based GWAS of Rice Reveals Convergent Evolution during Rice Domestication. *Molecular Plant*, **2016**, 9, 975-85	14.4	66
115	Asian wild rice is a hybrid swarm with extensive gene flow and feralization from domesticated rice. *Genome Research*, **2017**, 27, 1029-1038	9.7	60
114	Genomic basis of geographical adaptation to soil nitrogen in rice. *Nature*, **2021**, 590, 600-605	50.4	59
113	Activation of the jasmonic acid pathway by depletion of the hydroperoxide lyase OsHPL3 reveals crosstalk between the HPL and AOS branches of the oxylipin pathway in rice. *PLoS ONE*, **2012**, 7, e50089	3.7	58
112	Control of secondary cell wall patterning involves xylan deacetylation by a GDSL esterase. *Nature Plants*, **2017**, 3, 17017	11.5	57
111	H2O2-induced leaf cell death and the crosstalk of reactive nitric/oxygen species. *Journal of Integrative Plant Biology*, **2013**, 55, 202-8	8.3	57
110	A rice plastidial nucleotide sugar epimerase is involved in galactolipid biosynthesis and improves photosynthetic efficiency. *PLoS Genetics*, **2011**, 7, e1002196	6	57
109	OsMSRA4.1 and OsMSRB1.1, two rice plastidial methionine sulfoxide reductases, are involved in abiotic stress responses. *Planta*, **2009**, 230, 227-38	4.7	55

108	Ethanol vapor is an efficient inducer of the alc gene expression system in model and crop plant species. *Plant Physiology*, **2002**, 129, 943-8	6.6	54
107	Crop 3D-a LiDAR based platform for 3D high-throughput crop phenotyping. *Science China Life Sciences*, **2018**, 61, 328-339	8.5	53
106	Up-regulation of LSB1/GDU3 affects geminivirus infection by activating the salicylic acid pathway. *Plant Journal*, **2010**, 62, 12-23	6.9	52
105	Overexpression of microRNA408 enhances photosynthesis, growth, and seed yield in diverse plants. *Journal of Integrative Plant Biology*, **2018**, 60, 323-340	8.3	49
104	Understanding the genetic and epigenetic architecture in complex network of rice flowering pathways. *Protein and Cell*, **2014**, 5, 889-98	7.2	49
103	Leaf Photosynthetic Parameters Related to Biomass Accumulation in a Global Rice Diversity Survey. *Plant Physiology*, **2017**, 175, 248-258	6.6	49
102	Assessment of Five Chilling Tolerance Traits and GWAS Mapping in Rice Using the USDA Mini-Core Collection. *Frontiers in Plant Science*, **2017**, 8, 957	6.2	47
101	Abscisic acid and the pre-harvest sprouting in cereals. *Plant Signaling and Behavior*, **2008**, 3, 1046-8	2.5	46
100	MicroRNA399 is involved in multiple nutrient starvation responses in rice. *Frontiers in Plant Science*, **2015**, 6, 188	6.2	45
99	RLIN1, encoding a putative coproporphyrinogen III oxidase, is involved in lesion initiation in rice. *Journal of Genetics and Genomics*, **2011**, 38, 29-37	4	45
98	Excision of a selective marker in transgenic rice using a novel Cre/loxP system controlled by a floral specific promoter. *Transgenic Research*, **2008**, 17, 1035-43	3.3	45
97	Rice HOX12 Regulates Panicle Exsertion by Directly Modulating the Expression of ELONGATED UPPERMOST INTERNODE1. *Plant Cell*, **2016**, 28, 680-95	11.6	44
96	Brassinosteroid signaling and application in rice. *Journal of Genetics and Genomics*, **2012**, 39, 3-9	4	44
95	The rice GERMINATION DEFECTIVE 1, encoding a B3 domain transcriptional repressor, regulates seed germination and seedling development by integrating GA and carbohydrate metabolism. *Plant Journal*, **2013**, 75, 403-16	6.9	44
94	ZEBRA2, encoding a carotenoid isomerase, is involved in photoprotection in rice. *Plant Molecular Biology*, **2011**, 75, 211-21	4.6	44
93	Arabidopsis SDIR1 enhances drought tolerance in crop plants. *Bioscience, Biotechnology and Biochemistry*, **2008**, 72, 2251-4	2.1	44
92	The MYB Activator WHITE PETAL1 Associates with MtTT8 and MtWD40-1 to Regulate Carotenoid-Derived Flower Pigmentation in. *Plant Cell*, **2019**, 31, 2751-2767	11.6	43
91	Nitric oxide: promoter or suppressor of programmed cell death?. *Protein and Cell*, **2010**, 1, 133-42	7.2	43

90	The interactions among DWARF10, auxin and cytokinin underlie lateral bud outgrowth in rice. *Journal of Integrative Plant Biology*, **2010**, 52, 626-38	8.3	41
89	Rapid stomatal response to fluctuating light: an under-explored mechanism to improve drought tolerance in rice. *Functional Plant Biology*, **2016**, 43, 727-738	2.7	41
88	In plants the alc gene expression system responds more rapidly following induction with acetaldehyde than with ethanol. *FEBS Letters*, **2003**, 535, 136-40	3.8	40
87	Brassinosteroids Regulate OFP1, a DLT Interacting Protein, to Modulate Plant Architecture and Grain Morphology in Rice. *Frontiers in Plant Science*, **2017**, 8, 1698	6.2	37
86	ARGONAUTE2 Enhances Grain Length and Salt Tolerance by Activating to Modulate Cytokinin Distribution in Rice. *Plant Cell*, **2020**, 32, 2292-2306	11.6	36
85	Expression patterns of ABA and GA metabolism genes and hormone levels during rice seed development and imbibition: a comparison of dormant and non-dormant rice cultivars. *Journal of Genetics and Genomics*, **2014**, 41, 327-38	4	36
84	Isolation and expression analysis of salt up-regulated ESTs in upland rice using PCR-based subtractive suppression hybridization method. *Plant Science*, **2005**, 168, 847-853	5.3	36
83	Significant Improvement of Cotton Verticillium Wilt Resistance by Manipulating the Expression of Gastrodia Antifungal Proteins. *Molecular Plant*, **2016**, 9, 1436-1439	14.4	36
82	Nitrogen-phosphorus interplay: old story with molecular tale. *New Phytologist*, **2020**, 225, 1455-1460	9.8	36
81	Big Grain3, encoding a purine permease, regulates grain size via modulating cytokinin transport in rice. *Journal of Integrative Plant Biology*, **2019**, 61, 581-597	8.3	35
80	Down-Regulation of OsGRF1 Gene in Rice rhd1 Mutant Results in Reduced Heading Date. *Journal of Integrative Plant Biology*, **2005**, 47, 745-752	8.3	34
79	A long noncoding RNA involved in rice reproductive development by negatively regulating osa-miR160. *Science Bulletin*, **2017**, 62, 470-475	10.6	33
78	Oral administration of exopolysaccharide from Aphanothece halophytica (Chroococcales) significantly inhibits influenza virus (H1N1)-induced pneumonia in mice. *International Immunopharmacology*, **2006**, 6, 1093-9	5.8	33
77	Combinations of Hd2 and Hd4 genes determine rice adaptability to Heilongjiang Province, northern limit of China. *Journal of Integrative Plant Biology*, **2015**, 57, 698-707	8.3	31
76	Fine-Tuning of MiR528 Accumulation Modulates Flowering Time in Rice. *Molecular Plant*, **2019**, 12, 1103-1113	14.1	30
75	The bZIP73 transcription factor controls rice cold tolerance at the reproductive stage. *Plant Biotechnology Journal*, **2019**, 17, 1834-1849	11.6	30
74	Improvement of nutrient use efficiency in rice: current toolbox and future perspectives. *Theoretical and Applied Genetics*, **2020**, 133, 1365-1384	6	30
73	NRT1.1B improves selenium concentrations in rice grains by facilitating selenomethinone translocation. *Plant Biotechnology Journal*, **2019**, 17, 1058-1068	11.6	30

72	locus shortens rice maturity duration without yield penalty. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 18717-18722	11.5	29
71	Molecular analysis of rice plants harboring a multi-functional T-DNA tagging system. *Journal of Genetics and Genomics*, **2009**, 36, 267-76	4	29
70	Variations between the photosynthetic properties of elite and landrace Chinese rice cultivars revealed by simultaneous measurements of 820 nm transmission signal and chlorophyll a fluorescence induction. *Journal of Plant Physiology*, **2015**, 177, 128-138	3.6	28
69	Endosperm sugar accumulation caused by mutation of PHS8/ISA1 leads to pre-harvest sprouting in rice. *Plant Journal*, **2018**, 95, 545-556	6.9	28
68	NRT1.1s in plants: functions beyond nitrate transport. *Journal of Experimental Botany*, **2020**, 71, 4373-4379		27
67	Sweet Sorghum Originated through Selection of , a Plant-Specific NAC Transcription Factor Gene. *Plant Cell*, **2018**, 30, 2286-2307	11.6	27
66	Fine mapping of qSTV11TQ, a major gene conferring resistance to rice stripe disease. *Theoretical and Applied Genetics*, **2011**, 122, 915-23	6	25
65	The OsGSK2 Kinase Integrates Brassinosteroid and Jasmonic Acid Signaling by Interacting with OsJAZ4. *Plant Cell*, **2020**, 32, 2806-2822	11.6	23
64	Gibberellin Metabolism and Signaling: Targets for Improving Agronomic Performance of Crops. *Plant and Cell Physiology*, **2020**, 61, 1902-1911	4.9	23
63	Identification of microRNAs in rice root in response to nitrate and ammonium. *Journal of Genetics and Genomics*, **2016**, 43, 651-661	4	23
62	Cytokinin-dependent regulatory module underlies the maintenance of zinc nutrition in rice. *New Phytologist*, **2019**, 224, 202-215	9.8	22
61	Control of rice pre-harvest sprouting by glutaredoxin-mediated abscisic acid signaling. *Plant Journal*, **2019**, 100, 1036-1051	6.9	22
60	Involvement of OsNPR1/NH1 in rice basal resistance to blast fungus Magnaporthe oryzae. *European Journal of Plant Pathology*, **2011**, 131, 221-235	2.1	21
59	Carotene Isomerase Suppresses Tillering in Rice through the Coordinated Biosynthesis of Strigolactone and Abscisic Acid. *Molecular Plant*, **2020**, 13, 1784-1801	14.4	21
58	Towards understanding the hierarchical nitrogen signalling network in plants. *Current Opinion in Plant Biology*, **2020**, 55, 60-65	9.9	21
57	Genetic transformation of lipid transfer protein encoding gene in Phalaenopsis amabilis to enhance cold resistance. *Euphytica*, **2011**, 177, 33-43	2.1	20
56	Natural variations of SLG1 confer high-temperature tolerance in indica rice. *Nature Communications* , **2020**, 11, 5441	17.4	20
55	Aqueous Extract of Inonotus bliquus (Fr.) Pilat (Hymenochaetaceae) Significantly Inhibits the Growth of Sarcoma 180 by Inducing Apoptosis. *American Journal of Pharmacology and Toxicology*, **2007**, 2, 10-17	0.6	19

54	Nitrogen-Use Divergence Between Indica and Japonica Rice: Variation at Nitrate Assimilation. *Molecular Plant*, **2020**, 13, 6-7	14.4	19
53	Leafy head2, which encodes a putative RNA-binding protein, regulates shoot development of rice. *Cell Research*, **2006**, 16, 267-76	24.7	18
52	Cold stress tolerance in rice: physiological changes, molecular mechanism, and future prospects. *Yi Chuan = Hereditas / Zhongguo Yi Chuan Xue Hui Bian Ji*, **2018**, 40, 171-185	1.4	18
51	A transceptor-channel complex couples nitrate sensing to calcium signaling in Arabidopsis. *Molecular Plant*, **2021**, 14, 774-786	14.4	18
50	Reply: Brassinosteroid Regulates Gibberellin Synthesis to Promote Cell Elongation in Rice: Critical Comments on Ross and Quittenden's Letter. *Plant Cell*, **2016**, 28, 833-5	11.6	17
49	Genetic architecture underlying light and temperature mediated flowering in Arabidopsis, rice, and temperate cereals. *New Phytologist*, **2021**, 230, 1731-1745	9.8	17
48	Analysis of genetic architecture and favorable allele usage of agronomic traits in a large collection of Chinese rice accessions. *Science China Life Sciences*, **2020**, 63, 1688-1702	8.5	16
47	Rice NIN-LIKE PROTEIN 4 plays a pivotal role in nitrogen use efficiency. *Plant Biotechnology Journal*, **2021**, 19, 448-461	11.6	16
46	Phosphate starvation signaling in rice. *Plant Signaling and Behavior*, **2011**, 6, 927-9	2.5	15
45	Towards Understanding Plant Response to Heavy Metal Stress **2011**,		14
44	Salt tolerance in rice: Physiological responses and molecular mechanisms. *Crop Journal*, **2021**, 10, 13-13	4.6	14
43	Glycosyltransferase OsUGT90A1 helps protect the plasma membrane during chilling stress in rice. *Journal of Experimental Botany*, **2020**, 71, 2723-2739	7	13
42	Comparative proteomics analysis of OsNAS1 transgenic Brassica napus under salt stress. *Science Bulletin*, **2011**, 56, 2343-2350		13
41	Roles of DLT in fine modulation on brassinosteroid response in rice. *Plant Signaling and Behavior*, **2009**, 4, 438-9	2.5	13
40	The impact of high-temperature stress on rice: Challenges and solutions. *Crop Journal*, **2021**,	4.6	13
39	Genetics-based dynamic systems model of canopy photosynthesis: the key to improve light and resource use efficiencies for crops. *Food and Energy Security*, **2016**, 5, 18-25	4.1	13
38	Are we ready to improve phosphorus homeostasis in rice?. *Journal of Experimental Botany*, **2018**, 69, 3515-3522	7	13
37	GSK2 stabilizes OFP3 to suppress brassinosteroid responses in rice. *Plant Journal*, **2020**, 102, 1187-1201	6.9	12

36	S-Nitrosylation Control of ROS and RNS Homeostasis in Plants: The Switching Function of Catalase. *Molecular Plant*, **2020**, 13, 946-948	14.4	11
35	Direct modulation of protein level in Arabidopsis. *Molecular Plant*, **2013**, 6, 1711-4	14.4	10
34	Rice functional genomics: decadesSefforts and roads ahead. *Science China Life Sciences*, **2021**, 65, 33	8.5	10
33	Towards understanding abscisic acid-mediated leaf senescence. *Science China Life Sciences*, **2015**, 58, 506-8	8.5	9
32	Mutation of a Nucleotide-Binding Leucine-Rich Repeat Immune Receptor-Type Protein Disrupts Immunity to Bacterial Blight. *Plant Physiology*, **2019**, 181, 1295-1313	6.6	9
31	Gene expression of jojoba (Simmondsia chinensis) leaves exposed to drying. *Environmental and Experimental Botany*, **2008**, 63, 137-146	5.9	9
30	Genome-wide association study identifies variation of glucosidase being linked to natural variation of the maximal quantum yield of photosystem II. *Physiologia Plantarum*, **2019**, 166, 105-119	4.6	8
29	Transformation of LTP gene into Brassica napus to enhance its resistance to Sclerotinia sclerotiorum. *Russian Journal of Genetics*, **2013**, 49, 380-387	0.6	8
28	Computation-assisted SiteFinding- PCR for isolating flanking sequence tags in rice. *BioTechniques*, **2011**, 51, 421-3	2.5	8
27	Expression analysis ofgdcsP promoter from C3-C4 intermediate plantFlaveria anomala in transgenic rice. *Science Bulletin*, **2001**, 46, 1635-1638		7
26	Endoplasmic Reticulum-Localized PURINE PERMEASE1 Regulates Plant Height and Grain Weight by Modulating Cytokinin Distribution in Rice. *Frontiers in Plant Science*, **2020**, 11, 618560	6.2	7
25	Modulation of nitrate-induced phosphate response by the MYB transcription factor RLI1/HINGE1 in the nucleus. *Molecular Plant*, **2021**, 14, 517-529	14.4	7
24	Alterations in stomatal response to fluctuating light increase biomass and yield of rice under drought conditions. *Plant Journal*, **2020**, 104, 1334-1347	6.9	6
23	Exploration of rice yield potential: Decoding agronomic and physiological traits. *Crop Journal*, **2021**, 9, 577-589	4.6	6
22	Synergistic interplay of ABA and BR signal in regulating plant growth and adaptation. *Nature Plants*, **2021**, 7, 1108-1118	11.5	6
21	Physiological Analysis of Brassinosteroid Responses and Sensitivity in Rice. *Methods in Molecular Biology*, **2017**, 1564, 23-29	1.4	5
20	Crop 3D: a platform based on LiDAR for 3D high-throughputcrop phenotyping. *Scientia Sinica Vitae*, **2016**, 46, 1210-1221	1.4	5
19	Dual function of clock component OsLHY sets critical day length for photoperiodic flowering in rice. *Plant Biotechnology Journal*, **2021**, 19, 1644-1657	11.6	5

18	Rht24b, an ancient variation of TaGA2ox-A9, reduces plant height without yield penalty in wheat. *New Phytologist*, **2021**, 233, 738	9.8	4
17	Effects of potassium iodide on the growth and metabolite accumulation of two planktonic diatoms. *Journal of Applied Phycology*, **2005**, 17, 355-362	3.2	3
16	From Green Super Rice to green agriculture: reaping the promise of functional genomics research. *Molecular Plant*, **2021**,	14.4	3
15	Recent Progress in Molecular Dissection of Nutrient Uptake and Transport in Rice. *Scientia Sinica Vitae*, **2015**, 45, 569-590	1.4	3
14	Vascular-specific expression of Gastrodia antifungal protein gene significantly enhanced cotton Verticillium wilt resistance. *Plant Biotechnology Journal*, **2020**, 18, 1498-1500	11.6	3
13	Posttranslational Modifications: Regulation of Nitrogen Utilization and Signaling. *Plant and Cell Physiology*, **2021**, 62, 543-552	4.9	3
12	A New Era for Crop Improvement: From Model-Guided Rationale Design to Practical Engineering. *Molecular Plant*, **2015**, 8, 1299-301	14.4	2
11	Strigolactone Signaling: Repressor Proteins Are Transcription Factors. *Trends in Plant Science*, **2020**, 25, 960-963	13.1	2
10	Epigenetic regulation of nitrogen and phosphorus responses in plants. *Journal of Plant Physiology*, **2021**, 258-259, 153363	3.6	2
9	Engineering of the cytosolic form of phosphoglucose isomerase into chloroplasts improves plant photosynthesis and biomass. *New Phytologist*, **2021**, 231, 315-325	9.8	2
8	Diversification of plant agronomic traits by genome editing of brassinosteroid signaling family genes in rice. *Plant Physiology*, **2021**, 187, 2563-2576	6.6	2
7	A cryptic inhibitor of cytokinin phosphorelay controls rice grain size. *Molecular Plant*, **2021**,	14.4	2
6	Overexpression of the rice ORANGE gene OsOR negatively regulates carotenoid accumulation, leads to higher tiller numbers and decreases stress tolerance in Nipponbare rice. *Plant Science*, **2021**, 310, 110962	5.3	2
5	Fine-Tuning of Eui1: Breaking the Bottleneck in Hybrid Rice Seed Production. *Molecular Plant*, **2018**, 11, 643-644	14.4	1
4	The florigen interactor BdES43 represses flowering in the model temperate grass Brachypodium distachyon. *Plant Journal*, **2020**, 102, 262-275	6.9	1
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2	Editorial Feature: Meet the PCP Editor-Chengcai Chu. *Plant and Cell Physiology*, **2021**, 62, 923-925	4.9	
1	Analysis of rice root bacterial microbiota of Nipponbare and IR24. *Yi Chuan = Hereditas / Zhongguo Yi Chuan Xue Hui Bian Ji*, **2020**, 42, 506-518	1.4	