Longbiao Guo

List of Publications by Year
in descending order

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99 papers	3,799 citations	172457 29 h-index	155660 55 g-index
100 all docs	100 docs citations	100 times ranked	3485 citing authors

#	Article	IF	Citations
1	Recent origination of circular RNAs in plants. New Phytologist, 2022, 233, 515-525.	7.3	14
2	UDPâ€<i>N</i>â€acetylglucosamine pyrophosphorylase enhances rice survival at high temperature. New Phytologist, 2022, 233, 344-359.	7.3	19
3	Twenty years of plant genome sequencing: achievements and challenges. Trends in Plant Science, 2022, 27, 391-401.	8.8	125
4	Genome-wide association study and transcriptome analysis reveal new QTL and candidate genes for nitrogenâ€deficiency tolerance in rice. Crop Journal, 2022, 10, 942-951.	5.2	19
5	Genomic insights into the evolution of Echinochloa species as weed and orphan crop. Nature Communications, 2022, 13, 689.	12.8	26
6	Integrated Multi-Omics Perspective to Strengthen the Understanding of Salt Tolerance in Rice. International Journal of Molecular Sciences, 2022, 23, 5236.	4.1	19
7	A super pan-genomic landscape of rice. Cell Research, 2022, 32, 878-896.	12.0	99
8	Lateral transfers lead to the birth of momilactone biosynthetic gene clusters in grass. Plant Journal, 2022, 111, 1354-1367.	5.7	8
9	Disruption of <i>EARLY LESION LEAF 1</i>, encoding a cytochrome P450 monooxygenase, induces ROS accumulation and cell death in rice. Plant Journal, 2021, 105, 942-956.	5.7	56
10	The rice LRR-like1 protein YELLOW AND PREMATURE DWARF 1 is involved in leaf senescence induced by high light. Journal of Experimental Botany, 2021, 72, 1589-1605.	4.8	10
11	<i>PHOTOâ€SENSITIVE LEAF ROLLING 1</i> encodes a polygalacturonase that modifies cell wall structure and drought tolerance in rice. New Phytologist, 2021, 229, 890-901.	7.3	40
12	Advances in Sensing, Response and Regulation Mechanism of Salt Tolerance in Rice. International Journal of Molecular Sciences, 2021, 22, 2254.	4.1	37
13	The <i>SEEDLING BIOMASS 1</i> allele from <i>indica</i> rice enhances yield performance under lowâ€nitrogen environments. Plant Biotechnology Journal, 2021, 19, 1681-1683.	8.3	10
14	OsMORF9 is necessary for chloroplast development and seedling survival in rice. Plant Science, 2021, 307, 110907.	3.6	16
15	PlantscRNAdb: A database for plant single-cell RNA analysis. Molecular Plant, 2021, 14, 855-857.	8.3	48
16	Transcriptomic Analysis of Short-Term Salt-Stress Response in Mega Hybrid Rice Seedlings. Agronomy, 2021, 11, 1328.	3.0	11
17	Identification and Characterization of Short Crown Root 8, a Temperature-Sensitive Mutant Associated with Crown Root Development in Rice. International Journal of Molecular Sciences, 2021, 22, 9868.	4.1	2
18	The complete chloroplast genome of weedy rice Oryza sativa f. spontanea. Mitochondrial DNA Part B: Resources, 2021, 6, 3016-3017.	0.4	1

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19	Use of RNAi With OsMYB76R as a Reporter for Candidate Genes Can Efficiently Create and Verify Gametophytic Male Sterility in Rice. Frontiers in Plant Science, 2021, 12, 728193.	3.6	0
20	<i>WHITE AND LESIONâ€MIMIC LEAF1</i>, encoding a lumazine synthase, affects reactive oxygen species balance and chloroplast development in rice. Plant Journal, 2021, 108, 1690-1703.	5.7	8
21	Effects of Sample Size on Plant Single-Cell RNA Profiling. Current Issues in Molecular Biology, 2021, 43, 1685-1697.	2.4	4
22	A-to-I mRNA Editing in a Ferric Siderophore Receptor Improves Competition for Iron in Xanthomonas oryzae pv. oryzicola. Microbiology Spectrum, 2021, 9, e0157121.	3.0	5
23	Loci and Natural Alleles for Low-Nitrogen-Induced Growth Response Revealed by the Genome-Wide Association Study Analysis in Rice (Oryza sativa L.). Frontiers in Plant Science, 2021, 12, 770736.	3.6	4
24	Using <i>Heading date 1</i> preponderant alleles from <i>indica</i> cultivars to breed highâ€yield, highâ€quality <i>japonica</i> rice varieties for cultivation in south China. Plant Biotechnology Journal, 2020, 18, 119-128.	8.3	30
25	ABNORMAL FLOWER AND GRAIN 1 encodes OsMADS6 and determines palea identity and affects rice grain yield and quality. Science China Life Sciences, 2020, 63, 228-238.	4.9	28
26	QTL analysis for rice salinity tolerance and fine mapping of a candidate locus qSL7 for shoot length under salt stress. Plant Growth Regulation, 2020, 90, 307-319.	3.4	38
27	The Tolerance of Salinity in Rice Requires the Presence of a Functional Copy of FLN2. Biomolecules, 2020, 10, 17.	4.0	28
28	MORE FLORET1 Encodes a MYB Transcription Factor That Regulates Spikelet Development in Rice. Plant Physiology, 2020, 184, 251-265.	4.8	16
29	QTL identification for salt tolerance related traits at the seedling stage in indica rice using a multi-parent advanced generation intercross (MAGIC) population. Plant Growth Regulation, 2020, 92, 365-373.	3.4	14
30	Construction of a High-Density Genetic Map Based on SLAF Markers and QTL Analysis of Leaf Size in Rice. Frontiers in Plant Science, 2020, 11, 1143.	3.6	16
31	Leaf width gene LW5/D1 affects plant architecture and yield in rice by regulating nitrogen utilization efficiency. Plant Physiology and Biochemistry, 2020, 157, 359-369.	5.8	17
32	OsCRS2 encoding a peptidyl-tRNA hydrolase protein is essential for chloroplast development in rice. Plant Growth Regulation, 2020, 92, 535-545.	3.4	3
33	OsCAF2 contains two CRM domains and is necessary for chloroplast development in rice. BMC Plant Biology, 2020, 20, 381.	3.6	9
34	Genome-Wide Association Study of Grain Size Traits in Indica Rice Multiparent Advanced Generation Intercross (MAGIC) Population. Frontiers in Plant Science, 2020, 11, 395.	3.6	19
35	The C2H2 zinc-finger protein LACKING RUDIMENTARY GLUME 1 regulates spikelet development in rice. Science Bulletin, 2020, 65, 753-764.	9.0	16
36	Genetic Analysis for Cooking and Eating Quality of Super Rice and Fine Mapping of a Novel Locus qGC10 for Gel Consistency. Frontiers in Plant Science, 2020, 11, 342.	3.6	22

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37	Diverse genetic mechanisms underlie worldwide convergent rice feralization. Genome Biology, 2020, 21, 70.	8.8	55
38	Natural variation in the promoter of <i>TGW2</i> determines grain width and weight in rice. New Phytologist, 2020, 227, 629-640.	7.3	89
39	Production of novel beneficial alleles of a rice yieldâ€related QTL by CRISPR/Cas9. Plant Biotechnology Journal, 2020, 18, 1987-1989.	8.3	33
40	Primary leafâ€type ferredoxinÂ1 participates in photosynthetic electron transport and carbon assimilation in rice. Plant Journal, 2020, 104, 44-58.	5.7	26
41	The Genomes of the Allohexaploid Echinochloa crus-galli and Its Progenitors Provide Insights into Polyploidization-Driven Adaptation. Molecular Plant, 2020, 13, 1298-1310.	8.3	47
42	The heterochronic gene <i>Oryza sativa LIKE HETEROCHROMATIN PROTEIN 1</i> modulates miR156b/c/i/e levels. Journal of Integrative Plant Biology, 2020, 62, 1839-1852.	8.5	9
43	Genome Sequence of <i>Micromonospora terminaliae</i> TMS7^T, a New Endophytic Actinobacterium Isolated from the Medicinal Plant <i>Terminalia mucronata</i>. Molecular Plant-Microbe Interactions, 2020, 33, 721-723.	2.6	5
44	Characterization of the CRM Gene Family and Elucidating the Function of OsCFM2 in Rice. Biomolecules, 2020, 10, 327.	4.0	9
45	Development of nutritious rice with high zinc/selenium and low cadmium in grains through QTL pyramiding. Journal of Integrative Plant Biology, 2020, 62, 349-359.	8.5	25
46	A Strigolactone Biosynthesis Gene Contributed to the Green Revolution in Rice. Molecular Plant, 2020, 13, 923-932.	8.3	91
47	OsSLC1 Encodes a Pentatricopeptide Repeat Protein Essential for Early Chloroplast Development and Seedling Survival. Rice, 2020, 13, 25.	4.0	22
48	Isolation of TSCD11 Gene for Early Chloroplast Development under High Temperature in Rice. Rice, 2020, 13, 49.	4.0	11
49	Short-term stress from high light and high temperature triggers transcriptomic changes in the <i>local lesions 1</i> rice mutant. Plant Signaling and Behavior, 2019, 14, e1649568.	2.4	0
50	<i><scp>AH</scp>2</i> encodes a <scp>MYB</scp> domain protein that determines hull fate and affects grain yield and quality in rice. Plant Journal, 2019, 100, 813-824.	5.7	36
51	The indica nitrate reductase gene OsNR2 allele enhances rice yield potential and nitrogen use efficiency. Nature Communications, 2019, 10, 5207.	12.8	151
52	A 3-bp deletion of WLS5 gene leads to weak growth and early leaf senescence in rice. Rice, 2019, 12, 26.	4.0	6
53	OsCAF1, a CRM Domain Containing Protein, Influences Chloroplast Development. International Journal of Molecular Sciences, 2019, 20, 4386.	4.1	13
54	Characterization, Expression, and Interaction Analyses of OsMORF Gene Family in Rice. Genes, 2019, 10, 694.	2.4	10

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55	Disruption of Î¶-Carotene Desaturase Protein ALE1 Leads to Chloroplast Developmental Defects and Seedling Lethality. Journal of Agricultural and Food Chemistry, 2019, 67, 11607-11615.	5.2	7
56	FON 4 prevents the multiâ€floret spikelet in rice. Plant Biotechnology Journal, 2019, 17, 1007-1009.	8.3	29
57	Functional characterization of OsHAK1 promoter in response to osmotic/drought stress by deletion analysis in transgenic rice. Plant Growth Regulation, 2019, 88, 241-251.	3.4	14
58	Development of Three Sets of High-Throughput Genotyped Rice Chromosome Segment Substitution Lines and QTL Mapping for Eleven Traits. Rice, 2019, 12, 33.	4.0	26
59	A Nckâ€associated protein 1â€like protein affects drought sensitivity by its involvement in leaf epidermal development and stomatal closure in rice. Plant Journal, 2019, 98, 884-897.	5.7	19
60	Enhanced Expression of QTL qLL9/DEP1 Facilitates the Improvement of Leaf Morphology and Grain Yield in Rice. International Journal of Molecular Sciences, 2019, 20, 866.	4.1	18
61	Using CRISPR-Cas9 to generate semi-dwarf rice lines in elite landraces. Scientific Reports, 2019, 9, 19096.	3.3	45
62	Os<scp>ACL</scp>â€A2 negatively regulates cell death and disease resistance in rice. Plant Biotechnology Journal, 2019, 17, 1344-1356.	8.3	46
63	DNA damage and reactive oxygen species cause cell death in the rice <i>local lesions 1</i> mutant under high light and high temperature. New Phytologist, 2019, 222, 349-365.	7.3	44
64	Functional Analysis of Three Rice Chloroplast Transit Peptides. Rice Science, 2019, 26, 11-20.	3.9	3
65	<i>PALE-GREEN LEAF12</i> Encodes a Novel Pentatricopeptide Repeat Protein Required for Chloroplast Development and 16S rRNA Processing in Rice. Plant and Cell Physiology, 2019, 60, 587-598.	3.1	24
66	Complete Genome Sequence of Pseudomonas Parafulva PRS09-11288, a Biocontrol Strain Produces the Antibiotic Phenazine-1-carboxylic Acid. Current Microbiology, 2019, 76, 1087-1091.	2.2	11
67	New QTLs identified for leaf correlative traits in rice seedlings under cadmium stress. Plant Growth Regulation, 2018, 85, 329-335.	3.4	15
68	The newly identified heat-stress sensitive albino 1 gene affects chloroplast development in rice. Plant Science, 2018, 267, 168-179.	3.6	70
69	â€˜Twoâ€floret spikeletâ€™ as a novel resource has the potential to increase rice yield. Plant Biotechnology Journal, 2018, 16, 351-353.	8.3	34
70	The rice white green leaf 2 gene causes defects in chloroplast development and affects the plastid ribosomal protein S9. Rice, 2018, 11, 39.	4.0	35
71	Genomic Clues for Cropâ€"Weed Interactions and Evolution. Trends in Plant Science, 2018, 23, 1102-1115.	8.8	44
72	Knocking Out the Gene RLS1 Induces Hypersensitivity to Oxidative Stress and Premature Leaf Senescence in Rice. International Journal of Molecular Sciences, 2018, 19, 2853.	4.1	12

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73	Sensing of Abiotic Stress and Ionic Stress Responses in Plants. International Journal of Molecular Sciences, 2018, 19, 3298.	4.1	67
74	Natural variation among Arabidopsis thaliana accessions in tolerance to high magnesium supply. Scientific Reports, 2018, 8, 13640.	3.3	15
75	FZP determines grain size and sterile lemma fate in rice. Journal of Experimental Botany, 2018, 69, 4853-4866.	4.8	45
76	Xiaowei, a New Rice Germplasm for Large-Scale Indoor Research. Molecular Plant, 2018, 11, 1418-1420.	8.3	24
77	OsHAK1 controls the vegetative growth and panicle fertility of rice by its effect on potassium-mediated sugar metabolism. Plant Science, 2018, 274, 261-270.	3.6	29
78	Narrow albino leaf 1 is allelic to CHR729, regulates leaf morphogenesis and development by affecting auxin metabolism in rice. Plant Growth Regulation, 2017, 82, 175-186.	3.4	8
79	A Rice <i>PECTATE LYASE-LIKE</i> Gene Is Required for Plant Growth and Leaf Senescence. Plant Physiology, 2017, 174, 1151-1166.	4.8	96
80	Fine mapping of LOW TILLER 1, a gene controlling tillering and panicle branching in rice. Plant Growth Regulation, 2017, 83, 93-104.	3.4	14
81	Rational design of high-yield and superior-quality rice. Nature Plants, 2017, 3, 17031.	9.3	293
82	Echinochloa crus-galli genome analysis provides insight into its adaptation and invasiveness as a weed. Nature Communications, 2017, 8, 1031.	12.8	138
83	Transcriptome Analysis of Rice Seedling Roots in Response to Potassium Deficiency. Scientific Reports, 2017, 7, 5523.	3.3	32
84	The rice YGL gene encoding an Mg2+-chelatase ChlD subunit is affected by temperature for chlorophyll biosynthesis. Journal of Plant Biology, 2017, 60, 314-321.	2.1	15
85	Characterization and fine mapping of a new early leaf senescence mutant es3(t) in rice. Plant Growth Regulation, 2017, 81, 419-431.	3.4	18
86	Single-point Mutation of an Histidine-aspartic Domain-containing Gene involving in Chloroplast Ribosome Biogenesis Leads to White Fine Stripe Leaf in Rice. Scientific Reports, 2017, 7, 3298.	3.3	13
87	Full-length sequence assembly reveals circular RNAs with diverse non-GT/AG splicing signals in rice. RNA Biology, 2017, 14, 1055-1063.	3.1	113
88	Fine Mapping of a Novel defective glume 1 (dg1) Mutant, Which Affects Vegetative and Spikelet Development in Rice. Frontiers in Plant Science, 2017, 8, 486.	3.6	8
89	Genetic analysis for rice seedling vigor and fine mapping of a major QTL <i>qSSL1b</i> for seedling shoot length. Breeding Science, 2017, 67, 307-315.	1.9	40
90	Whole genome sequence of Pantoea ananatis R100, an antagonistic bacterium isolated from rice seed. Journal of Biotechnology, 2016, 225, 1-2.	3.8	27

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91	Fine Mapping Identifies a New QTL for Brown Rice Rate in Rice (Oryza Sativa L.). Rice, 2016, 9, 4.	4.0	38
92	Whole genome sequence of Pseudomonas aeruginosa F9676, an antagonistic bacterium isolated from rice seed. Journal of Biotechnology, 2015, 211, 77-78.	3.8	5
93	A Rare Allele of GS2 Enhances Grain Size and Grain Yield in Rice. Molecular Plant, 2015, 8, 1455-1465.	8.3	382
94	Full genome sequence of Brevibacillus laterosporus strain B9, a biological control strain isolated from Zhejiang, China. Journal of Biotechnology, 2015, 207, 77-78.	3.8	7
95	Genome sequence of Xanthomonas sacchari R1, a biocontrol bacterium isolated from the rice seed. Journal of Biotechnology, 2015, 206, 77-78.	3.8	19
96	Identification of quantitative trait loci associated with tolerance to low potassium and related ions concentrations at seedling stage in rice (Oryza sativa L.). Plant Growth Regulation, 2015, 77, 157-166.	3.4	17
97	Heterotrimeric G proteins regulate nitrogen-use efficiency in rice. Nature Genetics, 2014, 46, 652-656.	21.4	338
98	QTLs and candidate genes for chlorate resistance in rice (Oryzasativa L.). Euphytica, 2006, 152, 141-148.	1.2	14
99	Combining GWAS, Genome-Wide Domestication and a Transcriptomic Analysis Reveals the Loci and Natural Alleles of Salt Tolerance in Rice (Oryza sativa L.). Frontiers in Plant Science, 0, 13, .	3.6	13