Xiangbing Meng

List of Publications by Year
in descending order

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44	6,531	117453	223531
papers	citations	34 h-index	46 g-index

47	47	47	6097
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	DWARF 53 acts as a repressor of strigolactone signalling in rice. Nature, 2013, 504, 401-405.	13.7	660
2	Genome-Wide Binding Analysis of the Transcription Activator IDEAL PLANT ARCHITECTURE1 Reveals a Complex Network Regulating Rice Plant Architecture. Plant Cell, 2013, 25, 3743-3759.	3.1	588
3	DWARF27, an Iron-Containing Protein Required for the Biosynthesis of Strigolactones, Regulates Rice Tiller Bud Outgrowth Â. Plant Cell, 2009, 21, 1512-1525.	3.1	549
4	Copy number variation at the GL7 locus contributes to grain size diversity in rice. Nature Genetics, 2015, 47, 944-948.	9.4	485
5	Strigolactone Signaling in Arabidopsis Regulates Shoot Development by Targeting D53-Like SMXL Repressor Proteins for Ubiquitination and Degradation. Plant Cell, 2015, 27, 3128-3142.	3.1	310
6	Gene replacements and insertions in rice by intron targeting using CRISPRâ€“Cas9. Nature Plants, 2016, 2, 16139.	4.7	303
7	Targeted, random mutagenesis of plant genes with dual cytosine and adenine base editors. Nature Biotechnology, 2020, 38, 875-882.	9.4	259
8	A route to de novo domestication of wild allotetraploid rice. Cell, 2021, 184, 1156-1170.e14.	13.5	259
9	IPA1 functions as a downstream transcription factor repressed by D53 in strigolactone signaling in rice. Cell Research, 2017, 27, 1128-1141.	5.7	229
10	Expression of the Nitrate Transporter Gene OsNRT1.1A/OsNPF6.3 Confers High Yield and Early Maturation in Rice. Plant Cell, 2018, 30, 638-651.	3.1	227
11	Short panicle1 encodes a putative PTR family transporter and determines rice panicle size. Plant Journal, 2009, 58, 592-605.	2.8	215
12	Construction of a Genome-Wide Mutant Library inÂRice Using CRISPR/Cas9. Molecular Plant, 2017, 10, 1238-1241.	3.9	208
13	Degradation of MONOCULM 1 by APC/CTAD1 regulates rice tillering. Nature Communications, 2012, 3, 750.	5.8	168
14	Critical roles of soluble starch synthase SSIIIa and granule-bound starch synthase Waxy in synthesizing resistant starch in rice. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12844-12849.	3.3	154
15	Natural variation of rice strigolactone biosynthesis is associated with the deletion of two MAX1 orthologs. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2379-2384.	3.3	138
16	Strigolactones regulate rice tiller angle by attenuating shoot gravitropism through inhibiting auxin biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11199-11204.	3.3	121
17	MONOCULM 3, an Ortholog of WUSCHEL in Rice, Is Required for Tiller Bud Formation. Journal of Genetics and Genomics, 2015, 42, 71-78.	1.7	121
18	Strigolactone promotes cytokinin degradation through transcriptional activation of CYTOKININ OXIDASE/DEHYDROGENASE 9 in rice. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14319-14324.	3.3	119

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19	A Core Regulatory Pathway Controlling Rice Tiller Angle Mediated by the LAZY1-Dependent Asymmetric Distribution of Auxin. Plant Cell, 2018, 30, 1461-1475.	3.1	114
20	Targeting a gene regulatory element enhances rice grain yield by decoupling panicle number and size. Nature Biotechnology, 2022, 40, 1403-1411.	9.4	110
21	SLR1 inhibits MOC1 degradation to coordinate tiller number and plant height in rice. Nature Communications, 2019, 10, 2738.	5.8	103
22	Tissue-Specific Ubiquitination by IPA1 INTERACTING PROTEIN1 Modulates IPA1 Protein Levels to Regulate Plant Architecture in Rice. Plant Cell, 2017, 29, 697-707.	3.1	102
23	Tiller Bud Formation Regulators MOC1 and MOC3 Cooperatively Promote Tiller Bud Outgrowth by Activating FON1 Expression in Rice. Molecular Plant, 2019, 12, 1090-1102.	3.9	93
24	A Strigolactone Biosynthesis Gene Contributed to the Green Revolution in Rice. Molecular Plant, 2020, 13, 923-932.	3.9	91
25	Rice gene OsNAC19 encodes a novel NAC-domain transcription factor and responds to infection by Magnaporthe grisea. Plant Science, 2007, 172, 120-130.	1.7	88
26	<scp>xC</scp>as9 expands the scope of genome editing with reduced efficiency in rice. Plant Biotechnology Journal, 2019, 17, 709-711.	4.1	79
27	Increasing the efficiency of CRISPRâ€Cas9â€VQR precise genome editing in rice. Plant Biotechnology Journal, 2018, 16, 292-297.	4.1	78
28	OsBRXL4 Regulates Shoot Gravitropism and Rice Tiller Angle through Affecting LAZY1 Nuclear Localization. Molecular Plant, 2019, 12, 1143-1156.	3.9	71
29	Î¶-Carotene Isomerase Suppresses Tillering in Rice through the Coordinated Biosynthesis of Strigolactone and Abscisic Acid. Molecular Plant, 2020, 13, 1784-1801.	3.9	70
30	Karrikin Signaling Acts Parallel to and Additively with Strigolactone Signaling to Regulate Rice Mesocotyl Elongation in Darkness. Plant Cell, 2020, 32, 2780-2805.	3.1	65
31	Regulation of Rice Tillering by RNA-Directed DNA Methylation at Miniature Inverted-Repeat Transposable Elements. Molecular Plant, 2020, 13, 851-863.	3.9	63
32	Generating broad-spectrum tolerance to ALS-inhibiting herbicides in rice by base editing. Science China Life Sciences, 2021, 64, 1624-1633.	2.3	49
33	Robust genome editing of CRISPR-Cas9 at NAG PAMs in rice. Science China Life Sciences, 2018, 61, 122-125.	2.3	48
34	DWARF14, A Receptor Covalently Linked with the Active Form of Strigolactones, Undergoes Strigolactone-Dependent Degradation in Rice. Frontiers in Plant Science, 2017, 8, 1935.	1.7	37
35	Molecular cloning and characterization of a rice gene encoding AP2/EREBP-type transcription factor and its expression in response to infection with blast fungus and abiotic stresses. Physiological and Molecular Plant Pathology, 2007, 70, 60-68.	1.3	34
36	LAZY2 controls rice tiller angle through regulating starch biosynthesis in gravityâ€sensing cells. New Phytologist, 2021, 231, 1073-1087.	3.5	27

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37	Enhancing rice grain production by manipulating the naturally evolved cis-regulatory element-containing inverted repeat sequence of OsREM20. Molecular Plant, 2021, 14, 997-1011.	3.9	19
38	OsMPK4 promotes phosphorylation and degradation of IPA1 in response to salt stress to confer salt tolerance in rice. Journal of Genetics and Genomics, 2022, 49, 766-775.	1.7	16
39	Expanding the scope of genome editing with SpG and SpRY variants in rice. Science China Life Sciences, 2021, 64, 1784-1787.	2.3	15
40	Improving the efficiency of the CRISPR-Cas12a system with tRNA-crRNA arrays. Crop Journal, 2020, 8, 403-407.	2.3	12
41	ScCas9 recognizes NNG protospacer adjacent motif in genome editing of rice. Science China Life Sciences, 2020, 63, 450-452.	2.3	12
42	FED: a web tool for foreign element detection of genome-edited organism. Science China Life Sciences, 2021, 64, 167-170.	2.3	8
43	Cloning and Characterization of the DHDPS Gene Encoding the Lysine Biosynthetic Enzyme Dihydrodipocolinate Synthase from Zizania latifolia (Griseb). Plant Molecular Biology Reporter, 2009, 27, 199-208.	1.0	7
44	Gene Replacement by Intron Targeting with CRISPR-Cas9. Methods in Molecular Biology, 2019, 1917, 285-296.	0.4	4