Yonghong Wang

List of Publications by Year
in descending order

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47	8,851	101384	214527
papers	citations	36 h-index	47 g-index

64	64	64	7228
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Regulation of OsSPL14 by OsmiR156 defines ideal plant architecture in rice. Nature Genetics, 2010, 42, 541-544.	9.4	1,240
2	DWARF 53 acts as a repressor of strigolactone signalling in rice. Nature, 2013, 504, 401-405.	13.7	660
3	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
4	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
5	Molecular Basis of Plant Architecture. Annual Review of Plant Biology, 2008, 59, 253-279.	8.6	512
6	Copy number variation at the GL7 locus contributes to grain size diversity in rice. Nature Genetics, 2015, 47, 944-948.	9.4	485
7	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
8	Rational design of high-yield and superior-quality rice. Nature Plants, 2017, 3, 17031.	4.7	293
9	LAZY1 controls rice shoot gravitropism through regulating polar auxin transport. Cell Research, 2007, 17, 402-410.	5.7	288
10	TAC1, a major quantitative trait locus controlling tiller angle in rice. Plant Journal, 2007, 52, 891-898.	2.8	281
11	A route to de novo domestication of wild allotetraploid rice. Cell, 2021, 184, 1156-1170.e14.	13.5	259
12	IPA1 functions as a downstream transcription factor repressed by D53 in strigolactone signaling in rice. Cell Research, 2017, 27, 1128-1141.	5.7	229
13	Crystal structures of two phytohormone signal-transducing Î±/Î² hydrolases: karrikin-signaling KAI2 and strigolactone-signaling DWARF14. Cell Research, 2013, 23, 436-439.	5.7	222
14	Genomic basis of geographical adaptation to soil nitrogen in rice. Nature, 2021, 590, 600-605.	13.7	204
15	Branching in rice. Current Opinion in Plant Biology, 2011, 14, 94-99.	3.5	200
16	Tryptophan-independent auxin biosynthesis contributes to early embryogenesis in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4821-4826.	3.3	169
17	Degradation of MONOCULM 1 by APC/CTAD1 regulates rice tillering. Nature Communications, 2012, 3, 750.	5.8	168
18	Destabilization of strigolactone receptor DWARF14 by binding of ligand and E3-ligase signaling effector DWARF3. Cell Research, 2015, 25, 1219-1236.	5.7	152

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19	The Plant Architecture of Rice (Oryza sativa). Plant Molecular Biology, 2005, 59, 75-84.	2.0	139
20	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
21	Genes controlling plant architecture. Current Opinion in Biotechnology, 2006, 17, 123-129.	3.3	124
22	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
23	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
24	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
25	Mitogen-Activated Protein Kinase Cascade MKK7-MPK6 Plays Important Roles in Plant Development and Regulates Shoot Branching by Phosphorylating PIN1 in Arabidopsis. PLoS Biology, 2016, 14, e1002550.	2.6	114
26	Targeting a gene regulatory element enhances rice grain yield by decoupling panicle number and size. Nature Biotechnology, 2022, 40, 1403-1411.	9.4	110
27	Towards molecular breeding and improvement of rice in China. Trends in Plant Science, 2005, 10, 610-614.	4.3	108
28	Strigolactone and Karrikin Signaling Pathways Elicit Ubiquitination and Proteolysis of SMXL2 to Regulate Hypocotyl Elongation in Arabidopsis. Plant Cell, 2020, 32, 2251-2270.	3.1	103
29	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
30	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
31	Deficient plastidic fatty acid synthesis triggers cell death by modulating mitochondrial reactive oxygen species. Cell Research, 2015, 25, 621-633.	5.7	80
32	Cytokinin oxidase/dehydrogenase OsCKX11 coordinates source and sink relationship in rice by simultaneous regulation of leaf senescence and grain number. Plant Biotechnology Journal, 2021, 19, 335-350.	4.1	80
33	OsBRXL4 Regulates Shoot Gravitropism and Rice Tiller Angle through Affecting LAZY1 Nuclear Localization. Molecular Plant, 2019, 12, 1143-1156.	3.9	71
34	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
35	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
36	A D53 repression motif induces oligomerization of TOPLESS corepressors and promotes assembly of a corepressor-nucleosome complex. Science Advances, 2017, 3, e1601217.	4.7	64

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37	Genomic evidence of human selection on Vavilovian mimicry. Nature Ecology and Evolution, 2019, 3, 1474-1482.	3.4	38
38	Dynamic expression reveals a two-step patterning of WUS and CLV3 during axillary shoot meristem formation in Arabidopsis. Journal of Plant Physiology, 2017, 214, 1-6.	1.6	36
39	Molecular basis underlying rice tiller angle: Current progress and future perspectives. Molecular Plant, 2022, 15, 125-137.	3.9	29
40	LAZY2 controls rice tiller angle through regulating starch biosynthesis in gravityâ€sensing cells. New Phytologist, 2021, 231, 1073-1087.	3.5	27
41	Development of gene-tagged molecular markers for starch synthesis-related genes in rice. Science Bulletin, 2010, 55, 3768-3777.	1.7	20
42	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
43	Molecular mechanisms underlying plant architecture and its environmental plasticity in rice. Molecular Breeding, 2019, 39, 1.	1.0	15
44	<scp>KNOX II</scp> transcription factor <scp>HOS59</scp> functions in regulating rice grain size. Plant Journal, 2022, 110, 863-880.	2.8	11
45	Advances in the regulation and crosstalks of phytohormones. Science Bulletin, 2009, 54, 4069-4082.	1.7	10
46	Action of Strigolactones in Plants. The Enzymes, 2014, 35, 57-84.	0.7	10
47	OsHYPK-mediated protein N-terminal acetylation coordinates plant development and abiotic stress responses in rice. Molecular Plant, 2022, 15, 740-754.	3.9	9