Yonghong Wang

List of Publications by Citations

46 papers	5,624 citations	31 h-index	64 g-index
64 ext. papers	7,545 ext. citations	16.8 avg, IF	5.35 L-index

#	Paper	IF	Citations
46	Regulation of OsSPL14 by OsmiR156 defines ideal plant architecture in rice. *Nature Genetics*, **2010**, 42, 541-4	36.3	851
45	DWARF 53 acts as a repressor of strigolactone signalling in rice. *Nature*, **2013**, 504, 401-5	50.4	475
44	DWARF27, an iron-containing protein required for the biosynthesis of strigolactones, regulates rice tiller bud outgrowth. *Plant Cell*, **2009**, 21, 1512-25	11.6	431
43	Genome-wide binding analysis of the transcription activator ideal plant architecture1 reveals a complex network regulating rice plant architecture. *Plant Cell*, **2013**, 25, 3743-59	11.6	417
42	Molecular basis of plant architecture. *Annual Review of Plant Biology*, **2008**, 59, 253-79	30.7	339
41	Copy number variation at the GL7 locus contributes to grain size diversity in rice. *Nature Genetics*, **2015**, 47, 944-8	36.3	317
40	Strigolactone Signaling in Arabidopsis Regulates Shoot Development by Targeting D53-Like SMXL Repressor Proteins for Ubiquitination and Degradation. *Plant Cell*, **2015**, 27, 3128-42	11.6	216
39	TAC1, a major quantitative trait locus controlling tiller angle in rice. *Plant Journal*, **2007**, 52, 891-8	6.9	208
38	LAZY1 controls rice shoot gravitropism through regulating polar auxin transport. *Cell Research*, **2007**, 17, 402-10	24.7	202
37	Crystal structures of two phytohormone signal-transducing α/β hydrolases: karrikin-signaling KAI2 and strigolactone-signaling DWARF14. *Cell Research*, **2013**, 23, 436-9	24.7	185
36	Rational design of high-yield and superior-quality rice. *Nature Plants*, **2017**, 3, 17031	11.5	155
35	Branching in rice. *Current Opinion in Plant Biology*, **2011**, 14, 94-9	9.9	147
34	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, 4821-6	11.5	120
33	IPA1 functions as a downstream transcription factor repressed by D53 in strigolactone signaling in rice. *Cell Research*, **2017**, 27, 1128-1141	24.7	115
32	The plant architecture of rice (Oryza sativa). *Plant Molecular Biology*, **2005**, 59, 75-84	4.6	114
31	Destabilization of strigolactone receptor DWARF14 by binding of ligand and E3-ligase signaling effector DWARF3. *Cell Research*, **2015**, 25, 1219-36	24.7	110
30	Degradation of MONOCULM 1 by APC/C(TAD1) regulates rice tillering. *Nature Communications*, **2012**, 3, 750	17.4	110

29	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, 2379-84	11.5	96
28	Towards molecular breeding and improvement of rice in China. *Trends in Plant Science*, **2005**, 10, 610-4	13.1	90
27	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, 11199-204	11.5	88
26	Genes controlling plant architecture. *Current Opinion in Biotechnology*, **2006**, 17, 123-9	11.4	88
25	A route to de novo domestication of wild allotetraploid rice. *Cell*, **2021**, 184, 1156-1170.e14	56.2	81
24	MONOCULM 3, an ortholog of WUSCHEL in rice, is required for tiller bud formation. *Journal of Genetics and Genomics*, **2015**, 42, 71-8	4	73
23	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	9.7	65
22	Genomic basis of geographical adaptation to soil nitrogen in rice. *Nature*, **2021**, 590, 600-605	50.4	59
21	Tissue-Specific Ubiquitination by IPA1 INTERACTING PROTEIN1 Modulates IPA1 Protein Levels to Regulate Plant Architecture in Rice. *Plant Cell*, **2017**, 29, 697-707	11.6	58
20	Deficient plastidic fatty acid synthesis triggers cell death by modulating mitochondrial reactive oxygen species. *Cell Research*, **2015**, 25, 621-33	24.7	57
19	A Core Regulatory Pathway Controlling Rice Tiller Angle Mediated by the -Dependent Asymmetric Distribution of Auxin. *Plant Cell*, **2018**, 30, 1461-1475	11.6	55
18	A D53 repression motif induces oligomerization of TOPLESS corepressors and promotes assembly of a corepressor-nucleosome complex. *Science Advances*, **2017**, 3, e1601217	14.3	40
17	Strigolactone and Karrikin Signaling Pathways Elicit Ubiquitination and Proteolysis of SMXL2 to Regulate Hypocotyl Elongation in Arabidopsis. *Plant Cell*, **2020**, 32, 2251-2270	11.6	38
16	Tiller Bud Formation Regulators MOC1 and MOC3 Cooperatively Promote Tiller Bud Outgrowth by Activating FON1 Expression in Rice. *Molecular Plant*, **2019**, 12, 1090-1102	14.4	36
15	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	11.6	30
14	OsBRXL4 Regulates Shoot Gravitropism and Rice Tiller Angle through Affecting LAZY1 Nuclear Localization. *Molecular Plant*, **2019**, 12, 1143-1156	14.4	29
13	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	3.6	23
12	Karrikin Signaling Acts Parallel to and Additively with Strigolactone Signaling to Regulate Rice Mesocotyl Elongation in Darkness. *Plant Cell*, **2020**, 32, 2780-2805	11.6	22

11	β-Carotene Isomerase Suppresses Tillering in Rice through the Coordinated Biosynthesis of Strigolactone and Abscisic Acid. *Molecular Plant*, **2020**, 13, 1784-1801	14.4	21
10	Development of gene-tagged molecular markers for starch synthesis-related genes in rice. *Science Bulletin*, **2010**, 55, 3768-3777		17
9	Genomic evidence of human selection on Vavilovian mimicry. *Nature Ecology and Evolution*, **2019**, 3, 1474-1482	12.5	11
8	Action of strigolactones in plants. *The Enzymes*, **2014**, 35, 57-84	2.3	9
7	Advances in the regulation and crosstalks of phytohormones. *Science Bulletin*, **2009**, 54, 4069-4082		6
6	Enhancing rice grain production by manipulating the naturally evolved cis-regulatory element-containing inverted repeat sequence of OsREM20. *Molecular Plant*, **2021**, 14, 997-1011	14.4	5
5	Molecular mechanisms underlying plant architecture and its environmental plasticity in rice. *Molecular Breeding*, **2019**, 39, 1	3.4	5
4	Molecular basis underlying rice tiller angle: Current progress and future perspectives.. *Molecular Plant*, **2021**,	14.4	4
3	LAZY2 controls rice tiller angle through regulating starch biosynthesis in gravity-sensing cells. *New Phytologist*, **2021**, 231, 1073-1087	9.8	3
2	Targeting a gene regulatory element enhances rice grain yield by decoupling panicle number and size.. *Nature Biotechnology*, **2022**,	44.5	2
1	OsHYPK-mediated protein N-terminal acetylation coordinates plant development and abiotic stress responses in rice.. *Molecular Plant*, **2022**, 15, 740-754	14.4	1