

Wanqi Liang

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/7151747/wanqi-liang-publications-by-year.pdf>

Version: 2024-04-11

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

91 papers	4,890 citations	38 h-index	69 g-index
97 ext. papers	6,391 ext. citations	8.3 avg, IF	5.33 L-index

#	Paper	IF	Citations
91	Rice SIAH E3 Ligases Interact with RMD Formin and Affect Plant Morphology.. <i>Rice</i> , 2022 , 15, 6	5.8	0
90	Encodes a Type II Formin Required for Rice Morphogenesis.. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
89	SMALL REPRODUCTIVE ORGANS, a SUPERMAN-like transcription factor, regulates stamen and pistil growth in rice. <i>New Phytologist</i> , 2021 , 233, 1701	9.8	1
88	Rice SEPALLATA genes OsMADS5 and OsMADS34 cooperate to limit inflorescence branching by repressing the TERMINAL FLOWER1-like gene RCN4. <i>New Phytologist</i> , 2021 ,	9.8	2
87	Rice Glucose 6-Phosphate/Phosphate Translocator 1 is required for tapetum function and pollen development. <i>Crop Journal</i> , 2021 , 9, 1278-1278	4.6	1
86	Two rice MYB transcription factors maintain male fertility in response to photoperiod by modulating sugar partitioning. <i>New Phytologist</i> , 2021 , 231, 1612-1629	9.8	3
85	MADS1 maintains barley spike morphology at high ambient temperatures. <i>Nature Plants</i> , 2021 , 7, 1093-1107	11.5	7
84	Integrating GWAS and transcriptomics to identify genes involved in seed dormancy in rice. <i>Theoretical and Applied Genetics</i> , 2021 , 134, 3553-3562	6	2
83	HSP70-16 and VDAC3 jointly inhibit seed germination under cold stress in Arabidopsis. <i>Plant, Cell and Environment</i> , 2021 , 44, 3616-3627	8.4	3
82	Rice transcription factor MADS32 regulates floral patterning through interactions with multiple floral homeotic genes. <i>Journal of Experimental Botany</i> , 2021 , 72, 2434-2449	7	1
81	Transcriptome Analysis Reveals Photoperiod-Associated Genes Expressed in Rice Anthers. <i>Frontiers in Plant Science</i> , 2021 , 12, 621561	6.2	5
80	Function of the pseudo phosphotransfer proteins has diverged between rice and Arabidopsis. <i>Plant Journal</i> , 2021 , 106, 159-173	6.9	2
79	Automated High-Resolution Structure Analysis of Plant Root with a Morphological Image Filtering Algorithm. <i>Mathematical Problems in Engineering</i> , 2021 , 2021, 1-14	1.1	
78	AUXIN RESPONSE FACTORS 6 and 17 control the flag leaf angle in rice by regulating secondary cell wall biosynthesis of lamina joints. <i>Plant Cell</i> , 2021 , 33, 3120-3133	11.6	5
77	Carbon Starved Anther modulates sugar and ABA metabolism to protect rice seed germination and seedling fitness. <i>Plant Physiology</i> , 2021 , 187, 2405-2418	6.6	1
76	Gibberellins orchestrate panicle architecture mediated by DELLA-KNOX signalling in rice. <i>Plant Biotechnology Journal</i> , 2021 , 19, 2304-2318	11.6	6
75	Dissection of the Genetic Basis of Rice Panicle Architecture Using a Genome-wide Association Study. <i>Rice</i> , 2021 , 14, 77	5.8	0

74	PERSISTENT TAPETAL CELL2 Is Required for Normal Tapetal Programmed Cell Death and Pollen Wall Patterning. <i>Plant Physiology</i> , 2020 , 182, 962-976	6.6	24
73	Bright Fluorescent Vacuolar Marker Lines Allow Vacuolar Tracing Across Multiple Tissues and Stress Conditions in Rice. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	1
72	NERD1 is required for primexine formation and plasma membrane undulation during microsporogenesis in <i>Arabidopsis thaliana</i> . <i>ABIOTECH</i> , 2020 , 1, 205-218	3.9	3
71	Genome-wide analysis of RopGEF gene family to identify genes contributing to pollen tube growth in rice (<i>Oryza sativa</i>). <i>BMC Plant Biology</i> , 2020 , 20, 95	5.3	11
70	Rice pollen aperture formation is regulated by the interplay between OsINP1 and OsDAF1. <i>Nature Plants</i> , 2020 , 6, 394-403	11.5	16
69	Defective Pollen Wall 3 (DPW3), a novel alpha integrin-like protein, is required for pollen wall formation in rice. <i>New Phytologist</i> , 2020 , 225, 807-822	9.8	21
68	DWT1/DWL2 act together with OsPIP5K1 to regulate plant uniform growth in rice. <i>New Phytologist</i> , 2020 , 225, 1234-1246	9.8	10
67	Grass-Specific Is Essential for Pollen Exine Patterning in Rice. <i>Plant Cell</i> , 2020 , 32, 3961-3977	11.6	7
66	Rice OsBRCA2 Is Required for DNA Double-Strand Break Repair in Meiotic Cells. <i>Frontiers in Plant Science</i> , 2020 , 11, 600820	6.2	4
65	Transcriptome profiling reveals phase-specific gene expression in the developing barley inflorescence. <i>Crop Journal</i> , 2020 , 8, 71-86	4.6	10
64	Wheat AGAMOUS LIKE 6 transcription factors function in stamen development by regulating the expression of. <i>Development (Cambridge)</i> , 2019 , 146,	6.6	7
63	Ostkpr1 functions in anther cuticle development and pollen wall formation in rice. <i>BMC Plant Biology</i> , 2019 , 19, 104	5.3	23
62	Chromatin interacting factor OsVIL2 increases biomass and rice grain yield. <i>Plant Biotechnology Journal</i> , 2019 , 17, 178-187	11.6	15
61	A Multiprotein Complex Regulates Interference-Sensitive Crossover Formation in Rice. <i>Plant Physiology</i> , 2019 , 181, 221-235	6.6	9
60	The Rice Actin-Binding Protein RMD Regulates Light-Dependent Shoot Gravitropism. <i>Plant Physiology</i> , 2019 , 181, 630-644	6.6	9
59	Genome-wide analysis of the barley non-specific lipid transfer protein gene family. <i>Crop Journal</i> , 2019 , 7, 65-76	4.6	11
58	Rice auxin influx carrier OsAUX1 facilitates root hair elongation in response to low external phosphate. <i>Nature Communications</i> , 2018 , 9, 1408	17.4	61
57	Controls Flower Development by Activating Rice. <i>Plant Physiology</i> , 2018 , 177, 713-727	6.6	15

56	A Rice Glutamyl-tRNA Synthetase Modulates Early Anther Cell Division and Patterning. <i>Plant Physiology</i> , 2018 , 177, 728-744	6.6	16
55	Rice Morphology Determinant-Mediated Actin Filament Organization Contributes to Pollen Tube Growth. <i>Plant Physiology</i> , 2018 , 177, 255-270	6.6	11
54	Regulates Spikelet Development by Controlling Regulatory Genes in. <i>Frontiers in Plant Science</i> , 2018 , 9, 102	6.2	8
53	Rice actin binding protein RMD controls crown root angle in response to external phosphate. <i>Nature Communications</i> , 2018 , 9, 2346	17.4	40
52	Loss of LOFSEP Transcription Factor Function Converts Spikelet to Leaf-Like Structures in Rice. <i>Plant Physiology</i> , 2018 , 176, 1646-1664	6.6	33
51	Defective Pollen Wall 2 (DPW2) Encodes an Acyl Transferase Required for Rice Pollen Development. <i>Plant Physiology</i> , 2017 , 173, 240-255	6.6	61
50	Resolvase OsGEN1 Mediates DNA Repair by Homologous Recombination. <i>Plant Physiology</i> , 2017 , 173, 1316-1329	6.6	13
49	Glycerol-3-Phosphate Acyltransferase 3 (OsGPAT3) is required for anther development and male fertility in rice. <i>Journal of Experimental Botany</i> , 2017 , 68, 513-526	7	38
48	Interactions between FLORAL ORGAN NUMBER4 and floral homeotic genes in regulating rice flower development. <i>Journal of Experimental Botany</i> , 2017 , 68, 483-498	7	12
47	Rice fatty acyl-CoA synthetase OsACOS12 is required for tapetum programmed cell death and male fertility. <i>Planta</i> , 2017 , 246, 105-122	4.7	42
46	Rice No Pollen 1 (NP1) is required for anther cuticle formation and pollen exine patterning. <i>Plant Journal</i> , 2017 , 91, 263-277	6.9	37
45	Two rice receptor-like kinases maintain male fertility under changing temperatures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 12327-12332	11.5	56
44	Regulatory network and genetic interactions established by OsMADS34 in rice inflorescence and spikelet morphogenesis. <i>Journal of Integrative Plant Biology</i> , 2017 , 59, 693-707	8.3	15
43	The polyketide synthase OsPKS2 is essential for pollen exine and Ubisch body patterning in rice. <i>Journal of Integrative Plant Biology</i> , 2017 , 59, 612-628	8.3	30
42	Dynamic Regulation of Auxin Response during Rice Development Revealed by Newly Established Hormone Biosensor Markers. <i>Frontiers in Plant Science</i> , 2017 , 8, 256	6.2	30
41	MEIOTIC F-BOX Is Essential for Male Meiotic DNA Double-Strand Break Repair in Rice. <i>Plant Cell</i> , 2016 , 28, 1879-93	11.6	34
40	Postmeiotic development of pollen surface layers requires two Arabidopsis ABCG-type transporters. <i>Plant Cell Reports</i> , 2016 , 35, 1863-73	5.1	22
39	Development of japonica Photo-Sensitive Genic Male Sterile Rice Lines by Editing Carbon Starved Anther Using CRISPR/Cas9. <i>Journal of Genetics and Genomics</i> , 2016 , 43, 415-9	4	69

38	ATP binding cassette G transporters and plant male reproduction. <i>Plant Signaling and Behavior</i> , 2016 , 11, e1136764	2.5	16
37	Defective Tapetum Cell Death 1 (DTC1) Regulates ROS Levels by Binding to Metallothionein during Tapetum Degeneration. <i>Plant Physiology</i> , 2016 , 170, 1611-23	6.6	76
36	Regulatory Role of a Receptor-Like Kinase in Specifying Anther Cell Identity. <i>Plant Physiology</i> , 2016 , 171, 2085-100	6.6	30
35	Dynamic changes of small RNAs in rice spikelet development reveal specialized reproductive phasiRNA pathways. <i>Journal of Experimental Botany</i> , 2016 , 67, 6037-6049	7	69
34	A Rice Ca ²⁺ Binding Protein Is Required for Tapetum Function and Pollen Formation. <i>Plant Physiology</i> , 2016 , 172, 1772-1786	6.6	40
33	The DNA Topoisomerase VI-B Subunit OsMTOPVIB Is Essential for Meiotic Recombination Initiation in Rice. <i>Molecular Plant</i> , 2016 , 9, 1539-1541	14.4	19
32	Interactions of OsMADS1 with Floral Homeotic Genes in Rice Flower Development. <i>Molecular Plant</i> , 2015 , 8, 1366-84	14.4	54
31	Proteomic and phosphoproteomic analyses reveal extensive phosphorylation of regulatory proteins in developing rice anthers. <i>Plant Journal</i> , 2015 , 84, 527-44	6.9	41
30	Brassinosteroids promote development of rice pollen grains and seeds by triggering expression of Carbon Starved Anther, a MYB domain protein. <i>Plant Journal</i> , 2015 , 82, 570-81	6.9	78
29	Two ATP Binding Cassette G Transporters, Rice ATP Binding Cassette G26 and ATP Binding Cassette G15, Collaboratively Regulate Rice Male Reproduction. <i>Plant Physiology</i> , 2015 , 169, 2064-79	6.6	66
28	Jasmonic acid regulates spikelet development in rice. <i>Nature Communications</i> , 2014 , 5, 3476	17.4	150
27	Rice actin-binding protein RMD is a key link in the auxin-actin regulatory loop that controls cell growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 10377-82	11.5	58
26	The Rice Basic Helix-Loop-Helix Transcription Factor TDR INTERACTING PROTEIN2 Is a Central Switch in Early Anther Development. <i>Plant Cell</i> , 2014 , 26, 1512-1524	11.6	120
25	ABORTED MICROSPORES Acts as a Master Regulator of Pollen Wall Formation in Arabidopsis. <i>Plant Cell</i> , 2014 , 26, 1544-1556	11.6	136
24	Dwarf Tiller1, a Wuschel-related homeobox transcription factor, is required for tiller growth in rice. <i>PLoS Genetics</i> , 2014 , 10, e1004154	6	40
23	Rice CYP703A3, a cytochrome P450 hydroxylase, is essential for development of anther cuticle and pollen exine. <i>Journal of Integrative Plant Biology</i> , 2014 , 56, 979-94	8.3	107
22	Post-meiotic deficient anther1 (PDA1) encodes an ABC transporter required for the development of anther cuticle and pollen exine in rice 2013 , 56, 59-68		50
21	OsMADS16 genetically interacts with OsMADS3 and OsMADS58 in specifying floral patterning in rice. <i>Molecular Plant</i> , 2013 , 6, 743-56	14.4	36

20	EAT1 promotes tapetal cell death by regulating aspartic proteases during male reproductive development in rice. <i>Nature Communications</i> , 2013 , 4, 1445	17.4	201
19	MYB56 encoding a R2R3 MYB transcription factor regulates seed size in <i>Arabidopsis thaliana</i> . <i>Journal of Integrative Plant Biology</i> , 2013 , 55, 1166-78	8.3	41
18	Mutation in CSA creates a new photoperiod-sensitive genic male sterile line applicable for hybrid rice seed production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 76-81	11.5	87
17	MTR1 encodes a secretory fasciclin glycoprotein required for male reproductive development in rice. <i>Developmental Cell</i> , 2012 , 22, 1127-37	10.2	67
16	RICE MORPHOLOGY DETERMINANT encodes the type II formin FH5 and regulates rice morphogenesis. <i>Plant Cell</i> , 2011 , 23, 681-700	11.6	75
15	Rice MADS3 regulates ROS homeostasis during late anther development. <i>Plant Cell</i> , 2011 , 23, 515-33	11.6	191
14	PERSISTENT TAPETAL CELL1 encodes a PHD-finger protein that is required for tapetal cell death and pollen development in rice. <i>Plant Physiology</i> , 2011 , 156, 615-30	6.6	186
13	Defective pollen wall is required for anther and microspore development in rice and encodes a fatty acyl carrier protein reductase. <i>Plant Cell</i> , 2011 , 23, 2225-46	11.6	180
12	Genetic interaction of OsMADS3, DROOPING LEAF, and OsMADS13 in specifying rice floral organ identities and meristem determinacy. <i>Plant Physiology</i> , 2011 , 156, 263-74	6.6	69
11	Rice MADS6 interacts with the floral homeotic genes SUPERWOMAN1, MADS3, MADS58, MADS13, and DROOPING LEAF in specifying floral organ identities and meristem fate. <i>Plant Cell</i> , 2011 , 23, 2536-52	11.6	108
10	Identification of gamyb-4 and analysis of the regulatory role of GAMYB in rice anther development. <i>Journal of Integrative Plant Biology</i> , 2010 , 52, 670-8	8.3	72
9	The AGL6-like gene OsMADS6 regulates floral organ and meristem identities in rice. <i>Cell Research</i> , 2010 , 20, 299-313	24.7	108
8	Carbon starved anther encodes a MYB domain protein that regulates sugar partitioning required for rice pollen development. <i>Plant Cell</i> , 2010 , 22, 672-89	11.6	174
7	The ABORTED MICROSPORES regulatory network is required for postmeiotic male reproductive development in <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2010 , 22, 91-107	11.6	235
6	The SEPALLATA-like gene OsMADS34 is required for rice inflorescence and spikelet development. <i>Plant Physiology</i> , 2010 , 153, 728-40	6.6	148
5	Cytochrome P450 family member CYP704B2 catalyzes the {omega}-hydroxylation of fatty acids and is required for anther cutin biosynthesis and pollen exine formation in rice. <i>Plant Cell</i> , 2010 , 22, 173-90	11.6	265
4	OsC6, encoding a lipid transfer protein, is required for postmeiotic anther development in rice. <i>Plant Physiology</i> , 2010 , 154, 149-62	6.6	200
3	The Post-meiotic Deficient Anther1 (PDA1) gene is required for post-meiotic anther development in rice. <i>Journal of Genetics and Genomics</i> , 2010 , 37, 37-46	4	20

2	Genome-wide analysis of basic/helix-loop-helix transcription factor family in rice and Arabidopsis. <i>Plant Physiology</i> , 2006 , 141, 1167-84	6.6	396
1	Oral immunization of mice with plant-derived fimbrial adhesin FaeG induces systemic and mucosal K88ad enterotoxigenic Escherichia coli-specific immune responses. <i>FEMS Immunology and Medical Microbiology</i> , 2006 , 46, 393-9		9