

# Zh He, Z He

## List of Publications by Year in descending order

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92  
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docs citations

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10275  
citing authors

#	ARTICLE	IF	CITATIONS
1	Two Faces of One Seed: Hormonal Regulation of Dormancy and Germination. <i>Molecular Plant</i> , 2016, 9, 34-45.	8.3	709
2	Control of rice grain-filling and yield by a gene with a potential signature of domestication. <i>Nature Genetics</i> , 2008, 40, 1370-1374.	21.4	706
3	Plant hormone jasmonate prioritizes defense over growth by interfering with gibberellin signaling cascade. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E1192-200.	7.1	697
4	Auxin controls seed dormancy through stimulation of abscisic acid signaling by inducing ARF-mediated <i>ABI3</i> activation in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 15485-15490.	7.1	442
5	Perception of Brassinosteroids by the Extracellular Domain of the Receptor Kinase BRI1. <i>Science</i> , 2000, 288, 2360-2363.	12.6	439
6	Epigenetic regulation of antagonistic receptors confers rice blast resistance with yield balance. <i>Science</i> , 2017, 355, 962-965.	12.6	439
7	Functional analysis of rice NPR1-like genes reveals that OsNPR1/NH1 is the rice orthologue conferring disease resistance with enhanced herbivore susceptibility. <i>Plant Biotechnology Journal</i> , 2007, 5, 313-324.	8.3	350
8	ELONGATED UPPERMOST INTERNODE Encodes a Cytochrome P450 Monooxygenase That Epoxidizes Gibberellins in a Novel Deactivation Reaction in Rice. <i>Plant Cell</i> , 2006, 18, 442-456.	6.6	340
9	Dual Regulation Role of <i>GH3.5</i> in Salicylic Acid and Auxin Signaling during <i>Arabidopsis</i> - <i>Pseudomonas syringae</i> Interaction. <i>Plant Physiology</i> , 2007, 145, 450-464.	4.8	268
10	Genetic and epigenetic control of plant heat responses. <i>Frontiers in Plant Science</i> , 2015, 06, 267.	3.6	260
11	Roles of Plant Hormones and Their Interplay in Rice Immunity. <i>Molecular Plant</i> , 2013, 6, 675-685.	8.3	235
12	The receptor kinase <i>CERK1</i> has dual functions in symbiosis and immunity signalling. <i>Plant Journal</i> , 2015, 81, 258-267.	5.7	232
13	The Rice 14-3-3 Gene Family and its Involvement in Responses to Biotic and Abiotic Stress. <i>DNA Research</i> , 2006, 13, 53-63.	3.4	211
14	Overexpression of receptor-like kinase ERECTA improves thermotolerance in rice and tomato. <i>Nature Biotechnology</i> , 2015, 33, 996-1003.	17.5	171
15	A DELLA protein complex controls the arbuscular mycorrhizal symbiosis in plants. <i>Cell Research</i> , 2014, 24, 130-133.	12.0	168
16	Inducible overexpression of Ideal Plant Architecture1 improves both yield and disease resistance in rice. <i>Nature Plants</i> , 2019, 5, 389-400.	9.3	151
17	A natural tandem array alleviates epigenetic repression of IPA1 and leads to superior yielding rice. <i>Nature Communications</i> , 2017, 8, 14789.	12.8	149
18	An H3K27me3 demethylase-HSFA2 regulatory loop orchestrates transgenerational thermomemory in <i>Arabidopsis</i> . <i>Cell Research</i> , 2019, 29, 379-390.	12.0	149

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19	The rice hydroperoxide lyase OsHPL3 functions in defense responses by modulating the oxylipin pathway. <i>Plant Journal</i> , 2012, 71, 763-775.	5.7	140
20	OsCERK1-Mediated Chitin Perception and Immune Signaling Requires Receptor-like Cytoplasmic Kinase 185 to Activate an MAPK Cascade in Rice. <i>Molecular Plant</i> , 2017, 10, 619-633.	8.3	135
21	Genetic characterization and fine mapping of the blast resistance locus Pigm(t) tightly linked to Pi2 and Pi9 in a broad-spectrum resistant Chinese variety. <i>Theoretical and Applied Genetics</i> , 2006, 113, 705-713.	3.6	130
22	Exploiting Broad-Spectrum Disease Resistance in Crops: From Molecular Dissection to Breeding. <i>Annual Review of Plant Biology</i> , 2020, 71, 575-603.	18.7	125
23	GDSL lipases modulate immunity through lipid homeostasis in rice. <i>PLoS Pathogens</i> , 2017, 13, e1006724.	4.7	124
24	Altered Disease Development in the eui Mutants and Eui Overexpressors Indicates that Gibberellins Negatively Regulate Rice Basal Disease Resistance. <i>Molecular Plant</i> , 2008, 1, 528-537.	8.3	123
25	Ca <sup>2+</sup> sensor-mediated ROS scavenging suppresses rice immunity and is exploited by a fungal effector. <i>Cell</i> , 2021, 184, 5391-5404.e17.	28.9	117
26	Growthâ€“defense trade-offs in plants. <i>Current Biology</i> , 2022, 32, R634-R639.	3.9	117
27	An E3â€“Ubiquitin Ligase-BAG Protein Module Controls Plant Innate Immunity and Broad-Spectrum Disease Resistance. <i>Cell Host and Microbe</i> , 2016, 20, 758-769.	11.0	109
28	Rice functional genomics: decadesâ€™ efforts and roads ahead. <i>Science China Life Sciences</i> , 2022, 65, 33-92.	4.9	107
29	A LysM Receptor Heteromer Mediates Perception of Arbuscular Mycorrhizal Symbiotic Signal in Rice. <i>Molecular Plant</i> , 2019, 12, 1561-1576.	8.3	106
30	Warm temperatures induce transgenerational epigenetic release of RNA silencing by inhibiting siRNA biogenesis in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 9171-9176.	7.1	104
31	BENT UPPERMOST INTERNODE1 Encodes the Class II Formin FH5 Crucial for Actin Organization and Rice Development. <i>Plant Cell</i> , 2011, 23, 661-680.	6.6	98
32	An SHRâ€“SCR module specifies legume cortical cell fate to enable nodulation. <i>Nature</i> , 2021, 589, 586-590.	27.8	97
33	Two <i>Arabidopsis</i> cytochrome P450 monooxygenases, CYP714A1 and CYP714A2, function redundantly in plant development through gibberellin deactivation. <i>Plant Journal</i> , 2011, 67, 342-353.	5.7	93
34	Proteomic analysis of rice plasma membrane reveals proteins involved in early defense response to bacterial blight. <i>Proteomics</i> , 2007, 7, 1529-1539.	2.2	86
35	Small DNA Methylation, Big Player in Plant Abiotic Stress Responses and Memory. <i>Frontiers in Plant Science</i> , 2020, 11, 595603.	3.6	82
36	Rice RING protein OsBBI1 with E3 ligase activity confers broad-spectrum resistance against <i>Magnaporthe oryzae</i> by modifying the cell wall defence. <i>Cell Research</i> , 2011, 21, 835-848.	12.0	80

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37	Control of Rice Embryo Development, Shoot Apical Meristem Maintenance, and Grain Yield by a Novel Cytochrome P450. <i>Molecular Plant</i> , 2013, 6, 1945-1960.	8.3	79
38	Arabidopsis Thylakoid Formation 1 Is a Critical Regulator for Dynamics of PSII-LHCII Complexes in Leaf Senescence and Excess Light. <i>Molecular Plant</i> , 2013, 6, 1673-1691.	8.3	78
39	Disruption of <i>OsSULTR3;3</i> reduces phytate and phosphorus concentrations and alters the metabolite profile in rice grains. <i>New Phytologist</i> , 2016, 211, 926-939.	7.3	72
40	RRM Transcription Factors Interact with NLRs and Regulate Broad-Spectrum Blast Resistance in Rice. <i>Molecular Cell</i> , 2019, 74, 996-1009.e7.	9.7	69
41	A Novel Protein RLS1 with NB-ARM Domains Is Involved in Chloroplast Degradation during Leaf Senescence in Rice. <i>Molecular Plant</i> , 2012, 5, 205-217.	8.3	68
42	Sugar homeostasis mediated by cell wall invertase <i>GRAIN INCOMPLETE FILLING 1</i> ( <i>GIF1</i> ) plays a role in pre-existing and induced defence in rice. <i>Molecular Plant Pathology</i> , 2014, 15, 161-173.	4.2	67
43	OsRAR1 and OsSGT1 Physically Interact and Function in Rice Basal Disease Resistance. <i>Molecular Plant-Microbe Interactions</i> , 2008, 21, 294-303.	2.6	66
44	NLRs guard metabolism to coordinate pattern- and effector-triggered immunity. <i>Nature</i> , 2022, 601, 245-251.	27.8	66
45	Induction of H <sub>2</sub> O <sub>2</sub> in transgenic rice leads to cell death and enhanced resistance to both bacterial and fungal pathogens. <i>Transgenic Research</i> , 2003, 12, 577-586.	2.4	63
46	Molecular Basis of Disease Resistance and Perspectives on Breeding Strategies for Resistance Improvement in Crops. <i>Molecular Plant</i> , 2020, 13, 1402-1419.	8.3	59
47	Gibberellin homeostasis and plant height control by EUI and a role for gibberellin in root gravity responses in rice. <i>Cell Research</i> , 2008, 18, 412-421.	12.0	56
48	A plasma membrane transporter coordinates phosphate reallocation and grain filling in cereals. <i>Nature Genetics</i> , 2021, 53, 906-915.	21.4	55
49	Transformation of rice with the Arabidopsis floral regulator LEAFY causes early heading. <i>Transgenic Research</i> , 2000, 9, 223-227.	2.4	54
50	Fine mapping and candidate gene analysis of the novel thermo-sensitive genic male sterility <i>tms9-1</i> gene in rice. <i>Theoretical and Applied Genetics</i> , 2014, 127, 1173-1182.	3.6	50
51	The Systemic Acquired Resistance Regulator OsNPR1 Attenuates Growth by Repressing Auxin Signaling through Promoting IAA-Amido Synthase Expression. <i>Plant Physiology</i> , 2016, 172, 546-558.	4.8	50
52	Expression profiling of rice genes in early defense responses to blast and bacterial blight pathogens using cDNA microarray. <i>Physiological and Molecular Plant Pathology</i> , 2006, 68, 51-60.	2.5	49
53	Duplication and independent selection of cell-wall invertase genes <i>GIF1</i> and <i>OscIN1</i> during rice evolution and domestication. <i>BMC Evolutionary Biology</i> , 2010, 10, 108.	3.2	44
54	Alpha-picolinic acid, a fungal toxin and mammal apoptosis-inducing agent, elicits hypersensitive-like response and enhances disease resistance in rice. <i>Cell Research</i> , 2004, 14, 27-33.	12.0	42

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55	N-acetylchitooligosaccharides elicit rice defence responses including hypersensitive response-like cell death, oxidative burst and defence gene expression. <i>Physiological and Molecular Plant Pathology</i> , 2004, 64, 263-271.	2.5	39
56	Plasma Membrane Localization and Potential Endocytosis of Constitutively Expressed XA21 Proteins in Transgenic Rice. <i>Molecular Plant</i> , 2010, 3, 917-926.	8.3	38
57	<i>Curved Chimeric Palea 1</i> encoding an EMF1-like protein maintains epigenetic repression of <i>OsmADS58</i> in rice palea development. <i>Plant Journal</i> , 2015, 82, 12-24.	5.7	38
58	Characterization of temperature-sensitive mutants reveals a role for receptor-like kinase SCRAMBLED/STRUBBELIG in coordinating cell proliferation and differentiation during Arabidopsis leaf development. <i>Plant Journal</i> , 2012, 72, 707-720.	5.7	36
59	BEAK-SHAPED GRAIN 1/TRIANGULAR HULL 1, a DUF640 gene, is associated with grain shape, size and weight in rice. <i>Science China Life Sciences</i> , 2013, 56, 275-283.	4.9	36
60	Quantitative trait locus analysis and fine mapping of the qPL6 locus for panicle length in rice. <i>Theoretical and Applied Genetics</i> , 2015, 128, 1151-1161.	3.6	35
61	An MKP-MAPK protein phosphorylation cascade controls vascular immunity in plants. <i>Science Advances</i> , 2022, 8, eabg8723.	10.3	35
62	Characterization and Fine Mapping of a Novel Rice Albino Mutant low temperature albino 1. <i>Journal of Genetics and Genomics</i> , 2012, 39, 385-396.	3.9	32
63	A nucleotide-binding site-leucine-rich repeat receptor pair confers broad-spectrum disease resistance through physical association in rice. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180308.	4.0	31
64	STRIPE2 Encodes a Putative dCMP Deaminase that Plays an Important Role in Chloroplast Development in Rice. <i>Journal of Genetics and Genomics</i> , 2014, 41, 539-548.	3.9	30
65	<i>Arabidopsis</i> Acetyl-amido Synthetase GH3.5 Involvement in Camalexin Biosynthesis through Conjugation of Indole-3-Carboxylic Acid and Cysteine and Upregulation of Camalexin Biosynthesis Genes. <i>Journal of Integrative Plant Biology</i> , 2012, 54, 471-485.	8.5	29
66	Salicyloyl-aspartate synthesized by the acetyl-amido synthetase GH3.5 is a potential activator of plant immunity in <i>Arabidopsis</i> . <i>Acta Biochimica Et Biophysica Sinica</i> , 2013, 45, 827-836.	2.0	28
67	Rice copine genes <i>OsbON1</i> and <i>OsbON3</i> function as suppressors of broad-spectrum disease resistance. <i>Plant Biotechnology Journal</i> , 2018, 16, 1476-1487.	8.3	27
68	A Temperature-Sensitive Misfolded bri1-301 Receptor Requires Its Kinase Activity to Promote Growth. <i>Plant Physiology</i> , 2018, 178, 1704-1719.	4.8	26
69	<i>Arabidopsis</i> GH3.5 regulates salicylic acid-dependent and both NPR1-dependent and independent defense responses. <i>Plant Signaling and Behavior</i> , 2008, 3, 537-542.	2.4	25
70	Grain Size Selection Using Novel Functional Markers Targeting 14 Genes in Rice. <i>Rice</i> , 2020, 13, 63.	4.0	24
71	Physiological and Molecular Features of the Pathosystem <i>Arabidopsis thaliana</i> L. Sclerotinia sclerotiorum. <i>Journal of Integrative Plant Biology</i> , 2006, 48, 44-52.	8.5	21
72	Gibberellins. , 2017, , 107-160.		20

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73	Marker-free, tissue-specific expression of <i>Cry1Ab</i> as a safe transgenic strategy for insect resistance in rice plants. <i>Pest Management Science</i> , 2013, 69, 135-141.	3.4	18
74	Thymidine kinases share a conserved function for nucleotide salvage and play an essential role in <i>Arabidopsis thaliana</i> growth and development. <i>New Phytologist</i> , 2015, 208, 1089-1103.	7.3	17
75	Transiently Expressed Short Hairpin RNA Targeting 126 kDa Protein of Tobacco Mosaic Virus Interferes with Virus Infection. <i>Acta Biochimica Et Biophysica Sinica</i> , 2006, 38, 22-28.	2.0	15
76	Deep Sequencing Uncovers Rice Long siRNAs and Its Involvement in Immunity Against <i>Rhizoctonia solani</i> . <i>Phytopathology</i> , 2018, 108, 60-69.	2.2	15
77	A novel ABA-hypersensitive mutant in <i>Arabidopsis</i> defines a genetic locus that confers tolerance to xerothermic stress. <i>Planta</i> , 2006, 224, 889-899.	3.2	14
78	Proteomic Analysis of Rice Plasma Membrane-associated Proteins in Response to Chitooligosaccharide Elicitors. <i>Journal of Integrative Plant Biology</i> , 2007, 49, 863-870.	8.5	14
79	Map-Based Cloning and Breeding Application of a Broad-Spectrum Resistance Gene <i>Pigm</i> to Rice Blast. , 2009, , 161-171.		14
80	Elimination of a Retrotransposon for Quenching Genome Instability in Modern Rice. <i>Molecular Plant</i> , 2019, 12, 1395-1407.	8.3	12
81	Differential Requirement of <i>Oryza sativa</i> RAR1 in Immune Receptor-Mediated Resistance of Rice to <i>Magnaporthe oryzae</i> . <i>Molecules and Cells</i> , 2013, 35, 327-334.	2.6	11
82	Characterization and mapping of a novel mutant <i>sms1</i> (senescence and male sterility 1) in rice. <i>Journal of Genetics and Genomics</i> , 2010, 37, 47-55.	3.9	10
83	Roles of small RNAs in crop disease resistance. <i>Stress Biology</i> , 2021, 1, 1.	3.1	8
84	Genome sequencing of the bacterial blight pathogen DY89031 reveals its diverse virulence and origins of <i>Xanthomonas oryzae</i> pv. <i>oryzae</i> strains. <i>Science China Life Sciences</i> , 2021, 64, 2175-2185.	4.9	7
85	A Viral Protein Suppresses siRNA-directed Interference in Tobacco Mosaic Virus Infection. <i>Acta Biochimica Et Biophysica Sinica</i> , 2005, 37, 248-253.	2.0	5
86	Exploration and selection of elite <i>Sd1</i> alleles for rice design breeding. <i>Molecular Breeding</i> , 2020, 40, 1.	2.1	5
87	Gibberellins Modulate Abiotic Stress Tolerance in Plants. <i>Scientia Sinica Vitae</i> , 2013, 43, 1119-1126.	0.3	3
88	Molecular cloning of differentially expressed novel rice genes induced by <i>Magnaporthe grisea</i> . <i>Science Bulletin</i> , 1997, 42, 1748-1750.	1.7	2
89	Studies on Innate Immunity in Rice. <i>Scientia Sinica Vitae</i> , 2013, 43, 1016-1029.	0.3	2
90	NADase and now Ca <sup>2+</sup> channel, what else to learn about plant NLRs?. <i>Stress Biology</i> , 2021, 1, 1.	3.1	1

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91	A combined approach to evaluate total phosphorus/inorganic phosphate levels in plants. STAR Protocols, 2022, 3, 101456.	1.2	1
92	Overview of Rim2/Hipa transposon superfamily: Structure, distribution, transposition and utilization. Progress in Natural Science: Materials International, 2008, 18, 375-379.	4.4	0