Zengyan Zhang

List of Publications by Year in Descending Order

48 papers	1,565 citations	23 h-index	39 g-index
53 ext. papers	2,081 ext. citations	5.6 avg, IF	4.39 L-index

#	Paper	IF	Citations
48	The Wheat Wall-Associated Receptor-Like Kinase TaWAK-6D Mediates Broad Resistance to Two Fungal Pathogens and. *Frontiers in Plant Science*, **2021**, 12, 758196	6.2	2
47	The Wall-Associated Receptor-Like Kinase TaWAK7D Is Required for Defense Responses to in Wheat. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	3
46	The mitogen-activated protein kinase kinase TaMKK5 mediates immunity via the TaMKK5-TaMPK3-TaERF3 module. *Plant Physiology*, **2021**, 187, 2323-2337	6.6	2
45	The cysteine-rich receptor-like kinase TaCRK3 contributes to defense against Rhizoctonia cerealis in wheat. *Journal of Experimental Botany*, **2021**, 72, 6904-6919	7	4
44	Overexpression of TaSTT3b-2B improves resistance to sharp eyespot and increases grain weight in wheat. *Plant Biotechnology Journal*, **2021**,	11.6	3
43	Global Characterization of GH10 Family Xylanase Genes in and Functional Analysis of Xylanase RcXYN1 During Fungus Infection in Wheat. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	4
42	Wheat Elongator subunit 4 is required for epigenetic regulation of host immune response to Rhizoctonia cerealis. *Crop Journal*, **2020**, 8, 565-576	4.6	4
41	Genome-Wide Identification of M35 Family Metalloproteases in and Functional Analysis of RcMEP2 as a Virulence Factor during the Fungal Infection to Wheat. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	2
40	The Cysteine-Rich Repeat Protein TaCRR1 Participates in Defense against Both and in Wheat. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	2
39	The wheat LLM-domain-containing transcription factor TaGATA1 positively modulates host immune response to Rhizoctonia cerealis. *Journal of Experimental Botany*, **2020**, 71, 344-355	7	11
38	TaCML36, a wheat calmodulin-like protein, positively participates in an immune response to Rhizoctonia cerealis. *Crop Journal*, **2019**, 7, 608-618	4.6	6
37	Constitutive expression of a stabilized transcription factor group VII ethylene response factor enhances waterlogging tolerance in wheat without penalizing grain yield. *Plant, Cell and Environment*, **2019**, 42, 1471-1485	8.4	19
36	A wheat caffeic acid 3-O-methyltransferase TaCOMT-3D positively contributes to both resistance to sharp eyespot disease and stem mechanical strength. *Scientific Reports*, **2018**, 8, 6543	4.9	26
35	Molecular and Ultrastructural Mechanisms Underlying Yellow Dwarf Symptom Formation in Wheat after Infection of Barley Yellow Dwarf Virus. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	12
34	Silencing of the Wheat Protein Phosphatase 2A Catalytic Subunit TaPP2Ac Enhances Host Resistance to the Necrotrophic Pathogen. *Frontiers in Plant Science*, **2018**, 9, 1437	6.2	11
33	Genome-Wide Identification and Expression Analysis of Cutinase Gene Family in and Functional Study of an Active Cutinase RcCUT1 in the Fungal-Wheat Interaction. *Frontiers in Microbiology*, **2018**, 9, 1813	5.7	17
32	Investigation of the mechanism of adult-stage resistance to barley yellow dwarf virus associated with a wheat□hinopyrum intermedium translocation. *Crop Journal*, **2018**, 6, 394-405	4.6	

31	TaPIMP2, a pathogen-induced MYB protein in wheat, contributes to host resistance to common root rot caused by Bipolaris sorokiniana. *Scientific Reports*, **2017**, 7, 1754	4.9	13
30	The wheat NB-LRR gene TaRCR1 is required for host defence response to the necrotrophic fungal pathogen Rhizoctonia cerealis. *Plant Biotechnology Journal*, **2017**, 15, 674-687	11.6	33
29	Powdery Mildew Resistance in Wheat Cultivar Mv Hombis Conferred by a New Gene, PmHo. *Phytopathology*, **2016**, 106, 1326-1334	3.8	1
28	The wheat R2R3-MYB transcription factor TaRIM1 participates in resistance response against the pathogen Rhizoctonia cerealis infection through regulating defense genes. *Scientific Reports*, **2016**, 6, 28777	4.9	40
27	A Wheat Cinnamyl Alcohol Dehydrogenase TaCAD12 Contributes to Host Resistance to the Sharp Eyespot Disease. *Frontiers in Plant Science*, **2016**, 7, 1723	6.2	23
26	The wheat calcium-dependent protein kinase TaCPK7-D positively regulates host resistance to sharp eyespot disease. *Molecular Plant Pathology*, **2016**, 17, 1252-64	5.7	23
25	GmPGIP3 enhanced resistance to both take-all and common root rot diseases in transgenic wheat. *Functional and Integrative Genomics*, **2015**, 15, 375-81	3.8	15
24	The wheat AGC kinase TaAGC1 is a positive contributor to host resistance to the necrotrophic pathogen Rhizoctonia cerealis. *Journal of Experimental Botany*, **2015**, 66, 6591-603	7	32
23	The ERF transcription factor TaERF3 promotes tolerance to salt and drought stresses in wheat. *Plant Biotechnology Journal*, **2014**, 12, 468-79	11.6	179
22	Isolation and characterization of a novel wall-associated kinase gene TaWAK5 in wheat (Triticum aestivum). *Crop Journal*, **2014**, 2, 255-266	4.6	14
21	Transcript suppression of TaGW2 increased grain width and weight in bread wheat. *Functional and Integrative Genomics*, **2014**, 14, 341-9	3.8	49
20	Molecular mapping of a stripe rust resistance gene in wheat line C51. *Journal of Genetics*, **2014**, 93, 443-50	1.2	7
19	The wheat ethylene response factor transcription factor pathogen-induced ERF1 mediates host responses to both the necrotrophic pathogen Rhizoctonia cerealis and freezing stresses. *Plant Physiology*, **2014**, 164, 1499-514	6.6	121
18	Expression of a potato antimicrobial peptide SN1 increases resistance to take-all pathogen Gaeumannomyces graminis var. tritici in transgenic wheat. *Functional and Integrative Genomics*, **2013**, 13, 403-9	3.8	35
17	Wheat resistome in response to barley yellow dwarf virus infection. *Functional and Integrative Genomics*, **2013**, 13, 155-65	3.8	15
16	Transgenic wheat expressing Thinopyrum intermedium MYB transcription factor TiMYB2R-1 shows enhanced resistance to the take-all disease. *Journal of Experimental Botany*, **2013**, 64, 2243-53	7	60
15	Isolation and characterization of a novel wheat cysteine-rich receptor-like kinase gene induced by Rhizoctonia cerealis. *Scientific Reports*, **2013**, 3, 3021	4.9	34
14	Overexpression of wheat lipid transfer protein gene TaLTP5 increases resistances to Cochliobolus sativus and Fusarium graminearum in transgenic wheat. *Functional and Integrative Genomics*, **2012**, 12, 481-8	3.8	50

13	An R2R3 MYB transcription factor in wheat, TaPIMP1, mediates host resistance to Bipolaris sorokiniana and drought stresses through regulation of defense- and stress-related genes. *New Phytologist*, **2012**, 196, 1155-1170	9.8	134
12	Expression of a radish defensin in transgenic wheat confers increased resistance to Fusarium graminearum and Rhizoctonia cerealis. *Functional and Integrative Genomics*, **2011**, 11, 63-70	3.8	77
11	Expression of a wheat MYB gene in transgenic tobacco enhances resistance to Ralstonia solanacearum, and to drought and salt stresses. *Functional and Integrative Genomics*, **2011**, 11, 431-43	3.8	88
10	Identification and molecular mapping of a resistance gene to powdery mildew from the synthetic wheat line M53. *Journal of Applied Genetics*, **2011**, 52, 137-43	2.5	9
9	Overexpression of TaPIEP1, a pathogen-induced ERF gene of wheat, confers host-enhanced resistance to fungal pathogen Bipolaris sorokiniana. *Functional and Integrative Genomics*, **2010**, 10, 215-26	3.8	71
8	Identification and antifungal assay of a wheat beta-1,3-glucanase. *Biotechnology Letters*, **2009**, 31, 1005-10	3	31
7	Research progress in BYDV resistance genes derived from wheat and its wild relatives. *Journal of Genetics and Genomics*, **2009**, 36, 567-73	4	32
6	Overexpression of TiERF1 enhances resistance to sharp eyespot in transgenic wheat. *Journal of Experimental Botany*, **2008**, 59, 4195-204	7	85
5	A novel activator-type ERF of Thinopyrum intermedium, TiERF1, positively regulates defence responses. *Journal of Experimental Botany*, **2008**, 59, 3111-20	7	30
4	A novel ERF transcription activator in wheat and its induction kinetics after pathogen and hormone treatments. *Journal of Experimental Botany*, **2007**, 58, 2993-3003	7	79
3	Development of novel PCR markers linked to the BYDV resistance gene Bdv2 useful in wheat for marker-assisted selection. *Theoretical and Applied Genetics*, **2004**, 109, 433-9	6	34
2	Development and identification of wheat-Ag.pulcherrimum addition line and substitution line with BYDV resistance. *Science in China Series C: Life Sciences*, **1999**, 42, 178-84		3
1	Mapping of a BYDV resistance gene from Thinopyrum intermedium in wheat background by molecular markers. *Science in China Series C: Life Sciences*, **1999**, 42, 663-8		17