Xiaojie Wang

List of Publications by Year
in descending order

78 papers	3,333 citations	136950 32 h-index	168389 53 g-index
80 all docs	80 docs citations	80 times ranked	3109 citing authors

#	Article	IF	Citations
1	High genome heterozygosity and endemic genetic recombination in the wheat stripe rust fungus. Nature Communications, 2013, 4, 2673.	12.8	238
2	<i>Puccinia striiformis</i> f. sp. <i>tritici</i> mi<scp>croRNA</scp>â€like <scp>RNA</scp> 1 (<i>Pst</i>â€milR1), an important pathogenicity factor of <i>Pst</i>, impairs wheat resistance to <i>Pst</i> by suppressing the wheat pathogenesisâ€related 2 gene. New Phytologist, 2017, 215, 338-350.	7.3	168
3	The target gene of taeâ€<scp>miR164</scp>, a novel <scp>NAC</scp> transcription factor from the <scp>NAM</scp> subfamily, negatively regulates resistance of wheat to stripe rust. Molecular Plant Pathology, 2014, 15, 284-296.	4.2	146
4	An effector protein of the wheat stripe rust fungus targets chloroplasts and suppresses chloroplast function. Nature Communications, 2019, 10, 5571.	12.8	129
5	Target of tae-miR408, a chemocyanin-like protein gene (TaCLP1), plays positive roles in wheat response to high-salinity, heavy cupric stress and stripe rust. Plant Molecular Biology, 2013, 83, 433-443.	3.9	118
6	TaNAC8, a novel NAC transcription factor gene in wheat, responds to stripe rust pathogen infection and abiotic stresses. Physiological and Molecular Plant Pathology, 2010, 74, 394-402.	2.5	109
7	Molecular analysis of common wheat genes encoding three types of cytosolic heat shock protein 90 (Hsp90): functional involvement of cytosolic Hsp90s in the control of wheat seedling growth and disease resistance. New Phytologist, 2011, 191, 418-431.	7.3	108
8	cDNA-AFLP analysis reveals differential gene expression in compatible interaction of wheat challenged with Puccinia striiformis f. sp. tritici. BMC Genomics, 2009, 10, 289.	2.8	81
9	Differential gene expression in incompatible interaction between wheat and stripe rust fungus revealed by cDNA-AFLP and comparison to compatible interaction. BMC Plant Biology, 2010, 10, 9.	3.6	81
10	Generation and analysis of expression sequence tags from haustoria of the wheat stripe rust fungus Puccinia striiformis f. sp. Tritici. BMC Genomics, 2009, 10, 626.	2.8	79
11	TaADF7, an actinâ€depolymerizing factor, contributes to wheat resistance against <i>Puccinia striiformis</i>Âf.Âsp. <i>tritici</i>. Plant Journal, 2014, 78, 16-30.	5.7	79
12	Characterization of a pathogenesis-related thaumatin-like protein gene<i>TaPR5</i>from wheat induced by stripe rust fungus. Physiologia Plantarum, 2010, 139, 27-38.	5.2	76
13	Cloning and characterization of a wheat Î²-1,3-glucanase gene induced by the stripe rust pathogen Puccinia striiformis f. sp. tritici. Molecular Biology Reports, 2010, 37, 1045-1052.	2.3	74
14	Inactivation of a wheat protein kinase gene confers broad-spectrum resistance to rust fungi. Cell, 2022, 185, 2961-2974.e19.	28.9	74
15	<scp>PST</scp>ha5a23, a candidate effector from the obligate biotrophic pathogen <scp><i>P</i></scp><i>uccinia striiformis</i> f. sp. <i>tritici</i>, is involved in plant defense suppression and rust pathogenicity. Environmental Microbiology, 2017, 19, 1717-1729.	3.8	69
16	<i>TaMCA4</i>, a Novel Wheat Metacaspase Gene Functions in Programmed Cell Death Induced by the Fungal Pathogen <i>Puccinia striiformis</i> f. sp. <i>tritici</i>. Molecular Plant-Microbe Interactions, 2012, 25, 755-764.	2.6	67
17	Characterization of non-host resistance in broad bean to the wheat stripe rust pathogen. BMC Plant Biology, 2012, 12, 96.	3.6	65
18	Identification of expressed genes during compatible interaction between stripe rust (Puccinia) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 T	2.8	63

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19	Transcriptome Analysis Provides Insights into the Mechanisms Underlying Wheat Plant Resistance to Stripe Rust at the Adult Plant Stage. PLoS ONE, 2016, 11, e0150717.	2.5	61
20	Wheat BAX inhibitor-1 contributes to wheat resistance to Puccinia striiformis. Journal of Experimental Botany, 2012, 63, 4571-4584.	4.8	60
21	Monodehydroascorbate reductase gene, regulated by the wheat PN-2013 miRNA, contributes to adult wheat plant resistance to stripe rust through ROS metabolism. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2014, 1839, 1-12.	1.9	55
22	Selection of suitable inner reference genes for relative quantification expression of microRNA in wheat. Plant Physiology and Biochemistry, 2012, 51, 116-122.	5.8	54
23	Stage-specific gene expression during urediniospore germination in Puccinia striiformis f. sp tritici. BMC Genomics, 2008, 9, 203.	2.8	53
24	Cloning and characterization of a calcium binding EF-hand protein gene TaCab1 from wheat and its expression in response to Puccinia striiformis f. sp. tritici and abiotic stresses. Molecular Biology Reports, 2011, 38, 3857-3866.	2.3	51
25	YR36/WKS1-Mediated Phosphorylation of PsbO, an Extrinsic Member of Photosystem II, Inhibits Photosynthesis and Confers Stripe Rust Resistance in Wheat. Molecular Plant, 2019, 12, 1639-1650.	8.3	49
26	Characterization of protein kinase <scp><i>PsSRPKL</i></scp>, a novel pathogenicity factor in the wheat stripe rust fungus. Environmental Microbiology, 2015, 17, 2601-2617.	3.8	48
27	Candidate Effector Pst_8713 Impairs the Plant Immunity and Contributes to Virulence of Puccinia striiformis f. sp. tritici. Frontiers in Plant Science, 2018, 9, 1294.	3.6	45
28	A novel TaMYB4 transcription factor involved in the defence response against Puccinia striiformis f. sp. tritici and abiotic stresses. Plant Molecular Biology, 2014, 84, 589-603.	3.9	44
29	TaADF3, an Actin-Depolymerizing Factor, Negatively Modulates Wheat Resistance Against Puccinia striiformis. Frontiers in Plant Science, 2015, 6, 1214.	3.6	41
30	Wheat defense genes in fungal (Puccinia striiformis) infection. Functional and Integrative Genomics, 2010, 10, 227-239.	3.5	37
31	<i>TaDAD2</i>, a Negative Regulator of Programmed Cell Death, Is Important for the Interaction Between Wheat and the Stripe Rust Fungus. Molecular Plant-Microbe Interactions, 2011, 24, 79-90.	2.6	37
32	Transcriptional repression of <i>TaNOX10</i> by TaWRKY19 compromises ROS generation and enhances wheat susceptibility to stripe rust. Plant Cell, 2022, 34, 1784-1803.	6.6	37
33	Haustoria â€“ arsenals during the interaction between wheat and <i>Puccinia striiformis</i> f. sp. <i>tritici</i>. Molecular Plant Pathology, 2020, 21, 83-94.	4.2	34
34	A polysaccharide deacetylase from <i>Puccinia striiformis</i> f. sp<i>. tritici</i> is an important pathogenicity gene that suppresses plant immunity. Plant Biotechnology Journal, 2020, 18, 1830-1842.	8.3	34
35	<scp><i>Ta</i>EIL1</scp>, a wheat homologue of <scp><i>At</i>EIN3</scp>, acts as a negative regulator in the wheatâ€“stripe rust fungus interaction. Molecular Plant Pathology, 2013, 14, 728-739.	4.2	32
36	The development of a PCR-based method for detecting Puccinia striiformis latent infections in wheat leaves. European Journal of Plant Pathology, 2008, 120, 241-247.	1.7	30

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37	Histological and molecular studies of the non-host interaction between wheat and Uromyces fabae. Planta, 2011, 234, 979-991.	3.2	29
38	Wheat TaNPSN SNARE homologues are involved in vesicle-mediated resistance to stripe rust (Puccinia) Tj ETQq0 0 0 rgBT /Overlock 10 T	4.8	29
39	Exploration of microRNAs and their targets engaging in the resistance interaction between wheat and stripe rust. Frontiers in Plant Science, 2015, 6, 469.	3.6	29
40	A rust fungus effector directly binds plant preâ€mRNA splice site to reprogram alternative splicing and suppress host immunity. Plant Biotechnology Journal, 2022, 20, 1167-1181.	8.3	29
41	Understanding the lifestyles and pathogenicity mechanisms of obligate biotrophic fungi in wheat: The emerging genomics era. Crop Journal, 2018, 6, 60-67.	5.2	28
42	Two stripe rust effectors impair wheat resistance by suppressing import of host Feâ€"S protein into chloroplasts. Plant Physiology, 2021, 187, 2530-2543.	4.8	28
43	<i>WRKY</i> Transcription Factors Shared by BTH-Induced Resistance and <i>NPR1</i>-Mediated Acquired Resistance Improve Broad-Spectrum Disease Resistance in Wheat. Molecular Plant-Microbe Interactions, 2020, 33, 433-443.	2.6	27
44	RLP1.1, a novel wheat receptor-like protein gene, is involved in the defence response against Puccinia striiformis f. sp. tritici. Journal of Experimental Botany, 2013, 64, 3735-3746.	4.8	26
45	Functions of the lethal leaf-spot 1 gene in wheat cell death and disease tolerance to Puccinia striiformis. Journal of Experimental Botany, 2013, 64, 2955-2969.	4.8	26
46	Variability of the Stripe Rust Pathogen. , 2017, , 35-154.		25
47	TaMDHAR4, a monodehydroascorbate reductase gene participates in the interactions between wheat and Puccinia striiformis f. sp. tritici. Plant Physiology and Biochemistry, 2014, 76, 7-16.	5.8	24
48	Genome-Wide Analysis of Simple Sequence Repeats and Efficient Development of Polymorphic SSR Markers Based on Whole Genome Re-Sequencing of Multiple Isolates of the Wheat Stripe Rust Fungus. PLoS ONE, 2015, 10, e0130362.	2.5	24
49	A Nested PCR Assay for Detecting <i>Valsa mali</i> var. <i>mali</i> in Different Tissues of Apple Trees. Plant Disease, 2012, 96, 1645-1652.	1.4	23
50	Cytological and molecular characterization of non-host resistance in Arabidopsis thaliana against wheat stripe rust. Plant Physiology and Biochemistry, 2013, 62, 11-18.	5.8	22
51	vsiRNAs derived from the miRNA-generating sites of pri-tae-miR159a based on the BSMV system play positive roles in the wheat response to Puccinia striiformis f. sp. tritici through the regulation of taMyb3 expression. Plant Physiology and Biochemistry, 2013, 68, 90-95.	5.8	21
52	PsANT, the adenine nucleotide translocase of Puccinia striiformis, promotes cell death and fungal growth. Scientific Reports, 2015, 5, 11241.	3.3	21
53	Genome-Wide Identification of Effector Candidates With Conserved Motifs From the Wheat Leaf Rust Fungus Puccinia triticina. Frontiers in Microbiology, 2020, 11, 1188.	3.5	21
54	Genes involved in adult plant resistance to stripe rust in wheat cultivar XingziÂ9104. Physiological and Molecular Plant Pathology, 2013, 81, 26-32.	2.5	20

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55	TaRar1 Is Involved in Wheat Defense against Stripe Rust Pathogen Mediated by YrSu. Frontiers in Plant Science, 2017, 8, 156.	3.6	19
56	Rust effector PNPi interacting with wheat TaPR1a attenuates plant defense response. Phytopathology Research, 2020, 2, .	2.4	18
57	Effect of a benzothiadiazole on inducing resistance of soybean to Phytophthora sojae. Protoplasma, 2013, 250, 471-481.	2.1	16
58	TaSYP71, a Qc-SNARE, Contributes to Wheat Resistance against Puccinia striiformis f. sp. tritici. Frontiers in Plant Science, 2016, 7, 544.	3.6	16
59	<i><scp>TaMDAR6</scp></i> acts as a negative regulator of plant cell death and participates indirectly in stomatal regulation during the wheat stripe rustâ€"fungus interaction. Physiologia Plantarum, 2016, 156, 262-277.	5.2	15
60	TaMCA1, a regulator of cell death, is important for the interaction between wheat and Puccinia striiformis. Scientific Reports, 2016, 6, 26946.	3.3	15
61	Cloning and characterization of a wheat neutral ceramidase gene Ta-CDase. Molecular Biology Reports, 2011, 38, 3447-3454.	2.3	14
62	Detection of <i>Puccinia striiformis</i> in Latently Infected Wheat Leaves by Nested Polymerase Chain Reaction. Journal of Phytopathology, 2009, 157, 490-493.	1.0	13
63	TaAbc1, a Member of Abc1-Like Family Involved in Hypersensitive Response against the Stripe Rust Fungal Pathogen in Wheat. PLoS ONE, 2013, 8, e58969.	2.5	13
64	Identification of <scp>microRNAs</scp> and their corresponding targets involved in the susceptibility interaction of wheat response to <i>Puccinia striiformis</i> f. sp. <i>tritici</i>. Physiologia Plantarum, 2016, 157, 95-107.	5.2	12
65	TaNTF2 , a contributor for wheat resistance to the stripe rust pathogen. Plant Physiology and Biochemistry, 2018, 123, 260-267.	5.8	12
66	Wheat Gene TaATG8j Contributes to Stripe Rust Resistance. International Journal of Molecular Sciences, 2018, 19, 1666.	4.1	12
67	TaBln1, a member of the Blufensin family, negatively regulates wheat resistance to stripe rust by reducing Ca2+ influx. Plant Physiology, 2022, 189, 1380-1396.	4.8	10
68	Two distinct Ras genes from <i>Puccinia striiformis</i> exhibit differential roles in rust pathogenicity and cell death. Environmental Microbiology, 2016, 18, 3910-3922.	3.8	9
69	TaRac6 Is a Potential Susceptibility Factor by Regulating the ROS Burst Negatively in the Wheatâ€"Puccinia striiformis f. sp. tritici Interaction. Frontiers in Plant Science, 2020, 11, 716.	3.6	9
70	Identification of a Hyperparasitic Simplicillium obclavatum Strain Affecting the Infection Dynamics of Puccinia striiformis f. sp. tritici on Wheat. Frontiers in Microbiology, 2020, 11, 1277.	3.5	9
71	Development of a Loop-Mediated Isothermal Amplification Method for the Rapid Detection of Phytopythium vexans. Frontiers in Microbiology, 2021, 12, 720485.	3.5	8
72	Microarray-based identification of conserved microRNA from wheat and their expression profiles response toPuccinia striiformisf. sp.tritici. Canadian Journal of Plant Pathology, 2015, 37, 82-91.	1.4	7

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73	Wheat-Puccinia striiformis Interactions. , 2017, , 155-282.		7
74	New insights in the battle between wheat and Puccinia striiformis. Frontiers of Agricultural Science and Engineering, 2015, 2, 101.	1.4	7
75	Functional Characterization of the Wheat Macrophage Migration Inhibitory Factor TaMIF1 in Wheat-Stripe Rust (Puccinia striiformis) Interaction. Biology, 2021, 10, 878.	2.8	6
76	Construction and Characterization of a Bacterial Artificial Chromosome Library for the Hexaploid Wheat Line 92R137. BioMed Research International, 2014, 2014, 1-9.	1.9	3
77	Constitutive Expression of Arabidopsis Senescence Associated Gene 101 in Brachypodium distachyon Enhances Resistance to Puccinia brachypodii and Magnaporthe oryzae. Plants, 2020, 9, 1316.	3.5	3
78	TaULP5 contributes to the compatible interaction of adult plant resistance wheat seedlings-stripe rust pathogen. Physiological and Molecular Plant Pathology, 2016, 96, 29-35.	2.5	2