

# Zhixiang Chen

## List of Publications by Year in descending order

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109  
papers

17,348  
citations

16451

64  
h-index

25787

108  
g-index

110  
all docs

110  
docs citations

110  
times ranked

13201  
citing authors

#	ARTICLE	IF	CITATIONS
1	Active oxygen species in the induction of plant systemic acquired resistance by salicylic acid. <i>Science</i> , 1993, 262, 1883-1886.	12.6	1,109
2	Arabidopsis WRKY33 transcription factor is required for resistance to necrotrophic fungal pathogens. <i>Plant Journal</i> , 2006, 48, 592-605.	5.7	804
3	Expression profiles of the Arabidopsis WRKY gene superfamily during plant defense response. <i>Plant Molecular Biology</i> , 2003, 51, 21-37.	3.9	795
4	Physical and Functional Interactions between Pathogen-Induced Arabidopsis WRKY18, WRKY40, and WRKY60 Transcription Factors. <i>Plant Cell</i> , 2006, 18, 1310-1326.	6.6	674
5	Phosphorylation of a WRKY Transcription Factor by Two Pathogen-Responsive MAPKs Drives Phytoalexin Biosynthesis in Arabidopsis. <i>Plant Cell</i> , 2011, 23, 1639-1653.	6.6	674
6	Functional Analysis of the Arabidopsis PAL Gene Family in Plant Growth, Development, and Response to Environmental Stress. <i>Plant Physiology</i> , 2010, 153, 1526-1538.	4.8	668
7	Reactive Oxygen Species Are Involved in Brassinosteroid-Induced Stress Tolerance in Cucumber. <i>Plant Physiology</i> , 2009, 150, 801-814.	4.8	640
8	Evidence for an Important Role of WRKY DNA Binding Proteins in the Regulation of NPR1 Gene Expression. <i>Plant Cell</i> , 2001, 13, 1527-1540.	6.6	515
9	Arabidopsis WRKY38 and WRKY62 Transcription Factors Interact with Histone Deacetylase 19 in Basal Defense. <i>Plant Cell</i> , 2008, 20, 2357-2371.	6.6	481
10	Roles of arabidopsis WRKY18, WRKY40 and WRKY60 transcription factors in plant responses to abscisic acid and abiotic stress. <i>BMC Plant Biology</i> , 2010, 10, 281.	3.6	441
11	Biosynthesis of salicylic acid in plants. <i>Plant Signaling and Behavior</i> , 2009, 4, 493-496.	2.4	434
12	Potential of Developmentally Regulated Plant Defense Response by AtWRKY18, a Pathogen-Induced Arabidopsis Transcription Factor. <i>Plant Physiology</i> , 2002, 129, 706-716.	4.8	351
13	Evidence for an Important Role of WRKY DNA Binding Proteins in the Regulation of NPR1 Gene Expression. <i>Plant Cell</i> , 2001, 13, 1527-1540.	6.6	322
14	Two inducers of plant defense responses, 2,6-dichloroisonicotinic acid and salicylic acid, inhibit catalase activity in tobacco. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995, 92, 7143-7147.	7.1	284
15	NBR1-Mediated Selective Autophagy Targets Insoluble Ubiquitinated Protein Aggregates in Plant Stress Responses. <i>PLoS Genetics</i> , 2013, 9, e1003196.	3.5	281
16	An important role of an inducible RNA-dependent RNA polymerase in plant antiviral defense. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 6516-6521.	7.1	278
17	Protein-Protein Interactions in the Regulation of WRKY Transcription Factors. <i>Molecular Plant</i> , 2013, 6, 287-300.	8.3	276
18	Arabidopsis Sigma Factor Binding Proteins Are Activators of the WRKY33 Transcription Factor in Plant Defense. <i>Plant Cell</i> , 2011, 23, 3824-3841.	6.6	260

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19	H <sub>2</sub> O <sub>2</sub> mediates the crosstalk of brassinosteroid and abscisic acid in tomato responses to heat and oxidative stresses. <i>Journal of Experimental Botany</i> , 2014, 65, 4371-4383.	4.8	257
20	Analysis of the Involvement of an Inducible Arabidopsis RNA-Dependent RNA Polymerase in Antiviral Defense. <i>Molecular Plant-Microbe Interactions</i> , 2003, 16, 206-216.	2.6	252
21	Roles of Arabidopsis WRKY3 and WRKY4 Transcription Factors in Plant Responses to Pathogens. <i>BMC Plant Biology</i> , 2008, 8, 68.	3.6	244
22	A critical role of autophagy in plant resistance to necrotrophic fungal pathogens. <i>Plant Journal</i> , 2011, 66, 953-968.	5.7	240
23	Brassinosteroids promote photosynthesis and growth by enhancing activation of Rubisco and expression of photosynthetic genes in <i>Cucumis sativus</i> . <i>Planta</i> , 2009, 230, 1185-1196.	3.2	232
24	Identification of genes encoding receptor-like protein kinases as possible targets of pathogen- and salicylic acid-induced WRKY DNA-binding proteins in Arabidopsis. <i>Plant Journal</i> , 2000, 24, 837-847.	5.7	218
25	Structural and Functional Analysis of VQ Motif-Containing Proteins in Arabidopsis as Interacting Proteins of WRKY Transcription Factors. <i>Plant Physiology</i> , 2012, 159, 810-825.	4.8	216
26	Purification and characterization of a soluble salicylic acid-binding protein from tobacco. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1993, 90, 9533-9537.	7.1	212
27	Improperly Terminated, Unpolyadenylated mRNA of Sense Transgenes Is Targeted by RDR6-Mediated RNA Silencing in Arabidopsis. <i>Plant Cell</i> , 2007, 19, 943-958.	6.6	212
28	Development of necrosis and activation of disease resistance in transgenic tobacco plants with severely reduced catalase levels. <i>Plant Journal</i> , 1997, 11, 993-1005.	5.7	199
29	Isolation and characterization of two pathogen- and salicylic acid-induced genes encoding WRKY DNA-binding proteins from tobacco. <i>Plant Molecular Biology</i> , 2000, 42, 387-396.	3.9	194
30	Functional analysis of Arabidopsis WRKY25 transcription factor in plant defense against <i>Pseudomonas syringae</i> . <i>BMC Plant Biology</i> , 2007, 7, 2.	3.6	189
31	A pathogen- and salicylic acid-induced WRKY DNA-binding activity recognizes the elicitor response element of the tobacco class I chitinase gene promoter. <i>Plant Journal</i> , 1999, 18, 141-149.	5.7	171
32	Sensitization of defense responses and activation of programmed cell death by a pathogen-induced receptor-like protein kinase in Arabidopsis. <i>Plant Molecular Biology</i> , 2003, 53, 61-74.	3.9	168
33	Induction, modification, and transduction of the salicylic acid signal in plant defense responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995, 92, 4134-4137.	7.1	167
34	Pathogen-Induced Arabidopsis WRKY7 Is a Transcriptional Repressor and Enhances Plant Susceptibility to <i>Pseudomonas syringae</i> . <i>Plant Physiology</i> , 2006, 142, 1180-1192.	4.8	165
35	Role and regulation of autophagy in heat stress responses of tomato plants. <i>Frontiers in Plant Science</i> , 2014, 5, 174.	3.6	162
36	Role of nitric oxide in hydrogen peroxide-dependent induction of abiotic stress tolerance by brassinosteroids in cucumber. <i>Plant, Cell and Environment</i> , 2011, 34, 347-358.	5.7	160

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37	Tobacco Transcription Factor WRKY1 Is Phosphorylated by the MAP Kinase SIPK and Mediates HR-Like Cell Death in Tobacco. <i>Molecular Plant-Microbe Interactions</i> , 2005, 18, 1027-1034.	2.6	157
38	Identification of a soluble salicylic acid-binding protein that may function in signal transduction in the plant disease-resistance response.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991, 88, 8179-8183.	7.1	147
39	Stress- and Pathogen-Induced Arabidopsis WRKY48 is a Transcriptional Activator that Represses Plant Basal Defense. <i>Molecular Plant</i> , 2008, 1, 459-470.	8.3	146
40	Activation of hypersensitive cell death by pathogen-induced receptor-like protein kinases from Arabidopsis. <i>Plant Molecular Biology</i> , 2004, 56, 271-283.	3.9	133
41	Silencing of tomato <i>RBOH1</i> and <i>MPK2</i> abolishes brassinosteroid-induced H <sub>2</sub> O <sub>2</sub> generation and stress tolerance. <i>Plant, Cell and Environment</i> , 2013, 36, 789-803.	5.7	132
42	Salicylic Acid Induces Rapid Inhibition of Mitochondrial Electron Transport and Oxidative Phosphorylation in Tobacco Cells1. <i>Plant Physiology</i> , 1999, 120, 217-226.	4.8	129
43	<i>RBOH1</i> -dependent H <sub>2</sub> O <sub>2</sub> production and subsequent activation of MPK1/2 play an important role in acclimation-induced cross-tolerance in tomato. <i>Journal of Experimental Botany</i> , 2014, 65, 595-607.	4.8	129
44	E3 Ubiquitin Ligase CHIP and NBR1-Mediated Selective Autophagy Protect Additively against Proteotoxicity in Plant Stress Responses. <i>PLoS Genetics</i> , 2014, 10, e1004116.	3.5	127
45	MicroRNA166 Modulates Cadmium Tolerance and Accumulation in Rice. <i>Plant Physiology</i> , 2018, 177, 1691-1703.	4.8	125
46	Induction of systemic stress tolerance by brassinosteroid in <i>Cucumis sativus</i> . <i>New Phytologist</i> , 2011, 191, 706-720.	7.3	124
47	Differential Accumulation of Salicylic Acid and Salicylic Acid-Sensitive Catalase in Different Rice Tissues. <i>Plant Physiology</i> , 1997, 114, 193-201.	4.8	121
48	A Superfamily of Proteins with Novel Cysteine-Rich Repeats. <i>Plant Physiology</i> , 2001, 126, 473-476.	4.8	121
49	Cellular glutathione redox homeostasis plays an important role in the brassinosteroid-induced increase in CO <sub>2</sub> assimilation in <i>Cucumis sativus</i> . <i>New Phytologist</i> , 2012, 194, 932-943.	7.3	120
50	Benzothiadiazole, an inducer of plant defenses, inhibits catalase and ascorbate peroxidase. <i>Phytochemistry</i> , 1998, 47, 651-657.	2.9	116
51	Harpin-Induced Hypersensitive Cell Death Is Associated with Altered Mitochondrial Functions in Tobacco Cells. <i>Molecular Plant-Microbe Interactions</i> , 2000, 13, 183-190.	2.6	113
52	ABNORMAL INFLORESCENCE MERISTEM1 Functions in Salicylic Acid Biosynthesis to Maintain Proper Reactive Oxygen Species Levels for Root Meristem Activity in Rice. <i>Plant Cell</i> , 2017, 29, 560-574.	6.6	112
53	The role of C2H2 zinc finger proteins in plant responses to abiotic stresses. <i>Physiologia Plantarum</i> , 2019, 165, 690-700.	5.2	111
54	Brassinosteroids play a critical role in the regulation of pesticide metabolism in crop plants. <i>Scientific Reports</i> , 2015, 5, 9018.	3.3	110

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55	Guard cell hydrogen peroxide and nitric oxide mediate elevated $\text{CO}_2$ -induced stomatal movement in tomato. <i>New Phytologist</i> , 2015, 208, 342-353.	7.3	95
56	Characterization of Soybean WRKY Gene Family and Identification of Soybean WRKY Genes that Promote Resistance to Soybean Cyst Nematode. <i>Scientific Reports</i> , 2017, 7, 17804.	3.3	92
57	Possible involvement of lipid peroxidation in salicylic acid-mediated induction of PR-1 gene expression. <i>Phytochemistry</i> , 1998, 47, 555-566.	2.9	90
58	Arabidopsis LIP5, a Positive Regulator of Multivesicular Body Biogenesis, Is a Critical Target of Pathogen-Responsive MAPK Cascade in Plant Basal Defense. <i>PLoS Pathogens</i> , 2014, 10, e1004243.	4.7	90
59	Regulation and Function of Defense-Related Callose Deposition in Plants. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2393.	4.1	88
60	Roles of Arabidopsis Cyclin-Dependent Kinase C Complexes in Cauliflower Mosaic Virus Infection, Plant Growth, and Development. <i>Plant Cell</i> , 2007, 19, 1388-1402.	6.6	87
61	Is the High Basal Level of Salicylic Acid Important for Disease Resistance in Potato?. <i>Plant Physiology</i> , 1997, 115, 343-349.	4.8	86
62	Characterization of the promoter and extended C-terminal domain of Arabidopsis WRKY33 and functional analysis of tomato WRKY33 homologues in plant stress responses. <i>Journal of Experimental Botany</i> , 2015, 66, 4567-4583.	4.8	86
63	An oligo selection procedure for identification of sequence-specific DNA-binding activities associated with the plant defence response. <i>Plant Journal</i> , 1998, 16, 515-522.	5.7	85
64	The perplexing role of autophagy in plant innate immune responses. <i>Molecular Plant Pathology</i> , 2014, 15, 637-645.	4.2	82
65	How various factors influence the $\text{CO}_2/\text{O}_2$ specificity of ribulose-1,5-bisphosphate carboxylase/oxygenase. <i>Photosynthesis Research</i> , 1992, 31, 157-164.	2.9	69
66	An important role of a BAHD acyl transferase-like protein in plant innate immunity. <i>Plant Journal</i> , 2009, 57, 1040-1053.	5.7	64
67	SCARECROW-LIKE15 interacts with HISTONE DEACETYLASE19 and is essential for repressing the seed maturation programme. <i>Nature Communications</i> , 2015, 6, 7243.	12.8	58
68	The role of HD-Zip class I transcription factors in plant response to abiotic stresses. <i>Physiologia Plantarum</i> , 2019, 167, 516-525.	5.2	57
69	Dicot-specific ATG8-interacting AT13 proteins interact with conserved UBAC2 proteins and play critical roles in plant stress responses. <i>Autophagy</i> , 2018, 14, 487-504.	9.1	55
70	Evidence for an Important Role of WRKY DNA Binding Proteins in the Regulation of NPR1 Gene Expression. <i>Plant Cell</i> , 2001, 13, 1527.	6.6	53
71	Functional analysis of structurally related soybean GmWRKY58 and GmWRKY76 in plant growth and development. <i>Journal of Experimental Botany</i> , 2016, 67, 4727-4742.	4.8	50
72	Innovation of a Regulatory Mechanism Modulating Semi-determinate Stem Growth through Artificial Selection in Soybean. <i>PLoS Genetics</i> , 2016, 12, e1005818.	3.5	48

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73	Complementing amino acid substitutions within loop 6 of the .alpha./beta.-barrel active site influence the carbon dioxide/oxygen specificity of chloroplast ribulose-1,5-bisphosphate carboxylase/oxygenase. <i>Biochemistry</i> , 1991, 30, 8846-8850.	2.5	47
74	Hydrogen peroxide functions as a secondary messenger for brassinosteroids-induced CO <sub>2</sub> assimilation and carbohydrate metabolism in <i>Cucumis sativus</i> . <i>Journal of Zhejiang University: Science B</i> , 2012, 13, 811-823.	2.8	45
75	MicroRNA268 Overexpression Affects Rice Seedling Growth under Cadmium Stress. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 5860-5867.	5.2	44
76	Plastid Translation Elongation Factor Tu Is Prone to Heat-Induced Aggregation Despite Its Critical Role in Plant Heat Tolerance. <i>Plant Physiology</i> , 2018, 176, 3027-3045.	4.8	41
77	A Critical Role of Lyst-Interacting Protein5, a Positive Regulator of Multivesicular Body Biogenesis, in Plant Responses to Heat and Salt Stresses. <i>Plant Physiology</i> , 2015, 169, 497-511.	4.8	40
78	Effects of mutations and constitutive overexpression of EDS1 and PAD4 on plant resistance to different types of microbial pathogens. <i>Plant Science</i> , 2006, 171, 251-262.	3.6	39
79	Biogenesis and Function of Multivesicular Bodies in Plant Immunity. <i>Frontiers in Plant Science</i> , 2018, 9, 979.	3.6	36
80	Biosynthesis and Roles of Salicylic Acid in Balancing Stress Response and Growth in Plants. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11672.	4.1	36
81	Thermal Instability of Ribulose-1,5-Bisphosphate Carboxylase/Oxygenase from a Temperature-Conditional Chloroplast Mutant of <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 1993, 101, 1189-1194.	4.8	32
82	Nuclear mutation restores the reduced CO <sub>2</sub> specificity of ribulosebisphosphate carboxylase/oxygenase in a temperature-conditional chloroplast mutant of <i>Chlamydomonas reinhardtii</i> . <i>Archives of Biochemistry and Biophysics</i> , 1990, 283, 60-67.	3.0	30
83	Expression of tobacco class II catalase gene activates the endogenous homologous gene and is associated with disease resistance in transgenic potato plants. <i>Plant Molecular Biology</i> , 1999, 39, 477-488.	3.9	30
84	Application of exogenous salicylic acid reduces Cd toxicity and Cd accumulation in rice. <i>Ecotoxicology and Environmental Safety</i> , 2021, 207, 111198.	6.0	28
85	Structural and Functional Characterization of the VQ Protein Family and VQ Protein Variants from Soybean. <i>Scientific Reports</i> , 2016, 6, 34663.	3.3	26
86	Proteolysis and transition-state-analogue binding of mutant forms of ribulose-1,5-bisphosphate carboxylase/oxygenase from <i>Chlamydomonas reinhardtii</i> . <i>Planta</i> , 1991, 183, 597-603.	3.2	24
87	ROS mediate brassinosteroids-induced plant stress responses. <i>Plant Signaling and Behavior</i> , 2010, 5, 532-534.	2.4	24
88	Broad and Complex Roles of NBR1-Mediated Selective Autophagy in Plant Stress Responses. <i>Cells</i> , 2020, 9, 2562.	4.1	24
89	Arabidopsis Endoplasmic Reticulum-Localized UBAC2 Proteins Interact with PAMP-INDUCED COILED-COIL to Regulate Pathogen-Induced Callose Deposition and Plant Immunity. <i>Plant Cell</i> , 2019, 31, 153-171.	6.6	23
90	The Cellular and Subcellular Organization of the Glucosinolate-Myrosinase System against Herbivores and Pathogens. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1577.	4.1	23

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91	Salicylic acid application alleviates cadmium accumulation in brown rice by modulating its shoot to grain translocation in rice. <i>Chemosphere</i> , 2021, 263, 128034.	8.2	21
92	Expression and Functional Analysis of a Novel Group of Legume-specific WRKY and Exo70 Protein Variants from Soybean. <i>Scientific Reports</i> , 2016, 6, 32090.	3.3	20
93	Brassinosteroid-induced CO <sub>2</sub> assimilation is associated with increased stability of redox-sensitive photosynthetic enzymes in the chloroplasts in cucumber plants. <i>Biochemical and Biophysical Research Communications</i> , 2012, 426, 390-394.	2.1	19
94	Coordination and Crosstalk between Autophagosome and Multivesicular Body Pathways in Plant Stress Responses. <i>Cells</i> , 2020, 9, 119.	4.1	17
95	Missense Mutation in the Chlamydomonas Chloroplast Gene that Encodes the Rubisco Large Subunit. <i>Plant Physiology</i> , 1988, 86, 987-989.	4.8	16
96	Cargo Recognition and Function of Selective Autophagy Receptors in Plants. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1013.	4.1	16
97	The Mediator Complex: A Central Coordinator of Plant Adaptive Responses to Environmental Stresses. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6170.	4.1	14
98	Identification and characterization of a novel group of legume-specific, Golgi apparatus-localized WRKY and Exo70 proteins from soybean. <i>Journal of Experimental Botany</i> , 2015, 66, 3055-3070.	4.8	13
99	A family of dispersed repetitive DNA sequences in tobacco contain clusters of W-box elements recognized by pathogen-induced WRKY DNA-binding proteins. <i>Plant Science</i> , 2001, 161, 655-664.	3.6	10
100	A Family of NAI2-Interacting Proteins in the Biogenesis of the ER Body and Related Structures. <i>Plant Physiology</i> , 2019, 180, 212-227.	4.8	10
101	Induction of PR-1 Proteins and Potentiation of Pathogen Signals by Salicylic Acid Exhibit the Same Dose Response and Structural Specificity in Plant Cell Cultures. <i>Molecular Plant-Microbe Interactions</i> , 1998, 11, 568-571.	2.6	8
102	Identification of genes encoding receptor-like protein kinases as possible targets of pathogen-induced salicylic acid-induced WRKY DNA-binding proteins in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2000, 24, 837-847.	5.7	8
103	Two ubiquitin-associated ER proteins interact with COPT copper transporters and modulate their accumulation. <i>Plant Physiology</i> , 2021, 187, 2469-2484.	4.8	8
104	Specialized endoplasmic reticulum-derived vesicles in plants: Functional diversity, evolution, and biotechnological exploitation. <i>Journal of Integrative Plant Biology</i> , 2022, 64, 821-835.	8.5	6
105	Chloroplasts Protein Quality Control and Turnover: A Multitude of Mechanisms. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7760.	4.1	6
106	Expansion and Functional Diversification of TFIIB-Like Factors in Plants. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1078.	4.1	5
107	Chloroplast and Nuclear Mutations That Affect Rubisco Structure and Function in <i>Chlamydomonas Reinhardtii</i> . , 1992, , 593-600.		3
108	Soil cadmium extraction in Chinese cabbage and cabbage intercropping. <i>Ciencia Rural</i> , 2019, 49, .	0.5	2

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109	Salicylic Acid- And Nitric Oxide-Mediated Signal Transduction In Disease Resistance. , 2001, , 201-207.		0