Jian-Min Zhou

List of Publications by Year in Descending Order

125 papers	14,633 citations	61 h-index	120 g-index
163 ext. papers	18,900 ext. citations	14.1 avg, IF	6.76 L-index

#	Paper	IF	Citations
125	The origin and evolution of a plant resistosome.. *Plant Cell*, **2022**,	11.6	1
124	Nitric oxide negatively regulates gibberellin signaling to coordinate growth and salt tolerance in Arabidopsis.. *Journal of Genetics and Genomics*, **2022**,	4	3
123	MPK3- and MPK6-mediated VLN3 phosphorylation regulates actin dynamics during stomatal immunity in Arabidopsis. *Nature Communications*, **2021**, 12, 6474	17.4	2
122	Pattern-recognition receptors are required for NLR-mediated plant immunity. *Nature*, **2021**, 592, 105-109	50.4	118
121	The ZAR1 resistosome is a calcium-permeable channel triggering plant immune signaling. *Cell*, **2021**, 184, 3528-3541.e12	56.2	61
120	A receptor-like protein from Nicotiana benthamiana mediates VmE02 PAMP-triggered immunity. *New Phytologist*, **2021**, 229, 2260-2272	9.8	10
119	A Phytophthora capsici RXLR effector targets and inhibits the central immune kinases to suppress plant immunity. *New Phytologist*, **2021**, 232, 264-278	9.8	0
118	Regulation of Cell Death and Signaling by Pore-Forming Resistosomes. *Annual Review of Phytopathology*, **2021**, 59, 239-263	10.8	8
117	The EDS1-PAD4-ADR1 node mediates Arabidopsis pattern-triggered immunity. *Nature*, **2021**, 598, 495-499	50.4	28
116	Bacterial Effectors Induce Oligomerization of Immune Receptor ZAR1 In Vivo. *Molecular Plant*, **2020**, 13, 793-801	14.4	26
115	Malate Circulation: Linking Chloroplast Metabolism to Mitochondrial ROS. *Trends in Plant Science*, **2020**, 25, 446-454	13.1	38
114	An Arabidopsis Secondary Metabolite Directly Targets Expression of the Bacterial Type III Secretion System to Inhibit Bacterial Virulence. *Cell Host and Microbe*, **2020**, 27, 601-613.e7	23.4	29
113	Transnitrosylation Mediated by the Non-canonical Catalase ROG1 Regulates Nitric Oxide Signaling in Plants. *Developmental Cell*, **2020**, 53, 444-457.e5	10.2	22
112	Plant Immunity: Danger Perception and Signaling. *Cell*, **2020**, 181, 978-989	56.2	172
111	Plant immune signaling: Advancing on two frontiers. *Journal of Integrative Plant Biology*, **2020**, 62, 2-24	8.3	72
110	Loss of the common immune coreceptor BAK1 leads to NLR-dependent cell death. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 27044-27053	11.5	22
109	Plant Immune Mechanisms: From Reductionistic to Holistic Points of View. *Molecular Plant*, **2020**, 13, 1358-1378	14.4	30

108	PUB25 and PUB26 Promote Plant Freezing Tolerance by Degrading the Cold Signaling Negative Regulator MYB15. *Developmental Cell*, **2019**, 51, 222-235.e5	10.2	44
107	Regulation of mitochondrial NAD pool via NAD transporter 2 is essential for matrix NADH homeostasis and ROS production in Arabidopsis. *Science China Life Sciences*, **2019**, 62, 991-1002	8.5	17
106	Early signalling mechanisms underlying receptor kinase-mediated immunity in plants. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2019**, 374, 20180310	5.8	8
105	Ligand-triggered allosteric ADP release primes a plant NLR complex. *Science*, **2019**, 364,	33.3	175
104	Reconstitution and structure of a plant NLR resistosome conferring immunity. *Science*, **2019**, 364,	33.3	272
103	A cyclic nucleotide-gated channel mediates cytoplasmic calcium elevation and disease resistance in rice. *Cell Research*, **2019**, 29, 820-831	24.7	61
102	Deacetylation of chitin oligomers increases virulence in soil-borne fungal pathogens. *Nature Plants*, **2019**, 5, 1167-1176	11.5	50
101	Reactive oxygen species signaling and stomatal movement in plant responses to drought stress and pathogen attack. *Journal of Integrative Plant Biology*, **2018**, 60, 805-826	8.3	190
100	The secret of fertilization in flowering plants unveiled. *Science Bulletin*, **2018**, 63, 408-410	10.6	7
99	A Regulatory Module Controlling Homeostasis of a Plant Immune Kinase. *Molecular Cell*, **2018**, 69, 493-504.e6	14.5	88
98	Receptor-Like Cytoplasmic Kinases: Central Players in Plant Receptor Kinase-Mediated Signaling. *Annual Review of Plant Biology*, **2018**, 69, 267-299	30.7	169
97	Danger-Associated Peptides Close Stomata by OST1-Independent Activation of Anion Channels in Guard Cells. *Plant Cell*, **2018**, 30, 1132-1146	11.6	35
96	Ligand-triggered de-repression of Arabidopsis heterotrimeric G proteins coupled to immune receptor kinases. *Cell Research*, **2018**, 28, 529-543	24.7	50
95	Receptor-Like Cytoplasmic Kinases Directly Link Diverse Pattern Recognition Receptors to the Activation of Mitogen-Activated Protein Kinase Cascades in Arabidopsis. *Plant Cell*, **2018**, 30, 1543-1561	11.6	102
94	Roles of Receptor-Like Cytoplasmic Kinase VII Members in Pattern-Triggered Immune Signaling. *Plant Physiology*, **2018**, 177, 1679-1690	6.6	55
93	Small RNA trafficking at the forefront of plant-pathogen interactions. *F1000Research*, **2018**, 7,	3.6	5
92	A single transcription factor promotes both yield and immunity in rice. *Science*, **2018**, 361, 1026-1028	33.3	138
91	The MAP4 Kinase SIK1 Ensures Robust Extracellular ROS Burst and Antibacterial Immunity in Plants. *Cell Host and Microbe*, **2018**, 24, 379-391.e5	23.4	57

90	Luciferase Complementation Assay for Protein-Protein Interactions in Plants. *Current Protocols in Plant Biology*, **2018**, 3, 42-50	2.8	19
89	MAP Kinase Signaling Pathways: A Hub of Plant-Microbe Interactions. *Cell Host and Microbe*, **2017**, 21, 270-273	23.4	40
88	Apoplastic ROS signaling in plant immunity. *Current Opinion in Plant Biology*, **2017**, 38, 92-100	9.9	198
87	Salicylic acid **2017**, 273-289		5
86	Receptor Kinases in Plant-Pathogen Interactions: More Than Pattern Recognition. *Plant Cell*, **2017**, 29, 618-637	11.6	295
85	Plant pattern-recognition receptors controlling innate immunity. *Science China Life Sciences*, **2016**, 59, 878-88	8.5	33
84	A Phytophthora sojae effector PsCRN63 forms homo-/hetero-dimers to suppress plant immunity via an inverted association manner. *Scientific Reports*, **2016**, 6, 26951	4.9	26
83	PEPRs spice up plant immunity. *EMBO Journal*, **2016**, 35, 4-5	13	5
82	Arabidopsis heterotrimeric G proteins regulate immunity by directly coupling to the FLS2 receptor. *ELife*, **2016**, 5, e13568	8.9	152
81	The Arabidopsis Protein Phosphatase PP2C38 Negatively Regulates the Central Immune Kinase BIK1. *PLoS Pathogens*, **2016**, 12, e1005811	7.6	74
80	A gain-of-function mutation in Msl10 triggers cell death and wound-induced hyperaccumulation of jasmonic acid in Arabidopsis. *Journal of Integrative Plant Biology*, **2016**, 58, 600-9	8.3	16
79	Plant Pathology: A Life and Death Struggle in Rice Blast Disease. *Current Biology*, **2016**, 26, R843-R845	6.3	9
78	Activation-Dependent Destruction of a Co-receptor by a Pseudomonas syringae Effector Dampens Plant Immunity. *Cell Host and Microbe*, **2016**, 20, 504-514	23.4	57
77	An Arabidopsis Plasma Membrane Proton ATPase Modulates JA Signaling and Is Exploited by the Pseudomonas syringae Effector Protein AvrB for Stomatal Invasion. *Plant Cell*, **2015**, 27, 2032-41	11.6	56
76	Deficient plastidic fatty acid synthesis triggers cell death by modulating mitochondrial reactive oxygen species. *Cell Research*, **2015**, 25, 621-33	24.7	57
75	The Decoy Substrate of a Pathogen Effector and a Pseudokinase Specify Pathogen-Induced Modified-Self Recognition and Immunity in Plants. *Cell Host and Microbe*, **2015**, 18, 285-95	23.4	126
74	S-nitrosylation positively regulates ascorbate peroxidase activity during plant stress responses. *Plant Physiology*, **2015**, 167, 1604-15	6.6	169
73	Two cytoplasmic effectors of Phytophthora sojae regulate plant cell death via interactions with plant catalases. *Plant Physiology*, **2015**, 167, 164-75	6.6	75

72	The FLS2-associated kinase BIK1 directly phosphorylates the NADPH oxidase RbohD to control plant immunity. *Cell Host and Microbe*, **2014**, 15, 329-38	23.4	424
71	Proline isomerization of the immune receptor-interacting protein RIN4 by a cyclophilin inhibits effector-triggered immunity in Arabidopsis. *Cell Host and Microbe*, **2014**, 16, 473-83	23.4	40
70	Multiple rice microRNAs are involved in immunity against the blast fungus Magnaporthe oryzae. *Plant Physiology*, **2014**, 164, 1077-92	6.6	201
69	Receptor-like kinases in plant innate immunity. *Journal of Integrative Plant Biology*, **2013**, 55, 1271-86	8.3	74
68	Structural basis for flg22-induced activation of the Arabidopsis FLS2-BAK1 immune complex. *Science*, **2013**, 342, 624-8	33.3	426
67	BIK1 interacts with PEPRs to mediate ethylene-induced immunity. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 6205-10	11.5	201
66	Phytopathogen effectors subverting host immunity: different foes, similar battleground. *Cell Host and Microbe*, **2012**, 12, 484-95	23.4	281
65	Plant-bacterial pathogen interactions mediated by type III effectors. *Current Opinion in Plant Biology*, **2012**, 15, 469-76	9.9	152
64	A Xanthomonas uridine 5′-monophosphate transferase inhibits plant immune kinases. *Nature*, **2012**, 485, 114-8	50.4	227
63	Disruption of PAMP-induced MAP kinase cascade by a Pseudomonas syringae effector activates plant immunity mediated by the NB-LRR protein SUMM2. *Cell Host and Microbe*, **2012**, 11, 253-63	23.4	240
62	Effectors of Bacterial Pathogens: Modes of Action and Plant Targets **2012**, 81-106		
61	Chitin-induced dimerization activates a plant immune receptor. *Science*, **2012**, 336, 1160-4	33.3	396
60	The U-Box/ARM E3 ligase PUB13 regulates cell death, defense, and flowering time in Arabidopsis. *Plant Physiology*, **2012**, 159, 239-50	6.6	100
59	BAK1 is not a target of the Pseudomonas syringae effector AvrPto. *Molecular Plant-Microbe Interactions*, **2011**, 24, 100-7	3.6	56
58	Role of small RNAs in the interaction between Arabidopsis and Pseudomonas syringae. *Frontiers in Biology*, **2011**, 6, 462-467		2
57	Derepression of ethylene-stabilized transcription factors (EIN3/EIL1) mediates jasmonate and ethylene signaling synergy in Arabidopsis. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 12539-44	11.5	474
56	Effector-triggered innate immunity contributes Arabidopsis resistance to Xanthomonas campestris. *Molecular Plant Pathology*, **2010**, 11, 783-93	5.7	10
55	A Pseudomonas syringae ADP-ribosyltransferase inhibits Arabidopsis mitogen-activated protein kinase kinases. *Plant Cell*, **2010**, 22, 2033-44	11.6	174

54	Identification of microRNAs involved in pathogen-associated molecular pattern-triggered plant innate immunity. *Plant Physiology*, **2010**, 152, 2222-31	6.6	286
53	Pseudomonas syringae two-component response regulator RhpR regulates promoters carrying an inverted repeat element. *Molecular Plant-Microbe Interactions*, **2010**, 23, 927-39	3.6	16
52	Plant immunity triggered by microbial molecular signatures. *Molecular Plant*, **2010**, 3, 783-93	14.4	200
51	Pseudomonas syringae effector protein AvrB perturbs Arabidopsis hormone signaling by activating MAP kinase 4. *Cell Host and Microbe*, **2010**, 7, 164-75	23.4	150
50	Receptor-like cytoplasmic kinases integrate signaling from multiple plant immune receptors and are targeted by a Pseudomonas syringae effector. *Cell Host and Microbe*, **2010**, 7, 290-301	23.4	527
49	Effector-triggered and pathogen-associated molecular pattern-triggered immunity differentially contribute to basal resistance to Pseudomonas syringae. *Molecular Plant-Microbe Interactions*, **2010**, 23, 940-8	3.6	43
48	The multilevel and dynamic interplay between plant and pathogen. *Plant Signaling and Behavior*, **2009**, 4, 283-93	2.5	14
47	ETHYLENE INSENSITIVE3 and ETHYLENE INSENSITIVE3-LIKE1 repress SALICYLIC ACID INDUCTION DEFICIENT2 expression to negatively regulate plant innate immunity in Arabidopsis. *Plant Cell*, **2009**, 21, 2527-40	11.6	220
46	Plant immunity: a lesson from pathogenic bacterial effector proteins. *Cellular Microbiology*, **2009**, 11, 1453-61	3.9	70
45	Pseudomonas syringae pv. phaseolicola Mutants Compromised for type III secretion system gene induction. *Molecular Plant-Microbe Interactions*, **2009**, 22, 964-76	3.6	28
44	Structural basis for the catalytic mechanism of phosphothreonine lyase. *Nature Structural and Molecular Biology*, **2008**, 15, 101-2	17.6	33
43	Pseudomonas syringae effector AvrPto blocks innate immunity by targeting receptor kinases. *Current Biology*, **2008**, 18, 74-80	6.3	343
42	Plant pathogenic bacterial type III effectors subdue host responses. *Current Opinion in Microbiology*, **2008**, 11, 179-85	7.9	138
41	Firefly luciferase complementation imaging assay for protein-protein interactions in plants. *Plant Physiology*, **2008**, 146, 368-76	6.6	583
40	Blocking and triggering of plant immunity by Pseudomonas syringae effector AvrPto. *Plant Signaling and Behavior*, **2008**, 3, 583-5	2.5	12
39	The structural basis for activation of plant immunity by bacterial effector protein AvrPto. *Nature*, **2007**, 449, 243-7	50.4	149
38	The phosphothreonine lyase activity of a bacterial type III effector family. *Science*, **2007**, 315, 1000-3	33.3	322
37	Mutation of Lon protease differentially affects the expression of Pseudomonas syringae type III secretion system genes in rich and minimal media and reduces pathogenicity. *Molecular Plant-Microbe Interactions*, **2007**, 20, 682-96	3.6	35

36	Two-component sensor RhpS promotes induction of Pseudomonas syringae type III secretion system by repressing negative regulator RhpR. *Molecular Plant-Microbe Interactions*, **2007**, 20, 223-34	3.6	30
35	A Pseudomonas syringae effector inactivates MAPKs to suppress PAMP-induced immunity in plants. *Cell Host and Microbe*, **2007**, 1, 175-85	23.4	467
34	RAR1, a central player in plant immunity, is targeted by Pseudomonas syringae effector AvrB. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 19200-5	11.5	96
33	Regulation of the type III secretion system in phytopathogenic bacteria. *Molecular Plant-Microbe Interactions*, **2006**, 19, 1159-66	3.6	150
32	The Pseudomonas syringae pv. tomato DC3000 type III effector HopF2 has a putative myristoylation site required for its avirulence and virulence functions. *Molecular Plant-Microbe Interactions*, **2006**, 19, 130-8	3.6	50
31	Genome-wide gene expression analysis of Pseudomonas syringae pv. tomato DC3000 reveals overlapping and distinct pathways regulated by hrpL and hrpRS. *Molecular Plant-Microbe Interactions*, **2006**, 19, 976-87	3.6	53
30	Flagellin induces innate immunity in nonhost interactions that is suppressed by Pseudomonas syringae effectors. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 12990-5	11.5	222
29	Activation of a COI1-dependent pathway in Arabidopsis by Pseudomonas syringae type III effectors and coronatine. *Plant Journal*, **2004**, 37, 589-602	6.9	121
28	Arabidopsis CYP86A2 represses Pseudomonas syringae type III genes and is required for cuticle development. *EMBO Journal*, **2004**, 23, 2903-13	13	232
27	The HopPtoF locus of Pseudomonas syringae pv. tomato DC3000 encodes a type III chaperone and a cognate effector. *Molecular Plant-Microbe Interactions*, **2004**, 17, 447-55	3.6	34
26	Tobacco genes induced by the bacterial effector protein AvrPto. *Molecular Plant-Microbe Interactions*, **2004**, 17, 1139-45	3.6	11
25	Interplay of the Arabidopsis nonhost resistance gene NHO1 with bacterial virulence. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 3519-24	11.5	136
24	Allopolyploidy alters gene expression in the highly stable hexaploid wheat. *Plant Molecular Biology*, **2003**, 52, 401-14	4.6	144
23	In planta induced genes of Puccinia triticina. *Molecular Plant Pathology*, **2003**, 4, 51-6	5.7	59
22	Pto mutants differentially activate Prf-dependent, avrPto-independent resistance and gene-for-gene resistance. *Plant Physiology*, **2003**, 131, 1239-49	6.6	14
21	Overexpression of Pto induces a salicylate-independent cell death but inhibits necrotic lesions caused by salicylate-deficiency in tomato plants. *Molecular Plant-Microbe Interactions*, **2002**, 15, 654-61	3.6	17
20	Arabidopsis NHO1 is required for general resistance against Pseudomonas bacteria. *Plant Cell*, **2001**, 13, 437-47	11.6	119
19	Arabidopsis NHO1 Is Required for General Resistance against Pseudomonas Bacteria. *Plant Cell*, **2001**, 13, 437	11.6	7

18	Expression of 35S::Pto globally activates defense-related genes in tomato plants. *Plant Physiology*, **2001**, 126, 1637-45	6.6	41
17	Overexpression of Pti5 in tomato potentiates pathogen-induced defense gene expression and enhances disease resistance to Pseudomonas syringae pv. tomato. *Molecular Plant-Microbe Interactions*, **2001**, 14, 1453-7	3.6	74
16	A cluster of mutations disrupt the avirulence but not the virulence function of AvrPto. *Molecular Plant-Microbe Interactions*, **2000**, 13, 592-8	3.6	98
15	The Pseudomonas AvrPto Protein Is Differentially Recognized by Tomato and Tobacco and Is Localized to the Plant Plasma Membrane. *Plant Cell*, **2000**, 12, 2323	11.6	1
14	The pseudomonas AvrPto protein is differentially recognized by tomato and tobacco and is localized to the plant plasma membrane. *Plant Cell*, **2000**, 12, 2323-2338	11.6	144
13	Pti4 is induced by ethylene and salicylic acid, and its product is phosphorylated by the Pto kinase. *Plant Cell*, **2000**, 12, 771-86	11.6	253
12	Pseudomonas syringae pv tomato induces the expression of tomato EREBP-like genes pti4 and pti5 independent of ethylene, salicylate and jasmonate. *Plant Journal*, **1999**, 20, 475-83	6.9	85
11	Pathogen recognition and signal transduction by the Pto kinase. *Journal of Plant Research*, **1998**, 111, 353-356	2.6	14
10	A nitrilase-like protein interacts with GCC box DNA-binding proteins involved in ethylene and defense responses. *Plant Physiology*, **1998**, 118, 867-74	6.6	46
9	The myristylation motif of Pto is not required for disease resistance. *Molecular Plant-Microbe Interactions*, **1998**, 11, 572-6	3.6	36
8	Purification and immunological identification of metallothioneins 1 and 2 from Arabidopsis thaliana. *Plant Physiology*, **1997**, 113, 1293-301	6.6	158
7	The Pto kinase conferring resistance to tomato bacterial speck disease interacts with proteins that bind a cis-element of pathogenesis-related genes. *EMBO Journal*, **1997**, 16, 3207-18	13	374
6	Initiation of Plant Disease Resistance by Physical Interaction of AvrPto and Pto Kinase. *Science*, **1996**, 274, 2060-3	33.3	575
5	The tomato gene Pti1 encodes a serine/threonine kinase that is phosphorylated by Pto and is involved in the hypersensitive response. *Cell*, **1995**, 83, 925-35	56.2	346
4	Structure, organization and expression of the metallothionein gene family in Arabidopsis. *Molecular Genetics and Genomics*, **1995**, 248, 318-28		163
3	Research on ADR1s helps understanding the plant immune network. *Stress Biology*,1		1
2	Pattern-recognition receptors are required for NLR-mediated plant immunity		14
1	Arabidopsis cell surface LRR immune receptor signaling through the EDS1-PAD4-ADR1 node		12