Libo Shan

List of Publications by Year
in descending order

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78 papers	8,545 citations	57758 44 h-index	71685 76 g-index
80 all docs	80 docs citations	80 times ranked	7134 citing authors

#	Article	IF	Citations
1	Differential innate immune signalling via Ca2+ sensor protein kinases. Nature, 2010, 464, 418-422.	27.8	750
2	A receptor-like cytoplasmic kinase, BIK1, associates with a flagellin receptor complex to initiate plant innate immunity. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 496-501.	7.1	701
3	Direct Ubiquitination of Pattern Recognition Receptor FLS2 Attenuates Plant Innate Immunity. Science, 2011, 332, 1439-1442.	12.6	510
4	Bacterial Effectors Target the Common Signaling Partner BAK1 to Disrupt Multiple MAMP Receptor-Signaling Complexes and Impede Plant Immunity. Cell Host and Microbe, 2008, 4, 17-27.	11.0	498
5	Specific Bacterial Suppressors of MAMP Signaling Upstream of MAPKKK in Arabidopsis Innate Immunity. Cell, 2006, 125, 563-575.	28.9	386
6	From Chaos to Harmony: Responses and Signaling upon Microbial Pattern Recognition. Annual Review of Phytopathology, 2017, 55, 109-137.	7.8	375
7	One for all: the receptor-associated kinase BAK1. Trends in Plant Science, 2009, 14, 535-541.	8.8	281
8	Bifurcation of Arabidopsis NLR Immune Signaling via Ca2+-Dependent Protein Kinases. PLoS Pathogens, 2013, 9, e1003127.	4.7	257
9	Differential Function of Arabidopsis SERK Family Receptor-like Kinases in Stomatal Patterning. Current Biology, 2015, 25, 2361-2372.	3.9	242
10	Transcriptional Regulation of Pattern-Triggered Immunity in Plants. Cell Host and Microbe, 2016, 19, 641-650.	11.0	241
11	Silencing GhNDR1 and GhMKK2 compromises cotton resistance to Verticillium wilt. Plant Journal, 2011, 66, 293-305.	5.7	222
12	SERKing Coreceptors for Receptors. Trends in Plant Science, 2016, 21, 1017-1033.	8.8	172
13	Ligand-Induced Receptor-like Kinase Complex Regulates Floral Organ Abscission in Arabidopsis. Cell Reports, 2016, 14, 1330-1338.	6.4	157
14	Tyrosine phosphorylation of protein kinase complex BAK1/BIK1 mediates Arabidopsis innate immunity. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3632-3637.	7.1	151
15	Inverse modulation of plant immune and brassinosteroid signaling pathways by the receptor-like cytoplasmic kinase BIK1. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12114-12119.	7.1	148
16	TAL effector driven induction of a SWEET gene confers susceptibility to bacterial blight of cotton. Nature Communications, 2017, 8, 15588.	12.8	144
17	Regulation of Arabidopsis brassinosteroid receptor BRI1 endocytosis and degradation by plant U-box PUB12/PUB13-mediated ubiquitination. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E1906-E1915.	7.1	134
18	Plant cell surface receptor-mediated signaling â€“ a common theme amid diversity. Journal of Cell Science, 2018, 131, .	2.0	134

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19	A tomato Bâ€box protein Sl<scp>BBX</scp>20 modulates carotenoid biosynthesis by directly activating <scp>PHYTOENE SYNTHASE</scp>Â1, and is targeted for 26S proteasomeâ€mediated degradation. New Phytologist, 2019, 221, 279-294.	7.3	127
20	Microbial signature-triggered plant defense responses and early signaling mechanisms. Plant Science, 2014, 228, 118-126.	3.6	119
21	The <scp>P</scp>seudomonas syringae effector HopF2 suppresses Arabidopsis immunity by targeting <scp>BAK</scp>1. Plant Journal, 2014, 77, 235-245.	5.7	110
22	Phosphorylation of Trihelix Transcriptional Repressor ASR3 by MAP KINASE4 Negatively Regulates Arabidopsis Immunity. Plant Cell, 2015, 27, 839-856.	6.6	109
23	Big Roles of Small Kinases: The Complex Functions of Receptorâ€Like Cytoplasmic Kinases in Plant Immunity and Development. Journal of Integrative Plant Biology, 2013, 55, 1188-1197.	8.5	108
24	Ligand-induced monoubiquitination of BIK1 regulates plant immunity. Nature, 2020, 581, 199-203.	27.8	99
25	The Monocot-Specific Receptor-like Kinase SDS2 Controls Cell Death and Immunity in Rice. Cell Host and Microbe, 2018, 23, 498-510.e5.	11.0	96
26	Specific control of Arabidopsis BAK1/SERK4-regulated cell death by protein glycosylation. Nature Plants, 2016, 2, 15218.	9.3	95
27	The Receptor-like Cytoplasmic Kinase BIK1 Localizes to the Nucleus and Regulates Defense Hormone Expression during Plant Innate Immunity. Cell Host and Microbe, 2018, 23, 485-497.e5.	11.0	92
28	Regulation of cotton (GossypiumÂhirsutum) drought responses by mitogenâ€activated protein (<scp>MAP</scp>) kinase cascadeâ€mediated phosphorylation of Gh<scp>WRKY</scp>59. New Phytologist, 2017, 215, 1462-1475.	7.3	91
29	Differential Regulation of Two-Tiered Plant Immunity and Sexual Reproduction by ANXUR Receptor-Like Kinases. Plant Cell, 2017, 29, 3140-3156.	6.6	89
30	The Receptor Kinases BAK1/SERK4 Regulate Ca2+ Channel-Mediated Cellular Homeostasis for Cell Death Containment. Current Biology, 2019, 29, 3778-3790.e8.	3.9	86
31	Cotton Gh<scp>BAK</scp>1 Mediates Verticillium Wilt Resistance and Cell Death. Journal of Integrative Plant Biology, 2013, 55, 586-596.	8.5	84
32	The Cotton Wall-Associated Kinase GhWAK7A Mediates Responses to Fungal Wilt Pathogens by Complexing with the Chitin Sensory Receptors. Plant Cell, 2020, 32, 3978-4001.	6.6	80
33	Intercepting Host MAPK Signaling Cascades by Bacterial Type III Effectors. Cell Host and Microbe, 2007, 1, 167-174.	11.0	77
34	The Use of Protoplasts to Study Innate Immune Responses. , 2007, 354, 1-10.		76
35	The dominant negative ARM domain uncovers multiple functions of PUB13 in Arabidopsis immunity, flowering, and senescence. Journal of Experimental Botany, 2015, 66, 3353-3366.	4.8	76
36	BOTRYTIS-INDUCED KINASE1 Modulates Arabidopsis Resistance to Green Peach Aphids via PHYTOALEXIN DEFICIENT4 Â Â. Plant Physiology, 2014, 165, 1657-1670.	4.8	75

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37	Comparing Arabidopsis receptor kinase and receptor proteinâ€mediated immune signaling reveals BIK1â€dependent differences. New Phytologist, 2019, 221, 2080-2095.	7.3	73
38	Plant cell surface molecular cypher: Receptor-like proteins and their roles in immunity and development. Plant Science, 2018, 274, 242-251.	3.6	71
39	Modulation of RNA Polymerase II Phosphorylation Downstream of Pathogen Perception Orchestrates Plant Immunity. Cell Host and Microbe, 2014, 16, 748-758.	11.0	70
40	Bacterial AvrRpt2-Like Cysteine Proteases Block Activation of the Arabidopsis Mitogen-Activated Protein Kinases, MPK4 and MPK11. Plant Physiology, 2016, 171, 2223-2238.	4.8	67
41	Phytocytokine signalling reopens stomata in plant immunity and water loss. Nature, 2022, 605, 332-339.	27.8	64
42	The receptor-like kinase NIK1 targets FLS2/BAK1 immune complex and inversely modulates antiviral and antibacterial immunity. Nature Communications, 2019, 10, 4996.	12.8	59
43	Protein Poly(ADP-ribosyl)ation Regulates Arabidopsis Immune Gene Expression and Defense Responses. PLoS Genetics, 2015, 11, e1004936.	3.5	57
44	The Arabidopsis MIK2 receptor elicits immunity by sensing a conserved signature from phytocytokines and microbes. Nature Communications, 2021, 12, 5494.	12.8	54
45	Arabidopsis ETHYLENE RESPONSE FACTOR 8 (ERF8) has dual functions in ABA signaling and immunity. BMC Plant Biology, 2018, 18, 211.	3.6	52
46	Plant plasma membraneâ€resident receptors: Surveillance for infections and coordination for growth and development. Journal of Integrative Plant Biology, 2021, 63, 79-101.	8.5	50
47	A tale of many families: calcium channels in plant immunity. Plant Cell, 2022, 34, 1551-1567.	6.6	45
48	Ubiquitination of pattern recognition receptors in plant innate immunity. Molecular Plant Pathology, 2014, 15, 737-746.	4.2	42
49	PARylation of the forkheadâ€associated domain protein DAWDLE regulates plant immunity. EMBO Reports, 2016, 17, 1799-1813.	4.5	42
50	Proteolytic Processing of SERK3/BAK1 Regulates Plant Immunity, Development, and Cell Death. Plant Physiology, 2019, 180, 543-558.	4.8	42
51	Orchestration of Processing Body Dynamics and mRNA Decay in Arabidopsis Immunity. Cell Reports, 2019, 28, 2194-2205.e6.	6.4	40
52	Phosphatase GhDs<scp>PTP</scp>3a interacts with annexin protein Gh<scp>ANN</scp>8b to reversely regulate salt tolerance in cotton (Gossypium spp.). New Phytologist, 2019, 223, 1856-1872.	7.3	39
53	The malectin-like receptor-like kinase LETUM1 modulates NLR protein SUMM2 activation via MEKK2 scaffolding. Nature Plants, 2020, 6, 1106-1115.	9.3	38
54	Ubiquitylome analysis reveals a central role for the ubiquitin-proteasome system in plant innate immunity. Plant Physiology, 2021, 185, 1943-1965.	4.8	30

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55	Protein ADP-Ribosylation Takes Control in Plantâ€“Bacterium Interactions. PLoS Pathogens, 2016, 12, e1005941.	4.7	29
56	Return of old foes â€" recurrence of bacterial blight and Fusarium wilt of cotton. Current Opinion in Plant Biology, 2019, 50, 95-103.	7.1	28
57	Accumulation and phytotoxicity of perfluorooctanoic acid and 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate in Arabidopsis thaliana and Nicotiana benthamiana. Environmental Pollution, 2020, 259, 113817.	7.5	28
58	A trimeric CrRLK1L-LLG1 complex genetically modulates SUMM2-mediated autoimmunity. Nature Communications, 2020, 11, 4859.	12.8	28
59	Stomata in a state of emergency: H2O2 is the target locked. Trends in Plant Science, 2022, 27, 274-286.	8.8	27
60	Deubiquitinating enzymes UBP12 and UBP13 stabilize the brassinosteroid receptor BRI1. EMBO Reports, 2022, 23, e53354.	4.5	25
61	Malectin-like receptor kinases as protector deities in plant immunity. Nature Plants, 2022, 8, 27-37.	9.3	24
62	Phosphorylation of receptor-like cytoplasmic kinases by bacterial Flagellin. Plant Signaling and Behavior, 2010, 5, 598-600.	2.4	22
63	Lso-HPE1, an Effector of â€˜Candidatus Liberibacter solanacearumâ€™, Can Repress Plant Immune Response. Phytopathology, 2020, 110, 648-655.	2.2	22
64	It takes two to tango â€" molecular links between plant immunity and brassinosteroid signalling. Journal of Cell Science, 2020, 133, .	2.0	22
65	More than an on-and-off switch: Post-translational modifications of plant pattern recognition receptor complexes. Current Opinion in Plant Biology, 2021, 63, 102051.	7.1	18
66	Noncanonical mono(ADP-ribosyl)ation of zinc finger SZF proteins counteracts ubiquitination for protein homeostasis in plant immunity. Molecular Cell, 2021, 81, 4591-4604.e8.	9.7	17
67	Pipped at the Post: Pipecolic Acid Derivative Identified as SAR Regulator. Cell, 2018, 173, 286-287.	28.9	16
68	Endless Hide-and-Seek: Dynamic Co-evolution in Plant-Bacterium Warfare. Journal of Integrative Plant Biology, 2007, 49, 105-111.	8.5	15
69	The APEX Approaches: A Unified LRR-RK Network Revealed. Trends in Plant Science, 2018, 23, 372-374.	8.8	14
70	SERKs. Current Biology, 2020, 30, R293-R294.	3.9	14
71	Ubiquitination of Plant Immune Receptors. Methods in Molecular Biology, 2014, 1209, 219-231.	0.9	12
72	Knowing me, knowing you: Self and non-self recognition in plant immunity. Essays in Biochemistry, 2022, 66, 447-458.	4.7	12

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73	Fate and Transformation of 6:2 Fluorotelomer Sulfonic Acid Affected by Plant, Nutrient, Bioaugmentation, and Soil Microbiome Interactions. Environmental Science & Technology, 2022, 56, 10721-10731.	10.0	12
74	Stack Heterotrimeric G Proteins and MAPK Cascades on a RACK. Molecular Plant, 2015, 8, 1691-1693.	8.3	11
75	RNA Interference-Based Screen Reveals Concerted Functions of MEKK2 and CRCK3 in Plant Cell Death Regulation. Plant Physiology, 2020, 183, 331-344.	4.8	9
76	A nonproteinaceous Fusarium cell wall extract triggers receptorâ€like proteinâ€dependent immune responses in Arabidopsis and cotton. New Phytologist, 2021, 230, 275-289.	7.3	9
77	The oral secretion from Cotton Boll Weevil (Anthonomus grandis) induces defense responses in cotton (Gossypium spp) and Arabidopsis thaliana. Current Plant Biology, 2022, 31, 100250.	4.7	2
78	Isolation of High-Molecular-Weight (HMW) DNA from Fusarium oxysporum for Long-Read Sequencing. Methods in Molecular Biology, 2022, 2391, 21-30.	0.9	1