Hailing Jin

List of Publications by Year
in descending order

103 papers	14,826 citations	28190 55 h-index	32761 100 g-index
108 all docs	108 docs citations	108 times ranked	13505 citing authors

#	Article	IF	Citations
1	Fungal Small RNAs Suppress Plant Immunity by Hijacking Host RNA Interference Pathways. Science, 2013, 342, 118-123.	6.0	1,089
2	The <i>Arabidopsis</i> NFYA5 Transcription Factor Is Regulated Transcriptionally and Posttranscriptionally to Promote Drought Resistance. Plant Cell, 2008, 20, 2238-2251.	3.1	812
3	Transcriptional repression by AtMYB4 controls production of UV-protecting sunscreens in Arabidopsis. EMBO Journal, 2000, 19, 6150-6161.	3.5	797
4	Plants send small RNAs in extracellular vesicles to fungal pathogen to silence virulence genes. Science, 2018, 360, 1126-1129.	6.0	781
5	Bidirectional cross-kingdom RNAi and fungal uptake of external RNAs confer plant protection. Nature Plants, 2016, 2, 16151.	4.7	616
6	Multifunctionality and diversity within the plant MYB-gene family. , 1999, 41, 577-585.		590
7	Towards functional characterisation of the members of theR2R3-MYBgene family fromArabidopsis thaliana. Plant Journal, 1998, 16, 263-276.	2.8	554
8	A pathogen-inducible endogenous siRNA in plant immunity. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 18002-18007.	3.3	447
9	Arabidopsis Argonaute 2 Regulates Innate Immunity via miRNA393âˆ—-Mediated Silencing of a Golgi-Localized SNARE Gene, MEMB12. Molecular Cell, 2011, 42, 356-366.	4.5	386
10	The Plant Growthâ€“Promoting Rhizobacterium <i>Bacillus cereus</i> AR156 Induces Systemic Resistance in <i>Arabidopsis thaliana</i> by Simultaneously Activating Salicylate- and Jasmonate/Ethylene-Dependent Signaling Pathways. Molecular Plant-Microbe Interactions, 2011, 24, 533-542.	1.4	378
11	Role of Small RNAs in Host-Microbe Interactions. Annual Review of Phytopathology, 2010, 48, 225-246.	3.5	315
12	A novel class of bacteria-induced small RNAs in <i>Arabidopsis</i>. Genes and Development, 2007, 21, 3123-3134.	2.7	296
13	Threats Posed by the Fungal Kingdom to Humans, Wildlife, and Agriculture. MBio, 2020, 11, .	1.8	275
14	A Combinatorial Interplay Among the 1-Aminocyclopropane-1-Carboxylate Isoforms Regulates Ethylene Biosynthesis in<i>Arabidopsis thaliana</i>. Genetics, 2009, 183, 979-1003.	1.2	263
15	VPEÎ³ Exhibits a Caspase-like Activity that Contributes to Defense against Pathogens. Current Biology, 2004, 14, 1897-1906.	1.8	250
16	Bacteria-responsive microRNAs regulate plant innate immunity by modulating plant hormone networks. Plant Molecular Biology, 2011, 75, 93-105.	2.0	237
17	Control of cell and petal morphogenesis by R2R3 MYB transcription factors. Development (Cambridge), 2007, 134, 1691-1701.	1.2	230
18	An RNA polymerase II- and AGO4-associated protein acts in RNA-directed DNA methylation. Nature, 2010, 465, 106-109.	13.7	228

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19	NPK1, an MEKK1-like Mitogen-Activated Protein Kinase Kinase Kinase, Regulates Innate Immunity and Development in Plants. Developmental Cell, 2002, 3, 291-297.	3.1	224
20	An Effector of RNA-Directed DNA Methylation in Arabidopsis Is an ARGONAUTE 4- and RNA-Binding Protein. Cell, 2009, 137, 498-508.	13.5	220
21	Small RNAs â€“ Big Players in Plant-Microbe Interactions. Cell Host and Microbe, 2019, 26, 173-182.	5.1	206
22	Virus-induced gene silencing inSolanumspecies. Plant Journal, 2004, 39, 264-272.	2.8	200
23	Small RNAs: A New Paradigm in Plant-Microbe Interactions. Annual Review of Phytopathology, 2014, 52, 495-516.	3.5	192
24	Transcriptional Regulation of Arabidopsis <i>MIR168a</i> and <i>ARGONAUTE1</i> Homeostasis in Abscisic Acid and Abiotic Stress Responses Â. Plant Physiology, 2012, 158, 1279-1292.	2.3	182
25	Host small RNAs are big contributors to plant innate immunity. Current Opinion in Plant Biology, 2009, 12, 465-472.	3.5	176
26	Cross-kingdom RNA trafficking and environmental RNAi â€” nature's blueprint for modern crop protection strategies. Current Opinion in Microbiology, 2018, 46, 58-64.	2.3	176
27	Comparative Analyses of Potato Expressed Sequence Tag Libraries. Plant Physiology, 2003, 131, 419-429.	2.3	174
28	Botrytis small RNA <i>Bc</i>-siR37 suppresses plant defense genes by cross-kingdom RNAi. RNA Biology, 2017, 14, 421-428.	1.5	171
29	Function of a mitogen-activated protein kinase pathway in N gene-mediated resistance in tobacco. Plant Journal, 2003, 33, 719-731.	2.8	170
30	Spray-Induced Gene Silencing: a Powerful Innovative Strategy for Crop Protection. Trends in Microbiology, 2017, 25, 4-6.	3.5	159
31	Hypoxia-responsive miRNAs target argonaute 1 to promote angiogenesis. Journal of Clinical Investigation, 2013, 123, 1057-1067.	3.9	158
32	High throughput sequencing reveals novel and abiotic stress-regulated microRNAs in the inflorescences of rice. BMC Plant Biology, 2012, 12, 132.	1.6	157
33	Small RNAs â€” the secret agents in the plantâ€“pathogen interactions. Current Opinion in Plant Biology, 2015, 26, 87-94.	3.5	155
34	siRNAs from miRNA sites mediate DNA methylation of target genes. Nucleic Acids Research, 2010, 38, 6883-6894.	6.5	153
35	RNA-binding proteins contribute to small RNA loading in plant extracellular vesicles. Nature Plants, 2021, 7, 342-352.	4.7	153
36	Function Search in a Large Transcription Factor Gene Family in Arabidopsis: Assessing the Potential of Reverse Genetics to Identify Insertional Mutations in R2R3 MYB Genes. Plant Cell, 1999, 11, 1827-1840.	3.1	151

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37	Contribution of Small RNA Pathway Components in Plant Immunity. Molecular Plant-Microbe Interactions, 2013, 26, 617-625.	1.4	149
38	Conversations between kingdoms: small RNAs. Current Opinion in Biotechnology, 2015, 32, 207-215.	3.3	133
39	Sprayâ€induced gene silencing for disease control is dependent on the efficiency of pathogen RNA uptake. Plant Biotechnology Journal, 2021, 19, 1756-1768.	4.1	126
40	Small RNAs and the regulation of cis-natural antisense transcripts in Arabidopsis. BMC Molecular Biology, 2008, 9, 6.	3.0	120
41	Genome-wide analysis of plant nat-siRNAs reveals insights into their distribution, biogenesis and function. Genome Biology, 2012, 13, R20.	13.9	120
42	<i>Magnaporthe oryzae</i> Induces the Expression of a MicroRNA to Suppress the Immune Response in Rice. Plant Physiology, 2018, 177, 352-368.	2.3	120
43	Multiple distinct small RNAs originate from the same microRNA precursors. Genome Biology, 2010, 11, R81.	13.9	118
44	Small RNAs and extracellular vesicles: New mechanisms of cross-species communication and innovative tools for disease control. PLoS Pathogens, 2019, 15, e1008090.	2.1	114
45	Small RNA Profiling Reveals Phosphorus Deficiency as a Contributing Factor in Symptom Expression for Citrus Huanglongbing Disease. Molecular Plant, 2013, 6, 301-310.	3.9	110
46	Cross-kingdom RNA trafficking and environmental RNAi for powerful innovative pre- and post-harvest plant protection. Current Opinion in Plant Biology, 2017, 38, 133-141.	3.5	108
47	Genome-wide identification and analysis of small RNAs originated from natural antisense transcripts in Oryza sativa. Genome Research, 2008, 19, 70-78.	2.4	107
48	Osaâ€miR164a targets <i>Os<scp>NAC</scp>60</i> and negatively regulates rice immunity against the blast fungus <i>Magnaporthe oryzae</i>. Plant Journal, 2018, 95, 584-597.	2.8	103
49	Interaction between two mitogen-activated protein kinases during tobacco defense signaling. Plant Journal, 2003, 34, 149-160.	2.8	100
50	Endogenous small RNAs and antibacterial immunity in plants. FEBS Letters, 2008, 582, 2679-2684.	1.3	100
51	Message in a Bubble: Shuttling Small RNAs and Proteins Between Cells and Interacting Organisms Using Extracellular Vesicles. Annual Review of Plant Biology, 2021, 72, 497-524.	8.6	85
52	ARGONAUTE PIWI domain and microRNA duplex structure regulate small RNA sorting in Arabidopsis. Nature Communications, 2014, 5, 5468.	5.8	69
53	Stand-Alone Rolling Circle Amplification Combined with Capillary Electrophoresis for Specific Detection of Small RNA. Analytical Chemistry, 2009, 81, 4906-4913.	3.2	68
54	The mechanics of cell fate determination in petals. Philosophical Transactions of the Royal Society B: Biological Sciences, 2002, 357, 809-813.	1.8	67

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55	miRNA863-3p sequentially targets negative immune regulator ARLPKs and positive regulator SERRATE upon bacterial infection. Nature Communications, 2016, 7, 11324.	5.8	66
56	A stable antimicrobial peptide with dual functions of treating and preventing citrus Huanglongbing. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	66
57	Detection of Pleiotropy through a Phenome-Wide Association Study (PheWAS) of Epidemiologic Data as Part of the Environmental Architecture for Genes Linked to Environment (EAGLE) Study. PLoS Genetics, 2014, 10, e1004678.	1.5	64
58	MODIFIED VACUOLE PHENOTYPE1 Is an Arabidopsis Myrosinase-Associated Protein Involved in Endomembrane Protein Trafficking Â Â. Plant Physiology, 2009, 152, 120-132.	2.3	57
59	Down-Regulation of the 26S Proteasome Subunit RPN9 Inhibits Viral Systemic Transport and Alters Plant Vascular Development. Plant Physiology, 2006, 142, 651-661.	2.3	55
60	Mechanisms of Small RNA Generation from Cis-NATs in Response to Environmental and Developmental Cues. Molecular Plant, 2013, 6, 704-715.	3.9	53
61	<i>Bacillus cereus</i> AR156 primes induced systemic resistance by suppressing miR825/825* and activating defenseâ€related genes in <i>Arabidopsis</i>. Journal of Integrative Plant Biology, 2016, 58, 426-439.	4.1	53
62	Next-generation sequencing of paired tyrosine kinase inhibitor-sensitive and -resistant EGFR mutant lung cancer cell lines identifies spectrum of DNA changes associated with drug resistance. Genome Research, 2013, 23, 1434-1445.	2.4	48
63	RNAs â€" a new frontier in crop protection. Current Opinion in Biotechnology, 2021, 70, 204-212.	3.3	45
64	Bioinformatics analysis suggests base modifications of tRNAs and miRNAs in Arabidopsis thaliana. BMC Genomics, 2009, 10, 155.	1.2	44
65	A safe ride in extracellular vesicles â€" small RNA trafficking between plant hosts and pathogens. Current Opinion in Plant Biology, 2019, 52, 140-148.	3.5	44
66	Effective methods for isolation and purification of extracellular vesicles from plants. Journal of Integrative Plant Biology, 2021, 63, 2020-2030.	4.1	42
67	A viral suppressor protein inhibits host RNA silencing by hooking up with Argonautes: Figure 1.. Genes and Development, 2010, 24, 853-856.	2.7	37
68	<i>Bacillus cereus</i> AR156 triggers induced systemic resistance against <i>Pseudomonas syringae</i> pv. <i>tomato</i> DC3000 by suppressing miR472 and activating CNLsâ€mediated basal immunity in <i>Arabidopsis</i>. Molecular Plant Pathology, 2020, 21, 854-870.	2.0	37
69	Discovery of Pathogenâ€Regulated Small RNAs in Plants. Methods in Enzymology, 2007, 427, 215-227.	0.4	36
70	Rice siR109944 suppresses plant immunity to sheath blight and impacts multiple agronomic traits by affecting auxin homeostasis. Plant Journal, 2020, 102, 948-964.	2.8	36
71	Pathogen small <scp>RNAs</scp>: a new class of effectors for pathogen attacks. Molecular Plant Pathology, 2015, 16, 219-223.	2.0	34
72	Inconsistency and features of single nucleotide variants detected in whole exome sequencing versus transcriptome sequencing: A case study in lung cancer. Methods, 2015, 83, 118-127.	1.9	33

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73	Plant extracellular vesicles: Trojan horses of crossâ€kingdom warfare. FASEB BioAdvances, 2021, 3, 657-664.	1.3	29
74	Optimizing the Sequence of Anti-EGFRâ€"Targeted Therapy in EGFR-Mutant Lung Cancer. Molecular Cancer Therapeutics, 2015, 14, 542-552.	1.9	28
75	Dual regulation of Arabidopsis AGO2 by arginine methylation. Nature Communications, 2019, 10, 844.	5.8	23
76	Internalization of miPEP165a into Arabidopsis Roots Depends on both Passive Diffusion and Endocytosis-Associated Processes. International Journal of Molecular Sciences, 2020, 21, 2266.	1.8	22
77	The chromatin-remodeling protein BAF60/SWP73A regulates the plant immune receptor NLRs. Cell Host and Microbe, 2021, 29, 425-434.e4.	5.1	21
78	Discovery of Plant MicroRNAs and Short-Interfering RNAs by Deep Parallel Sequencing. Methods in Molecular Biology, 2009, 495, 121-132.	0.4	20
79	Highlights of the miniâ€symposium on extracellular vesicles in interâ€organismal communication, held in Munich, Germany, August 2018. Journal of Extracellular Vesicles, 2019, 8, 1590116.	5.5	16
80	Chapter Eight Mechanisms and applications of transcriptional control of phenylpropanoid metabolism. Recent Advances in Phytochemistry, 2001, , 155-169.	0.5	15
81	<i>Arabidopsis</i> TAF15b Localizes to RNA Processing Bodies and Contributes to <i>snc1</i>-Mediated Autoimmunity. Molecular Plant-Microbe Interactions, 2016, 29, 247-257.	1.4	15
82	Silencing of <i>At<scp>RAP</scp></i>, a target gene of a bacteriaâ€induced small <scp>RNA</scp>, triggers antibacterial defense responses through activation of <scp>LSU</scp>2 and downâ€regulation of <i><scp>GLK</scp>1</i>. New Phytologist, 2017, 215, 1144-1155.	3.5	14
83	Identification of citrus immune regulators involved in defence against Huanglongbing using a new functional screening system. Plant Biotechnology Journal, 2021, 19, 757-766.	4.1	14
84	Coordinated Epigenetic Regulation in Plants: A Potent Managerial Tool to Conquer Biotic Stress. Frontiers in Plant Science, 2021, 12, 795274.	1.7	14
85	Function Search in a Large Transcription Factor Gene Family in Arabidopsis: Assessing the Potential of Reverse Genetics to Identify Insertional Mutations in R2R3 MYB Genes. Plant Cell, 1999, 11, 1827.	3.1	13
86	How Many Ways Are There to Generate Small RNAs?. Molecular Cell, 2010, 38, 775-777.	4.5	13
87	The small RNAâ€mediated gene silencing machinery is required in Arabidopsis for stimulation of growth, systemic disease resistance, and suppression of the nitrileâ€specifier gene <i>NSP4</i> by <i>Trichoderma atroviride</i>. Plant Journal, 2022, 109, 873-890.	2.8	13
88	Serum vitamins A and E as modifiers of lipid trait genetics in the National Health and Nutrition Examination Surveys as part of the Population Architecture using Genomics and Epidemiology (PAGE) study. Human Genetics, 2012, 131, 1699-1708.	1.8	12
89	Isolation of Extracellular Vesicles from <i>Arabidopsis</i>. Current Protocols, 2022, 2, e352.	1.3	11
90	Isolation and Profiling of Protein-Associated Small RNAs. Methods in Molecular Biology, 2012, 883, 165-176.	0.4	7

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91	Phytobacterial Type III Effectors HopX1, HopAB1 and HopF2 Enhance Sense-Post-Transcriptional Gene Silencing Independently of Plant R Gene-Effector Recognition. Molecular Plant-Microbe Interactions, 2011, 24, 907-917.	1.4	6
92	Plant biotic interactions. Journal of Integrative Plant Biology, 2016, 58, 282-283.	4.1	3
93	Small RNA Extraction and Quantification of Isolated Fungal Cells from Plant Tissue by the Sequential Protoplastation. Methods in Molecular Biology, 2021, 2170, 219-229.	0.4	3
94	Synthesizing Fluorescently Labeled dsRNAs and sRNAs to Visualize Fungal RNA Uptake. Methods in Molecular Biology, 2020, 2166, 215-225.	0.4	3
95	The Non-Coding RNA Journal Club: Highlights on Recent Papersâ€"7. Non-coding RNA, 2019, 5, 40.	1.3	2
96	A PROBABILISTIC METHOD FOR SMALL RNA FLOWGRAM MATCHING. , 2007, , .		2
97	Host Small RNAs and Plant Innate Immunity. RNA Technologies, 2011, , 21-34.	0.2	1
98	Focus Issue Editorial: Biotic Stress. Plant Physiology, 2019, 179, 1193-1195.	2.3	1
99	Expression of rice siR109944 in Arabidopsis affects plant immunity to multiple fungal pathogens. Plant Signaling and Behavior, 2020, 15, 1744347.	1.2	1
100	Abstract B10: Acquired resistance to afatinib plus cetuximab in EGFR-mutant lung adenocarcinoma may be mediated by EGFR overexpression and overcome by the mutant-specific EGFR inhibitor, AZD9291.. Clinical Cancer Research, 2014, 20, B10-B10.	3.2	1
101	Deep Sequencing and Bioinformatics Analysis of Endothelial MicroRNA under Hypoxia Stress. FASEB Journal, 2010, 24, 784.10.	0.2	0
102	Forward Chemical Screening of Small RNA Pathways. Methods in Molecular Biology, 2014, 1056, 95-101.	0.4	0
103	Purification and Analysis of Chloroplast RNAs in. Methods in Molecular Biology, 2021, 2170, 133-141.	0.4	0