

# Jianqiang Wu

## List of Publications by Year in descending order

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70  
papers

4,423  
citations

117571

34  
h-index

110317

64  
g-index

73  
all docs

73  
docs citations

73  
times ranked

4884  
citing authors

#	ARTICLE	IF	CITATIONS
1	New Insights into Plant Responses to the Attack from Insect Herbivores. <i>Annual Review of Genetics</i> , 2010, 44, 1-24.	3.2	752
2	Herbivory Rapidly Activates MAPK Signaling in Attacked and Unattacked Leaf Regions but Not between Leaves of <i>Nicotiana attenuata</i> . <i>Plant Cell</i> , 2007, 19, 1096-1122.	3.1	391
3	Sugar is an endogenous cue for juvenile-to-adult phase transition in plants. <i>ELife</i> , 2013, 2, e00269.	2.8	279
4	Herbivory-induced signalling in plants: perception and action. <i>Plant, Cell and Environment</i> , 2009, 32, 1161-1174.	2.8	221
5	Large-scale gene losses underlie the genome evolution of parasitic plant <i>Cuscuta australis</i> . <i>Nature Communications</i> , 2018, 9, 2683.	5.8	145
6	High levels of jasmonic acid antagonize the biosynthesis of gibberellins and inhibit the growth of <i>Nicotiana attenuata</i> stems. <i>Plant Journal</i> , 2013, 73, 591-606.	2.8	127
7	MAPK signaling: A key element in plant defense response to insects. <i>Insect Science</i> , 2015, 22, 157-164.	1.5	115
8	Scopoletin is a phytoalexin against <i>Alternaria alternata</i> in wild tobacco dependent on jasmonate signalling. <i>Journal of Experimental Botany</i> , 2014, 65, 4305-4315.	2.4	113
9	Silencing <i>Nicotiana attenuata</i> Calcium-Dependent Protein Kinases, <i>CDPK4</i> and <i>CDPK5</i> , Strongly Up-Regulates Wound- and Herbivory-Induced Jasmonic Acid Accumulations. <i>Plant Physiology</i> , 2012, 159, 1591-1607.	2.3	94
10	Silencing <i>MPK4</i> in <i>Nicotiana attenuata</i> Enhances Photosynthesis and Seed Production But Compromises Abscisic Acid-Induced Stomatal Closure and Guard Cell-Mediated Resistance to <i>Pseudomonas syringae</i> pv <i>tomato</i> DC3000. <i>Plant Physiology</i> , 2012, 158, 759-776.	2.3	93
11	Comparative analysis of alfalfa ( <i>Medicago sativa</i> L.) leaf transcriptomes reveals genotype-specific salt tolerance mechanisms. <i>BMC Plant Biology</i> , 2018, 18, 35.	1.6	93
12	BAK1 regulates the accumulation of jasmonic acid and the levels of trypsin proteinase inhibitors in <i>Nicotiana attenuata</i> 's responses to herbivory. <i>Journal of Experimental Botany</i> , 2011, 62, 641-652.	2.4	83
13	Silencing two herbivory-activated MAP kinases, SIPK and WIPK, does not increase <i>Nicotiana attenuata</i> 's susceptibility to herbivores in the glasshouse and in nature. <i>New Phytologist</i> , 2009, 181, 161-173.	3.5	75
14	Jasmonic acid carboxyl methyltransferase regulates development and herbivory-induced defense response in rice. <i>Journal of Integrative Plant Biology</i> , 2016, 58, 564-576.	4.1	72
15	Deep Sequencing Reveals Transcriptome Re-Programming of <i>Taxus</i> Media Cells to the Elicitation with Methyl Jasmonate. <i>PLoS ONE</i> , 2013, 8, e62865.	1.1	71
16	S-Nitrosoglutathione reductase (GSNOR) mediates the biosynthesis of jasmonic acid and ethylene induced by feeding of the insect herbivore <i>Manduca sexta</i> and is important for jasmonate-elicited responses in <i>Nicotiana attenuata</i> . <i>Journal of Experimental Botany</i> , 2011, 62, 4605-4616.	2.4	69
17	A Comparison of Two <i>Nicotiana attenuata</i> Accessions Reveals Large Differences in Signaling Induced by Oral Secretions of the Specialist Herbivore <i>Manduca sexta</i> . <i>Plant Physiology</i> , 2008, 146, 927-939.	2.3	68
18	The Essential Role of Jasmonic Acid in Plant-Herbivore Interactions Using the Wild Tobacco <i>Nicotiana attenuata</i> as a Model. <i>Journal of Genetics and Genomics</i> , 2013, 40, 597-606.	1.7	63

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19	Oral secretions from <i>Mythimna separata</i> insects specifically induce defence responses in maize as revealed by high-dimensional biological data. <i>Plant, Cell and Environment</i> , 2016, 39, 1749-1766.	2.8	61
20	MYC2, MYC3, and MYC4 function additively in wounding-induced jasmonic acid biosynthesis and catabolism. <i>Journal of Integrative Plant Biology</i> , 2020, 62, 1159-1175.	4.1	60
21	Extensive Inter-plant Protein Transfer between <i>Cuscuta</i> Parasites and Their Host Plants. <i>Molecular Plant</i> , 2020, 13, 573-585.	3.9	59
22	Stem parasitic plant <i>Cuscuta australis</i> (dodder) transfers herbivory-induced signals among plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E6703-E6709.	3.3	58
23	The Asian corn borer <i>Ostrinia furnacalis</i> feeding increases the direct and indirect defence of mid-whorl stage commercial maize in the field. <i>Plant Biotechnology Journal</i> , 2019, 17, 88-102.	4.1	58
24	Root parasitic plant <i>Orobanchae aegyptiaca</i> and shoot parasitic plant <i>Cuscuta australis</i> obtained Brassicaceae-specific strictosidine synthase-like genes by horizontal gene transfer. <i>BMC Plant Biology</i> , 2014, 14, 19.	1.6	57
25	Transcriptomic and Phytochemical Analyses Reveal Root-Mediated Resource-Based Defense Response to Leaf Herbivory by <i>Ectropis oblique</i> in Tea Plant ( <i>Camellia sinensis</i> ). <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 5465-5476.	2.4	52
26	<i>Nicotiana attenuata</i> MPK4 suppresses a novel jasmonic acid (JA) signaling-independent defense pathway against the specialist insect <i>Manduca sexta</i> , but is not required for the resistance to the generalist <i>Spodoptera littoralis</i> . <i>New Phytologist</i> , 2013, 199, 787-799.	3.5	51
27	Transcriptomics and Alternative Splicing Analyses Reveal Large Differences between Maize Lines B73 and Mo17 in Response to Aphid <i>Rhopalosiphum padi</i> Infestation. <i>Frontiers in Plant Science</i> , 2017, 8, 1738.	1.7	47
28	Genome-wide identification of calcium-dependent protein kinases in soybean and analyses of their transcriptional responses to insect herbivory and drought stress. <i>Scientific Reports</i> , 2016, 6, 18973.	1.6	45
29	Evolution of proteinase inhibitor defenses in North American allopolyploid species of <i>Nicotiana</i> . <i>Planta</i> , 2006, 224, 750-760.	1.6	42
30	Two mitogen-activated protein kinase kinases, MKK1 and MEK2, are involved in wounding- and specialist lepidopteran herbivore <i>Manduca sexta</i> -induced responses in <i>Nicotiana attenuata</i> . <i>Journal of Experimental Botany</i> , 2011, 62, 4355-4365.	2.4	42
31	<i>Arabidopsis</i> Plants Having Defects in Nonsense-mediated mRNA Decay Factors UPF1, UPF2, and UPF3 Show Photoperiod-dependent Phenotypes in Development and Stress Responses. <i>Journal of Integrative Plant Biology</i> , 2012, 54, 99-114.	4.1	42
32	Current understanding of maize and rice defense against insect herbivores. <i>Plant Diversity</i> , 2018, 40, 189-195.	1.8	42
33	<i>Cuscuta australis</i> (dodder) parasite eavesdrops on the host plants' FT signals to flower. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 23125-23130.	3.3	42
34	Nonsense-mediated mRNA decay (NMD) silences the accumulation of aberrant trypsin proteinase inhibitor mRNA in <i>Nicotiana attenuata</i> . <i>Plant Journal</i> , 2007, 51, 693-706.	2.8	40
35	Aphid ( <i>Myzus persicae</i> ) feeding on the parasitic plant dodder ( <i>Cuscuta australis</i> ) activates defense responses in both the parasite and soybean host. <i>New Phytologist</i> , 2018, 218, 1586-1596.	3.5	39
36	A chromosome-scale <i>Gastrodia elata</i> genome and large-scale comparative genomic analysis indicate convergent evolution by gene loss in mycoheterotrophic and parasitic plants. <i>Plant Journal</i> , 2021, 108, 1609-1623.	2.8	38

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37	Ultraviolet-B enhances the resistance of multiple plant species to lepidopteran insect herbivory through the jasmonic acid pathway. <i>Scientific Reports</i> , 2018, 8, 277.	1.6	37
38	SGT1 regulates wounding- and herbivory-induced jasmonic acid accumulation and <i>Nicotiana attenuata</i> 's resistance to the specialist lepidopteran herbivore <i>Manduca sexta</i> . <i>New Phytologist</i> , 2011, 189, 1143-1156.	3.5	36
39	Differential Elicitation of Two Processing Proteases Controls the Processing Pattern of the Trypsin Proteinase Inhibitor Precursor in <i>Nicotiana attenuata</i> . <i>Plant Physiology</i> , 2005, 139, 375-388.	2.3	34
40	An efficient system composed of maize protoplast transfection and HPLC-MS for studying the biosynthesis and regulation of maize benzoxazinoids. <i>Plant Methods</i> , 2019, 15, 144.	1.9	27
41	<i>PR-13/Thionin</i> But Not <i>PR-1</i> Mediates Bacterial Resistance in <i>Nicotiana attenuata</i> in Nature, and Neither Influences Herbivore Resistance. <i>Molecular Plant-Microbe Interactions</i> , 2008, 21, 988-1000.	1.4	26
42	Silencing <i>NOA1</i> Elevates Herbivory-Induced Jasmonic Acid Accumulation and Compromises Most of the Carbon-Based Defense Metabolites in <i>Nicotiana attenuata</i> . <i>Journal of Integrative Plant Biology</i> , 2011, 53, 619-631.	4.1	26
43	Calcium-dependent protein kinases, CDPK4 and CDPK5, affect early steps of jasmonic acid biosynthesis in <i>Nicotiana attenuata</i> . <i>Plant Signaling and Behavior</i> , 2013, 8, e22784.	1.2	25
44	Fatty acid-amino acid conjugates are essential for systemic activation of salicylic acid-induced protein kinase and accumulation of jasmonic acid in <i>Nicotiana attenuata</i> . <i>BMC Plant Biology</i> , 2014, 14, 326.	1.6	25
45	The oriental armyworm ( <i>Mythimna separata</i> ) feeding induces systemic defence responses within and between maize leaves. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180307.	1.8	25
46	Up-regulation of MPK4 increases the feeding efficiency of the green peach aphid under elevated CO <sub>2</sub> in <i>Nicotiana attenuata</i> . <i>Journal of Experimental Botany</i> , 2017, 68, 5923-5935.	2.4	23
47	Molecular cloning and characterization of a cytochrome P450 taxoid 9 $\beta$ -hydroxylase in <i>Ginkgo biloba</i> cells. <i>Biochemical and Biophysical Research Communications</i> , 2014, 443, 938-943.	1.0	22
48	Dodder-transmitted mobile signals prime host plants for enhanced salt tolerance. <i>Journal of Experimental Botany</i> , 2020, 71, 1171-1184.	2.4	22
49	The multifaceted function of BAK1/SERK3. <i>Plant Signaling and Behavior</i> , 2011, 6, 1322-1324.	1.2	21
50	COI1-Regulated Hydroxylation of Jasmonoyl-isoleucine Impairs <i>Nicotiana attenuata</i> 's Resistance to the Generalist Herbivore <i>Spodoptera litura</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 2822-2831.	2.4	21
51	For security and stability. <i>Plant Signaling and Behavior</i> , 2011, 6, 1479-1482.	1.2	19
52	The Parasitic Plant <i>Cuscuta australis</i> Is Highly Insensitive to Abscisic Acid-Induced Suppression of Hypocotyl Elongation and Seed Germination. <i>PLoS ONE</i> , 2015, 10, e0135197.	1.1	19
53	Elevated CO <sub>2</sub> differentially affects tobacco and rice defense against lepidopteran larvae via the jasmonic acid signaling pathway. <i>Journal of Integrative Plant Biology</i> , 2018, 60, 412-431.	4.1	19
54	ZmMPK6 and ethylene signalling negatively regulate the accumulation of anti-insect metabolites DIMBOA and DIMBOA-Glc in maize inbred line A188. <i>New Phytologist</i> , 2021, 229, 2273-2287.	3.5	19

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55	Inter-species mRNA transfer among green peach aphids, dodder parasites, and cucumber host plants. <i>Plant Diversity</i> , 2022, 44, 1-10.	1.8	18
56	Silencing Brassinosteroid Receptor <i>BRI1</i> Impairs Herbivory-elicited Accumulation of Jasmonic Acid-Isoleucine and Diterpene Glycosides, but not Jasmonic Acid and Trypsin Proteinase Inhibitors in <i>Nicotiana attenuata</i> . <i>Journal of Integrative Plant Biology</i> , 2013, 55, 514-526.	4.1	16
57	The Use of VIGS Technology to Study Plant-Herbivore Interactions. <i>Methods in Molecular Biology</i> , 2013, 975, 109-137.	0.4	15
58	Parasite dodder enables transfer of bidirectional systemic nitrogen signals between host plants. <i>Plant Physiology</i> , 2021, 185, 1395-1410.	2.3	15
59	Baseline Survey of Root-Associated Microbes of <i>Taxus chinensis</i> (Pilger) Rehd. <i>PLoS ONE</i> , 2015, 10, e0123026.	1.1	14
60	Three MAPK Kinases, MEK1, SIPKK, and NPK2, are not Involved in Activation of SIPK after Wounding and Herbivore Feeding but Important for Accumulation of Trypsin Proteinase Inhibitors. <i>Plant Molecular Biology Reporter</i> , 2012, 30, 731-740.	1.0	13
61	Two hAT transposon genes were transferred from Brassicaceae to broomrapes and are actively expressed in some recipients. <i>Scientific Reports</i> , 2016, 6, 30192.	1.6	12
62	<i>Mythimna separata</i> herbivory primes maize resistance in systemic leaves. <i>Journal of Experimental Botany</i> , 2021, 72, 3792-3805.	2.4	12
63	Salt-tolerant and -sensitive alfalfa ( <i>Medicago sativa</i> ) cultivars have large variations in defense responses to the lepidopteran insect <i>Spodoptera litura</i> under normal and salt stress condition. <i>PLoS ONE</i> , 2017, 12, e0181589.	1.1	11
64	Silencing JA hydroxylases in <i>Nicotiana attenuata</i> enhances jasmonic acid-isoleucine-mediated defenses against <i>Spodoptera litura</i> . <i>Plant Diversity</i> , 2020, 42, 111-119.	1.8	11
65	Whole transcriptome analysis of three leaf stages in two cultivars and one of their F1 hybrid of <i>Camellia sinensis</i> L. with differing EGCG content. <i>Tree Genetics and Genomes</i> , 2017, 13, 1.	0.6	10
66	The host jasmonic acid pathway regulates the transcriptomic changes of dodder and host plant under the scenario of caterpillar feeding on dodder. <i>BMC Plant Biology</i> , 2019, 19, 540.	1.6	10
67	An acyltransferase gene that putatively functions in anthocyanin modification was horizontally transferred from Fabaceae into the genus <i>Cuscuta</i> . <i>Plant Diversity</i> , 2016, 38, 149-155.	1.8	9
68	Herbivory-induced systemic signals are likely to be evolutionarily conserved in euphyllophytes. <i>Journal of Experimental Botany</i> , 2021, 72, 7274-7284.	2.4	6
69	miRNAs as a Secret Weapon in the Battlefield of <i>Haustoria</i> , the Interface between Parasites and Host Plants. <i>Molecular Plant</i> , 2018, 11, 354-356.	3.9	4
70	Virus-Induced Gene Silencing in Plant MAPK Research. <i>Methods in Molecular Biology</i> , 2014, 1171, 79-89.	0.4	1