

# Cai-Zhong Jiang

## List of Publications by Year in descending order

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97  
papers

7,181  
citations

94433

37  
h-index

60623

81  
g-index

101  
all docs

101  
docs citations

101  
times ranked

7482  
citing authors

#	ARTICLE	IF	CITATIONS
1	Arabidopsis Transcription Factors: Genome-Wide Comparative Analysis Among Eukaryotes. <i>Science</i> , 2000, 290, 2105-2110.	12.6	2,455
2	WIN1, a transcriptional activator of epidermal wax accumulation in Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 4706-4711.	7.1	389
3	Microarray Analysis of the Abscission-Related Transcriptome in the Tomato Flower Abscission Zone in Response to Auxin Depletion. <i>Plant Physiology</i> , 2010, 154, 1929-1956.	4.8	202
4	Chalcone synthase as a reporter in virus-induced gene silencing studies of flower senescence. <i>Plant Molecular Biology</i> , 2004, 55, 521-530.	3.9	176
5	Recruitment of CRABS CLAW to promote nectary development within the eudicot clade. <i>Development (Cambridge)</i> , 2005, 132, 5021-5032.	2.5	169
6	A NAC transcription factor, NOR-like1, is a new positive regulator of tomato fruit ripening. <i>Horticulture Research</i> , 2018, 5, 75.	6.3	152
7	Cloning and characterization of a gene (UVR3) required for photorepair of 6-4 photoproducts in Arabidopsis thaliana. <i>Nucleic Acids Research</i> , 1998, 26, 638-644.	14.5	139
8	Photosynthesis, Rubisco Activity and Amount, and Their Regulation by Transcription in Senescing Soybean Leaves. <i>Plant Physiology</i> , 1993, 101, 105-112.	4.8	133
9	Re-evaluation of the nor mutation and the role of the NAC-NOR transcription factor in tomato fruit ripening. <i>Journal of Experimental Botany</i> , 2020, 71, 3560-3574.	4.8	120
10	A mechanism for intergenomic integration: abundance of ribulose biphosphate carboxylase small-subunit protein influences the translation of the large-subunit mRNA.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 3881-3885.	7.1	119
11	Control of chrysanthemum flowering through integration with an aging pathway. <i>Nature Communications</i> , 2017, 8, 829.	12.8	114
12	Photorepair mutants of Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 7441-7445.	7.1	112
13	In rose, transcription factor PTM balances growth and drought survival via PIP2;1 aquaporin. <i>Nature Plants</i> , 2019, 5, 290-299.	9.3	112
14	Diversity and redundancy of the ripening regulatory networks revealed by the fruitENCODE and the new CRISPR/Cas9 CNR and NOR mutants. <i>Horticulture Research</i> , 2019, 6, 39.	6.3	112
15	Overexpression of an ABA biosynthesis gene using a stress-inducible promoter enhances drought resistance in petunia. <i>Horticulture Research</i> , 2015, 2, 15013.	6.3	92
16	An Ethylene-Induced Regulatory Module Delays Flower Senescence by Regulating Cytokinin Content. <i>Plant Physiology</i> , 2017, 173, 853-862.	4.8	90
17	Silencing polygalacturonase expression inhibits tomato petiole abscission. <i>Journal of Experimental Botany</i> , 2008, 59, 973-979.	4.8	88
18	Effects of postharvest curing treatment on flesh colour and phenolic metabolism in fresh-cut potato products. <i>Food Chemistry</i> , 2015, 169, 246-254.	8.2	88

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19	Silencing a prohibitin alters plant development and senescence. <i>Plant Journal</i> , 2005, 44, 16-24.	5.7	84
20	Effect of maturity and cold storage on ethylene biosynthesis and ripening in ‘Bartlett’ pears treated after harvest with 1-MCP. <i>Postharvest Biology and Technology</i> , 2011, 59, 1-9.	6.0	84
21	Auxin response factor 6A regulates photosynthesis, sugar accumulation, and fruit development in tomato. <i>Horticulture Research</i> , 2019, 6, 85.	6.3	82
22	<i>BEL</i> LIKE HOMEODOMAIN 11 regulates chloroplast development and chlorophyll synthesis in tomato fruit. <i>Plant Journal</i> , 2018, 94, 1126-1140.	5.7	76
23	Regulation of Photosynthesis during Leaf Development in RbcS Antisense DNA Mutants of Tobacco. <i>Plant Physiology</i> , 1995, 107, 215-224.	4.8	70
24	Sequencing a <i>Juglans regia</i> × <i>J. microcarpa</i> hybrid yields high-quality genome assemblies of parental species. <i>Horticulture Research</i> , 2019, 6, 55.	6.3	67
25	A KNOTTED1-LIKE HOMEODOMAIN Protein Regulates Abscission in Tomato by Modulating the Auxin Pathway. <i>Plant Physiology</i> , 2015, 167, 844-853.	4.8	66
26	A basic helix-loop-helix transcription factor, PhFBH4, regulates flower senescence by modulating ethylene biosynthesis pathway in petunia. <i>Horticulture Research</i> , 2015, 2, 15059.	6.3	59
27	<i>Rosa hybrida</i> RhERF1 and RhERF4 mediate ethylene- and auxin-regulated petal abscission by influencing pectin degradation. <i>Plant Journal</i> , 2019, 99, 1159-1171.	5.7	56
28	Antisense RNA inhibition of Rubisco activase expression. <i>Plant Journal</i> , 1994, 5, 787-798.	5.7	53
29	UV- and Gamma-Radiation Sensitive Mutants of <i>Arabidopsis thaliana</i> . <i>Genetics</i> , 1997, 147, 1401-1409.	2.9	53
30	Transcriptomic analysis reveals numerous diverse protein kinases and transcription factors involved in desiccation tolerance in the resurrection plant <i>Myrothamnus flabellifolia</i> . <i>Horticulture Research</i> , 2015, 2, 15034.	6.3	52
31	Physiological and ecological characteristics of high yielding varieties in rice plants. I. Yield and dry matter production. <i>Japanese Journal of Crop Science</i> , 1988, 57, 132-138.	0.2	48
32	The circadian-controlled PIF8-BBX28 module regulates petal senescence in rose flowers by governing mitochondrial ROS homeostasis at night. <i>Plant Cell</i> , 2021, 33, 2716-2735.	6.6	48
33	MfbHLH38, a <i>Myrothamnus flabellifolia</i> bHLH transcription factor, confers tolerance to drought and salinity stresses in <i>Arabidopsis</i> . <i>BMC Plant Biology</i> , 2020, 20, 542.	3.6	47
34	A Petunia Homeodomain-Leucine Zipper Protein, PhHD-Zip, Plays an Important Role in Flower Senescence. <i>PLoS ONE</i> , 2014, 9, e88320.	2.5	46
35	Genes associated with opening and senescence of <i>Mirabilis jalapa</i> flowers. <i>Journal of Experimental Botany</i> , 2007, 58, 2193-2201.	4.8	44
36	Transcriptome Profiling of Petal Abscission Zone and Functional Analysis of an Aux/IAA Family Gene RhIAA16 Involved in Petal Shedding in Rose. <i>Frontiers in Plant Science</i> , 2016, 7, 1375.	3.6	43

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37	Auxin Regulates Sucrose Transport to Repress Petal Abscission in Rose ( <i>Rosa hybrida</i> ). <i>Plant Cell</i> , 2020, 32, 3485-3499.	6.6	43
38	Ethylene-regulated asymmetric growth of the petal base promotes flower opening in rose ( <i>Rosa</i> ). <i>Journal of Experimental Botany</i> , 2020, 71, 101-110.	6.6	43
39	Mechanisms Involved in Calcium Deficiency Development in Tomato Fruit in Response to Gibberellins. <i>Journal of Plant Growth Regulation</i> , 2012, 31, 221-234.	5.1	41
40	PhERF2, an ethylene-responsive element binding factor, plays an essential role in waterlogging tolerance of petunia. <i>Horticulture Research</i> , 2019, 6, 83.	6.3	41
41	Little or No Repair of Cyclobutyl Pyrimidine Dimers Is Observed in the Organellar Genomes of the Young Arabidopsis Seedling. <i>Plant Physiology</i> , 1996, 111, 19-25.	4.8	39
42	1-Methylcyclopropene (1-MCP), storage time, and shelf life and temperature affect phenolic compounds and antioxidant activity of 'Jonagold' apple. <i>Postharvest Biology and Technology</i> , 2019, 150, 71-79.	6.0	39
43	R2R3 MYB-dependent auxin signalling regulates trichome formation, and increased trichome density confers spider mite tolerance on tomato. <i>Plant Biotechnology Journal</i> , 2021, 19, 138-152.	8.3	39
44	Transcriptome Changes Associated with Delayed Flower Senescence on Transgenic Petunia by Inducing Expression of <i>etr1-1</i> , a Mutant Ethylene Receptor. <i>PLoS ONE</i> , 2013, 8, e65800.	2.5	37
45	Treatment with thidiazuron improves opening and vase life of iris flowers. <i>Postharvest Biology and Technology</i> , 2010, 56, 77-84.	6.0	36
46	A short-term carbon dioxide treatment inhibits the browning of fresh-cut burdock. <i>Postharvest Biology and Technology</i> , 2015, 110, 96-102.	6.0	36
47	A petunia ethylene-responsive element binding factor, <i>PhERF2</i> , plays an important role in antiviral RNA silencing. <i>Journal of Experimental Botany</i> , 2016, 67, 3353-3365.	4.8	36
48	Application of Exogenous Ethylene Inhibits Postharvest Peel Browning of 'Huangguan' Pear. <i>Frontiers in Plant Science</i> , 2017, 7, 2029.	3.6	36
49	Functional analysis of a RING domain ankyrin repeat protein that is highly expressed during flower senescence. <i>Journal of Experimental Botany</i> , 2007, 58, 3623-3630.	4.8	34
50	Cysteine Protease Inhibitors Reduce Enzymatic Browning of Potato by Lowering the Accumulation of Free Amino Acids. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 2467-2476.	5.2	32
51	Comparative Transcriptomic Analysis Reveals That Ethylene/H <sub>2</sub> O <sub>2</sub> -Mediated Hypersensitive Response and Programmed Cell Death Determine the Compatible Interaction of Sand Pear and <i>Alternaria alternata</i> . <i>Frontiers in Plant Science</i> , 2017, 8, 195.	3.6	31
52	Determination of IAA and ABA in the same plant sample by a widely applicable method using GC-MS with selected ion monitoring. <i>Journal of Plant Growth Regulation</i> , 1992, 11, 55-65.	5.1	30
53	Transcriptome profiling reveals regulatory mechanisms underlying corolla senescence in petunia. <i>Horticulture Research</i> , 2018, 5, 16.	6.3	28
54	Defence responses regulated by jasmonate and delayed senescence caused by ethylene receptor mutation contribute to the tolerance of petunia to <i>Oryctolypea cinerea</i> . <i>Molecular Plant Pathology</i> , 2013, 14, 453-469.	4.2	25

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55	A transcriptome approach towards understanding the development of ripening capacity in ‘Bartlett’™ pears ( <i>Pyrus communis</i> L.). <i>BMC Genomics</i> , 2015, 16, 762.	2.8	25
56	Loss of the Photosynthetic Capacity and Proteins in Senescing Leaves at Top Positions of Two Cultivars of Rice in Relation to the Source Capacities of the Leaves for Carbon and Nitrogen. <i>Plant and Cell Physiology</i> , 1999, 40, 496-503.	3.1	24
57	Dehydration-Induced WRKY Transcriptional Factor MfWRKY70 of <i>Myrothamnus flabellifolia</i> Enhanced Drought and Salinity Tolerance in <i>Arabidopsis</i> . <i>Biomolecules</i> , 2021, 11, 327.	4.0	24
58	Sodium hypochlorite: A promising agent for reducing <i>Botrytis cinerea</i> infection on rose flowers. <i>Postharvest Biology and Technology</i> , 2010, 58, 262-267.	6.0	23
59	Physiological and molecular changes during opening and senescence of <i>Nicotiana glauca</i> flowers. <i>Plant Science</i> , 2010, 179, 267-272.	3.6	23
60	Virus-Induced Gene Silencing in Ornamental Plants. <i>Methods in Molecular Biology</i> , 2011, 744, 81-96.	0.9	23
61	Controlling plant architecture by manipulation of gibberellic acid signalling in petunia. <i>Horticulture Research</i> , 2014, 1, 14061.	6.3	22
62	AUXIN RESPONSE FACTOR 18 ‘HISTONE DEACETYLASE 6 module regulates floral organ identity in rose ( <i>Rosa hybrida</i> ). <i>Plant Physiology</i> , 2021, 186, 1074-1087.	4.8	22
63	Inflorescence abscission protein SLIDL6 promotes low light intensity-induced tomato flower abscission. <i>Plant Physiology</i> , 2021, 186, 1288-1301.	4.8	22
64	Identification of defense-related genes newly-associated with tomato flower abscission. <i>Plant Signaling and Behavior</i> , 2011, 6, 590-593.	2.4	20
65	MfPIF1 of Resurrection Plant <i>Myrothamnus flabellifolia</i> Plays a Positive Regulatory Role in Responding to Drought and Salinity Stresses in <i>Arabidopsis</i> . <i>International Journal of Molecular Sciences</i> , 2020, 21, 3011.	4.1	19
66	A novel aspartic protease inhibitor inhibits the enzymatic browning of potatoes. <i>Postharvest Biology and Technology</i> , 2021, 172, 111353.	6.0	19
67	The Tomato Hybrid Proline-rich Protein regulates the abscission zone competence to respond to ethylene signals. <i>Horticulture Research</i> , 2018, 5, 28.	6.3	18
68	SlERF52 regulates <i>SITIP1</i> expression to accelerate tomato pedicel abscission. <i>Plant Physiology</i> , 2021, 185, 1829-1846.	4.8	18
69	PhOBF1, a petunia ocs element binding factor, plays an important role in antiviral RNA silencing. <i>Journal of Experimental Botany</i> , 2017, 68, erw490.	4.8	17
70	Metabolomic and Transcriptomic Analyses Reveal That a MADS-Box Transcription Factor TDR4 Regulates Tomato Fruit Quality. <i>Frontiers in Plant Science</i> , 2019, 10, 792.	3.6	17
71	The HD-Zip transcription factor SHB15A regulates abscission by modulating jasmonoyl-isoleucine biosynthesis. <i>Plant Physiology</i> , 2022, 189, 2396-2412.	4.8	17
72	Destabilization of <i>rbcS</i> sense transcripts by antisense RNA. <i>Plant Molecular Biology</i> , 1994, 25, 569-576.	3.9	16

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73	Influence of 1-MCP treatments on eating quality and consumer preferences of ‘Qinmei’™ kiwifruit during shelf life. <i>Journal of Food Science and Technology</i> , 2015, 52, 335-342.	2.8	16
74	Auxin response and transport during induction of pedicel abscission in tomato. <i>Horticulture Research</i> , 2021, 8, 192.	6.3	16
75	LrABCF1, a GCN-type ATP-binding cassette transporter from <i>Lilium regale</i> , is involved in defense responses against viral and fungal pathogens. <i>Planta</i> , 2016, 244, 1185-1199.	3.2	15
76	Heterologous overexpression of strawberry bZIP11 induces sugar accumulation and inhibits plant growth of tomato. <i>Scientia Horticulturae</i> , 2022, 292, 110634.	3.6	15
77	Co-silencing of the <i>Mirabilis</i> antiviral protein (MAP) permits virus-induced gene silencing (VIGS) of other genes in Four ‘Clock’ plants ( <i>Mirabilis jalapa</i> ). <i>Journal of Horticultural Science and Biotechnology</i> , 2012, 87, 334-340.	1.9	12
78	Radiation-sensitive <i>Arabidopsis</i> mutants are proficient for T-DNA transformation. <i>Molecular Genetics and Genomics</i> , 1999, 261, 623-626.	2.4	11
79	A Cytokinin Analog Thidiazuron Suppresses Shoot Growth in Potted Rose Plants via the Gibberellic Acid Pathway. <i>Frontiers in Plant Science</i> , 2021, 12, 639717.	3.6	11
80	Virus-Induced Gene Silencing for Functional Characterization of Genes in <i>Petunia</i> . , 2009, , 381-394.		10
81	S1-bZIP Transcription Factors Play Important Roles in the Regulation of Fruit Quality and Stress Response. <i>Frontiers in Plant Science</i> , 2021, 12, 802802.	3.6	10
82	Regulation of photosynthesis in developing leaves of soybean chlorophyll-deficient mutants. <i>Photosynthesis Research</i> , 1997, 51, 185-192.	2.9	8
83	Postharvest physiology of cut <i>Gardenia jasminoides</i> flowers. <i>Scientia Horticulturae</i> , 2020, 261, 108983.	3.6	7
84	Heterologous Expression of Dehydration-Inducible MfWRKY17 of <i>Myrothamnus Flabellifolia</i> Confers Drought and Salt Tolerance in <i>Arabidopsis</i> . <i>International Journal of Molecular Sciences</i> , 2020, 21, 4603.	4.1	7
85	Ethanol fumigation combined with and without nitrogen gas delays potato greening and inhibits glycoalkaloids generation under light. <i>Postharvest Biology and Technology</i> , 2017, 134, 31-37.	6.0	5
86	Heterologous Expression of Dehydration-Inducible MfbHLH145 of <i>Myrothamnus flabellifoli</i> Enhanced Drought and Salt Tolerance in <i>Arabidopsis</i> . <i>International Journal of Molecular Sciences</i> , 2022, 23, 5546.	4.1	5
87	The chrysanthemum DEAD-box RNA helicase CmRH56 regulates rhizome outgrowth in response to drought stress. <i>Journal of Experimental Botany</i> , 2022, 73, 5671-5681.	4.8	5
88	Heterologous Expression of MfWRKY7 of Resurrection Plant <i>Myrothamnus flabellifolia</i> Enhances Salt and Drought Tolerance in <i>Arabidopsis</i> . <i>International Journal of Molecular Sciences</i> , 2022, 23, 7890.	4.1	5
89	Editorial: Regulation of Fruit Ripening and Senescence. <i>Frontiers in Plant Science</i> , 2021, 12, 711458.	3.6	4
90	Role of the <i>KNOTTED1</i> -LIKE HOMEODOMAIN PROTEIN ( <i>KD1</i> ) in regulating abscission of tomato flower pedicels at early and late stages of the process. <i>Physiologia Plantarum</i> , 2021, 173, 2103-2118.	5.2	4

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91	Generation, Identification, and Characterization of Repair-Defective Mutants of Arabidopsis. , 1999, 113, 31-40.		3
92	A rapid in vitro phenotypic assay of walnut shoots for pre-screening resistance to Phytophthora pini. Plant Health Progress, 0, , .	1.4	2
93	TRV Based Virus Induced Gene Silencing in Gladiolus (Gladiolus grandiflorusL.), A Monocotyledonous Ornamental Plant. Vegetos, 2013, 26, 170.	1.5	2
94	Improvement of drought resistance through manipulation of the gibberellic acid pathway. Ornamental Plant Research, 2021, 1, 1-7.	0.9	2
95	Xylem functionality controlling blossom-end rot incidence in transgenic ALC::NCED tomato plants. South African Journal of Botany, 2022, 150, 120-128.	2.5	1
96	Generation, Identification, and Characterization of Repair-Defective Mutants of Arabidopsis. , 1999, , 31-40.		0
97	Antisense RNA Inhibition of Photosynthetic Gene Expression. , 2020, , 147-158.		0