

Xiao-Ya Chen

List of Publications by Year in descending order

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125
papers

16,105
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15504
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times ranked

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#	ARTICLE	IF	CITATIONS
1	Sequencing of allotetraploid cotton (<i>Gossypium hirsutum</i> L. acc. TM-1) provides a resource for fiber improvement. <i>Nature Biotechnology</i> , 2015, 33, 531-537.	17.5	1,560
2	Silencing a cotton bollworm P450 monooxygenase gene by plant-mediated RNAi impairs larval tolerance of gossypol. <i>Nature Biotechnology</i> , 2007, 25, 1307-1313.	17.5	1,120
3	Control of Root Cap Formation by MicroRNA-Targeted Auxin Response Factors in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2005, 17, 2204-2216.	6.6	741
4	Plants transfer lipids to sustain colonization by mutualistic mycorrhizal and parasitic fungi. <i>Science</i> , 2017, 356, 1172-1175.	12.6	584
5	<i>Gossypium barbadense</i> and <i>Gossypium hirsutum</i> genomes provide insights into the origin and evolution of allotetraploid cotton. <i>Nature Genetics</i> , 2019, 51, 739-748.	21.4	568
6	<i>Arabidopsis</i> MYC2 Interacts with DELLA Proteins in Regulating Sesquiterpene Synthase Gene Expression. <i>Plant Cell</i> , 2012, 24, 2635-2648.	6.6	497
7	Characterization of GaWRKY1, a Cotton Transcription Factor That Regulates the Sesquiterpene Synthase Gene (+)- δ -Cadinene Synthase-A. <i>Plant Physiology</i> , 2004, 135, 507-515.	4.8	417
8	Toward Sequencing Cotton (<i>Gossypium</i>) Genomes: Figure 1.. <i>Plant Physiology</i> , 2007, 145, 1303-1310.	4.8	390
9	The Jasmonate-Responsive AP2/ERF Transcription Factors AaERF1 and AaERF2 Positively Regulate Artemisinin Biosynthesis in <i>Artemisia annua</i> L.. <i>Molecular Plant</i> , 2012, 5, 353-365.	8.3	379
10	Plant Terpenoids: Biosynthesis and Ecological Functions. <i>Journal of Integrative Plant Biology</i> , 2007, 49, 179-186.	8.5	352
11	<i>Scutellaria baicalensis</i> , the golden herb from the garden of Chinese medicinal plants. <i>Science Bulletin</i> , 2016, 61, 1391-1398.	9.0	329
12	Control of Plant Trichome Development by a Cotton Fiber MYB Gene[W]. <i>Plant Cell</i> , 2004, 16, 2323-2334.	6.6	326
13	CYP76AH1 catalyzes turnover of miltiradiene in tanshinones biosynthesis and enables heterologous production of ferruginol in yeasts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 12108-12113.	7.1	326
14	Transcriptional Regulation of Plant Secondary Metabolism ^F . <i>Journal of Integrative Plant Biology</i> , 2012, 54, 703-712.	8.5	279
15	Temporal Control of Trichome Distribution by MicroRNA156-Targeted <i>SPL</i> Genes in <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2010, 22, 2322-2335.	6.6	276
16	<i>Gossypium barbadense</i> genome sequence provides insight into the evolution of extra-long staple fiber and specialized metabolites. <i>Scientific Reports</i> , 2015, 5, 14139.	3.3	271
17	Cotton plants expressing CYP6AE14 double-stranded RNA show enhanced resistance to bollworms. <i>Transgenic Research</i> , 2011, 20, 665-673.	2.4	221
18	Control of cotton fibre elongation by a homeodomain transcription factor GhHOX3. <i>Nature Communications</i> , 2014, 5, 5519.	12.8	205

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19	Characteristics, development and mapping of <i>Gossypium hirsutum</i> derived EST-SSRs in allotetraploid cotton. <i>Theoretical and Applied Genetics</i> , 2006, 112, 430-439.	3.6	204
20	Gene expression and metabolite profiles of cotton fiber during cell elongation and secondary cell wall synthesis. <i>Cell Research</i> , 2007, 17, 422-434.	12.0	196
21	Cloning, Expression, and Characterization of (+)- δ^2 -Cadinene Synthase: A Catalyst for Cotton Phytoalexin Biosynthesis. <i>Archives of Biochemistry and Biophysics</i> , 1995, 324, 255-266.	3.0	195
22	The rice (E)- δ^2 -caryophyllene synthase (OsTPS3) accounts for the major inducible volatile sesquiterpenes. <i>Phytochemistry</i> , 2007, 68, 1632-1641.	2.9	189
23	Jasmonate response decay and defense metabolite accumulation contributes to age-regulated dynamics of plant insect resistance. <i>Nature Communications</i> , 2017, 8, 13925.	12.8	176
24	A specialized flavone biosynthetic pathway has evolved in the medicinal plant, <i>Scutellaria baicalensis</i> . <i>Science Advances</i> , 2016, 2, e1501780.	10.3	165
25	VdNEP, an Elicitor from <i>Verticillium dahliae</i> , Induces Cotton Plant Wilting. <i>Applied and Environmental Microbiology</i> , 2004, 70, 4989-4995.	3.1	158
26	TRICHOMELESS1 regulates trichome patterning by suppressing <i>GLABRA1</i> in <i>Arabidopsis</i> . <i>Development (Cambridge)</i> , 2007, 134, 3873-3882.	2.5	158
27	Evidence That High Activity of Vacuolar Invertase Is Required for Cotton Fiber and Arabidopsis Root Elongation through Osmotic Dependent and Independent Pathways, Respectively. <i>Plant Physiology</i> , 2010, 154, 744-756.	4.8	158
28	An ABC Transporter Gene of <i>Arabidopsis thaliana</i> , AtWBC11, is Involved in Cuticle Development and Prevention of Organ Fusion. <i>Plant and Cell Physiology</i> , 2007, 48, 1790-1802.	3.1	149
29	Progressive Regulation of Sesquiterpene Biosynthesis in Arabidopsis and Patchouli (<i>Pogostemon</i>)	8.3	146
30	Molecular cloning and functional identification of (+)- δ^2 -cadinene-8-hydroxylase, a cytochrome P450 mono-oxygenase (CYP706B1) of cotton sesquiterpene biosynthesis. <i>Plant Journal</i> , 2001, 28, 95-104.	5.7	139
31	Arabidopsis Transcription Factors SPL1 and SPL12 Confer Plant Thermotolerance at Reproductive Stage. <i>Molecular Plant</i> , 2017, 10, 735-748.	8.3	133
32	Acetyltransferase-Mediated Deacetylation of Pectin Impairs Cell Elongation, Pollen Germination, and Plant Reproduction. <i>Plant Cell</i> , 2012, 24, 50-65.	6.6	132
33	Genetic basis for glandular trichome formation in cotton. <i>Nature Communications</i> , 2016, 7, 10456.	12.8	130
34	<i>Gossypium</i> enhanced P450 gene pool contributes to cotton bollworm tolerance to a pyrethroid insecticide. <i>Molecular Ecology</i> , 2012, 21, 4371-4385.	3.9	128
35	Genomic insights into divergence and dual domestication of cultivated allotetraploid cottons. <i>Genome Biology</i> , 2017, 18, 33.	8.8	128
36	The HD-Zip IV gene <i>GaHOX1</i> from cotton is a functional homologue of the <i>Arabidopsis GLABRA2</i> . <i>Physiologia Plantarum</i> , 2008, 134, 174-182.	5.2	124

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37	Small interfering <scp>RNA</scp>s from bidirectional transcripts of <i>Gh<scp>MML</scp>3_A12</i> regulate cotton fiber development. <i>New Phytologist</i> , 2016, 210, 1298-1310.	7.3	124
38	Ex planta phytoremediation of trichlorophenol and phenolic allelochemicals via an engineered secretory laccase. <i>Nature Biotechnology</i> , 2004, 22, 893-897.	17.5	123
39	The Reference Genome Sequence of <i>Scutellaria baicalensis</i> Provides Insights into the Evolution of Wogonin Biosynthesis. <i>Molecular Plant</i> , 2019, 12, 935-950.	8.3	121
40	A cDNA clone for Î²-caryophyllene synthase from <i>Artemisia annua</i> . <i>Phytochemistry</i> , 2002, 61, 523-529.	2.9	118
41	The Genome of Medicinal Plant <i>Macleaya cordata</i> Provides New Insights into Benzylisoquinoline Alkaloids Metabolism. <i>Molecular Plant</i> , 2017, 10, 975-989.	8.3	116
42	Two CYP82D Enzymes Function as Flavone Hydroxylases in the Biosynthesis of Root-Specific 4â€²-Deoxyflavones in <i>Scutellaria baicalensis</i> . <i>Molecular Plant</i> , 2018, 11, 135-148.	8.3	115
43	Recent Advances and Future Perspectives in Cotton Research. <i>Annual Review of Plant Biology</i> , 2021, 72, 437-462.	18.7	113
44	Genetics and evolution of <scp>MIXTA</scp> genes regulating cotton lint fiber development. <i>New Phytologist</i> , 2018, 217, 883-895.	7.3	112
45	Transcriptome Analysis of Medicinal Plant <i>Salvia miltiorrhiza</i> and Identification of Genes Related to Tanshinone Biosynthesis. <i>PLoS ONE</i> , 2013, 8, e80464.	2.5	111
46	Developmental and gene expression analyses of a cotton naked seed mutant. <i>Planta</i> , 2006, 223, 418-432.	3.2	110
47	Characterization of gossypol biosynthetic pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E5410-E5418.	7.1	105
48	Warm temperatures induce transgenerational epigenetic release of RNA silencing by inhibiting siRNA biogenesis in <i>Arabidopsis</i>. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 9171-9176.	7.1	104
49	Recent advances in biosynthesis of bioactive compounds in traditional Chinese medicinal plants. <i>Science Bulletin</i> , 2016, 61, 3-17.	9.0	103
50	Rational engineering of plasticity residues of sesquiterpene synthases from <i>Artemisia annua</i>: product specificity and catalytic efficiency. <i>Biochemical Journal</i> , 2013, 451, 417-426.	3.7	99
51	An effector from cotton bollworm oral secretion impairs host plant defense signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14331-14338.	7.1	98
52	Interaction between Two Timing MicroRNAs Controls Trichome Distribution in <i>Arabidopsis</i> . <i>PLoS Genetics</i> , 2014, 10, e1004266.	3.5	85
53	An <i>Atropa belladonna</i> hyoscyamine 6beta-hydroxylase gene is differentially expressed in the root pericycle and anthers. <i>Plant Molecular Biology</i> , 1999, 40, 141-152.	3.9	84
54	A cotton cDNA (GaPR-10) encoding a pathogenesis-related 10 protein with in vitro ribonuclease activity. <i>Plant Science</i> , 2002, 162, 629-636.	3.6	84

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55	A Cotton BURP Domain Protein Interacts With β -Expansin and Their Co-Expression Promotes Plant Growth and Fruit Production. <i>Molecular Plant</i> , 2013, 6, 945-958.	8.3	82
56	Cloning and Heterologous Expression of a Second (+)- β -Cadinene Synthase from <i>Gossypium arboreum</i> . <i>Journal of Natural Products</i> , 1996, 59, 944-951.	3.0	81
57	Cloning and Functional Characterization of a β -Pinene Synthase from <i>Artemisia annua</i> That Shows a Circadian Pattern of Expression. <i>Plant Physiology</i> , 2002, 130, 477-486.	4.8	81
58	A zinc finger protein gene <i>ZFP5</i> integrates phytohormone signaling to control root hair development in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2012, 72, 474-490.	5.7	79
59	The miR319-Targeted GhTCP4 Promotes the Transition from Cell Elongation to Wall Thickening in Cotton Fiber. <i>Molecular Plant</i> , 2020, 13, 1063-1077.	8.3	79
60	(3R)-Linalool Synthase from <i>Artemisia annua</i> L.: cDNA Isolation, Characterization, and Wound Induction. <i>Archives of Biochemistry and Biophysics</i> , 1999, 372, 143-149.	3.0	78
61	Mitochondrial small heat shock protein mediates seed germination via thermal sensing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4716-4721.	7.1	78
62	Silencing the vacuolar invertase gene <i>GhVIN1</i> blocks cotton fiber initiation from the ovule epidermis, probably by suppressing a cohort of regulatory genes via sugar signaling. <i>Plant Journal</i> , 2014, 78, 686-696.	5.7	77
63	Promoter of a cotton fibre MYB gene functional in trichomes of <i>Arabidopsis</i> and glandular trichomes of tobacco. <i>Journal of Experimental Botany</i> , 2008, 59, 3533-3542.	4.8	76
64	Lipidomic Analysis Reveals the Importance of GIPCs in <i>Arabidopsis</i> Leaf Extracellular Vesicles. <i>Molecular Plant</i> , 2020, 13, 1523-1532.	8.3	70
65	An ATP-Binding Cassette Transporter GhWBC1 from Elongating Cotton Fibers. <i>Plant Physiology</i> , 2003, 133, 580-588.	4.8	68
66	SPX4 interacts with both PHR1 and PAP1 to regulate critical steps in phosphorus status-dependent anthocyanin biosynthesis. <i>New Phytologist</i> , 2021, 230, 205-217.	7.3	65
67	Isolation of genes preferentially expressed in cotton fibers by cDNA filter arrays and RT-PCR. <i>Plant Science</i> , 2002, 163, 1113-1120.	3.6	64
68	Expression pattern of (+)- β -cadinene synthase genes and biosynthesis of sesquiterpene aldehydes in plants of <i>Gossypium arboreum</i> L.. <i>Planta</i> , 2000, 210, 644-651.	3.2	61
69	Downregulation of Rubisco Activity by Non-enzymatic Acetylation of RbcL. <i>Molecular Plant</i> , 2016, 9, 1018-1027.	8.3	58
70	Coordinated Accumulation of (+)- β -Cadinene Synthase mRNAs and Gossypol in Developing Seeds of <i>Gossypium hirsutum</i> and a New Member of the <i>cad1</i> Family from <i>G. arboreum</i> . <i>Journal of Natural Products</i> , 1999, 62, 248-252.	3.0	57
71	Core cis-element variation confers subgenome-biased expression of a transcription factor that functions in cotton fiber elongation. <i>New Phytologist</i> , 2018, 218, 1061-1075.	7.3	56
72	General and specialized tyrosine metabolism pathways in plants. <i>ABIOTECH</i> , 2020, 1, 97-105.	3.9	56

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73	Draft genome of the cotton aphid <i>Aphis gossypii</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2019, 105, 25-32.	2.7	55
74	Plant Specialized Metabolism Regulated by Jasmonate Signaling. <i>Plant and Cell Physiology</i> , 2019, 60, 2638-2647.	3.1	54
75	Characterization of two NADPH: Cytochrome P450 reductases from cotton (<i>Gossypium hirsutum</i>). <i>Phytochemistry</i> , 2010, 71, 27-35.	2.9	53
76	Isolation and characterization of terpene synthases in cotton (<i>Gossypium hirsutum</i>). <i>Phytochemistry</i> , 2013, 96, 46-56.	2.9	51
77	Title is missing!. <i>Plant Cell, Tissue and Organ Culture</i> , 1999, 57, 157-162.	2.3	50
78	Increased Accumulation of Artemisinin and Anthocyanins in <i>Artemisia annua</i> Expressing the Arabidopsis Blue Light Receptor CRY1. <i>Plant Molecular Biology Reporter</i> , 2009, 27, 334-341.	1.8	50
79	Mediation of JA signalling in glandular trichomes by the <i>woolly/SIMYC1</i> regulatory module improves pest resistance in tomato. <i>Plant Biotechnology Journal</i> , 2021, 19, 375-393.	8.3	50
80	Expression Pattern of Genes Encoding Farnesyl Diphosphate Synthase and Sesquiterpene Cyclase in Cotton Suspension-Cultured Cells Treated with Fungal Elicitors. <i>Molecular Plant-Microbe Interactions</i> , 1999, 12, 1095-1104.	2.6	49
81	Cysteine protease enhances plant-mediated bollworm RNA interference. <i>Plant Molecular Biology</i> , 2013, 83, 119-129.	3.9	49
82	Sugar uptake by protoplasts of the ectomycorrhizal fungus, <i>Amanita muscaria</i> (L. ex fr.) Hooker. <i>New Phytologist</i> , 1993, 125, 601-608.	7.3	44
83	Gossypol: phytoalexin of cotton. <i>Science China Life Sciences</i> , 2016, 59, 122-129.	4.9	44
84	Down-regulation of S-adenosyl-L-homocysteine hydrolase reveals a role of cytokinin in promoting transmethylation reactions. <i>Planta</i> , 2008, 228, 125-136.	3.2	43
85	Sphingolipid metabolism, transport, and functions in plants: Recent progress and future perspectives. <i>Plant Communications</i> , 2021, 2, 100214.	7.7	36
86	New Approaches to Agricultural Insect Pest Control Based on RNA Interference. <i>Advances in Insect Physiology</i> , 2012, , 73-117.	2.7	34
87	A Promiscuous CYP706A3 Reduces Terpene Volatile Emission from Arabidopsis Flowers, Affecting Florivores and the Floral Microbiome. <i>Plant Cell</i> , 2019, 31, 2947-2972.	6.6	33
88	Two types of O-methyltransferase are involved in biosynthesis of anticancer methoxylated 4-hydroxyflavones in <i>Scutellaria baicalensis</i> Georgi. <i>Plant Biotechnology Journal</i> , 2022, 20, 129-142.	8.3	32
89	Aromatization of natural products by a specialized detoxification enzyme. <i>Nature Chemical Biology</i> , 2020, 16, 250-256.	8.0	30
90	A 2-oxoglutarate-dependent dioxygenase converts dihydrofuran to furan in <i>Salvia</i> diterpenoids. <i>Plant Physiology</i> , 2022, 188, 1496-1506.	4.8	28

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91	Characterization and Ectopic Expression of a Populus Hydroxyacid Hydroxycinnamoyltransferase. Molecular Plant, 2013, 6, 1889-1903.	8.3	27
92	Isolation and Characterization of Three New Monoterpene Synthases from Artemisia annua. Frontiers in Plant Science, 2016, 7, 638.	3.6	22
93	Targeting insect mitochondrial complex I for plant protection. Plant Biotechnology Journal, 2016, 14, 1925-1935.	8.3	22
94	Arabidopsis trichome research sheds light on cotton fiber development mechanisms. Science Bulletin, 2007, 52, 1734-1741.	1.7	19
95	Development: A new function of plant trichomes. Nature Plants, 2016, 2, 16096.	9.3	19
96	<i>Arabidopsis</i> leaf extracellular vesicles in wound-induced jasmonate accumulation. Plant Signaling and Behavior, 2020, 15, 1833142.	2.4	17
97	Diterpene Synthases and Their Responsible Cyclic Natural Products. Natural Products and Bioprospecting, 2014, 4, 59-72.	4.3	15
98	Systematic identification of functional residues of <i>Artemisia annua</i> amorpha-4,11-diene synthase. Biochemical Journal, 2017, 474, 2191-2202.	3.7	15
99	Are small RNAs a big help to plants?. Science in China Series C: Life Sciences, 2009, 52, 212-223.	1.3	14
100	A gossypol biosynthetic intermediate disturbs plant defence response. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20180319.	4.0	13
101	Identification of a Novel (-)-5-Epi-remophilene Synthase from <i>Salvia miltiorrhiza</i> via Transcriptome Mining. Frontiers in Plant Science, 2017, 8, 627.	3.6	12
102	A comparative analysis of a fuzzless-lintless mutant of <i>Gossypium hirsutum</i> L. cv. Xu-142. Science in China Series C: Life Sciences, 2000, 43, 623-630.	1.3	11
103	Artemisinin and plant secondary metabolism. Science Bulletin, 2016, 61, 1-2.	9.0	10
104	A unique flavoenzyme operates in ubiquinone biosynthesis in photosynthesis-related eukaryotes. Science Advances, 2021, 7, eabl3594.	10.3	10
105	The effects of increased expression of an <i>Arabidopsis</i> HD-ZIP gene on leaf morphogenesis and anther dehiscence. Plant Science, 2007, 173, 567-576.	3.6	9
106	Transcriptome analysis of three cotton pests reveals features of gene expressions in the mesophyll feeder <i>Apolygus lucorum</i> . Science China Life Sciences, 2017, 60, 826-838.	4.9	9
107	Cotton genome: challenge into the polyploidy. Science Bulletin, 2017, 62, 1622-1623.	9.0	9
108	Characterization of <i>Arabidopsis thaliana</i> Hydroxyphenylpyruvate Reductases in the Tyrosine Conversion Pathway. Frontiers in Plant Science, 2018, 9, 1305.	3.6	9

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109	Progressive Regulation of Sesquiterpene Biosynthesis in Arabidopsis and Patchouli (Pogostemon) Tj ETQq1 1 0.784314 rgBT /Overlock	8.3	8
110	Engineering purple rice for human health. Science China Life Sciences, 2018, 61, 365-367.	4.9	8
111	RES transformation for biosynthesis and detoxification. Science China Life Sciences, 2020, 63, 1297-1302.	4.9	8
112	Isolation and regeneration of protoplasts from gills of Agaricus bisporus. Current Microbiology, 1993, 26, 307-312.	2.2	7
113	Branching out. Science China Life Sciences, 2017, 60, 108-110.	4.9	7
114	Engineering high coenzyme Q10 tomato. Metabolic Engineering, 2021, 68, 86-93.	7.0	7
115	Detoxification of Soil Phenolic Pollutants by Plant Secretory Enzyme. Methods in Biotechnology, 2007, , 49-57.	0.2	6
116	1,10/1,11-Cyclization catalyzed by diverged plant sesquiterpene synthases is dependent on a single residue. Organic and Biomolecular Chemistry, 2021, 19, 6650-6656.	2.8	5
117	Isolation of a (+)-Î-cadinene synthase gene CAD1-A and analysis of its expression pattern in seedlings of Gossypium arboreum L.. Science in China Series C: Life Sciences, 2000, 43, 245-253.	1.3	4
118	Heterogeneous signals in plantâ€“biotic interactions and their applications. Science China Life Sciences, 2019, 62, 1707-1709.	4.9	4
119	Manipulation of biotic signaling: a new theory for smarter pest control. Science China Life Sciences, 2017, 60, 781-784.	4.9	3
120	How plants synthesize coenzyme Q. Plant Communications, 2022, 3, 100341.	7.7	3
121	Translate Plant Metabolism into Modern Agriculture: A Starting Point. Molecular Plant, 2012, 5, 291-293.	8.3	2
122	Bitter but tasty cucumber. National Science Review, 2015, 2, 129-130.	9.5	2
123	Extrafloral nectaryâ€“the sleeping beauty of plant science. Journal of Cotton Research, 2020, 3, .	2.5	2
124	Gossypium barbadense and Gossypium hirsutum genomes provide insights into the origin and evolution of allotetraploid cotton. , 0, .		1
125	From Chinese Science Bulletin to Science Bulletin: celebrate the coming 50th birthday. Science Bulletin, 2015, 60, 2145-2150.	9.0	0