Xiao-Ya Chen

List of Publications by Year
in descending order

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125 papers	16,105 citations	15466 65 h-index	16605 123 g-index
133 all docs	133 docs citations	133 times ranked	13610 citing authors

#	Article	IF	Citations
1	Sequencing of allotetraploid cotton (Gossypium hirsutum L. acc. TM-1) provides a resource for fiber improvement. Nature Biotechnology, 2015, 33, 531-537.	9.4	1,560
2	Silencing a cotton bollworm P450 monooxygenase gene by plant-mediated RNAi impairs larval tolerance of gossypol. Nature Biotechnology, 2007, 25, 1307-1313.	9.4	1,120
3	Control of Root Cap Formation by MicroRNA-Targeted Auxin Response Factors in Arabidopsis. Plant Cell, 2005, 17, 2204-2216.	3.1	741
4	Plants transfer lipids to sustain colonization by mutualistic mycorrhizal and parasitic fungi. Science, 2017, 356, 1172-1175.	6.0	584
5	Gossypium barbadense and Gossypium hirsutum genomes provide insights into the origin and evolution of allotetraploid cotton. Nature Genetics, 2019, 51, 739-748.	9.4	568
6	Arabidopsis MYC2 Interacts with DELLA Proteins in Regulating Sesquiterpene Synthase Gene Expression. Plant Cell, 2012, 24, 2635-2648.	3.1	497
7	Characterization of GaWRKY1, a Cotton Transcription Factor That Regulates the Sesquiterpene Synthase Gene (+)-Î´-Cadinene Synthase-A. Plant Physiology, 2004, 135, 507-515.	2.3	417
8	Toward Sequencing Cotton (Gossypium) Genomes: Figure 1.. Plant Physiology, 2007, 145, 1303-1310.	2.3	390
9	The Jasmonate-Responsive AP2/ERF Transcription Factors AaERF1 and AaERF2 Positively Regulate Artemisinin Biosynthesis in Artemisia annua L.. Molecular Plant, 2012, 5, 353-365.	3.9	379
10	Plant Terpenoids: Biosynthesis and Ecological Functions. Journal of Integrative Plant Biology, 2007, 49, 179-186.	4.1	352
11	Scutellaria baicalensis , the golden herb from the garden of Chinese medicinal plants. Science Bulletin, 2016, 61, 1391-1398.	4.3	329
12	Control of Plant Trichome Development by a Cotton Fiber MYB Gene[W]. Plant Cell, 2004, 16, 2323-2334.	3.1	326
13	CYP76AH1 catalyzes turnover of miltiradiene in tanshinones biosynthesis and enables heterologous production of ferruginol in yeasts. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12108-12113.	3.3	326
14	Transcriptional Regulation of Plant Secondary Metabolism^F. Journal of Integrative Plant Biology, 2012, 54, 703-712.	4.1	279
15	Temporal Control of Trichome Distribution by MicroRNA156-TargetedSPLGenes inArabidopsis thalianaÂ Â. Plant Cell, 2010, 22, 2322-2335.	3.1	276
16	Gossypium barbadense genome sequence provides insight into the evolution of extra-long staple fiber and specialized metabolites. Scientific Reports, 2015, 5, 14139.	1.6	271
17	Cotton plants expressing CYP6AE14 double-stranded RNA show enhanced resistance to bollworms. Transgenic Research, 2011, 20, 665-673.	1.3	221
18	Control of cotton fibre elongation by a homeodomain transcription factor GhHOX3. Nature Communications, 2014, 5, 5519.	5.8	205

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19	Characteristics, development and mapping of Gossypium hirsutum derived EST-SSRs in allotetraploid cotton. Theoretical and Applied Genetics, 2006, 112, 430-439.	1.8	204
20	Gene expression and metabolite profiles of cotton fiber during cell elongation and secondary cell wall synthesis. Cell Research, 2007, 17, 422-434.	5.7	196
21	Cloning, Expression, and Characterization of (+)-Î´-Cadinene Synthase: A Catalyst for Cotton Phytoalexin Biosynthesis. Archives of Biochemistry and Biophysics, 1995, 324, 255-266.	1.4	195
22	The rice (E)-Î²-caryophyllene synthase (OsTPS3) accounts for the major inducible volatile sesquiterpenes. Phytochemistry, 2007, 68, 1632-1641.	1.4	189
23	Jasmonate response decay and defense metabolite accumulation contributes to age-regulated dynamics of plant insect resistance. Nature Communications, 2017, 8, 13925.	5.8	176
24	A specialized flavone biosynthetic pathway has evolved in the medicinal plant, Scutellaria baicalensis. Science Advances, 2016, 2, e1501780.	4.7	165
25	VdNEP, an Elicitor from Verticillium dahliae , Induces Cotton Plant Wilting. Applied and Environmental Microbiology, 2004, 70, 4989-4995.	1.4	158
26	TRICHOMELESS1 regulates trichome patterning by suppressingGLABRA1inArabidopsis. Development (Cambridge), 2007, 134, 3873-3882.	1.2	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 Â Â Â. Plant Physiology, 2010, 154, 744-756.	2.3	158
28	An ABC Transporter Gene of Arabidopsis thaliana, AtWBC11, is Involved in Cuticle Development and Prevention of Organ Fusion. Plant and Cell Physiology, 2007, 48, 1790-1802.	1.5	149
29	Progressive Regulation of Sesquiterpene Biosynthesis in Arabidopsis and Patchouli (Pogostemon) Tj ETQq1 1 0.784314 rgBT /Overloc	3.9	146
30	Molecular cloning and functional identification of (+)-Î´-cadinene-8-hydroxylase, a cytochrome P450 mono-oxygenase (CYP706B1) of cotton sesquiterpene biosynthesis. Plant Journal, 2001, 28, 95-104.	2.8	139
31	Arabidopsis Transcription Factors SPL1 and SPL12 Confer Plant Thermotolerance at Reproductive Stage. Molecular Plant, 2017, 10, 735-748.	3.9	133
32	Acetylesterase-Mediated Deacetylation of Pectin Impairs Cell Elongation, Pollen Germination, and Plant Reproduction Â. Plant Cell, 2012, 24, 50-65.	3.1	132
33	Genetic basis for glandular trichome formation in cotton. Nature Communications, 2016, 7, 10456.	5.8	130
34	Gossypolâ€enhanced P450 gene pool contributes to cotton bollworm tolerance to a pyrethroid insecticide. Molecular Ecology, 2012, 21, 4371-4385.	2.0	128
35	Genomic insights into divergence and dual domestication of cultivated allotetraploid cottons. Genome Biology, 2017, 18, 33.	3.8	128
36	The HDâ€Zip IV gene GaHOX1 from cotton is a functional homologue of the Arabidopsis GLABRA2. Physiologia Plantarum, 2008, 134, 174-182.	2.6	124

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37	Small interfering <scp>RNA</scp>s from bidirectional transcripts of Gh<scp>MML</scp>3_A12 regulate cotton fiber development. New Phytologist, 2016, 210, 1298-1310.	3.5	124
38	Ex planta phytoremediation of trichlorophenol and phenolic allelochemicals via an engineered secretory laccase. Nature Biotechnology, 2004, 22, 893-897.	9.4	123
39	The Reference Genome Sequence of Scutellaria baicalensis Provides Insights into the Evolution of Wogonin Biosynthesis. Molecular Plant, 2019, 12, 935-950.	3.9	121
40	A cDNA clone for Î²-caryophyllene synthase from Artemisia annua. Phytochemistry, 2002, 61, 523-529.	1.4	118
41	The Genome of Medicinal Plant Macleaya cordata Provides New Insights into Benzylisoquinoline Alkaloids Metabolism. Molecular Plant, 2017, 10, 975-989.	3.9	116
42	Two CYP82D Enzymes Function as Flavone Hydroxylases in the Biosynthesis of Root-Specific 4â€²-Deoxyflavones in Scutellaria baicalensis. Molecular Plant, 2018, 11, 135-148.	3.9	115
43	Recent Advances and Future Perspectives in Cotton Research. Annual Review of Plant Biology, 2021, 72, 437-462.	8.6	113
44	Genetics and evolution of <scp>MIXTA</scp> genes regulating cotton lint fiber development. New Phytologist, 2018, 217, 883-895.	3.5	112
45	Transcriptome Analysis of Medicinal Plant Salvia miltiorrhiza and Identification of Genes Related to Tanshinone Biosynthesis. PLoS ONE, 2013, 8, e80464.	1.1	111
46	Developmental and gene expression analyses of a cotton naked seed mutant. Planta, 2006, 223, 418-432.	1.6	110
47	Characterization of gossypol biosynthetic pathway. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E5410-E5418.	3.3	105
48	Warm temperatures induce transgenerational epigenetic release of RNA silencing by inhibiting siRNA biogenesis in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9171-9176.	3.3	104
49	Recent advances in biosynthesis of bioactive compounds in traditional Chinese medicinal plants. Science Bulletin, 2016, 61, 3-17.	4.3	103
50	Rational engineering of plasticity residues of sesquiterpene synthases from Artemisia annua: product specificity and catalytic efficiency. Biochemical Journal, 2013, 451, 417-426.	1.7	99
51	An effector from cotton bollworm oral secretion impairs host plant defense signaling. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14331-14338.	3.3	98
52	Interaction between Two Timing MicroRNAs Controls Trichome Distribution in Arabidopsis. PLoS Genetics, 2014, 10, e1004266.	1.5	85
53	An Atropa belladonna hyoscyamine 6beta-hydroxylase gene is differentially expressed in the root pericycle and anthers. Plant Molecular Biology, 1999, 40, 141-152.	2.0	84
54	A cotton cDNA (GaPR-10) encoding a pathogenesis-related 10 protein with in vitro ribonuclease activity. Plant Science, 2002, 162, 629-636.	1.7	84

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55	A Cotton BURP Domain Protein Interacts With Î±-Expansin and Their Co-Expression Promotes Plant Growth and Fruit Production. Molecular Plant, 2013, 6, 945-958.	3.9	82
56	Cloning and Heterologous Expression of a Second (+)-Î´-Cadinene Synthase fromGossypium arboreum. Journal of Natural Products, 1996, 59, 944-951.	1.5	81
57	Cloning and Functional Characterization of a Î²-Pinene Synthase from Artemisia annua That Shows a Circadian Pattern of Expression. Plant Physiology, 2002, 130, 477-486.	2.3	81
58	A zinc finger protein gene ZFP5 integrates phytohormone signaling to control root hair development in Arabidopsis. Plant Journal, 2012, 72, 474-490.	2.8	79
59	The miR319-Targeted GhTCP4 Promotes the Transition from Cell Elongation to Wall Thickening in Cotton Fiber. Molecular Plant, 2020, 13, 1063-1077.	3.9	79
60	(3R)-Linalool Synthase from Artemisia annua L.: cDNA Isolation, Characterization, and Wound Induction. Archives of Biochemistry and Biophysics, 1999, 372, 143-149.	1.4	78
61	Mitochondrial small heat shock protein mediates seed germination via thermal sensing. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4716-4721.	3.3	78
62	Silencing the vacuolar invertase gene <scp>GhVIN</scp>1 blocks cotton fiber initiation from the ovule epidermis, probably by suppressing a cohort of regulatory genes via sugar signaling. Plant Journal, 2014, 78, 686-696.	2.8	77
63	Promoter of a cotton fibre MYB gene functional in trichomes of Arabidopsis and glandular trichomes of tobacco. Journal of Experimental Botany, 2008, 59, 3533-3542.	2.4	76
64	Lipidomic Analysis Reveals the Importance of GIPCs in Arabidopsis Leaf Extracellular Vesicles. Molecular Plant, 2020, 13, 1523-1532.	3.9	70
65	An ATP-Binding Cassette Transporter GhWBC1 from Elongating Cotton Fibers. Plant Physiology, 2003, 133, 580-588.	2.3	68
66	SPX4 interacts with both PHR1 and PAP1 to regulate critical steps in phosphorusâ€statusâ€dependent anthocyanin biosynthesis. New Phytologist, 2021, 230, 205-217.	3.5	65
67	Isolation of genes preferentially expressed in cotton fibers by cDNA filter arrays and RT-PCR. Plant Science, 2002, 163, 1113-1120.	1.7	64
68	Expression pattern of (+)-Î´-cadinene synthase genes and biosynthesis of sesquiterpene aldehydes in plants of Gossypium arboreum L.. Planta, 2000, 210, 644-651.	1.6	61
69	Downregulation of Rubisco Activity by Non-enzymatic Acetylation of RbcL. Molecular Plant, 2016, 9, 1018-1027.	3.9	58
70	Coordinated Accumulation of (+)-Î´-Cadinene Synthase mRNAs and Gossypol in Developing Seeds ofGossypium hirsutumand a New Member of thecad1 Family fromG. arboreum. Journal of Natural Products, 1999, 62, 248-252.	1.5	57
71	Core cisâ€element variation confers subgenomeâ€biased expression of a transcription factor that functions in cotton fiber elongation. New Phytologist, 2018, 218, 1061-1075.	3.5	56
72	General and specialized tyrosine metabolism pathways in plants. ABIOTECH, 2020, 1, 97-105.	1.8	56

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73	Draft genome of the cotton aphid Aphis gossypii. Insect Biochemistry and Molecular Biology, 2019, 105, 25-32.	1.2	55
74	Plant Specialized Metabolism Regulated by Jasmonate Signaling. Plant and Cell Physiology, 2019, 60, 2638-2647.	1.5	54
75	Characterization of two NADPH: Cytochrome P450 reductases from cotton (Gossypium hirsutum). Phytochemistry, 2010, 71, 27-35.	1.4	53
76	Isolation and characterization of terpene synthases in cotton (Gossypium hirsutum). Phytochemistry, 2013, 96, 46-56.	1.4	51
77	Title is missing!. Plant Cell, Tissue and Organ Culture, 1999, 57, 157-162.	1.2	50
78	Increased Accumulation of Artemisinin and Anthocyanins in Artemisia annua Expressing the Arabidopsis Blue Light Receptor CRY1. Plant Molecular Biology Reporter, 2009, 27, 334-341.	1.0	50
79	Mediation of JA signalling in glandular trichomes by the woolly/SlMYC1 regulatory module improves pest resistance in tomato. Plant Biotechnology Journal, 2021, 19, 375-393.	4.1	50
80	Expression Pattern of Genes Encoding Farnesyl Diphosphate Synthase and Sesquiterpene Cyclase in Cotton Suspension-Cultured Cells Treated with Fungal Elicitors. Molecular Plant-Microbe Interactions, 1999, 12, 1095-1104.	1.4	49
81	Cysteine protease enhances plant-mediated bollworm RNA interference. Plant Molecular Biology, 2013, 83, 119-129.	2.0	49
82	Sugar uptake by protoplasts of the ectomycorrhizal fungus, Amanita muse aria (L. ex fr.) Hooker. New Phytologist, 1993, 125, 601-608.	3.5	44
83	Gossypol: phytoalexin of cotton. Science China Life Sciences, 2016, 59, 122-129.	2.3	44
84	Down-regulation of S-adenosyl-l-homocysteine hydrolase reveals a role of cytokinin in promoting transmethylation reactions. Planta, 2008, 228, 125-136.	1.6	43
85	Sphingolipid metabolism, transport, and functions in plants: Recent progress and future perspectives. Plant Communications, 2021, 2, 100214.	3.6	36
86	New Approaches to Agricultural Insect Pest Control Based on RNA Interference. Advances in Insect Physiology, 2012, , 73-117.	1.1	34
87	A Promiscuous CYP706A3 Reduces Terpene Volatile Emission from Arabidopsis Flowers, Affecting Florivores and the Floral Microbiome. Plant Cell, 2019, 31, 2947-2972.	3.1	33
88	Two types of Oâ€methyltransferase are involved in biosynthesis of anticancer methoxylated 4â€²â€deoxyflavones in Scutellaria baicalensis Georgi. Plant Biotechnology Journal, 2022, 20, 129-142.	4.1	32
89	Aromatization of natural products by a specialized detoxification enzyme. Nature Chemical Biology, 2020, 16, 250-256.	3.9	30
90	A 2-oxoglutarate-dependent dioxygenase converts dihydrofuran to furan in Salvia diterpenoids. Plant Physiology, 2022, 188, 1496-1506.	2.3	28

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91	Characterization and Ectopic Expression of a Populus Hydroxyacid Hydroxycinnamoyltransferase. Molecular Plant, 2013, 6, 1889-1903.	3.9	27
92	Isolation and Characterization of Three New Monoterpene Synthases from Artemisia annua. Frontiers in Plant Science, 2016, 7, 638.	1.7	22
93	Targeting insect mitochondrial complex I for plant protection. Plant Biotechnology Journal, 2016, 14, 1925-1935.	4.1	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.	4.7	19
96	Arabidopsis leaf extracellular vesicles in wound-induced jasmonate accumulation. Plant Signaling and Behavior, 2020, 15, 1833142.	1.2	17
97	Diterpene Synthases and Their Responsible Cyclic Natural Products. Natural Products and Bioprospecting, 2014, 4, 59-72.	2.0	15
98	Systematic identification of functional residues of Artemisia annua amorpha-4,11-diene synthase. Biochemical Journal, 2017, 474, 2191-2202.	1.7	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.	1.8	13
101	Identification of a Novel (-)-5-Epieremophilene Synthase from Salvia miltiorrhiza via Transcriptome Mining. Frontiers in Plant Science, 2017, 8, 627.	1.7	12
102	A comparative analysis ofafuzzless-lintless mutant ofGossypium hirsutum 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.	4.3	10
104	A unique flavoenzyme operates in ubiquinone biosynthesis in photosynthesis-related eukaryotes. Science Advances, 2021, 7, eabl3594.	4.7	10
105	The effects of increased expression of an Arabidopsis HD-ZIP gene on leaf morphogenesis and anther dehiscence. Plant Science, 2007, 173, 567-576.	1.7	9
106	Transcriptome analysis of three cotton pests reveals features of gene expressions in the mesophyll feeder Apolygus lucorum. Science China Life Sciences, 2017, 60, 826-838.	2.3	9
107	Cotton genome: challenge into the polyploidy. Science Bulletin, 2017, 62, 1622-1623.	4.3	9
108	Characterization of Arabidopsis thaliana Hydroxyphenylpyruvate Reductases in the Tyrosine Conversion Pathway. Frontiers in Plant Science, 2018, 9, 1305.	1.7	9

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109	Progressive Regulation of Sesquiterpene Biosynthesis in Arabidopsis and Patchouli (Pogostemon) Tj ETQq1 1 0.784314 rgBT /Overloc	3.9	8
110	Engineering purple rice for human health. Science China Life Sciences, 2018, 61, 365-367.	2.3	8
111	RES transformation for biosynthesis and detoxification. Science China Life Sciences, 2020, 63, 1297-1302.	2.3	8
112	Isolation and regeneration of protoplasts from gills ofAgaricus bisporus. Current Microbiology, 1993, 26, 307-312.	1.0	7
113	Branching out. Science China Life Sciences, 2017, 60, 108-110.	2.3	7
114	Engineering high coenzyme Q10 tomato. Metabolic Engineering, 2021, 68, 86-93.	3.6	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.	1.5	5
117	Isolation of a (+)-Î´-cadinene synthase gene CAD1-A and analysis of its expression pattern in seedlings ofGossypium 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.	2.3	4
119	Manipulation of biotic signaling: a new theory for smarter pest control. Science China Life Sciences, 2017, 60, 781-784.	2.3	3
120	How plants synthesize coenzyme Q. Plant Communications, 2022, 3, 100341.	3.6	3
121	Translate Plant Metabolism into Modern Agriculture: A Starting Point. Molecular Plant, 2012, 5, 291-293.	3.9	2
122	Bitter but tasty cucumber. National Science Review, 2015, 2, 129-130.	4.6	2
123	Extrafloral nectaryâ€“the sleeping beauty of plant science. Journal of Cotton Research, 2020, 3, .	1.0	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.	4.3	0