

Xiao-Quan Qi

List of Publications by Year in descending order

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64
papers

4,500
citations

136740

32
h-index

114278

63
g-index

66
all docs

66
docs citations

66
times ranked

4595
citing authors

#	ARTICLE	IF	CITATIONS
1	Biosynthesis, regulation, and domestication of bitterness in cucumber. <i>Science</i> , 2014, 346, 1084-1088.	6.0	388
2	A gene cluster for secondary metabolism in oat: Implications for the evolution of metabolic diversity in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 8233-8238.	3.3	271
3	Analysis of the Genome Sequence of the Medicinal Plant <i>Salvia miltiorrhiza</i> . <i>Molecular Plant</i> , 2016, 9, 949-952.	3.9	255
4	Quantitative Resistance to Biotrophic Filamentous Plant Pathogens: Concepts, Misconceptions, and Mechanisms. <i>Annual Review of Phytopathology</i> , 2015, 53, 445-470.	3.5	201
5	Use of locus-specific AFLP markers to construct a high-density molecular map in barley. <i>Theoretical and Applied Genetics</i> , 1998, 96, 376-384.	1.8	193
6	Comparison and integration of four barley genetic maps. <i>Genome</i> , 1996, 39, 379-394.	0.9	186
7	A different function for a member of an ancient and highly conserved cytochrome P450 family: From essential sterols to plant defense. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 18848-18853.	3.3	169
8	Identification of QTLs for partial resistance to leaf rust (<i>Puccinia hordei</i>) in barley. <i>Theoretical and Applied Genetics</i> , 1998, 96, 1205-1215.	1.8	162
9	A new class of oxidosqualene cyclases directs synthesis of antimicrobial phytoprotectants in monocots. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 13431-13436.	3.3	157
10	A Serine Carboxypeptidase-Like Acyltransferase Is Required for Synthesis of Antimicrobial Compounds and Disease Resistance in Oats Å. <i>Plant Cell</i> , 2009, 21, 2473-2484.	3.1	149
11	Association between relationship measures based on AFLP markers, pedigree data and morphological traits in barley. <i>Theoretical and Applied Genetics</i> , 1997, 95, 1161-1168.	1.8	145
12	Targeted mutagenesis in the medicinal plant <i>Salvia miltiorrhiza</i> . <i>Scientific Reports</i> , 2017, 7, 43320.	1.6	123
13	Divergent evolution of oxidosqualene cyclases in plants. <i>New Phytologist</i> , 2012, 193, 1022-1038.	3.5	122
14	An integrated genetic map and a new set of simple sequence repeat markers for pearl millet, <i>Pennisetum glaucum</i> . <i>Theoretical and Applied Genetics</i> , 2004, 109, 1485-1493.	1.8	121
15	Functional divergence of diterpene syntheses in the medicinal plant <i>Salvia miltiorrhiza</i> Bunge. <i>Plant Physiology</i> , 2015, 169, pp.00695.2015.	2.3	118
16	<i>Sad3</i> and <i>Sad4</i> Are Required for Saponin Biosynthesis and Root Development in Oat. <i>Plant Cell</i> , 2008, 20, 201-212.	3.1	110
17	Development of AFLP markers in barley. <i>Molecular Genetics and Genomics</i> , 1997, 254, 330-336.	2.4	104
18	Construction of a BAC library of pearl millet, <i>Pennisetum glaucum</i> . <i>Theoretical and Applied Genetics</i> , 2001, 102, 1200-1205.	1.8	102

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19	Modularity of Plant Metabolic Gene Clusters: A Trio of Linked Genes That Are Collectively Required for Acylation of Triterpenes in Oat <i>Å</i> . <i>Plant Cell</i> , 2013, 25, 1078-1092.	3.1	100
20	L-RCA (ligation-rolling circle amplification): a general method for genotyping of single nucleotide polymorphisms (SNPs). <i>Nucleic Acids Research</i> , 2001, 29, 116e-116.	6.5	97
21	Use of the Metabolomics Approach to Characterize Chinese Medicinal Material Huangqi. <i>Molecular Plant</i> , 2012, 5, 376-386.	3.9	95
22	Expansion within the CYP71D subfamily drives the heterocyclization of tanshinones synthesis in <i>Salvia miltiorrhiza</i> . <i>Nature Communications</i> , 2021, 12, 685.	5.8	94
23	Isolate-specific QTLs for partial resistance to <i>Puccinia hordei</i> in barley. <i>Theoretical and Applied Genetics</i> , 1999, 99, 877-884.	1.8	92
24	Identification and fine mapping of quantitative trait loci for seed vigor in germination and seedling establishment in rice. <i>Journal of Integrative Plant Biology</i> , 2014, 56, 749-759.	4.1	91
25	Dissecting plant secondary metabolism “constitutive chemical defences in cereals. <i>New Phytologist</i> , 2003, 159, 101-108.	3.5	85
26	Systematic Analysis and Identification of Stress-Responsive Genes of the NAC Gene Family in <i>Brachypodium distachyon</i> . <i>PLoS ONE</i> , 2015, 10, e0122027.	1.1	61
27	The evidence for abundance of QTLs for partial resistance to <i>Puccinia hordei</i> on the barley genome. <i>Molecular Breeding</i> , 2000, 6, 1-9.	1.0	52
28	Deficiency of a triterpene pathway results in humidity-sensitive genic male sterility in rice. <i>Nature Communications</i> , 2018, 9, 604.	5.8	50
29	<i>CsMYB60</i> is a key regulator of flavonols and proanthocyanidans that determine the colour of fruit spines in cucumber. <i>Journal of Experimental Botany</i> , 2019, 70, 69-84.	2.4	40
30	Identification of key amino acid residues determining product specificity of 2,3-oxidosqualene cyclase in <i>Oryza</i> species. <i>New Phytologist</i> , 2018, 218, 1076-1088.	3.5	39
31	Signaling in Plant Disease Resistance and Symbiosis. <i>Journal of Integrative Plant Biology</i> , 2008, 50, 799-807.	4.1	37
32	Orthologous receptor kinases quantitatively affect the host status of barley to leaf rust fungi. <i>Nature Plants</i> , 2019, 5, 1129-1135.	4.7	37
33	Glycosyltransferases from Oat (<i>Avena</i>) Implicated in the Acylation of Avenacins. <i>Journal of Biological Chemistry</i> , 2013, 288, 3696-3704.	1.6	35
34	<i>Brachypodium distachyon</i> T-DNA insertion lines: a model pathosystem to study nonhost resistance to wheat stripe rust. <i>Scientific Reports</i> , 2016, 6, 25510.	1.6	32
35	Diverse triterpene skeletons are derived from the expansion and divergent evolution of 2,3-oxidosqualene cyclases in plants. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2022, 57, 113-132.	2.3	26
36	Cytochrome P450 family member CYP96B5 hydroxylates alkanes to primary alcohols and is involved in rice leaf cuticular wax synthesis. <i>New Phytologist</i> , 2020, 225, 2094-2107.	3.5	25

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37	Jujube metabolome selection determined the edible properties acquired during domestication. <i>Plant Journal</i> , 2022, 109, 1116-1133.	2.8	25
38	Identification and Validation of a Major Quantitative Trait Locus for Slow-Rusting Resistance to Stripe Rust in Wheat. <i>Journal of Integrative Plant Biology</i> , 2012, 54, 330-344.	4.1	23
39	Acclimation-induced metabolic reprogramming contributes to rapid desiccation tolerance acquisition in <i>Boea hygrometrica</i> . <i>Environmental and Experimental Botany</i> , 2018, 148, 70-84.	2.0	23
40	Improving bread wheat yield through modulating an unselected AP2/ERF gene. <i>Nature Plants</i> , 2022, 8, 930-939.	4.7	23
41	Genes encoding hub and bottleneck enzymes of the Arabidopsis metabolic network preferentially retain homeologs through whole genome duplication. <i>BMC Evolutionary Biology</i> , 2010, 10, 145.	3.2	22
42	The phenotypic expression of QTLs for partial resistance to barley leaf rust during plant development. <i>Theoretical and Applied Genetics</i> , 2010, 121, 857-864.	1.8	20
43	Finding and Analyzing Plant Metabolic Gene Clusters. <i>Methods in Enzymology</i> , 2012, 517, 113-138.	0.4	20
44	Arabidopsis Plastidial Polyglutamate Synthetase Is Required for Seed Reserve Accumulation and Seedling Establishment in Darkness. <i>PLoS ONE</i> , 2014, 9, e101905.	1.1	20
45	Comparative physiological and metabolomic responses of four <i>Brachypodium distachyon</i> varieties contrasting in drought stress resistance. <i>Acta Physiologiae Plantarum</i> , 2015, 37, 1.	1.0	19
46	Discrimination and Quantification of True Biological Signals in Metabolomics Analysis Based on Liquid Chromatography-Mass Spectrometry. <i>Molecular Plant</i> , 2016, 9, 1217-1220.	3.9	19
47	Mining plant metabolomes: Methods, applications, and perspectives. <i>Plant Communications</i> , 2021, 2, 100238.	3.6	16
48	Ligation-mediated rolling-circle amplification-based approaches to single nucleotide polymorphism detection. <i>Expert Review of Molecular Diagnostics</i> , 2005, 5, 111-116.	1.5	14
49	Characterization of a 2,3-oxidosqualene cyclase in the toosendanin biosynthetic pathway of <i>Melia toosendan</i> . <i>Physiologia Plantarum</i> , 2020, 170, 528-536.	2.6	14
50	QPMAS: A parallel peak alignment and quantification software for the analysis of large-scale gas chromatography-mass spectrometry (GC-MS)-based metabolomics datasets. <i>Journal of Chromatography A</i> , 2020, 1620, 460999.	1.8	14
51	Discovery of rare mutations in extensively pooled DNA samples using multiple target enrichment. <i>Plant Biotechnology Journal</i> , 2014, 12, 709-717.	4.1	13
52	Transcriptomic and metabolic flux analyses reveal shift of metabolic patterns during rice grain development. <i>BMC Systems Biology</i> , 2018, 12, 47.	3.0	10
53	Functional Analysis of a Rice Oxidosqualene Cyclase through Total Gene Synthesis. <i>Molecular Plant</i> , 2013, 6, 1726-1729.	3.9	9
54	Plant metabolomics and metabolic biology. <i>Journal of Integrative Plant Biology</i> , 2014, 56, 814-815.	4.1	7

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55	Mapping causal genes and genetic interactions for agronomic traits using a large F2 population in rice. <i>G3: Genes, Genomes, Genetics</i> , 2021, 11, .	0.8	5
56	AtPQT11, a P450 enzyme, detoxifies paraquat via N-demethylation. <i>Journal of Genetics and Genomics</i> , 2022, 49, 1169-1173.	1.7	5
57	Metal matters. <i>Nature Chemical Biology</i> , 2013, 9, 295-296.	3.9	4
58	Highly efficient generation of T-DNA insertion lines and isolation of flanking sequence tags (FSTs) of <i>Brachypodium distachyon</i> . <i>Plant Biotechnology Reports</i> , 2018, 12, 237-248.	0.9	3
59	An Efficient System for <i>Ds</i> Transposon Tagging in <i>Brachypodium distachyon</i> . <i>Plant Physiology</i> , 2019, 180, 56-65.	2.3	3
60	Genome-wide investigation and transcriptional profiling of the oxidosqualene cyclase (<i>OSC</i>) genes in wheat (<i>Triticum aestivum</i>). <i>Journal of Systematics and Evolution</i> , 2022, 60, 1378-1392.	1.6	2
61	A brief view of international conference on plant cell wall biology 2017. <i>Science Bulletin</i> , 2017, 62, 1357-1358.	4.3	1
62	Improvement of multiplex semi-nested PCR system for screening of rare mutations by high-throughput sequencing. <i>BioTechniques</i> , 2019, 67, 294-298.	0.8	1
63	Multiple samples alignment for GC-MS data in parallel on Sector/Sphere. <i>Journal of Computer Applications</i> , 2013, 33, 215-218.	0.1	1
64	Glycosyltransferases from oat (<i>Avena</i>) implicated in the acylation of avenacins.. <i>Journal of Biological Chemistry</i> , 2013, 288, 19644.	1.6	0