

Aichun Zhao

List of Publications by Year in descending order

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71
papers

2,553
citations

304368

22
h-index

197535

49
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76
docs citations

76
times ranked

2976
citing authors

#	ARTICLE	IF	CITATIONS
1	Ionomics, transcriptomics and untargeted metabolomics analyses provide new insights into the Cd response and accumulation mechanisms of mulberry. <i>Environmental and Experimental Botany</i> , 2022, 196, 104821.	2.0	8
2	Genome Sequencing of <i>Ciboria shiraiana</i> Provides Insights into the Pathogenic Mechanisms of Hypertrophy Sorosis Scleroteniosis. <i>Molecular Plant-Microbe Interactions</i> , 2021, 34, 62-74.	1.4	10
3	The C-terminal tail of the plant endosomal-type NHXs plays a key role in its function and stability. <i>Plant Science</i> , 2021, 303, 110791.	1.7	3
4	A meta-analysis of transcriptomic profiles reveals molecular pathways response to cadmium stress of Gramineae. <i>Ecotoxicology and Environmental Safety</i> , 2021, 209, 111816.	2.9	15
5	New insight into the mechanism of in vivo fibroin self-assembly and secretion in the silkworm, <i>Bombyx mori</i> . <i>International Journal of Biological Macromolecules</i> , 2021, 169, 473-479.	3.6	16
6	Heterotrimeric G-protein β subunits regulate ABA signaling in response to drought through interacting with PP2Cs and SnRK2s in mulberry (<i>Morus alba</i> L.). <i>Plant Physiology and Biochemistry</i> , 2021, 161, 210-221.	2.8	8
7	Genetic hybridization of highly active exogenous functional proteins into silk-based materials using α -light-clothing strategy. <i>Matter</i> , 2021, 4, 2039-2058.	5.0	6
8	An APSES Transcription Factor Xbp1 Is Required for Sclerotial Development, Appressoria Formation, and Pathogenicity in <i>Ciboria shiraiana</i> . <i>Frontiers in Microbiology</i> , 2021, 12, 739686.	1.5	4
9	Genome-wide identification and characterization of genes involved in melatonin biosynthesis in <i>Morus notabilis</i> (wild mulberry). <i>Phytochemistry</i> , 2021, 189, 112819.	1.4	8
10	Molecular Mechanisms Underlying the Biosynthesis of Melatonin and Its Isomer in Mulberry. <i>Frontiers in Plant Science</i> , 2021, 12, 708752.	1.7	5
11	Host-Induced Gene Silencing of a G Protein β Subunit Gene <i>CsGpa1</i> Involved in Pathogen Appressoria Formation and Virulence Improves Tobacco Resistance to <i>Ciboria shiraiana</i> . <i>Journal of Fungi (Basel)</i> , 2021, 7, 314.	0.78	3
12	Transcriptome and metabolome profiling unveiled mechanisms of tea (<i>Camellia sinensis</i>) quality improvement by moderate drought on pre-harvest shoots. <i>Phytochemistry</i> , 2020, 180, 112515.	1.4	24
13	Chromosome-Level Reference Genome and Population Genomic Analysis Provide Insights into the Evolution and Improvement of Domesticated Mulberry (<i>Morus alba</i>). <i>Molecular Plant</i> , 2020, 13, 1001-1012.	3.9	59
14	Strategies for Tuning the Biodegradation of Silk Fibroin-Based Materials for Tissue Engineering Applications. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 1290-1310.	2.6	50
15	New Insights into the Structure-Function Relationship of the Endosomal-Type Na ⁺ , K ⁺ /H ⁺ Antiporter NHX6 from Mulberry (<i>Morus notabilis</i>). <i>International Journal of Molecular Sciences</i> , 2020, 21, 428.	1.8	16
16	Functional analysis of drought and salt tolerance mechanisms of mulberry RACK1 gene. <i>Tree Physiology</i> , 2019, 39, 2055-2069.	1.4	12
17	Mulberry RGS negatively regulates salt stress response and tolerance. <i>Plant Signaling and Behavior</i> , 2019, 14, 1672512.	1.2	7
18	Ectopic Expression of Mulberry G-Proteins Alters Drought and Salt Stress Tolerance in Tobacco. <i>International Journal of Molecular Sciences</i> , 2019, 20, 89.	1.8	20

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19	Mulberry EIL3 confers salt and drought tolerances and modulates ethylene biosynthetic gene expression. <i>PeerJ</i> , 2019, 7, e6391.	0.9	24
20	A MITE Insertion in the Promoter Region of Anthocyanidin Synthase from <i>Morus alba</i> L.. <i>Plant Molecular Biology Reporter</i> , 2018, 36, 188-194.	1.0	3
21	Identification of the genes involved in heterotrimeric G-protein signaling in mulberry and their regulation by abiotic stresses and signal molecules. <i>Biologia Plantarum</i> , 2018, 62, 277-286.	1.9	9
22	Two mulberry phytochelatin synthase genes confer zinc/cadmium tolerance and accumulation in transgenic <i>Arabidopsis</i> and tobacco. <i>Gene</i> , 2018, 645, 95-104.	1.0	70
23	Transgenic characterization of two silkworm tissue-specific promoters in the haemocyte plasmatocyte cells. <i>Insect Molecular Biology</i> , 2018, 27, 133-142.	1.0	11
24	Function analysis of anthocyanidin synthase from <i>Morus alba</i> L. by expression in bacteria and tobacco. <i>Electronic Journal of Biotechnology</i> , 2018, 36, 9-14.	1.2	8
25	Genome-Wide Identification and Characterization of Four Gene Families Putatively Involved in Cadmium Uptake, Translocation and Sequestration in Mulberry. <i>Frontiers in Plant Science</i> , 2018, 9, 879.	1.7	45
26	Characterization of Stilbene Synthase Genes in Mulberry (<i>Morus atropurpurea</i>) and Metabolic Engineering for the Production of Resveratrol in <i>Escherichia coli</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 1659-1668.	2.4	28
27	Characterization and expression of abscisic acid signal transduction genes during mulberry fruit ripening. <i>Acta Physiologiae Plantarum</i> , 2017, 39, 1.	1.0	19
28	Isolation and characterization of a novel chalcone synthase gene family from mulberry. <i>Plant Physiology and Biochemistry</i> , 2017, 115, 107-118.	2.8	36
29	Mulberry MnMAPK1, a group C mitogen-activated protein kinase gene, endowed transgenic <i>Arabidopsis</i> with novel responses to various abiotic stresses. <i>Plant Cell, Tissue and Organ Culture</i> , 2017, 131, 151-162.	1.2	12
30	Plant G-protein β^2 subunits positively regulate drought tolerance by elevating detoxification of ROS. <i>Biochemical and Biophysical Research Communications</i> , 2017, 491, 897-902.	1.0	15
31	De novo assembly of mulberry (<i>Morus alba</i> L.) transcriptome and identification of candidate unigenes related to salt stress responses. <i>Russian Journal of Plant Physiology</i> , 2017, 64, 738-748.	0.5	11
32	Functional Analysis of 1-Aminocyclopropane-1-carboxylate Oxidase Gene's Promoter in Mulberry. <i>Acta Agronomica Sinica(China)</i> , 2017, 43, 839.	0.1	2
33	Characterization and expression analysis of cDNAs encoding abscisic acid 8-hydroxylase during mulberry fruit maturation and under stress conditions. <i>Plant Cell, Tissue and Organ Culture</i> , 2016, 127, 237-249.	1.2	13
34	Highly efficient and inducible DNA excision in transgenic silkworms using the FLP/FRT site-specific recombination system. <i>Transgenic Research</i> , 2016, 25, 795-811.	1.3	5
35	Molecular characterization and expression analysis of the mulberry Na ⁺ /H ⁺ exchanger gene family. <i>Plant Physiology and Biochemistry</i> , 2016, 99, 49-58.	2.8	23
36	Characterization and Functional Analysis of 4-Coumarate:CoA Ligase Genes in Mulberry. <i>PLoS ONE</i> , 2016, 11, e0155814.	1.1	42

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37	Cloning and Functional Analysis of Polygalacturo-nase Genes from <i>Ciboria shiraiana</i> . <i>Acta Agronomica Sinica</i> (China), 2016, 42, 190.	0.1	2
38	Mulberry Transcription Factor MnDREB4A Confers Tolerance to Multiple Abiotic Stresses in Transgenic Tobacco. <i>PLoS ONE</i> , 2015, 10, e0145619.	1.1	34
39	New insight into the mechanism underlying fibroin secretion in silkworm, <i>Bombyx mori</i> . <i>FEBS Journal</i> , 2015, 282, 89-101.	2.2	19
40	Genome-wide identification and characterization of the DREB transcription factor gene family in mulberry. <i>Biologia Plantarum</i> , 2015, 59, 253-265.	1.9	42
41	An efficient strategy for producing a stable, replaceable, highly efficient transgene expression system in silkworm, <i>Bombyx mori</i> . <i>Scientific Reports</i> , 2015, 5, 8802.	1.6	12
42	Characterization and Expression of Genes Involved in the Ethylene Biosynthesis and Signal Transduction during Ripening of Mulberry Fruit. <i>PLoS ONE</i> , 2015, 10, e0122081.	1.1	20
43	Screening, cloning and expression analysis of a cellulase derived from the causative agent of hypertrophy sorosis scleroteniosis, <i>Ciboria shiraiana</i> . <i>Gene</i> , 2015, 565, 221-227.	1.0	13
44	Cross Infection, Biological Characteristics and Genetic Relationship between Pathogens of Hypertrophy Sorosis Scleroteniosis from Mulberry and Sclerotinia Stem Rot from Oilseed Rape. <i>Acta Agronomica Sinica</i> (China), 2015, 41, 42.	0.1	6
45	Molecular Cloning and Functional Analysis of Polygalacturonase-Inhibiting Protein Gene <i>MaPGIP1</i> from Mulberry(<i>Morus atropurpurea</i> Roxb.). <i>Acta Agronomica Sinica</i> (China), 2015, 41, 1361.	0.1	1
46	Isolation and expression analysis of anthocyanin biosynthetic genes in <i>Morus alba</i> L.. <i>Biologia Plantarum</i> , 2014, 58, 618-626.	1.9	17
47	Molecular cloning and expression analysis of mulberry MAPK gene family. <i>Plant Physiology and Biochemistry</i> , 2014, 77, 108-116.	2.8	53
48	Characterization and expression profiles of MaACS and MaACO genes from mulberry (<i>Morus alba</i> L.). <i>Journal of Zhejiang University: Science B</i> , 2014, 15, 611-623.	1.3	6
49	Isolation and Expression of Mulberry (<i>Morus alba</i> L.) <i>EIN2</i> Gene. <i>Acta Agronomica Sinica</i> (China), 2014, 40, 1205.	0.1	2
50	The molecular structures of major ampullate silk proteins of the wasp spider, <i>Argiope bruennichi</i> : A second blueprint for synthesizing de novo silk. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2013, 164, 151-158.	0.7	30
51	In vivo site-specific integration of transgene in silkworm via PhiC31 integrase-mediated cassette exchange. <i>Insect Biochemistry and Molecular Biology</i> , 2013, 43, 997-1008.	1.2	19
52	Cloning, Overexpression, and Functional Characterization of a Phytase from the Genus <i>Bacillus</i> . <i>Journal of Molecular Microbiology and Biotechnology</i> , 2013, 23, 193-202.	1.0	6
53	Draft genome sequence of the mulberry tree <i>Morus notabilis</i> . <i>Nature Communications</i> , 2013, 4, 2445.	5.8	277
54	Biological study of hypertrophy sorosis scleroteniosis and its molecular characterization based on LSU rRNA. <i>African Journal of Microbiology Research</i> , 2013, 7, 3405-3411.	0.4	8

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55	Molecular Cloning and Information Analysis of <i>ANS</i> Genes Encoding Anthocyanin Synthases from Mulberry (<i>Morus alba</i>). <i>Acta Agronomica Sinica</i> (China), 2013, 38, 1253-1263.	0.1	0
56	Efficient strategies for changing the diapause character of silkworm eggs and for the germline transformation of diapause silkworm strains. <i>Insect Science</i> , 2012, 19, 172-182.	1.5	18
57	FLP Recombinase-Mediated Site-Specific Recombination in Silkworm, <i>Bombyx mori</i> . <i>PLoS ONE</i> , 2012, 7, e40150.	1.1	28
58	Molecular Cloning and Tissues Expression Analysis of Three <i>Actin</i> Genes from Mulberry (<i>Morus alba</i>). <i>Acta Agronomica Sinica</i> (China), 2011, 37, 641-649.	0.1	3
59	New and highly efficient expression systems for expressing selectively foreign protein in the silk glands of transgenic silkworm. <i>Transgenic Research</i> , 2010, 19, 29-44.	1.3	55
60	Complete Resequencing of 40 Genomes Reveals Domestication Events and Genes in Silkworm (<i>Bombyx mori</i>). <i>PLoS ONE</i> , 2011, 6, e20828.	6.0	342
61	Expression of EGFP-spider dragline silk fusion protein in BmN cells and larvae of silkworm showed the solubility is primary limit for dragline proteins yield. <i>Molecular Biology Reports</i> , 2008, 35, 329-335.	1.0	63
62	The genome of a lepidopteran model insect, the silkworm <i>Bombyx mori</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2008, 38, 1036-1045.	1.2	592
63	Multiple Interval Mapping for Whole Cocoon Weight and Related Economically Important Traits QTL in Silkworm (<i>Bombyx mori</i>). <i>Agricultural Sciences in China</i> , 2006, 5, 798-804.	0.6	3
64	Novel Molecular and Mechanical Properties of Egg Case Silk from Wasp Spider, <i>Argiope bruennichi</i> . <i>Biochemistry</i> , 2006, 45, 3348-3356.	1.2	59
65	Silkworm, <i>Bombyx mori</i> larvae expressed the spider silk protein through a novel Bac-to-Bac/BmNPV baculovirus. <i>Journal of Applied Entomology</i> , 2006, 130, 297-301.	0.8	8
66	Expression of spider flagelliform silk protein in <i>Bombyx mori</i> cell line by a novel Bac-to-Bac/BmNPV baculovirus expression system. <i>Applied Microbiology and Biotechnology</i> , 2006, 71, 192-199.	1.7	74
67	Cloning and expression of manganese superoxide dismutase of the silkworm, <i>Bombyx mori</i> by Bac-to-Bac/BmNPV Baculovirus expression system. <i>Applied Microbiology and Biotechnology</i> , 2006, 73, 181-186.	1.7	28
68	Unique Molecular Architecture of Egg Case Silk Protein in a Spider, <i>Nephila clavata</i> . <i>Journal of Biochemistry</i> , 2005, 138, 593-604.	0.9	26
69	QTL mapping of economically important traits in Silkworm (<i>Bombyx mori</i>). <i>Science in China Series C: Life Sciences</i> , 2004, 47, 477.	1.3	17
70	Stably Express Spider Flagelliform Silk Protein in <i>Bombyx Mori</i> Cell Line by PiggyBac Transposon-Derived Vector. <i>Advanced Materials Research</i> , 0, 332-334, 779-782.	0.3	1
71	Potential for genetic improvement of silkworm through molecular and transgenic approaches.. <i>CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources</i> , 0, , 1-9.	0.6	1