

Liang Guo

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

3,510
citations

156536

32
h-index

182931

54
g-index

80
all docs

80
docs citations

80
times ranked

3774
citing authors

#	ARTICLE	IF	CITATIONS
1	Genome- and transcriptome-wide association studies reveal the genetic basis and the breeding history of seed glucosinolate content in <i>Brassica napus</i> . <i>Plant Biotechnology Journal</i> , 2022, 20, 211-225.	4.1	43
2	Oil plant genomes: current state of the science. <i>Journal of Experimental Botany</i> , 2022, 73, 2859-2874.	2.4	16
3	Salt-responsive transcriptome analysis of canola roots reveals candidate genes involved in the key metabolic pathway in response to salt stress. <i>Scientific Reports</i> , 2022, 12, 1666.	1.6	10
4	CRISPR/Cas9-Targeted Mutagenesis of <i>BnaFAE1</i> Genes Confers Low-Erucic Acid in <i>Brassica napus</i> . <i>Frontiers in Plant Science</i> , 2022, 13, 848723.	1.7	18
5	BnVIR: bridging the genotype-phenotype gap to accelerate mining of candidate variations underlying agronomic traits in <i>Brassica napus</i> . <i>Molecular Plant</i> , 2022, 15, 779-782.	3.9	13
6	The functions of phospholipases and their hydrolysis products in plant growth, development and stress responses. <i>Progress in Lipid Research</i> , 2022, 86, 101158.	5.3	52
7	Sunflower <i>WRINKLED1</i> Plays a Key Role in Transcriptional Regulation of Oil Biosynthesis. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3054.	1.8	10
8	Multi-omics analysis dissects the genetic architecture of seed coat content in <i>Brassica napus</i> . <i>Genome Biology</i> , 2022, 23, 86.	3.8	23
9	A reactive oxygen species burst causes haploid induction in maize. <i>Molecular Plant</i> , 2022, 15, 943-955.	3.9	39
10	Transcriptional regulation of oil biosynthesis in seed plants: Current understanding, applications, and perspectives. <i>Plant Communications</i> , 2022, 3, 100328.	3.6	39
11	Genome-Wide Association Studies of Salt-Alkali Tolerance at Seedling and Mature Stages in <i>Brassica napus</i> . <i>Frontiers in Plant Science</i> , 2022, 13, 857149.	1.7	5
12	High-throughput unmanned aerial vehicle-based phenotyping provides insights into the dynamic process and genetic basis of rapeseed waterlogging response in the field. <i>Journal of Experimental Botany</i> , 2022, 73, 5264-5278.	2.4	7
13	<i>Brassica napus</i> <i>BnaNTT1</i> modulates ATP homeostasis in plastids to sustain metabolism and growth. <i>Cell Reports</i> , 2022, 40, 111060.	2.9	7
14	Long-read sequencing reveals widespread intragenic structural variants in a recent allopolyploid crop plant. <i>Plant Biotechnology Journal</i> , 2021, 19, 240-250.	4.1	45
15	BnPIR: <i>Brassica napus</i> pan-genome information resource for 1689 accessions. <i>Plant Biotechnology Journal</i> , 2021, 19, 412-414.	4.1	51
16	Combining quantitative trait locus and co-expression analysis allowed identification of new candidates for oil accumulation in rapeseed. <i>Journal of Experimental Botany</i> , 2021, 72, 1649-1660.	2.4	12
17	Genome- and transcriptome-wide association studies provide insights into the genetic basis of natural variation of seed oil content in <i>Brassica napus</i> . <i>Molecular Plant</i> , 2021, 14, 470-487.	3.9	107
18	Nonspecific phospholipase C4 hydrolyzes phosphosphingolipids and sustains plant root growth during phosphate deficiency. <i>Plant Cell</i> , 2021, 33, 766-780.	3.1	31

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19	Genome-Wide Association Mapping Unravels the Genetic Control of Seed Vigor under Low-Temperature Conditions in Rapeseed (<i>Brassica napus</i> L.). <i>Plants</i> , 2021, 10, 426.	1.6	15
20	Transcriptome Analysis Reveals Genes of Flooding-Tolerant and Flooding-Sensitive Rapeseeds Differentially Respond to Flooding at the Germination Stage. <i>Plants</i> , 2021, 10, 693.	1.6	4
21	Acylation of non-specific phospholipase C4 determines its function in plant response to phosphate deficiency. <i>Plant Journal</i> , 2021, 106, 1647-1659.	2.8	13
22	Crop height estimation based on UAV images: Methods, errors, and strategies. <i>Computers and Electronics in Agriculture</i> , 2021, 185, 106155.	3.7	40
23	DELLA proteins BnaA6.RGA and BnaC7.RGA negatively regulate fatty acid biosynthesis by interacting with BnaLEC1s in <i>Brassica napus</i> . <i>Plant Biotechnology Journal</i> , 2021, 19, 2011-2026.	4.1	15
24	BnTIR: an online transcriptome platform for exploring RNA-seq libraries for oil crop <i>Brassica napus</i> . <i>Plant Biotechnology Journal</i> , 2021, 19, 1895-1897.	4.1	68
25	Proteome-wide identification of S-sulphenylated cysteines in <i>Brassica napus</i> . <i>Plant, Cell and Environment</i> , 2021, 44, 3571-3582.	2.8	9
26	The <i>Brassica napus</i> fatty acid exporter FAX1-1 contributes to biological yield, seed oil content, and oil quality. <i>Biotechnology for Biofuels</i> , 2021, 14, 190.	6.2	15
27	Genome-Wide Association Studies of Salt Tolerance at Seed Germination and Seedling Stages in <i>Brassica napus</i> . <i>Frontiers in Plant Science</i> , 2021, 12, 772708.	1.7	20
28	Multiple GmWRI1s are redundantly involved in seed filling and nodulation by regulating plastidic glycolysis, lipid biosynthesis and hormone signalling in soybean (<i>Glycine max</i>). <i>Plant Biotechnology Journal</i> , 2020, 18, 155-171.	4.1	52
29	<i>Arabidopsis</i> GDSL1 overexpression enhances rapeseed <i>Sclerotinia sclerotiorum</i> resistance and the functional identification of its homolog in <i>Brassica napus</i> . <i>Plant Biotechnology Journal</i> , 2020, 18, 1255-1270.	4.1	48
30	Eight high-quality genomes reveal pan-genome architecture and ecotype differentiation of <i>Brassica napus</i> . <i>Nature Plants</i> , 2020, 6, 34-45.	4.7	449
31	Genome wide characterization of phospholipase A & C families and pattern of lysolipids and diacylglycerol changes under abiotic stresses in <i>Brassica napus</i> L. <i>Plant Physiology and Biochemistry</i> , 2020, 147, 101-112.	2.8	17
32	Development and screening of EMS mutants with altered seed oil content or fatty acid composition in <i>Brassica napus</i> . <i>Plant Journal</i> , 2020, 104, 1410-1422.	2.8	21
33	An efficient <i>Agrobacterium</i> -mediated transformation method using hypocotyl as explants for <i>Brassica napus</i> . <i>Molecular Breeding</i> , 2020, 40, 1.	1.0	43
34	TEOSINTE BRANCHED1/CYCLOIDEA/PROLIFERATING CELL FACTOR4 Interacts with WRINKLED1 to Mediate Seed Oil Biosynthesis. <i>Plant Physiology</i> , 2020, 184, 658-665.	2.3	29
35	Nuclear moonlighting of cytosolic glyceraldehyde-3-phosphate dehydrogenase regulates <i>Arabidopsis</i> response to heat stress. <i>Nature Communications</i> , 2020, 11, 3439.	5.8	48
36	The function of the WRI1-TCP4 regulatory module in lipid biosynthesis. <i>Plant Signaling and Behavior</i> , 2020, 15, 1812878.	1.2	6

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37	Roles of the Brassica napus DELLA Protein BnaA6.RGA, in Modulating Drought Tolerance by Interacting With the ABA Signaling Component BnaA10.ABF2. <i>Frontiers in Plant Science</i> , 2020, 11, 577.	1.7	66
38	Nonspecific phospholipase C6 increases seed oil production in oilseed Brassicaceae plants. <i>New Phytologist</i> , 2020, 226, 1055-1073.	3.5	22
39	Involvement of abscisic acid, ABI5, and PPC2 in plant acclimation to low CO ₂ . <i>Journal of Experimental Botany</i> , 2020, 71, 4093-4108.	2.4	13
40	The genome of jojoba (<i>Simmondsia chinensis</i>): A taxonomically isolated species that directs wax ester accumulation in its seeds. <i>Science Advances</i> , 2020, 6, eaay3240.	4.7	53
41	Molecular Basis of Plant Oil Biosynthesis: Insights Gained From Studying the WRINKLED1 Transcription Factor. <i>Frontiers in Plant Science</i> , 2020, 11, 24.	1.7	47
42	Heterogeneous Distribution of Erucic Acid in Brassica napus Seeds. <i>Frontiers in Plant Science</i> , 2020, 10, 1744.	1.7	12
43	Two Plastid Fatty Acid Exporters Contribute to Seed Oil Accumulation in Arabidopsis. <i>Plant Physiology</i> , 2020, 182, 1910-1919.	2.3	19
44	Genome-Wide Analysis of Phospholipase D Gene Family and Profiling of Phospholipids under Abiotic Stresses in Brassica napus. <i>Plant and Cell Physiology</i> , 2019, 60, 1556-1566.	1.5	39
45	Transcriptome analysis reveals genes commonly responding to multiple abiotic stresses in rapeseed. <i>Molecular Breeding</i> , 2019, 39, 1.	1.0	28
46	An efficient and comprehensive plant glycerolipids analysis approach based on high-performance liquid chromatography-quadrupole time-of-flight mass spectrometer. <i>Plant Direct</i> , 2019, 3, e00183.	0.8	26
47	Characterization of Fatty Acid EXporters involved in fatty acid transport for oil accumulation in the green alga Chlamydomonas reinhardtii. <i>Biotechnology for Biofuels</i> , 2019, 12, 14.	6.2	40
48	Transcriptional regulation of oil biosynthesis in different parts of Wanyou 20 (Brassica napus) seeds. <i>Acta Agronomica Sinica</i> (China), 2019, 45, 381.	0.1	0
49	Arabidopsis phospholipase D1 and D2 oppositely modulate EDS1- and SA-independent basal resistance against adapted powdery mildew. <i>Journal of Experimental Botany</i> , 2018, 69, 3675-3688.	2.4	23
50	Different effects of phospholipase D2 and non-specific phospholipase C4 on lipid remodeling and root hair growth in Arabidopsis response to phosphate deficiency. <i>Plant Journal</i> , 2018, 94, 315-326.	2.8	52
51	Strigolactones promote rhizobia interaction and increase nodulation in soybean (Glycine max). <i>Microbial Pathogenesis</i> , 2018, 114, 420-430.	1.3	41
52	Emerging Roles of Sphingolipid Signaling in Plant Response to Biotic and Abiotic Stresses. <i>Molecular Plant</i> , 2018, 11, 1328-1343.	3.9	87
53	De novo transcriptome sequencing and metabolite profiling analyses reveal the complex metabolic genes involved in the terpenoid biosynthesis in Blue Anise Sage (<i>Salvia guaranitica</i> L.). <i>DNA Research</i> , 2018, 25, 597-617.	1.5	41
54	Spatial analysis of lipid metabolites and expressed genes reveals tissue-specific heterogeneity of lipid metabolism in high- and low-oil Brassica napus L. seeds. <i>Plant Journal</i> , 2018, 94, 915-932.	2.8	66

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55	Phospholipase D γ negatively regulates plant thermotolerance by destabilizing cortical microtubules in <i>Arabidopsis</i> . <i>Plant, Cell and Environment</i> , 2017, 40, 2220-2235.	2.8	45
56	Phospholipase D μ enhances <i>Braasica napus</i> growth and seed production in response to nitrogen availability. <i>Plant Biotechnology Journal</i> , 2016, 14, 926-937.	4.1	35
57	Membrane glycerolipidome of soybean root hairs and its response to nitrogen and phosphate availability. <i>Scientific Reports</i> , 2016, 6, 36172.	1.6	16
58	Comparative transcriptomic analysis uncovers the complex genetic network for resistance to <i>Sclerotinia sclerotiorum</i> in <i>Brassica napus</i> . <i>Scientific Reports</i> , 2016, 6, 19007.	1.6	126
59	Plant phospholipases D and C and their diverse functions in stress responses. <i>Progress in Lipid Research</i> , 2016, 62, 55-74.	5.3	288
60	Phosphatidic Acid Interacts with a MYB Transcription Factor and Regulates Its Nuclear Localization and Function in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2014, 25, 5030-5042.	3.1	80
61	Cytosolic Phosphorylating Glycereraldehyde-3-Phosphate Dehydrogenases Affect <i>Arabidopsis</i> Cellular Metabolism and Promote Seed Oil Accumulation. <i>Plant Cell</i> , 2014, 26, 3023-3035.	3.1	80
62	PLD: Phospholipase Ds in Plant Signaling. <i>Signaling and Communication in Plants</i> , 2014, , 3-26.	0.5	22
63	Phosphatidic Acid Binds to Cytosolic Glycereraldehyde-3-phosphate Dehydrogenase and Promotes Its Cleavage in <i>Arabidopsis</i> . <i>Journal of Biological Chemistry</i> , 2013, 288, 11834-11844.	1.6	65
64	Cytosolic Glycereraldehyde-3-Phosphate Dehydrogenases Interact with Phospholipase D γ to Transduce Hydrogen Peroxide Signals in the <i>Arabidopsis</i> Response to Stress. <i>Plant Cell</i> , 2012, 24, 2200-2212.	3.1	202
65	Crosstalk between Phospholipase D and Sphingosine Kinase in Plant Stress Signaling. <i>Frontiers in Plant Science</i> , 2012, 3, 51.	1.7	55
66	Connections between Sphingosine Kinase and Phospholipase D in the Abscisic Acid Signaling Pathway in <i>Arabidopsis</i> . <i>Journal of Biological Chemistry</i> , 2012, 287, 8286-8296.	1.6	99
67	Patatin-Related Phospholipase pPLAII ² -Induced Changes in Lipid Metabolism Alter Cellulose Content and Cell Elongation in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2011, 23, 1107-1123.	3.1	94
68	Phosphatidic Acid Binds and Stimulates <i>Arabidopsis</i> Sphingosine Kinases. <i>Journal of Biological Chemistry</i> , 2011, 286, 13336-13345.	1.6	109
69	Molecular Cloning, Characterization, and Expression of an ω -3 Fatty Acid Desaturase Gene from <i>Sapium sebiferum</i> . <i>Journal of Bioscience and Bioengineering</i> , 2008, 106, 375-380.	1.1	11
70	ISSR Analysis of the Genetic Diversity of the Endangered Species <i>Sinopodophyllum hexandrum</i> (Royle) Ying from Western Sichuan Province, China. <i>Journal of Integrative Plant Biology</i> , 2006, 48, 1140-1146.	4.1	28
71	AFLP Analysis of Genetic Diversity of the Endangered Species <i>Sinopodophyllum hexandrum</i> in the Tibetan Region of Sichuan Province, China. <i>Biochemical Genetics</i> , 2006, 44, 44-57.	0.8	19
72	Critical Roles of Mitochondrial Fatty Acid Synthesis in Tomato Development and Environmental Response. <i>Plant Physiology</i> , 0, , .	2.3	1

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73	Genetic and Biochemical Investigation of Seed Fatty Acid Accumulation in Arabidopsis. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	4