Liang Guo

List of Publications by Year
in descending order

73 papers	3,510 citations	136950 32 h-index	161849 54 g-index
80 all docs	80 docs citations	80 times ranked	3422 citing authors

#	Article	IF	Citations
1	Eight high-quality genomes reveal pan-genome architecture and ecotype differentiation of Brassica napus. Nature Plants, 2020, 6, 34-45.	9.3	449
2	Plant phospholipases D and C and their diverse functions in stress responses. Progress in Lipid Research, 2016, 62, 55-74.	11.6	288
3	Cytosolic Glyceraldehyde-3-Phosphate Dehydrogenases Interact with Phospholipase DÎ´ to Transduce Hydrogen Peroxide Signals in the <i>Arabidopsis</i> Response to Stress. Plant Cell, 2012, 24, 2200-2212.	6.6	202
4	Comparative transcriptomic analysis uncovers the complex genetic network for resistance to Sclerotinia sclerotiorum in Brassica napus. Scientific Reports, 2016, 6, 19007.	3.3	126
5	Phosphatidic Acid Binds and Stimulates Arabidopsis Sphingosine Kinases. Journal of Biological Chemistry, 2011, 286, 13336-13345.	3.4	109
6	Genome- and transcriptome-wide association studies provide insights into the genetic basis of natural variation of seed oil content in Brassica napus. Molecular Plant, 2021, 14, 470-487.	8.3	107
7	Connections between Sphingosine Kinase and Phospholipase D in the Abscisic Acid Signaling Pathway in Arabidopsis. Journal of Biological Chemistry, 2012, 287, 8286-8296.	3.4	99
8	Patatin-Related Phospholipase pPLAIIIÎ²-Induced Changes in Lipid Metabolism Alter Cellulose Content and Cell Elongation in <i>Arabidopsis</i> Â Â. Plant Cell, 2011, 23, 1107-1123.	6.6	94
9	Emerging Roles of Sphingolipid Signaling in Plant Response to Biotic and Abiotic Stresses. Molecular Plant, 2018, 11, 1328-1343.	8.3	87
10	Phosphatidic Acid Interacts with a MYB Transcription Factor and Regulates Its Nuclear Localization and Function in<i>Arabidopsis</i>Â Â. Plant Cell, 2014, 25, 5030-5042.	6.6	80
11	Cytosolic Phosphorylating Glyceraldehyde-3-Phosphate Dehydrogenases Affect <i>Arabidopsis</i> Cellular Metabolism and Promote Seed Oil Accumulation. Plant Cell, 2014, 26, 3023-3035.	6.6	80
12	BnTIR: an online transcriptome platform for exploring RNAâ€seq libraries for oil crop <i>Brassica napus</i>. Plant Biotechnology Journal, 2021, 19, 1895-1897.	8.3	68
13	Spatial analysis of lipid metabolites and expressed genes reveals tissueâ€specific heterogeneity of lipid metabolism in highâ€• and lowâ€oil <i>Brassica napus</i> L. seeds. Plant Journal, 2018, 94, 915-932.	5.7	66
14	Roles of the Brassica napus DELLA Protein BnaA6.RGA, in Modulating Drought Tolerance by Interacting With the ABA Signaling Component BnaA10.ABF2. Frontiers in Plant Science, 2020, 11, 577.	3.6	66
15	Phosphatidic Acid Binds to Cytosolic Glyceraldehyde-3-phosphate Dehydrogenase and Promotes Its Cleavage in Arabidopsis. Journal of Biological Chemistry, 2013, 288, 11834-11844.	3.4	65
16	Crosstalk between Phospholipase D and Sphingosine Kinase in Plant Stress Signaling. Frontiers in Plant Science, 2012, 3, 51.	3.6	55
17	The genome of jojoba (<i>Simmondsia chinensis</i>): A taxonomically isolated species that directs wax ester accumulation in its seeds. Science Advances, 2020, 6, eaay3240.	10.3	53
18	Different effects of phospholipase DÎ¶2 and nonâ€specific phospholipase C4 on lipid remodeling and root hair growth in Arabidopsis response to phosphate deficiency. Plant Journal, 2018, 94, 315-326.	5.7	52

#	Article	IF	Citations
19	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>). Plant Biotechnology Journal, 2020, 18, 155-171.	8.3	52
20	The functions of phospholipases and their hydrolysis products in plant growth, development and stress responses. Progress in Lipid Research, 2022, 86, 101158.	11.6	52
21	BnPIR: <i>Brassica napus</i> panâ€genome information resource for 1689 accessions. Plant Biotechnology Journal, 2021, 19, 412-414.	8.3	51
22	<i>Arabidopsis GDSL1</i> overexpression enhances rapeseed <i>Sclerotinia sclerotiorum</i> resistance and the functional identification of its homolog in <i>Brassica napus</i>. Plant Biotechnology Journal, 2020, 18, 1255-1270.	8.3	48
23	Nuclear moonlighting of cytosolic glyceraldehyde-3-phosphate dehydrogenase regulates Arabidopsis response to heat stress. Nature Communications, 2020, 11, 3439.	12.8	48
24	Molecular Basis of Plant Oil Biosynthesis: Insights Gained From Studying the WRINKLED1 Transcription Factor. Frontiers in Plant Science, 2020, 11, 24.	3.6	47
25	Phospholipase DÎ´ negatively regulates plant thermotolerance by destabilizing cortical microtubules in <i>Arabidopsis</i>. Plant, Cell and Environment, 2017, 40, 2220-2235.	5.7	45
26	Longâ€read sequencing reveals widespread intragenic structural variants in a recent allopolyploid crop plant. Plant Biotechnology Journal, 2021, 19, 240-250.	8.3	45
27	An efficient Agrobacterium-mediated transformation method using hypocotyl as explants for Brassica napus. Molecular Breeding, 2020, 40, 1.	2.1	43
28	Genomeâ€and transcriptomeâ€wide association studies reveal the genetic basis and the breeding history of seed glucosinolate content in <i>Brassica napus</i>. Plant Biotechnology Journal, 2022, 20, 211-225.	8.3	43
29	Strigolactones promote rhizobia interaction and increase nodulation in soybean (Glycine max). Microbial Pathogenesis, 2018, 114, 420-430.	2.9	41
30	<i>De novo</i> 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.). DNA Research, 2018, 25, 597-617.	3.4	41
31	Characterization of Fatty Acid EXporters involved in fatty acid transport for oil accumulation in the green alga Chlamydomonas reinhardtii. Biotechnology for Biofuels, 2019, 12, 14.	6.2	40
32	Crop height estimation based on UAV images: Methods, errors, and strategies. Computers and Electronics in Agriculture, 2021, 185, 106155.	7.7	40
33	Genome-Wide Analysis of Phospholipase D Gene Family and Profiling of Phospholipids under Abiotic Stresses in Brassica napus. Plant and Cell Physiology, 2019, 60, 1556-1566.	3.1	39
34	A reactive oxygen species burst causes haploid induction in maize. Molecular Plant, 2022, 15, 943-955.	8.3	39
35	Transcriptional regulation of oil biosynthesis in seed plants: Current understanding, applications, and perspectives. Plant Communications, 2022, 3, 100328.	7.7	39
36	Phospholipase DÎµ enhances <i>Braasca napus</i> growth and seed production in response to nitrogen availability. Plant Biotechnology Journal, 2016, 14, 926-937.	8.3	35

#	Article	IF	Citations
37	Nonspecific phospholipase C4 hydrolyzes phosphosphingolipids and sustains plant root growth during phosphate deficiency. Plant Cell, 2021, 33, 766-780.	6.6	31
38	TEOSINTE BRANCHED1/CYCLOIDEA/PROLIFERATING CELL FACTOR4 Interacts with WRINKLED1 to Mediate Seed Oil Biosynthesis. Plant Physiology, 2020, 184, 658-665.	4.8	29
39	ISSR Analysis of the Genetic Diversity of the Endangered Species Sinopodophyllum hexandrum (Royle) Ying from Western Sichuan Province, China. Journal of Integrative Plant Biology, 2006, 48, 1140-1146.	8.5	28
40	Transcriptome analysis reveals genes commonly responding to multiple abiotic stresses in rapeseed. Molecular Breeding, 2019, 39, 1.	2.1	28
41	An efficient and comprehensive plant glycerolipids analysis approach based on highâ€performance liquid chromatographyâ€"quadrupole timeâ€ofâ€flight mass spectrometer. Plant Direct, 2019, 3, e00183.	1.9	26
42	Arabidopsis phospholipase DÎ±1 and DÎ´ oppositely modulate EDS1- and SA-independent basal resistance against adapted powdery mildew. Journal of Experimental Botany, 2018, 69, 3675-3688.	4.8	23
43	Multi-omics analysis dissects the genetic architecture of seed coat content in Brassica napus. Genome Biology, 2022, 23, 86.	8.8	23
44	PLD: Phospholipase Ds in Plant Signaling. Signaling and Communication in Plants, 2014, , 3-26.	0.7	22
45	Nonspecific phospholipase C6 increases seed oil production in oilseed Brassicaceae plants. New Phytologist, 2020, 226, 1055-1073.	7.3	22
46	Development and screening of EMS mutants with altered seed oil content or fatty acid composition in Brassica napus. Plant Journal, 2020, 104, 1410-1422.	5.7	21
47	Genome-Wide Association Studies of Salt Tolerance at Seed Germination and Seedling Stages in Brassica napus. Frontiers in Plant Science, 2021, 12, 772708.	3.6	20
48	AFLP Analysis of Genetic Diversity of the Endangered Species Sinopodophyllum hexandrum in the Tibetan Region of Sichuan Province, China. Biochemical Genetics, 2006, 44, 44-57.	1.7	19
49	Two Plastid Fatty Acid Exporters Contribute to Seed Oil Accumulation in Arabidopsis. Plant Physiology, 2020, 182, 1910-1919.	4.8	19
50	CRISPR/Cas9-Targeted Mutagenesis of BnaFAE1 Genes Confers Low-Erucic Acid in Brassica napus. Frontiers in Plant Science, 2022, 13, 848723.	3.6	18
51	Genome wide characterization of phospholipase A & C families and pattern of lysolipids and diacylglycerol changes under abiotic stresses in Brassica napus L. Plant Physiology and Biochemistry, 2020, 147, 101-112.	5.8	17
52	Membrane glycerolipidome of soybean root hairs and its response to nitrogen and phosphate availability. Scientific Reports, 2016, 6, 36172.	3.3	16
53	Oil plant genomes: current state of the science. Journal of Experimental Botany, 2022, 73, 2859-2874.	4.8	16
54	Genome-Wide Association Mapping Unravels the Genetic Control of Seed Vigor under Low-Temperature Conditions in Rapeseed (Brassica napus L.). Plants, 2021, 10, 426.	3.5	15

#	Article	IF	Citations
55	DELLA proteins BnaA6.RGA and BnaC7.RGA negatively regulate fatty acid biosynthesis by interacting with BnaLEC1s in <i>Brassica napus</i>. Plant Biotechnology Journal, 2021, 19, 2011-2026.	8.3	15
56	The Brassica napus fatty acid exporter FAX1-1 contributes to biological yield, seed oil content, and oil quality. Biotechnology for Biofuels, 2021, 14, 190.	6.2	15
57	Involvement of abscisic acid, ABI5, and PPC2 in plant acclimation to low CO2. Journal of Experimental Botany, 2020, 71, 4093-4108.	4.8	13
58	Acylation of nonâ€specific phospholipase C4 determines its function in plant response to phosphate deficiency. Plant Journal, 2021, 106, 1647-1659.	5.7	13
59	BnVIR: bridging the genotype-phenotype gap to accelerate mining of candidate variations underlying agronomic traits in Brassica napus. Molecular Plant, 2022, 15, 779-782.	8.3	13
60	Heterogeneous Distribution of Erucic Acid in Brassica napus Seeds. Frontiers in Plant Science, 2020, 10, 1744.	3.6	12
61	Combining quantitative trait locus and co-expression analysis allowed identification of new candidates for oil accumulation in rapeseed. Journal of Experimental Botany, 2021, 72, 1649-1660.	4.8	12
62	Molecular Cloning, Characterization, and Expression of an Ï‰-3 Fatty Acid Desaturase Gene from Sapium sebiferum. Journal of Bioscience and Bioengineering, 2008, 106, 375-380.	2.2	11
63	Saltâ€'responsive transcriptome analysis of canola roots reveals candidate genes involved in the key metabolic pathway in response to salt stress. Scientific Reports, 2022, 12, 1666.	3.3	10
64	Sunflower WRINKLED1 Plays a Key Role in Transcriptional Regulation of Oil Biosynthesis. International Journal of Molecular Sciences, 2022, 23, 3054.	4.1	10
65	Proteomeâ€wide identification of Sâ€sulphenylated cysteines in <scp><i>Brassica napus</i></scp>. Plant, Cell and Environment, 2021, 44, 3571-3582.	5.7	9
66	High-throughput unmanned aerial vehicle-based phenotyping provides insights into the dynamic process and genetic basis of rapeseed waterlogging response in the field. Journal of Experimental Botany, 2022, 73, 5264-5278.	4.8	7
67	Brassica napus BnaNTT1 modulates ATP homeostasis in plastids to sustain metabolism and growth. Cell Reports, 2022, 40, 111060.	6.4	7
68	The function of the WRI1-TCP4 regulatory module in lipid biosynthesis. Plant Signaling and Behavior, 2020, 15, 1812878.	2.4	6
69	Genome-Wide Association Studies of Salt-Alkali Tolerance at Seedling and Mature Stages in Brassica napus. Frontiers in Plant Science, 2022, 13, 857149.	3.6	5
70	Transcriptome Analysis Reveals Genes of Flooding-Tolerant and Flooding-Sensitive Rapeseeds Differentially Respond to Flooding at the Germination Stage. Plants, 2021, 10, 693.	3.5	4
71	Genetic and Biochemical Investigation of Seed Fatty Acid Accumulation in Arabidopsis. Frontiers in Plant Science, 0, 13, .	3.6	4
72	Critical Roles of Mitochondrial Fatty Acid Synthesis in Tomato Development and Environmental Response. Plant Physiology, 0, , .	4.8	1

#	Article	IF	Citations
73	Transcriptional regulation of oil biosynthesis in different parts of Wanyou 20 (Brassica napus) seeds. Acta Agronomica Sinica(China), 2019, 45, 381.	0.3	0