

Baohui Liu

List of Publications by Year in descending order

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85
papers

6,059
citations

74677

40
h-index

80575

73
g-index

92
all docs

92
docs citations

92
times ranked

4940
citing authors

#	ARTICLE	IF	CITATIONS
1	Genome-wide association studies dissect the genetic networks underlying agronomical traits in soybean. <i>Genome Biology</i> , 2017, 18, 161.	9.2	380
2	Natural variation at the soybean J locus improves adaptation to the tropics and enhances yield. <i>Nature Genetics</i> , 2017, 49, 773-779.	20.4	363
3	Genetic Redundancy in Soybean Photoresponses Associated With Duplication of the Phytochrome A Gene. <i>Genetics</i> , 2008, 180, 995-1007.	2.9	345
4	Two Coordinately Regulated Homologs of <i>FLOWERING LOCUS T</i> Are Involved in the Control of Photoperiodic Flowering in Soybean. <i>Plant Physiology</i> , 2010, 154, 1220-1231.	5.1	315
5	Stepwise selection on homeologous PRR genes controlling flowering and maturity during soybean domestication. <i>Nature Genetics</i> , 2020, 52, 428-436.	20.4	263
6	The Soybean Stem Growth Habit Gene <i>Dt1</i> Is an Ortholog of Arabidopsis <i>TERMINAL FLOWER1</i> . <i>Plant Physiology</i> , 2010, 153, 198-210.	5.1	256
7	QTL Mapping of Domestication-related Traits in Soybean (<i>Glycine max</i>). <i>Annals of Botany</i> , 2007, 100, 1027-1038.	2.9	209
8	Genetic variation in four maturity genes affects photoperiod insensitivity and PHYA-regulated post-flowering responses of soybean. <i>BMC Plant Biology</i> , 2013, 13, 91.	3.7	190
9	Parallel selection on a dormancy gene during domestication of crops from multiple families. <i>Nature Genetics</i> , 2018, 50, 1435-1441.	20.4	182
10	A New Dominant Gene <i>E9</i> Conditions Early Flowering and Maturity in Soybean. <i>Crop Science</i> , 2014, 54, 2529-2535.	1.9	181
11	A recessive allele for delayed flowering at the soybean maturity locus <i>E9</i> is a leaky allele of <i>FT2a</i> , a <i>FLOWERING LOCUS T</i> ortholog. <i>BMC Plant Biology</i> , 2016, 16, 20.	3.7	169
12	CRISPR/Cas9-mediated targeted mutagenesis of <i>GmSPL9</i> genes alters plant architecture in soybean. <i>BMC Plant Biology</i> , 2019, 19, 131.	3.7	130
13	Molecular mechanisms for the photoperiodic regulation of flowering in soybean. <i>Journal of Integrative Plant Biology</i> , 2021, 63, 981-994.	9.2	127
14	<i>GmFT2a</i> and <i>GmFT5a</i> Redundantly and Differentially Regulate Flowering through Interaction with and Upregulation of the bZIP Transcription Factor <i>GmFDL19</i> in Soybean. <i>PLoS ONE</i> , 2014, 9, e97669.	2.5	126
15	Perspectives on the Application of Genome-Editing Technologies in Crop Breeding. <i>Molecular Plant</i> , 2019, 12, 1047-1059.	8.4	126
16	<i>GmFT4</i> , a Homolog of <i>FLOWERING LOCUS T</i> , Is Positively Regulated by <i>E1</i> and Functions as a Flowering Repressor in Soybean. <i>PLoS ONE</i> , 2014, 9, e89030.	2.5	124
17	Allelic Combinations of Soybean Maturity Loci <i>E1</i> , <i>E2</i> , <i>E3</i> and <i>E4</i> Result in Diversity of Maturity and Adaptation to Different Latitudes. <i>PLoS ONE</i> , 2014, 9, e106042.	2.5	110
18	CRISPR/Cas9-mediated targeted mutagenesis of <i>GmLHY</i> genes alters plant height and internode length in soybean. <i>BMC Plant Biology</i> , 2019, 19, 562.	3.7	105

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19	The Soybean-Specific Maturity Gene <i>E1</i> Family of Floral Repressors Controls Night-Break Responses through Down-Regulation of <i>FLOWERING LOCUS T</i> Orthologs. <i>Plant Physiology</i> , 2015, 168, 1735-1746.	5.1	96
20	Gold Nanoparticle Contrast Agents in Advanced X-ray Imaging Technologies. <i>Molecules</i> , 2013, 18, 5858-5890.	3.9	90
21	Genetic Variation in Soybean at the Maturity Locus E4 Is Involved in Adaptation to Long Days at High Latitudes. <i>Agronomy</i> , 2013, 3, 117-134.	3.1	90
22	Soybean <i>AP1</i> homologs control flowering time and plant height. <i>Journal of Integrative Plant Biology</i> , 2020, 62, 1868-1879.	9.2	89
23	Progress in soybean functional genomics over the past decade. <i>Plant Biotechnology Journal</i> , 2022, 20, 256-282.	8.5	89
24	A soybean quantitative trait locus that promotes flowering under long days is identified as <i>FT5a</i> , a <i>FLOWERING LOCUS T</i> ortholog. <i>Journal of Experimental Botany</i> , 2016, 67, 5247-5258.	4.9	88
25	Genetic improvement of the shoot architecture and yield in soya bean plants via the manipulation of <i>GmmiR156b</i> . <i>Plant Biotechnology Journal</i> , 2019, 17, 50-62.	8.5	84
26	Genetic basis and adaptation trajectory of soybean from its temperate origin to tropics. <i>Nature Communications</i> , 2021, 12, 5445.	13.2	82
27	<i>GmCOL1a</i> and <i>GmCOL1b</i> Function as Flowering Repressors in Soybean Under Long-Day Conditions. <i>Plant and Cell Physiology</i> , 2015, 56, 2409-2422.	3.2	77
28	Molecular mechanisms of flowering under long days and stem growth habit in soybean. <i>Journal of Experimental Botany</i> , 2017, 68, erw394.	4.9	73
29	Overexpression of <i>GmFDL19</i> enhances tolerance to drought and salt stresses in soybean. <i>PLoS ONE</i> , 2017, 12, e0179554.	2.5	69
30	Two homologous <i>LHY</i> pairs negatively control soybean drought tolerance by repressing the abscisic acid responses. <i>New Phytologist</i> , 2021, 229, 2660-2675.	7.8	68
31	Adaptive Mechanisms of Soybean Grown on Salt-Affected Soils. <i>Land Degradation and Development</i> , 2018, 29, 1054-1064.	3.9	65
32	Molecular identification of genes controlling flowering time, maturity, and photoperiod response in soybean. <i>Plant Systematics and Evolution</i> , 2012, 298, 1217-1227.	1.0	63
33	Quantitative Trait Locus Mapping of Flowering Time and Maturity in Soybean Using Next-Generation Sequencing-Based Analysis. <i>Frontiers in Plant Science</i> , 2018, 9, 995.	3.8	62
34	A new dominant locus, <i>E11</i> , controls early flowering time and maturity in soybean. <i>Molecular Breeding</i> , 2019, 39, 1.	2.1	61
35	Parallel selection of distinct <i>Tof5</i> alleles drove the adaptation of cultivated and wild soybean to high latitudes. <i>Molecular Plant</i> , 2022, 15, 308-321.	8.4	60
36	A functionally divergent <i>SOC1</i> homolog improves soybean yield and latitudinal adaptation. <i>Current Biology</i> , 2022, 32, 1728-1742.e6.	4.0	58

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37	Light and temperature-entrainable circadian clock in soybean development. <i>Plant, Cell and Environment</i> , 2020, 43, 637-648.	6.0	57
38	QTL Mapping for Photoperiod Insensitivity of a Japanese Soybean Landrace Sakamotowase. <i>Journal of Heredity</i> , 2010, 101, 251-256.	2.5	52
39	Overcoming the genetic compensation response of soybean florigens to improve adaptation and yield at low latitudes. <i>Current Biology</i> , 2021, 31, 3755-3767.e4.	4.0	51
40	GmmiR156b overexpression delays flowering time in soybean. <i>Plant Molecular Biology</i> , 2015, 89, 353-363.	4.0	50
41	FT5a interferes with the Dt1-AP1 feedback loop to control flowering time and shoot determinacy in soybean. <i>Journal of Integrative Plant Biology</i> , 2021, 63, 1004-1020.	9.2	44
42	Adipocyte-derived kynurenine promotes obesity and insulin resistance by activating the AhR/STAT3/IL-6 signaling. <i>Nature Communications</i> , 2022, 13, .	13.2	43
43	A Single-Nucleotide Polymorphism in an Endo-1,4- β -Glucanase Gene Controls Seed Coat Permeability in Soybean. <i>PLoS ONE</i> , 2015, 10, e0128527.	2.5	40
44	Functional divergence between soybean FLOWERING LOCUS T orthologues FT2a and FT5a in post-flowering stem growth. <i>Journal of Experimental Botany</i> , 2019, 70, 3941-3953.	4.9	38
45	The Soybean Gene J Contributes to Salt Stress Tolerance by Up-Regulating Salt-Responsive Genes. <i>Frontiers in Plant Science</i> , 2020, 11, 272.	3.8	37
46	A recent retrotransposon insertion of <i>J</i> caused <i>E6</i> locus facilitating soybean adaptation into low latitude. <i>Journal of Integrative Plant Biology</i> , 2021, 63, 995-1003.	9.2	37
47	Loss of Function of the E1-Like-b Gene Associates With Early Flowering Under Long-Day Conditions in Soybean. <i>Frontiers in Plant Science</i> , 2018, 9, 1867.	3.8	36
48	SUMO E3 Ligase SIZ1 stabilizes MYB75 to regulate anthocyanin accumulation under high light conditions in Arabidopsis. <i>Plant Science</i> , 2020, 292, 110355.	3.8	30
49	Dual functions of GmTOE4a in the regulation of photoperiod-mediated flowering and plant morphology in soybean. <i>Plant Molecular Biology</i> , 2015, 88, 343-355.	4.0	29
50	QTL mapping for flowering time in different latitude in soybean. <i>Euphytica</i> , 2015, 206, 725-736.	1.2	29
51	Quantitative Trait Locus Mapping of Soybean Maturity Gene <i>E6</i> . <i>Crop Science</i> , 2017, 57, 2547-2554.	1.9	29
52	PPR20 Is Required for the cis-Splicing of Mitochondrial nad2 Intron 3 and Seed Development in Maize. <i>Plant and Cell Physiology</i> , 2020, 61, 370-380.	3.2	29
53	Multiplex CRISPR/Cas9-mediated knockout of soybean LNK2 advances flowering time. <i>Crop Journal</i> , 2021, 9, 767-776.	5.3	29
54	Natural variation and artificial selection of photoperiodic flowering genes and their applications in crop adaptation. <i>ABIOTECH</i> , 2021, 2, 156-169.	3.7	27

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55	Modulation of nitrate-induced phosphate response by the MYB transcription factor RL11/HINGE1 in the nucleus. <i>Molecular Plant</i> , 2021, 14, 517-529.	8.4	25
56	<i>CALCIUM-DEPENDENT PROTEIN KINASE38</i> regulates flowering time and common cutworm resistance in soybean. <i>Plant Physiology</i> , 2022, 190, 480-499.	5.1	25
57	A Global Analysis of the Polygalacturonase Gene Family in Soybean (<i>Glycine max</i>). <i>PLoS ONE</i> , 2016, 11, e0163012.	2.5	20
58	Characterization and quantitative trait locus mapping of late-flowering from a Thai soybean cultivar introduced into a photoperiod-insensitive genetic background. <i>PLoS ONE</i> , 2019, 14, e0226116.	2.5	20
59	MS1 is essential for male fertility by regulating the microsporocyte cell plate expansion in soybean. <i>Science China Life Sciences</i> , 2021, 64, 1533-1545.	5.0	19
60	Rapid identification of consistent novel QTLs underlying long-juvenile trait in soybean by multiple genetic populations and genotyping-by-sequencing. <i>Molecular Breeding</i> , 2019, 39, 1.	2.1	16
61	Involvement of Lhcb6 and Lhcb5 in Photosynthesis Regulation in <i>Physcomitrella patens</i> Response to Abiotic Stress. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3665.	4.2	15
62	Genome-Wide Analysis of DREB Genes Identifies a Novel Salt Tolerance Gene in Wild Soybean (<i>Glycine</i>) Tj ETQq0 0 0 rgBT /Overlock 10	3.8	15
63	Genome-wide association study for soybean mosaic virus SC3 resistance in soybean. <i>Molecular Breeding</i> , 2020, 40, 1.	2.1	13
64	The legume-specific transcription factor E1 controls leaf morphology in soybean. <i>BMC Plant Biology</i> , 2021, 21, 531.	3.7	12
65	A Soybean Deletion Mutant That Moderates the Repression of Flowering by Cool Temperatures. <i>Frontiers in Plant Science</i> , 2020, 11, 429.	3.8	11
66	A polygalacturonase gene PG031 regulates seed coat permeability with a pleiotropic effect on seed weight in soybean. <i>Theoretical and Applied Genetics</i> , 2022, 135, 1603-1618.	3.7	11
67	QTLMiner: QTL database curation by mining tables in literature. <i>Bioinformatics</i> , 2015, 31, 1689-1691.	4.2	9
68	Structural features of the aleurone layer of the seed coat associated with imbibition injury in soybean. <i>Breeding Science</i> , 2019, 69, 364-370.	1.9	9
69	InDel marker detection by integration of multiple softwares using machine learning techniques. <i>BMC Bioinformatics</i> , 2016, 17, 548.	2.7	8
70	A Functional Alternative Oxidase Modulates Plant Salt Tolerance in <i>Physcomitrella patens</i> . <i>Plant and Cell Physiology</i> , 2019, 60, 1829-1841.	3.2	8
71	Molecular breeding of a high oleic acid soybean line by integrating natural variations. <i>Molecular Breeding</i> , 2020, 40, 1.	2.1	8
72	Regulation of flowering and maturation in soybean. <i>Advances in Botanical Research</i> , 2022, , 43-75.	1.0	8

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73	Soybean reduced internode 1 determines internode length and improves grain yield at dense planting. <i>Nature Communications</i> , 2023, 14, .	13.2	8
74	Identification of major QTLs for flowering and maturity in soybean by genotyping-by-sequencing analysis. <i>Molecular Breeding</i> , 2020, 40, 1.	2.1	7
75	Cotranscriptional and Posttranscriptional Features of the Transcriptome in Soybean Shoot Apex and Leaf. <i>Frontiers in Plant Science</i> , 2021, 12, 649634.	3.8	6
76	Current overview on the genetic basis of key genes involved in soybean domestication. <i>ABIOTECH</i> , 2022, 3, 126-139.	3.7	6
77	Natural variation of the Dt2 promoter controls plant height and node number in semi-determinant soybean. <i>Molecular Breeding</i> , 2021, 41, 1.	2.1	5
78	UV-B irradiation-activated E3 ligase GmLPA1 modulates gibberellin catabolism to increase plant height in soybean. <i>Nature Communications</i> , 2023, 14, .	13.2	5
79	Genome-Wide DNA Methylation Analysis of Soybean Curled-Cotyledons Mutant and Functional Evaluation of a Homeodomain-Leucine Zipper (HD-Zip) I Gene GmHDZ20. <i>Frontiers in Plant Science</i> , 2020, 11, 593999.	3.8	4
80	PopGeV: a web-based large-scale population genome browser: Fig. 1.. <i>Bioinformatics</i> , 2015, 31, 3048-3050.	4.2	3
81	A flowering time locus dependent on E2 in soybean. <i>Molecular Breeding</i> , 2021, 41, 1.	2.1	3
82	Electrophilicityâ€Nucleophilicity Scale Also in the Gas Phase. <i>Angewandte Chemie</i> , 2006, 118, 2147-2150.	2.1	2
83	Oil crops: From the classical traits to genetic improvement. <i>Journal of Integrative Plant Biology</i> , 2021, 63, 979-980.	9.2	2
84	Rapid excavating a FLOWERING LOCUS T-regulator NF-YA using genotyping-by-sequencing. <i>Molecular Breeding</i> , 2021, 41, 1.	2.1	0
85	Subfunctionalisation and self-repression of duplicated E1 homologues finetunes soybean flowering and adaptation. <i>Nature Communications</i> , 2024, 15, .	13.2	0