Shuyu Liu

List of Publications by Year in descending order

77 papers	2,053 citations	293460 24 h-index	312153 41 g-index
83 all docs	83 docs citations	83 times ranked	2188 citing authors

#	Article	IF	Citations
1	Population genomic analysis of Aegilops tauschii identifies targets for bread wheat improvement. Nature Biotechnology, 2022, 40, 422-431.	9.4	102
2	Development of the Wheat Practical Haplotype Graph database as a resource for genotyping data storage and genotype imputation. G3: Genes, Genomes, Genetics, 2022, 12, .	0.8	7
3	Assessment of floral characteristics for hybrid wheat (Triticum aestivum L.) production in Texas. , 2022, 5, .		3
4	Genomic variants affecting homoeologous gene expression dosage contribute to agronomic trait variation in allopolyploid wheat. Nature Communications, 2022, 13, 826.	5.8	31
5	A new strategy for using historical imbalanced yield data to conduct genome-wide association studies and develop genomic prediction models for wheat breeding. Molecular Breeding, 2022, 42, 1.	1.0	0
6	Genetic dissection of endâ€use quality traits in two widely adapted wheat cultivars â€˜TAM 111â€™ and â€˜TAM 112â€™. Crop Science, 2021, 61, 1944-1959.	0.8	9
7	Genomic selection of forage agronomic traits in winter wheat. Crop Science, 2021, 61, 410-421.	0.8	5
8	Thermal imaging to evaluate wheat genotypes under dryland conditions. , 2021, 4, e20152.		7
9	Characterization of wheat curl mite resistance gene Cmc4 in OK05312. Theoretical and Applied Genetics, 2021, 134, 993-1005.	1.8	11
10	RNA-seq analysis reveals different drought tolerance mechanisms in two broadly adapted wheat cultivars â€˜TAM 111â€™ and â€˜TAM 112â€™. Scientific Reports, 2021, 11, 4301.	1.6	19
11	Population genomics and haplotype analysis in spelt and bread wheat identifies a gene regulating glume color. Communications Biology, 2021, 4, 375.	2.0	11
12	Function and evolution of allelic variations of Sr13 conferring resistance to stem rust in tetraploid wheat (Triticum turgidum L.). Plant Journal, 2021, 106, 1674-1691.	2.8	15
13	Genome-wide QTL mapping of yield and agronomic traits in two widely adapted winter wheat cultivars from multiple mega-environments. PeerJ, 2021, 9, e12350.	0.9	6
14	Genetic Mapping of Quantitative Trait Loci for End-Use Quality and Grain Minerals in Hard Red Winter Wheat. Agronomy, 2021, 11, 2519.	1.3	8
15	Soil water extraction and use by winter wheat cultivars under limited irrigation in a semi-arid environment. Journal of Arid Environments, 2020, 174, 104046.	1.2	12
16	Genome wide identification of QTL associated with yield and yield components in two popular wheat cultivars TAM 111 and TAM 112. PLoS ONE, 2020, 15, e0237293.	1.1	17
17	RhizoVision Crown: An Integrated Hardware and Software Platform for Root Crown Phenotyping. Plant Phenomics, 2020, 2020, 3074916.	2.5	74
18	Use of NDVI for characterizing winter wheat response to water stress in a semi-arid environment. Journal of Crop Improvement, 2019, 33, 633-648.	0.9	29

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19	Drought-Stress Tolerance in Wheat Seedlings Conferred by Phenazine-Producing Rhizobacteria. Frontiers in Microbiology, 2019, 10, 1590.	1.5	39
20	Comparison of TaqMan, KASP and rhAmp SNP genotyping platforms in hexaploid wheat. PLoS ONE, 2019, 14, e0217222.	1.1	54
21	Using aerial imagery and digital photography to monitor growth and yield in winter wheat. International Journal of Remote Sensing, 2019, 40, 6905-6929.	1.3	5
22	Genomic Selection of Forage Quality Traits in Winter Wheat. Crop Science, 2019, 59, 2473-2483.	0.8	7
23	â€˜TAM 204â€™ Wheat, Adapted to Grazing, Grain, and Grazeâ€out Production Systems in the Southern High Plains. Journal of Plant Registrations, 2019, 13, 377-382.	0.4	5
24	Genotype Imputation in Winter Wheat Using First-Generation Haplotype Map SNPs Improves Genome-Wide Association Mapping and Genomic Prediction of Traits. G3: Genes, Genomes, Genetics, 2019, 9, 125-133.	0.8	22
25	Yield determination in winter wheat under different water regimes. Field Crops Research, 2019, 233, 80-87.	2.3	35
26	Developing KASP Markers on a Major Stripe Rust Resistance QTL in a Popular Wheat TAM 111 Using 90K Array and Genotypingâ€byâ€Sequencing SNPs. Crop Science, 2019, 59, 165-175.	0.8	14
27	Physiological responses to water stress and yield of winter wheat cultivars differing in drought tolerance. Journal of Agronomy and Crop Science, 2018, 204, 347-358.	1.7	23
28	Canopy temperature depression at grain filling correlates to winter wheat yield in the U.S. Southern High Plains. Field Crops Research, 2018, 217, 11-19.	2.3	66
29	â€˜TAM 114â€™ Wheat, Excellent Breadâ€Making Quality Hard Red Winter Wheat Cultivar Adapted to the Southern High Plains. Journal of Plant Registrations, 2018, 12, 367-372.	0.4	7
30	Mapping and KASP marker development for wheat curl mite resistance in â€œTAM 112â€•wheat using linkage and association analysis. Molecular Breeding, 2018, 38, 1.	1.0	30
31	Saturated Genetic Mapping of Wheat Streak Mosaic Virus Resistance Gene Wsm2 in Wheat. Crop Science, 2017, 57, 332-339.	0.8	13
32	More Recent Wheat Cultivars Extract More Water from Greater Soil Profile Depths to Increase Yield in the Texas High Plains. Agronomy Journal, 2017, 109, 2771-2780.	0.9	17
33	Wheat Curl Mite Resistance in Hard Winter Wheat in the US Great Plains. Crop Science, 2017, 57, 53-61.	0.8	18
34	Development and Validation of KASP Markers for Wheat Streak Mosaic Virus Resistance Gene Wsm2. Crop Science, 2017, 57, 340-349.	0.8	25
35	Development and validation of KASP markers for the greenbug resistance gene Gb7 and the Hessian fly resistance gene H32 in wheat. Theoretical and Applied Genetics, 2017, 130, 1867-1884.	1.8	60
36	Mapping of quantitative trait loci for grain yield and its components in a US popular winter wheat TAM 111 using 90K SNPs. PLoS ONE, 2017, 12, e0189669.	1.1	55

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37	Phenotypic Plasticity of Winter Wheat Heading Date and Grain Yield across the US Great Plains. Crop Science, 2016, 56, 2223-2236.	0.8	75
38	Validation of Chromosomal Locations of 90K Array Single Nucleotide Polymorphisms in US Wheat. Crop Science, 2016, 56, 364-373.	0.8	26
39	Spectral Reflectance Models for Characterizing Winter Wheat Genotypes. Journal of Crop Improvement, 2016, 30, 176-195.	0.9	6
40	Cooler Canopy Contributes to Higher Yield and Drought Tolerance in New Wheat Cultivars. Crop Science, 2014, 54, 2275-2284.	0.8	22
41	Yield Determination and Waterâ€Use Efficiency of Wheat under Waterâ€Limited Conditions in the U.S. Southern High Plains. Crop Science, 2014, 54, 34-47.	0.8	74
42	Molecular Mapping of Stripe Rust Resistance in Hard Red Winter Wheat TAM 111 Adapted to the U.S. High Plains. Crop Science, 2014, 54, 1361-1373.	0.8	50
43	Mapping Net Blotch Resistance in â€˜Nominiâ€™ and CIho 2291 Barley. Crop Science, 2014, 54, 2596-2602.	0.8	23
44	Characterization of Fusarium Head Blight Resistance and Deoxynivalenol Accumulation in Hulled and Hulless Winter Barley. Plant Disease, 2014, 98, 599-606.	0.7	13
45	Physiology and transcriptomics of water-deficit stress responses in wheat cultivars TAM 111 and TAM 112. Journal of Plant Physiology, 2014, 171, 1289-1298.	1.6	52
46	Molecular Markers Linked to Important Genes in Hard Winter Wheat. Crop Science, 2014, 54, 1304-1321.	0.8	55
47	Molecular characterization of field resistance to Fusarium head blight in two US soft red winter wheat cultivars. Theoretical and Applied Genetics, 2013, 126, 2485-2498.	1.8	59
48	Marker-trait associations in Virginia Tech winter barley identified using genome-wide mapping. Theoretical and Applied Genetics, 2013, 126, 693-710.	1.8	78
49	Identification and mapping of adultâ€plant stripe rust resistance in soft red winter wheat cultivar â€˜<scp>USG</scp> 3555â€™. Plant Breeding, 2013, 132, 53-60.	1.0	33
50	Transcriptomics of induced defense responses to greenbug aphid feeding in near isogenic wheat lines. Plant Science, 2013, 212, 26-36.	1.7	32
51	Identification and Mapping of Adult Plant Stripe Rust Resistance in Soft Red Winter Wheat VA00Wâ€38. Crop Science, 2013, 53, 871-879.	0.8	16
52	Registration of â€˜Eveâ€™ Winter Hulless Barley. Journal of Plant Registrations, 2013, 7, 5-11.	0.4	1
53	Molecular Characterization of Resistance to Fusarium Head Blight in U.S. Soft Red Winter Wheat Breeding Line VA00Wâ€38. Crop Science, 2012, 52, 2283-2292.	0.8	35
54	Resistance to Fusarium Head Blight and Deoxynivalenol Accumulation in Virginia Barley. Plant Disease, 2012, 96, 279-284.	0.7	18

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55	Registration of â€˜Beckerâ€™/â€˜Masseyâ€™ Wheat Recombinant Inbred Line Mapping Population. Journal of Plant Registrations, 2012, 6, 358-362.	0.4	2
56	Registration of Fusarium Head Blightâ€“Resistant Soft Red Winter Wheat Germplasm VA04Wâ€433 and VA04Wâ€474. Journal of Plant Registrations, 2012, 6, 111-116.	0.4	7
57	Registration of â€˜Merlâ€™ Wheat. Journal of Plant Registrations, 2011, 5, 68-74.	0.4	1
58	Registration of â€˜SW049029104â€™ Wheat. Journal of Plant Registrations, 2011, 5, 91-97.	0.4	1
59	Registration of â€˜Snowglennâ€™ Winter Durum Wheat. Journal of Plant Registrations, 2011, 5, 81-86.	0.4	2
60	Registration of â€˜Danâ€™ Winter Hulless Barley. Journal of Plant Registrations, 2011, 5, 1-4.	0.4	8
61	Registration of â€˜Vision 30â€™ Wheat. Journal of Plant Registrations, 2011, 5, 353-359.	0.4	6
62	Registration of â€˜Vision 40â€™ Wheat. Journal of Plant Registrations, 2011, 5, 360-366.	0.4	3
63	Construction of a BAC library and a physical map of a major QTL for CBB resistance of common bean (Phaseolus vulgaris L.). Genetica, 2010, 138, 709-716.	0.5	8
64	Registration of â€˜Jamestownâ€™ Wheat. Journal of Plant Registrations, 2010, 4, 28-33.	0.4	24
65	Registration of â€˜Shirleyâ€™ Wheat. Journal of Plant Registrations, 2010, 4, 38-43.	0.4	9
66	Registration of USG 3209/Jaypee Wheat Recombinant Inbred Line Mapping Population. Journal of Plant Registrations, 2010, 4, 159-162.	0.4	3
67	Registration of â€˜3434â€™ Wheat. Journal of Plant Registrations, 2010, 4, 44-49.	0.4	0
68	Registration of â€˜5205â€™ Wheat. Journal of Plant Registrations, 2009, 3, 283-288.	0.4	1
69	Metaâ€Analysis of QTL Associated with Fusarium Head Blight Resistance in Wheat. Crop Science, 2009, 49, 1955-1968.	0.8	234
70	Registration of â€˜USG 3555â€™ Wheat. Journal of Plant Registrations, 2009, 3, 273-278.	0.4	6
71	Quantitative Trait Loci Associated with Deoxynivalenol Content and Kernel Quality in the Soft Red Winter Wheat â€˜Ernieâ€™. Crop Science, 2008, 48, 1408-1418.	0.8	25
72	Development of STS markers and QTL validation for common bacterial blight resistance in common bean. Plant Breeding, 2007, 127, 070807025605005-???.	1.0	17

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73	QTL associated with Fusarium head blight resistance in the soft red winter wheat Ernie. Theoretical and Applied Genetics, 2007, 115, 417-427.	1.8	74
74	Inheritance of Fusarium head blight resistance in the soft red winter wheat Ernie. Theoretical and Applied Genetics, 2005, 110, 454-461.	1.8	27
75	Genetic Variation in PI 294994 Wheat for Resistance to Russian Wheat Aphid. Crop Science, 1998, 38, 527-530.	0.8	32
76	Middle portion of the wheat culm remobilizes more carbon reserve to grains under drought. Journal of Agronomy and Crop Science, 0, , .	1.7	6
77	Capturing Wheat Phenotypes at the Genome Level. Frontiers in Plant Science, 0, 13, .	1.7	8