

# Guihua Bai

## List of Publications by Year in descending order

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275  
papers

12,624  
citations

30070

54  
h-index

36028

97  
g-index

280  
all docs

280  
docs citations

280  
times ranked

7972  
citing authors

#	ARTICLE	IF	CITATIONS
1	Genome-wide comparative diversity uncovers multiple targets of selection for improvement in hexaploid wheat landraces and cultivars. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8057-8062.	7.1	1,065
2	MANAGEMENT AND RESISTANCE IN WHEAT AND BARLEY TO FUSARIUM HEAD BLIGHT. Annual Review of Phytopathology, 2004, 42, 135-161.	7.8	734
3	Parallel domestication of the Shattering1 genes in cereals. Nature Genetics, 2012, 44, 720-724.	21.4	401
4	Horizontal gene transfer of <i>Fhb7</i> from fungus underlies <i>Fusarium</i> head blight resistance in wheat. Science, 2020, 368, .	12.6	398
5	Deoxynivalenol-nonproducing fusarium graminearum causes initial infection, but does not cause disease spread in wheat spikes. Mycopathologia, 2002, 153, 91-98.	3.1	351
6	Differentially expressed genes between drought-tolerant and drought-sensitive barley genotypes in response to drought stress during the reproductive stage. Journal of Experimental Botany, 2009, 60, 3531-3544.	4.8	349
7	Amplified Fragment Length Polymorphism Markers Linked to a Major Quantitative Trait Locus Controlling Scab Resistance in Wheat. Phytopathology, 1999, 89, 343-348.	2.2	274
8	A deletion mutation in TaHRC confers Fhb1 resistance to Fusarium head blight in wheat. Nature Genetics, 2019, 51, 1099-1105.	21.4	258
9	Quantitative trait loci for yield and related traits in the wheat population Ning7840—Clark. Theoretical and Applied Genetics, 2006, 112, 688-698.	3.6	225
10	Modeling and mapping QTL for senescence-related traits in winter wheat under high temperature. Molecular Breeding, 2010, 26, 163-175.	2.1	177
11	Genetic analysis of scab resistance QTL in wheat with microsatellite and AFLP markers. Genome, 2002, 45, 719-727.	2.0	165
12	Resistance to Fusarium head blight and deoxynivalenol accumulation in wheat. Plant Breeding, 2001, 120, 1-6.	1.9	157
13	Presence of tannins in sorghum grains is conditioned by different natural alleles of <i>Tannin1</i> . Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 10281-10286.	7.1	156
14	Cloning and Characterization of a Critical Regulator for Preharvest Sprouting in Wheat. Genetics, 2013, 195, 263-273.	2.9	148
15	Host Plant Resistance Genes for Fusarium Head Blight: Mapping and Manipulation with Molecular Markers. Crop Science, 2001, 41, 611-619.	1.8	145
16	Mapping QTLs for root traits in a recombinant inbred population from two indica ecotypes in rice. Theoretical and Applied Genetics, 2000, 101, 756-766.	3.6	131
17	High-Resolution Genome-wide Association Study Identifies Genomic Regions and Candidate Genes for Important Agronomic Traits in Wheat. Molecular Plant, 2020, 13, 1311-1327.	8.3	130
18	Genic and nongenetic contributions to natural variation of quantitative traits in maize. Genome Research, 2012, 22, 2436-2444.	5.5	125

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19	Genotyping-by-Sequencing (GBS) Revealed Molecular Genetic Diversity of Iranian Wheat Landraces and Cultivars. <i>Frontiers in Plant Science</i> , 2017, 8, 1293.	3.6	125
20	Identification of a candidate gene for a QTL for spikelet number per spike on wheat chromosome arm 7AL by high-resolution genetic mapping. <i>Theoretical and Applied Genetics</i> , 2019, 132, 2689-2705.	3.6	118
21	Increasing seed size and quality by manipulating <i>BIG SEEDS1</i> in legume species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 12414-12419.	7.1	117
22	Validation of a major QTL for scab resistance with SSR markers and use of marker-assisted selection in wheat. <i>Plant Breeding</i> , 2003, 122, 40-46.	1.9	115
23	Inheritance of resistance to <i>Fusarium graminearum</i> in wheat. <i>Theoretical and Applied Genetics</i> , 2000, 100, 1-8.	3.6	111
24	Genetic Diversity, Population Structure, and Linkage Disequilibrium in U.S. Elite Winter Wheat. <i>Plant Genome</i> , 2010, 3, .	2.8	103
25	<i>Fusarium graminearum</i> -induced changes in gene expression between <i>Fusarium</i> head blight-resistant and susceptible wheat cultivars. <i>Functional and Integrative Genomics</i> , 2006, 7, 69-77.	3.5	99
26	Breeding wheat for resistance to <i>Fusarium</i> head blight in the Global North: China, USA, and Canada. <i>Crop Journal</i> , 2019, 7, 730-738.	5.2	97
27	Gene editing of the wheat homologs of <i>TONNEAU1</i> recruiting motif encoding gene affects grain shape and weight in wheat. <i>Plant Journal</i> , 2019, 100, 251-264.	5.7	97
28	Wheat resistance to <i>Fusarium</i> head blight. <i>Canadian Journal of Plant Pathology</i> , 2018, 40, 336-346.	1.4	91
29	Quantitative trait loci for resistance to pre-harvest sprouting in US hard white winter wheat Rio Blanco. <i>Theoretical and Applied Genetics</i> , 2008, 117, 691-699.	3.6	88
30	Association of candidate genes with drought tolerance traits in diverse perennial ryegrass accessions. <i>Journal of Experimental Botany</i> , 2013, 64, 1537-1551.	4.8	83
31	Genome-wide association analysis on pre-harvest sprouting resistance and grain color in U.S. winter wheat. <i>BMC Genomics</i> , 2016, 17, 794.	2.8	83
32	A major QTL controlling seed dormancy and pre-harvest sprouting resistance on chromosome 4A in a Chinese wheat landrace. <i>Molecular Breeding</i> , 2008, 21, 351-358.	2.1	82
33	Control of dissected leaf morphology by a Cys(2)His(2) zinc finger transcription factor in the model legume <i>Medicago truncatula</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 10754-10759.	7.1	80
34	The major threshability genes soft glume ( <i>sog</i> ) and tenacious glume ( <i>Tg</i> ), of diploid and polyploid wheat, trace their origin to independent mutations at non-orthologous loci. <i>Theoretical and Applied Genetics</i> , 2009, 119, 341-351.	3.6	79
35	Quantitative Trait Loci for <i>Fusarium</i> Head Blight Resistance in a Recombinant Inbred Population of Wangshuibai/Wheaton. <i>Phytopathology</i> , 2008, 98, 87-94.	2.2	77
36	Mapping quantitative trait loci for quality factors in an inter-class cross of US and Chinese wheat. <i>Theoretical and Applied Genetics</i> , 2010, 120, 1041-1051.	3.6	77

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37	Molecular mapping of a quantitative trait locus for aluminum tolerance in wheat cultivar Atlas 66. <i>Theoretical and Applied Genetics</i> , 2005, 112, 51-57.	3.6	75
38	Association Analysis of Stem Rust Resistance in U.S. Winter Wheat. <i>PLoS ONE</i> , 2014, 9, e103747.	2.5	75
39	QTL Mapping for Grain Yield, Flowering Time, and Stay-Green Traits in Sorghum with Genotyping-by-Sequencing Markers. <i>Crop Science</i> , 2016, 56, 1429-1442.	1.8	73
40	QTLs for Fusarium head blight response in a wheat DH population of Wangshuibai/Alondra™. <i>Euphytica</i> , 2006, 146, 183-191.	1.2	72
41	Transcriptional analysis between two wheat near-isogenic lines contrasting in aluminum tolerance under aluminum stress. <i>Molecular Genetics and Genomics</i> , 2007, 277, 1-12.	2.1	70
42	Molecular characterization of Fusarium head blight resistance from wheat variety Wangshuibai. <i>Euphytica</i> , 2004, 139, 59-64.	1.2	69
43	Single nucleotide polymorphism in wheat chromosome region harboring Fhb1 for Fusarium head blight resistance. <i>Molecular Breeding</i> , 2012, 29, 477-488.	2.1	69
44	Identification of a novel gene, H34, in wheat using recombinant inbred lines and single nucleotide polymorphism markers. <i>Theoretical and Applied Genetics</i> , 2013, 126, 2065-2071.	3.6	69
45	Development and validation of diagnostic markers for Fhb1 region, a major QTL for Fusarium head blight resistance in wheat. <i>Theoretical and Applied Genetics</i> , 2018, 131, 2371-2380.	3.6	69
46	Allelic Variations of a Light Harvesting Chlorophyll A/B-Binding Protein Gene (Lhcb1) Associated with Agronomic Traits in Barley. <i>PLoS ONE</i> , 2012, 7, e37573.	2.5	69
47	Genotyping-by-sequencing (GBS) identified SNP tightly linked to QTL for pre-harvest sprouting resistance. <i>Theoretical and Applied Genetics</i> , 2015, 128, 1385-1395.	3.6	66
48	Molecular characterization of Fusarium head blight resistance in Wangshuibai with simple sequence repeat and amplified fragment length polymorphism markers. <i>Genome</i> , 2004, 47, 1137-1143.	2.0	65
49	Genetic Analyses of Chinese Cynodon Accessions by Flow Cytometry and AFLP Markers. <i>Crop Science</i> , 2006, 46, 917-926.	1.8	62
50	Quantitative trait loci for resistance to fusarium head blight and deoxynivalenol accumulation in Wangshuibai wheat under field conditions. <i>Plant Pathology</i> , 2006, 55, 739-745.	2.4	61
51	Novel quantitative trait loci (QTL) for Fusarium head blight resistance in wheat cultivar Chokwang. <i>Theoretical and Applied Genetics</i> , 2005, 111, 1571-1579.	3.6	60
52	Molecular Mapping of Stem Rust Resistance Gene <i>Sr40</i> in Wheat. <i>Crop Science</i> , 2009, 49, 1681-1686.	1.8	58
53	Mapping and characterization of the new adult plant leaf rust resistance gene Lr77 derived from Santa Fe winter wheat. <i>Theoretical and Applied Genetics</i> , 2018, 131, 1553-1560.	3.6	58
54	Adult Plant Leaf Rust Resistance Derived from Toropi Wheat is Conditioned by <i>Lr78</i> and Three Minor QTL. <i>Phytopathology</i> , 2018, 108, 246-253.	2.2	58

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55	Fine Mapping of the Wheat Leaf Rust Resistance Gene Lr42. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2445.	4.1	57
56	Main Effects, Epistasis, and Environmental Interactions of Quantitative Trait Loci for Fusarium Head Blight Resistance in a Recombinant Inbred Population. <i>Phytopathology</i> , 2006, 96, 534-541.	2.2	55
57	Quantitative trait loci for aluminum resistance in Chinese wheat landrace FSW. <i>Theoretical and Applied Genetics</i> , 2008, 117, 49-56.	3.6	55
58	Molecular Markers Linked to Important Genes in Hard Winter Wheat. <i>Crop Science</i> , 2014, 54, 1304-1321.	1.8	55
59	Quantitative trait loci for aluminum resistance in wheat. <i>Molecular Breeding</i> , 2007, 19, 153-161.	2.1	54
60	Regulation of Compound Leaf Development in <i>Medicago truncatula</i> by Fused Compound Leaf1, a Class M KNOX Gene. <i>Plant Cell</i> , 2011, 23, 3929-3943.	6.6	54
61	Quantitative trait loci for resistance to fusarium head blight in a Chinese wheat landrace Haiyanzhong. <i>Theoretical and Applied Genetics</i> , 2011, 122, 1497-1502.	3.6	54
62	Integration of meta-QTL discovery with omics: Towards a molecular breeding platform for improving wheat resistance to Fusarium head blight. <i>Crop Journal</i> , 2021, 9, 739-749.	5.2	54
63	Genome-wide association study reveals genetic architecture of coleoptile length in wheat. <i>Theoretical and Applied Genetics</i> , 2017, 130, 391-401.	3.6	52
64	Imputation accuracy of wheat genotyping-by-sequencing (GBS) data using barley and wheat genome references. <i>PLoS ONE</i> , 2019, 14, e0208614.	2.5	48
65	Marker-assisted characterization of Asian wheat lines for resistance to Fusarium head blight. <i>Theoretical and Applied Genetics</i> , 2006, 113, 308-320.	3.6	47
66	Registration of "Snowmass"™ Wheat. <i>Journal of Plant Registrations</i> , 2011, 5, 87-90.	0.5	47
67	Differentially Expressed Proteins Associated with Fusarium Head Blight Resistance in Wheat. <i>PLoS ONE</i> , 2013, 8, e82079.	2.5	47
68	A natural variation in Ribonuclease H-like gene underlies Rht8 to confer "Green Revolution" trait in wheat. <i>Molecular Plant</i> , 2022, 15, 377-380.	8.3	47
69	Molecular Characterization of Slow Leaf Rusting Resistance in Wheat. <i>Crop Science</i> , 2005, 45, 758-765.	1.8	46
70	Mapping of QTLs prolonging the latent period of Puccinia triticina infection in wheat. <i>Theoretical and Applied Genetics</i> , 2005, 110, 244-251.	3.6	44
71	Genetic Relationships among Head Blight Resistant Cultivars of Wheat Assessed on the Basis of Molecular Markers. <i>Crop Science</i> , 2003, 43, 498.	1.8	44
72	Association analysis reveals effects of wheat glutenin alleles and rye translocations on dough-mixing properties. <i>Journal of Cereal Science</i> , 2009, 50, 283-290.	3.7	43

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73	Fusarium Head Blight Resistance in U.S. Winter Wheat Cultivars and Elite Breeding Lines. <i>Crop Science</i> , 2013, 53, 2006-2013.	1.8	43
74	Genetic diversity among synthetic hexaploid wheat accessions ( <i>Triticum aestivum</i> ) with resistance to several fungal diseases. <i>Genetic Resources and Crop Evolution</i> , 2016, 63, 1285-1296.	1.6	43
75	Single nucleotide polymorphism tightly linked to a major QTL on chromosome 7A for both kernel length and kernel weight in wheat. <i>Molecular Breeding</i> , 2016, 36, 1.	2.1	42
76	New Fusarium Head Blight-Resistant Sources from Asian Wheat Germplasm. <i>Crop Science</i> , 2008, 48, 1090-1097.	1.8	41
77	<i>Fusarium</i> -Damaged Kernels and Deoxynivalenol in <i>Fusarium</i> -Infected U.S. Winter Wheat. <i>Phytopathology</i> , 2014, 104, 472-478.	2.2	41
78	Allelochemicals targeted to balance competing selections in African agroecosystems. <i>Nature Plants</i> , 2019, 5, 1229-1236.	9.3	41
79	A novel quantitative trait locus for Fusarium head blight resistance in chromosome 7A of wheat. <i>Theoretical and Applied Genetics</i> , 2011, 122, 1189-1198.	3.6	40
80	Genetic Diversity and Population Structure of Elite Foxtail Millet [ <i>Setaria italica</i> (L.) P. Beauv.] Germplasm in China. <i>Crop Science</i> , 2011, 51, 1655-1663.	1.8	40
81	Genome-Wide Association Mapping Reveals Novel QTL for Seedling Leaf Rust Resistance in a Worldwide Collection of Winter Wheat. <i>Plant Genome</i> , 2016, 9, plantgenome2016.06.0051.	2.8	40
82	A genetic linkage map of tef [ <i>Eragrostis tef</i> (Zucc.) Trotter] based on amplified fragment length polymorphism. <i>Theoretical and Applied Genetics</i> , 1999, 99, 599-604.	3.6	39
83	Registration of "Ripper"™ Wheat. <i>Journal of Plant Registrations</i> , 2007, 1, 1-6.	0.5	39
84	Independent missplicing mutations in <i>TaPMS1</i> causing loss of preharvest sprouting (PMS) resistance during wheat domestication. <i>New Phytologist</i> , 2015, 208, 928-935.	7.3	39
85	Genetic variations of HvP5CS1 and their association with drought tolerance related traits in barley ( <i>Hordeum vulgare</i> L.). <i>Scientific Reports</i> , 2017, 7, 7870.	3.3	39
86	Covariation for Microsatellite Marker Alleles Associated with <i>Rht8</i> and Coleoptile Length in Winter Wheat. <i>Crop Science</i> , 2004, 44, 1187-1194.	1.8	38
87	Registration of "NE01643"™ Wheat. <i>Journal of Plant Registrations</i> , 2008, 2, 36-42.	0.5	38
88	Candidate gene association mapping for winter survival and spring regrowth in perennial ryegrass. <i>Plant Science</i> , 2015, 235, 37-45.	3.6	37
89	Understanding the Genetic Basis of Spike Fertility to Improve Grain Number, Harvest Index, and Grain Yield in Wheat Under High Temperature Stress Environments. <i>Frontiers in Plant Science</i> , 2019, 10, 1481.	3.6	37
90	Association of simple sequence repeat (SSR) markers with submergence tolerance in diverse populations of perennial ryegrass. <i>Plant Science</i> , 2011, 180, 391-398.	3.6	36

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91	Precisely mapping a major gene conferring resistance to Hessian fly in bread wheat using genotyping-by-sequencing. <i>BMC Genomics</i> , 2015, 16, 108.	2.8	36
92	Development of EST-SSR markers in flowering Chinese cabbage ( <i>Brassica campestris</i> L. ssp. <i>chinensis</i> ) Tj ETQq0 0 0,rgBT /Overlock 10 Tf	2.9	36
93	Thatcher wheat line RL6149 carries Lr64 and a second leaf rust resistance gene on chromosome 1DS. <i>Theoretical and Applied Genetics</i> , 2019, 132, 2809-2814.	3.6	36
94	Inheritance and Genetic Mapping of Russian Wheat Aphid Resistance in Iranian Wheat Landrace Accession PI 626580. <i>Crop Science</i> , 2012, 52, 676-682.	1.8	35
95	Whole-genome resequencing: changing the paradigms of SNP detection, molecular mapping and gene discovery. <i>Molecular Breeding</i> , 2015, 35, 1.	2.1	35
96	Discovery and mapping of single feature polymorphisms in wheat using Affymetrix arrays. <i>BMC Genomics</i> , 2009, 10, 251.	2.8	34
97	Identification and genetic mapping of the putative <i>Thinopyrum</i> intermedium-derived dominant powdery mildew resistance gene PmL962 on wheat chromosome arm 2BS. <i>Theoretical and Applied Genetics</i> , 2015, 128, 517-528.	3.6	34
98	Genetic Diversity, Population Structure, and Linkage Disequilibrium of Pearl Millet. <i>Plant Genome</i> , 2019, 12, 1-12.	2.8	34
99	Single nucleotide polymorphisms linked to quantitative trait loci for grain quality traits in wheat. <i>Crop Journal</i> , 2016, 4, 1-11.	5.2	33
100	Dissection and fine mapping of a major QTL for preharvest sprouting resistance in white wheat Rio Blanco. <i>Theoretical and Applied Genetics</i> , 2010, 121, 1395-1404.	3.6	32
101	Mapping Quantitative Trait Loci for Long Coleoptile in Chinese Wheat Landrace Wangshuibai. <i>Crop Science</i> , 2010, 50, 43-50.	1.8	32
102	Quantitative trait loci responsible for <i>Fusarium</i> head blight resistance in Chinese landrace Baishanyuehuang. <i>Theoretical and Applied Genetics</i> , 2012, 125, 495-502.	3.6	32
103	QTL mapping of pre-harvest sprouting resistance in a white wheat cultivar Danby. <i>Theoretical and Applied Genetics</i> , 2018, 131, 1683-1697.	3.6	32
104	Non-coding RNAs: Functional roles in the regulation of stress response in Brassica crops. <i>Genomics</i> , 2020, 112, 1419-1424.	2.9	32
105	Amplified Fragment Length Polymorphism Analysis of Tef [ <i>Eragrostis tef</i> (Zucc.) Trotter]. <i>Crop Science</i> , 1999, 39, 819-824.	1.8	31
106	AFLP and STS tagging of a major QTL for <i>Fusarium</i> head blight resistance in wheat. <i>Theoretical and Applied Genetics</i> , 2003, 106, 1011-1017.	3.6	31
107	Chromosome Size in Diploid Eukaryotic Species Centers on the Average Length with a Conserved Boundary. <i>Molecular Biology and Evolution</i> , 2011, 28, 1901-1911.	8.9	31
108	Quantitative trait loci for resistance to <i>Fusarium</i> head blight in the Chinese wheat landrace Huangfangzhu. <i>Euphytica</i> , 2012, 185, 93-102.	1.2	31

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109	Identification of two novel Hessian fly resistance genes H35 and H36 in a hard winter wheat line SD06165. <i>Theoretical and Applied Genetics</i> , 2020, 133, 2343-2353.	3.6	31
110	â€Dusterâ€™™ Wheat: A Durable, Dualâ€™Purpose Cultivar Adapted to the Southern Great Plains of the USA. <i>Journal of Plant Registrations</i> , 2012, 6, 37-48.	0.5	30
111	A High-Density SNP and SSR Consensus Map Reveals Segregation Distortion Regions in Wheat. <i>BioMed Research International</i> , 2015, 2015, 1-10.	1.9	30
112	Title is missing!. <i>Euphytica</i> , 2000, 112, 15-22.	1.2	29
113	Molecular markers for wheat leaf rust resistance gene Lr41. <i>Molecular Breeding</i> , 2009, 23, 311-321.	2.1	29
114	Lesion mimic associates with adult plant resistance to leaf rust infection in wheat. <i>Theoretical and Applied Genetics</i> , 2009, 119, 13-21.	3.6	29
115	Genome-wide Association Analysis of Powdery Mildew Resistance in U.S. Winter Wheat. <i>Scientific Reports</i> , 2017, 7, 11743.	3.3	29
116	Cloning of the broadly effective wheat leaf rust resistance gene Lr42 transferred from <i>Aegilops tauschii</i> . <i>Nature Communications</i> , 2022, 13, .	12.8	29
117	Quantitative Trait Loci for Aluminum Resistance in Wheat Cultivar Chinese Spring. <i>Plant and Soil</i> , 2006, 283, 239-249.	3.7	28
118	Using Next Generation Sequencing for Multiplexed Trait-Linked Markers in Wheat. <i>PLoS ONE</i> , 2015, 10, e0143890.	2.5	28
119	Single Nucleotide Polymorphisms in HSP17.8 and Their Association with Agronomic Traits in Barley. <i>PLoS ONE</i> , 2013, 8, e56816.	2.5	27
120	Quantitative Trait Loci for Fusarium Head Blight Resistance in Huangcandou Ã— â€™Jaggerâ€™™ Wheat Population. <i>Crop Science</i> , 2014, 54, 2520-2528.	1.8	27
121	Genome-wide association analysis identified SNPs closely linked to a gene resistant to Soil-borne wheat mosaic virus. <i>Theoretical and Applied Genetics</i> , 2014, 127, 1039-1047.	3.6	27
122	Identification of new sources of aluminum resistance in wheat. <i>Plant and Soil</i> , 2007, 297, 105-118.	3.7	26
123	Consensus Mapping and Identification of Markers for Markerâ€™Assisted Selection of <i>Wsm2</i> in Wheat. <i>Crop Science</i> , 2012, 52, 720-728.	1.8	26
124	The <i>Lr46</i> Gene Conditions Partial Adultâ€™Plant Resistance to Stripe Rust, Stem Rust, and Powdery Mildew in Thatcher Wheat. <i>Crop Science</i> , 2015, 55, 2557-2565.	1.8	26
125	Single nucleotide polymorphism markers linked to QTL for wheat yield traits. <i>Euphytica</i> , 2015, 206, 89-101.	1.2	26
126	Multiple Minor QTLs Are Responsible for Fusarium Head Blight Resistance in Chinese Wheat Landrace Haiyanzhong. <i>PLoS ONE</i> , 2016, 11, e0163292.	2.5	26



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127	Mapping of Quantitative Trait Loci for Leaf Rust Resistance in the Wheat Population Ning7840 Å– Clark. <i>Plant Disease</i> , 2017, 101, 1974-1979.	1.4	26
128	Meta-analysis of QTL for Fusarium head blight resistance in Chinese wheat landraces. <i>Crop Journal</i> , 2019, 7, 784-798.	5.2	26
129	Identification of conserved and novel miRNAs responsive to heat stress in flowering Chinese cabbage using high-throughput sequencing. <i>Scientific Reports</i> , 2019, 9, 14922.	3.3	26
130	Deletion of a Chromosome Arm Altered Wheat Resistance to Fusarium Head Blight and Deoxynivalenol Accumulation in Chinese Spring. <i>Plant Disease</i> , 2006, 90, 1545-1549.	1.4	25
131	Starch Waxiness in Hexaploid Wheat ( <i>Triticum aestivum</i> L.) by NIR Reflectance Spectroscopy. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 4002-4008.	5.2	25
132	Development and Validation of KASP Markers for Wheat Streak Mosaic Virus Resistance Gene <i>Wsm2</i> . <i>Crop Science</i> , 2017, 57, 340-349.	1.8	25
133	Genetic Diversity of <i>Cynodon transvaalensis</i> Burt-Davy and Its Relatedness to Hexaploid <i>C. dactylon</i> (L.) Pers. as Indicated by AFLP Markers. <i>Crop Science</i> , 2005, 45, 848-853.	1.8	24
134	Mapping of QTL for partial resistance to powdery mildew in two Chinese common wheat cultivars. <i>Euphytica</i> , 2020, 216, 1.	1.2	24
135	Genetic diversity in the U.S. hard red winter wheat cultivars as revealed by microsatellite markers. <i>Crop and Pasture Science</i> , 2009, 60, 16.	1.5	23
136	Quantitative Trait Loci for Resistance to <i>Pyrenophora tritici-repentis</i> Race 1 in a Chinese Wheat. <i>Phytopathology</i> , 2010, 100, 468-473.	2.2	23
137	Dissection of genetic components of preharvest sprouting resistance in white wheat. <i>Molecular Breeding</i> , 2011, 27, 511-523.	2.1	23
138	Mapping quantitative trait loci for plant adaptation and morphology traits in wheat using single nucleotide polymorphisms. <i>Euphytica</i> , 2016, 208, 299-312.	1.2	23
139	Assessing the genetic diversity and characterizing genomic regions conferring Tan Spot resistance in cultivated rye. <i>PLoS ONE</i> , 2019, 14, e0214519.	2.5	23
140	Identification of powdery mildew resistance loci in wheat by integrating genome-wide association study (GWAS) and linkage mapping. <i>Crop Journal</i> , 2019, 7, 294-306.	5.2	23
141	Development of Single Nucleotide Polymorphism Markers for the Wheat Curl Mite Resistance Gene <i>Cmc4</i> . <i>Crop Science</i> , 2019, 59, 1567-1575.	1.8	23
142	Development and optimization of a CRISPR-mediated gene editing system to improve Fusarium head blight resistance in wheat. <i>Plant Biotechnology Journal</i> , 2022, 20, 1018-1020.	8.3	23
143	Molecular Mapping of Wheat Leaf Rust Resistance Gene <i>Lr42</i> . <i>Crop Science</i> , 2010, 50, 59-66.	1.8	22
144	Validation of quantitative trait loci for aluminum tolerance in Chinese wheat landrace FSW. <i>Euphytica</i> , 2013, 192, 171-179.	1.2	21

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145	Identification of Novel Powdery Mildew Resistance Sources in Wheat. <i>Crop Science</i> , 2016, 56, 1817-1830.	1.8	21
146	Comparative Analysis of miRNA Expression Profiles between Heat-Tolerant and Heat-Sensitive Genotypes of Flowering Chinese Cabbage Under Heat Stress Using High-Throughput Sequencing. <i>Genes</i> , 2020, 11, 264.	2.4	21
147	Quantitative Trait Loci for Fusarium Head Blight Resistance in U.S. Hard Winter Wheat Cultivar Heyne. <i>Crop Science</i> , 2012, 52, 1187-1194.	1.8	20
148	Registration of "NE06545"™ (Husker Genetics Brand Freeman) Hard Red Winter Wheat. <i>Journal of Plant Registrations</i> , 2014, 8, 279-284.	0.5	20
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151	Registration of "Byrd"™ Wheat. <i>Journal of Plant Registrations</i> , 2012, 6, 302-305.	0.5	19
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153	A QTL for early heading in wheat cultivar Suwon 92. <i>Euphytica</i> , 2006, 146, 233-237.	1.2	18
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165	Association Study of Resistance to <i>Soilborne wheat mosaic virus</i> in U.S. Winter Wheat. <i>Phytopathology</i> , 2011, 101, 1322-1329.	2.2	15
166	Genetics of Leaf Rust Resistance in the Winter Wheat Line CI13227. <i>Crop Science</i> , 2012, 52, 2166-2172.	1.8	15
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168	Quantitative Trait Loci for Slow-Rusting Resistance to Leaf Rust in Doubled-Haploid Wheat Population CI13227 Å– Lakin. <i>Phytopathology</i> , 2017, 107, 1372-1380.	2.2	15
169	High-resolution genome-wide association study and genomic prediction for disease resistance and cold tolerance in wheat. <i>Theoretical and Applied Genetics</i> , 2021, 134, 2857-2873.	3.6	15
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171	Registration of "Intrada"™ Wheat. <i>Crop Science</i> , 2003, 43, 1135-1136.	1.8	14
172	Effect of Fusarium Head Blight Resistance Gene Fhb1 on Agronomic and End-Use Quality Traits of Hard Red Winter Wheat. <i>Crop Science</i> , 2013, 53, 793-801.	1.8	14
173	Molecular marker dissection of stem rust resistance in Nebraska bread wheat germplasm. <i>Scientific Reports</i> , 2019, 9, 11694.	3.3	14
174	Registration of "NI04421"™ Hard Red Winter Wheat. <i>Journal of Plant Registrations</i> , 2012, 6, 54-59.	0.5	14
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177	Registration of "Antero"™ Wheat. <i>Journal of Plant Registrations</i> , 2014, 8, 165-168.	0.5	13
178	Effective marker alleles associated with type 2 resistance to Fusarium head blight infection in fields. <i>Breeding Science</i> , 2016, 66, 350-357.	1.9	13
179	Quantitative trait loci for Fusarium head blight resistance in wheat cultivars Yangmai 158 and Zhengmai 9023. <i>Crop Journal</i> , 2021, 9, 143-153.	5.2	13
180	Registration of "Ok101"™ Wheat. <i>Crop Science</i> , 2003, 43, 2298-2299.	1.8	12

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183	Reassigning Hessian fly resistance genes <i>H7</i> and <i>H8</i> to chromosomes 6A and 2B of the wheat cultivar "Seneca"™ using genotyping-by-sequencing. <i>Crop Science</i> , 2020, 60, 1488-1498.	1.8	12
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186	Registration of "Denali"™ Wheat. <i>Journal of Plant Registrations</i> , 2012, 6, 311-314.	0.5	12
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188	Evaluation and Reselection of Wheat Resistance to Russian Wheat Aphid Biotype 2. <i>Crop Science</i> , 2015, 55, 695-701.	1.8	11
189	Registration of OK05312, a High-Yielding Hard Winter Wheat Donor of <i>Cmc4</i> for Wheat Curl Mite Resistance. <i>Journal of Plant Registrations</i> , 2016, 10, 75-79.	0.5	11
190	Biofortification of Hard Red Winter Wheat by Genes Conditioning Low Phytate and High Grain Protein Concentration. <i>Crop Science</i> , 2018, 58, 1942-1953.	1.8	11
191	Characterization of wheat curl mite resistance gene <i>Cmc4</i> in OK05312. <i>Theoretical and Applied Genetics</i> , 2021, 134, 993-1005.	3.6	11
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194	Registration of "Brawl CL Plus"™ Wheat. <i>Journal of Plant Registrations</i> , 2012, 6, 306-310.	0.5	11
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197	Registration of Near-Isogenic Winter Wheat Germplasm Contrasting in <i>Fhb1</i> for Fusarium Head Blight Resistance. <i>Journal of Plant Registrations</i> , 2014, 8, 106-108.	0.5	10
198	A Backcross Line of Thatcher Wheat with Adult Plant Leaf Rust Resistance Derived from Duster Wheat has <i>Lr46</i> and <i>Lr77</i> . <i>Phytopathology</i> , 2019, 109, 127-132.	2.2	10

#	ARTICLE	IF	CITATIONS
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200	Genetic dissection of heat-responsive physiological traits to improve adaptation and increase yield potential in soft winter wheat. <i>BMC Genomics</i> , 2020, 21, 315.	2.8	10
201	Identification of a major QTL for Hessian fly resistance in wheat cultivar "Chokwang". <i>Crop Journal</i> , 2022, 10, 775-782.	5.2	10
202	Registration of "Bill Brown" Wheat. <i>Journal of Plant Registrations</i> , 2008, 2, 218-223.	0.5	10
203	Multi-trait genomic prediction using in-season physiological parameters increases prediction accuracy of complex traits in US wheat. <i>BMC Genomics</i> , 2022, 23, 298.	2.8	10
204	Genomic prediction of Fusarium head blight resistance in early stages using advanced breeding lines in hard winter wheat. <i>Crop Journal</i> , 2022, 10, 1695-1704.	5.2	10
205	Registration of "Avery" Hard Red Winter Wheat. <i>Journal of Plant Registrations</i> , 2018, 12, 362-366.	0.5	9
206	Persistence of rye ( <i>Secale cereale</i> L.) chromosome arm 1RS in wheat ( <i>Triticum aestivum</i> L.) breeding programs of the Great Plains of North America. <i>Genetic Resources and Crop Evolution</i> , 2019, 66, 941-950.	1.6	9
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208	Registration of "Judee" Wheat. <i>Journal of Plant Registrations</i> , 2013, 7, 191-194.	0.5	9
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218	Characterization of Rsg2.a3: A new greenbug resistance allele at the Rsg2 locus from wild barley ( <i>Hordeum vulgare</i> ssp. <i>spontaneum</i> ). <i>Crop Journal</i> , 2022, 10, 1727-1732.	5.2	8
219	Registration of "OK Bullet"™ Wheat. <i>Crop Science</i> , 2006, 46, 2322-2324.	1.8	7
220	A Single Amino Acid Substitution in the Intervening Region of 129K Protein of Cucumber Green Mottle Mosaic Virus Resulted in Attenuated Symptoms. <i>Phytopathology</i> , 2020, 110, 146-152.	2.2	7
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222	Characterization of an Incomplete Leaf Rust Resistance Gene on Chromosome 1RS and Development of KASP Markers for <i>Lr47</i> in Wheat. <i>Phytopathology</i> , 2021, 111, 649-658.	2.2	7
223	<i>Lr47</i> : A new allele conferring unique resistance to greenbug Biotype H at the <i>Rsg1</i> locus in <i>Hordeum vulgare</i> ssp. <i>spontaneum</i> . <i>Crop Science</i> , 2021, 61, 3578-3585.	1.8	7
224	Precise mapping of QTL for Hessian fly resistance in the hard winter wheat cultivar "Overland"™. <i>Theoretical and Applied Genetics</i> , 2021, 134, 3951-3962.	3.6	7
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226	A combination of leaf rust resistance gene Lr34 and lesion mimic gene <i>lm</i> significantly enhances adult plant resistance to <i>Puccinia triticina</i> in wheat. <i>Science Bulletin</i> , 2012, 57, 2113-2119.	1.7	6
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228	A Fast Silver Staining Protocol Enabling Simple and Efficient Detection of SSR Markers using a Non-denaturing Polyacrylamide Gel. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	6
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230	Development of KASP markers for wheat greenbug resistance gene Gb5. <i>Crop Science</i> , 2021, 61, 490-499.	1.8	6
231	Registration of "Darrell"™ Wheat. <i>Journal of Plant Registrations</i> , 2008, 2, 115-121.	0.5	6
232	Genetic diversity in conventional and synthetic wheats with drought and salinity tolerance based on AFLP. <i>Canadian Journal of Plant Science</i> , 2007, 87, 691-702.	0.9	5
233	Registration of "TAM 305"™ Hard Red Winter Wheat. <i>Journal of Plant Registrations</i> , 2015, 9, 325-330.	0.5	5
234	High-throughput development of genome-wide locus-specific informative SSR markers in wheat. <i>Science China Life Sciences</i> , 2017, 60, 671-673.	4.9	5

#	ARTICLE	IF	CITATIONS
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237	Impact of Transient Heat Stress on Polar Lipid Metabolism in Seedlings of Wheat Near-Isogenic Lines Contrasting in Resistance to Hessian Fly ( <i>Cecidomyiidae</i> ) Infestation. <i>Journal of Economic Entomology</i> , 2014, 107, 2196-2203.	1.8	4
238	Registration of "Northern"™ Hard Red Winter Wheat. <i>Journal of Plant Registrations</i> , 2016, 10, 135-138.	0.5	4
239	Wheat streak mosaic virus resistance in eight wheat germplasm lines. <i>Plant Breeding</i> , 2016, 135, 26-30.	1.9	4
240	Identification of a major QTL for flag leaf glaucousness using a high-density SNP marker genetic map in hexaploid wheat. <i>Journal of Integrative Agriculture</i> , 2017, 16, 445-453.	3.5	4
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242	Registration of "Loma"™ Hard Red Winter Wheat. <i>Journal of Plant Registrations</i> , 2017, 11, 281-284.	0.5	4
243	A New Chloroplast DNA Extraction Protocol Significantly Improves the Chloroplast Genome Sequence Quality of Foxtail Millet ( <i>Setaria italica</i> (L.) P. Beauv.). <i>Scientific Reports</i> , 2019, 9, 16227.	3.3	4
244	Registration of "NE10589"™ (Husker Genetics Brand Ruth) hard red winter wheat. <i>Journal of Plant Registrations</i> , 2020, 14, 388-397.	0.5	4
245	Registration of "Alice"™ Wheat. <i>Journal of Plant Registrations</i> , 2008, 2, 110-114.	0.5	4
246	Registration of "Bearpaw"™ Wheat. <i>Journal of Plant Registrations</i> , 2013, 7, 180-183.	0.5	4
247	Registration of "NE05548"™ (Husker Genetics Brand Panhandle) Hard Red Winter Wheat. <i>Journal of Plant Registrations</i> , 2016, 10, 276-282.	0.5	4
248	Construction of dense linkage maps on the fly using early generation wheat breeding populations. <i>Molecular Breeding</i> , 2014, 34, 1281-1300.	2.1	3
249	Registration of "Langin"™ Hard Red Winter Wheat. <i>Journal of Plant Registrations</i> , 2018, 12, 232-236.	0.5	3
250	Registration of "Matterhorn"™ Hard White Waxy Winter Wheat. <i>Journal of Plant Registrations</i> , 2019, 13, 207-211.	0.5	3
251	"Gallagher"™ and "Iba"™ hard red winter wheat: Half-sibs inseparable by yield gain, separable by producer preference. <i>Journal of Plant Registrations</i> , 2021, 15, 177-195.	0.5	3
252	Effect of wheat quality traits and glutenin composition on tortilla quality from the USDA Southern Regional Performance Nursery. <i>Cereal Chemistry</i> , 0, , .	2.2	3

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254	Resistance to Wheat streak mosaic virus and Triticum mosaic virus in wheat lines carrying Wsm1 and Wsm3. European Journal of Plant Pathology, 2017, 147, 709-712.	1.7	2
255	Registration of "Tatanka"™ Hard Red Winter Wheat. Journal of Plant Registrations, 2018, 12, 74-78.	0.5	2
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259	Registration of "KS Silverado"™ hard white winter wheat. Journal of Plant Registrations, 2021, 15, 147-153.	0.5	2
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262	Genetic architecture of the high inorganic phosphate phenotype derived from a low phytate mutant in winter wheat ( <i>Triticum aestivum</i> L.). Crop Science, 0, , .	1.8	2
263	The Black Necrotic Lesion Enhanced Fusarium graminearum Resistance in Wheat. Frontiers in Plant Science, 0, 13, .	3.6	2
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265	Registration of "Bobcat"™ hard red winter wheat. Journal of Plant Registrations, 2020, 14, 371-376.	0.5	1
266	Characterization of PmBN418 , a wheat powdery mildew resistance gene on the rye 1RS chromosome arm. Crop Science, 2021, 61, 4194.	1.8	1
267	Registration of "Guymon"™ Wheat. Journal of Plant Registrations, 2008, 2, 33-35.	0.5	1
268	Registration of "NE01481"™ Hard Red Winter Wheat. Journal of Plant Registrations, 2012, 6, 49-53.	0.5	1
269	Registration of "Colter"™ Wheat. Journal of Plant Registrations, 2014, 8, 285-287.	0.5	1
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274	Registration of "Flathead"™ hard red winter wheat. <i>Journal of Plant Registrations</i> , 2020, 14, 418-423.	0.5	0
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