Guihua Bai

List of Publications by Year in Descending Order

262 papers	8,702 citations	47 h-index	83 g-index
280 ext. papers	11,267 ext. citations	4 avg, IF	6.03 L-index

#	Paper	IF	Citations
262	A natural variation in Ribonuclease H-like gene underlies Rht8 to confer "Green Revolution" trait in wheat.. *Molecular Plant*, **2022**,	14.4	2
261	Identification of a novel major QTL from Chinese wheat cultivar Ji5265 for Fusarium head blight resistance in greenhouse.. *Theoretical and Applied Genetics*, **2022**, 1	6	1
260	Characterization of Rsg2.a3: A new greenbug resistance allele at the Rsg2 locus from wild barley (Hordeum vulgare ssp. spontaneum). *Crop Journal*, **2022**,	4.6	1
259	Genotyping-by-Sequencing Based Molecular Genetic Diversity of Pakistani Bread Wheat (L.) Accessions.. *Frontiers in Genetics*, **2022**, 13, 772517	4.5	
258	Multi-trait genomic prediction using in-season physiological parameters increases prediction accuracy of complex traits in US wheat.. *BMC Genomics*, **2022**, 23, 298	4.5	0
257	Registration of KS Western Star hard red winter wheat. *Journal of Plant Registrations*, **2021**, 15, 140-146	0.7	0
256	Registration of KS Dallas hard red winter wheat. *Journal of Plant Registrations*, **2021**, 15, 154-160	0.7	0
255	Development of diagnostic markers for a wheat leaf rust resistance gene Lr42 using RNA-sequencing. *Crop Journal*, **2021**, 9, 1357-1357	4.6	2
254	High-resolution genome-wide association study and genomic prediction for disease resistance and cold tolerance in wheat. *Theoretical and Applied Genetics*, **2021**, 134, 2857-2873	6	5
253	Characterization of the genetic basis of local adaptation of wheat landraces from Iran and Pakistan using genome-wide association study. *Plant Genome*, **2021**, 14, e20096	4.4	1
252	Quantitative trait loci for Fusarium head blight resistance in wheat cultivars Yangmai 158 and Zhengmai 9023. *Crop Journal*, **2021**, 9, 143-153	4.6	2
251	Characterization of an Incomplete Leaf Rust Resistance Gene on Chromosome 1RS and Development of KASP Markers for in Wheat. *Phytopathology*, **2021**, 111, 649-658	3.8	2
250	Development of KASP markers for wheat greenbug resistance gene Gb5. *Crop Science*, **2021**, 61, 490-499	2.4	1
249	Genetic analysis of end-use quality traits in wheat. *Crop Science*, **2021**, 61, 1709-1723	2.4	2
248	Integration of meta-QTL discovery with omics: Towards a molecular breeding platform for improving wheat resistance to Fusarium head blight. *Crop Journal*, **2021**, 9, 739-749	4.6	15
247	Artificial selection in breeding extensively enriched a functional allelic variation in TaPHS1 for pre-harvest sprouting resistance in wheat. *Theoretical and Applied Genetics*, **2021**, 134, 339-350	6	0
246	Registration of KS Silverado hard white winter wheat. *Journal of Plant Registrations*, **2021**, 15, 147-153	0.7	0

245	Gallagher and Ibarhard red winter wheat: Half-sibs inseparable by yield gain, separable by producer preference. *Journal of Plant Registrations*, **2021**, 15, 177-195	0.7	0
244	Characterization of wheat curl mite resistance gene Cmc4 in OK05312. *Theoretical and Applied Genetics*, **2021**, 134, 993-1005	6	3
243	Expanding the range of editable targets in the wheat genome using the variants of the Cas12a and Cas9 nucleases. *Plant Biotechnology Journal*, **2021**, 19, 2428-2441	11.6	7
242	Rsg1.a3: A new allele conferring unique resistance to greenbug Biotype H at the Rsg1 locus in Hordeum vulgare ssp. spontaneum. *Crop Science*, **2021**, 61, 3578-3585	2.4	1
241	Characterization of PmBN418, a wheat powdery mildew resistance gene on the rye 1RS chromosome arm. *Crop Science*, **2021**, 61, 4194	2.4	
240	Precise mapping of QTL for Hessian fly resistance in the hard winter wheat cultivar 'Overland'. *Theoretical and Applied Genetics*, **2021**, 134, 3951-3962	6	2
239	Identification of candidate chromosome region of Sbwm1 for Soil-borne wheat mosaic virus resistance in wheat. *Scientific Reports*, **2020**, 10, 8119	4.9	2
238	Identification of two novel Hessian fly resistance genes H35 and H36 in a hard winter wheat line SD06165. *Theoretical and Applied Genetics*, **2020**, 133, 2343-2353	6	14
237	Development of an Evaluation System for Resistance in Wheat Grains and Its Application in Assessment of the Corresponding Effects of. *Plant Disease*, **2020**, 104, 2210-2216	1.5	3
236	Reassigning Hessian fly resistance genes H7 and H8 to chromosomes 6A and 2B of the wheat cultivar Seneca using genotyping-by-sequencing. *Crop Science*, **2020**, 60, 1488-1498	2.4	6
235	Comparative Analysis of miRNA Expression Profiles Between Heat-Tolerant and Heat-Sensitive Genotypes of Flowering Chinese Cabbage Under Heat Stress Using High-Throughput Sequencing. *Genes*, **2020**, 11,	4.2	9
234	Registration of Bobcat hard red winter wheat. *Journal of Plant Registrations*, **2020**, 14, 371-376	0.7	0
233	The Hessian fly recessive resistance gene h4 mapped to chromosome 1A of the wheat cultivar 'Java' using genotyping-by-sequencing. *Theoretical and Applied Genetics*, **2020**, 133, 2927-2935	6	4
232	Registration of KS Venada hard white winter wheat. *Journal of Plant Registrations*, **2020**, 14, 153-158	0.7	1
231	Increased Prediction Accuracy Using Combined Genomic Information and Physiological Traits in A Soft Wheat Panel Evaluated in Multi-Environments. *Scientific Reports*, **2020**, 10, 7023	4.9	7
230	Horizontal gene transfer of from fungus underlies head blight resistance in wheat. *Science*, **2020**, 368,	33.3	158
229	Mapping of QTL for partial resistance to powdery mildew in two Chinese common wheat cultivars. *Euphytica*, **2020**, 216, 1	2.1	9
228	High-Resolution Genome-wide Association Study Identifies Genomic Regions and Candidate Genes for Important Agronomic Traits in Wheat. *Molecular Plant*, **2020**, 13, 1311-1327	14.4	36

227	Genomic diversity in pearl millet inbred lines derived from landraces and improved varieties. *BMC Genomics*, **2020**, 21, 469	4.5	7
226	Registration of NE10589 (Husker Genetics Brand Ruth) hard red winter wheat. *Journal of Plant Registrations*, **2020**, 14, 388-397	0.7	1
225	Registration of Blathead hard red winter wheat. *Journal of Plant Registrations*, **2020**, 14, 418-423	0.7	
224	Multiplex restriction amplicon sequencing: a novel next-generation sequencing-based marker platform for high-throughput genotyping. *Plant Biotechnology Journal*, **2020**, 18, 254-265	11.6	5
223	A Single Amino Acid Substitution in the Intervening Region of 129K Protein of Cucumber Green Mottle Mosaic Virus Resulted in Attenuated Symptoms. *Phytopathology*, **2020**, 110, 146-152	3.8	4
222	Non-coding RNAs: Functional roles in the regulation of stress response in Brassica crops. *Genomics*, **2020**, 112, 1419-1424	4.3	20
221	Genetic dissection of heat-responsive physiological traits to improve adaptation and increase yield potential in soft winter wheat. *BMC Genomics*, **2020**, 21, 315	4.5	6
220	Molecular cytogenetic characterization of a novel wheat-Psathyrostachys huashanica Keng T3DS-5NsL·5NsS and T5DL-3DS·3DL dual translocation line with powdery mildew resistance. *BMC Plant Biology*, **2020**, 20, 163	5.3	6
219	Assessing the genetic diversity and characterizing genomic regions conferring Tan Spot resistance in cultivated rye. *PLoS ONE*, **2019**, 14, e0214519	3.7	9
218	Fine Mapping of the Wheat Leaf Rust Resistance Gene. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	16
217	Gene editing of the wheat homologs of TONNEAU1-recruiting motif encoding gene affects grain shape and weight in wheat. *Plant Journal*, **2019**, 100, 251-264	6.9	41
216	A deletion mutation in TaHRC confers Fhb1 resistance to Fusarium head blight in wheat. *Nature Genetics*, **2019**, 51, 1099-1105	36.3	127
215	Registration of SourOsix Hard Red Winter Wheat. *Journal of Plant Registrations*, **2019**, 13, 383-386	0.7	2
214	Identification of powdery mildew resistance loci in wheat by integrating genome-wide association study (GWAS) and linkage mapping. *Crop Journal*, **2019**, 7, 294-306	4.6	16
213	Development of Single Nucleotide Polymorphism Markers for the Wheat Curl Mite Resistance Gene Cmc4. *Crop Science*, **2019**, 59, 1567-1575	2.4	14
212	Persistence of rye (Secale cereale L.) chromosome arm 1RS in wheat (Triticum aestivum L.) breeding programs of the Great Plains of North America. *Genetic Resources and Crop Evolution*, **2019**, 66, 941-950	2	3
211	Development and identification of a dwarf wheat-Leymus mollis double substitution line with resistance to yellow rust and Fusarium head blight. *Crop Journal*, **2019**, 7, 516-526	4.6	3
210	A Backcross Line of Thatcher Wheat with Adult Plant Leaf Rust Resistance Derived from Duster Wheat has Lr46 and Lr77. *Phytopathology*, **2019**, 109, 127-132	3.8	8

209	Molecular marker dissection of stem rust resistance in Nebraska bread wheat germplasm. *Scientific Reports*, **2019**, 9, 11694	4.9	7
208	Breeding wheat for resistance to Fusarium head blight in the Global North: China, USA, and Canada. *Crop Journal*, **2019**, 7, 730-738	4.6	52
207	Thatcher wheat line RL6149 carries Lr64 and a second leaf rust resistance gene on chromosome 1DS. *Theoretical and Applied Genetics*, **2019**, 132, 2809-2814	6	8
206	Meta-analysis of QTL for Fusarium head blight resistance in Chinese wheat landraces. *Crop Journal*, **2019**, 7, 784-798	4.6	15
205	Identification of a candidate gene for a QTL for spikelet number per spike on wheat chromosome arm 7AL by high-resolution genetic mapping. *Theoretical and Applied Genetics*, **2019**, 132, 2689-2705	6	47
204	Identification of conserved and novel miRNAs responsive to heat stress in flowering Chinese cabbage using high-throughput sequencing. *Scientific Reports*, **2019**, 9, 14922	4.9	9
203	A New Chloroplast DNA Extraction Protocol Significantly Improves the Chloroplast Genome Sequence Quality of Foxtail Millet (Setaria italica (L.) P. Beauv.). *Scientific Reports*, **2019**, 9, 16227	4.9	3
202	Genetic Diversity, Population Structure, and Linkage Disequilibrium of Pearl Millet. *Plant Genome*, **2019**, 12, 1-12	4.4	19
201	Allelochemicals targeted to balance competing selections in African agroecosystems. *Nature Plants* , **2019**, 5, 1229-1236	11.5	17
200	Understanding the Genetic Basis of Spike Fertility to Improve Grain Number, Harvest Index, and Grain Yield in Wheat Under High Temperature Stress Environments. *Frontiers in Plant Science*, **2019**, 10, 1481	6.2	20
199	Registration of Matterhorn Hard White Waxy Winter Wheat. *Journal of Plant Registrations*, **2019**, 13, 207-211	0.7	0
198	Imputation accuracy of wheat genotyping-by-sequencing (GBS) data using barley and wheat genome references. *PLoS ONE*, **2019**, 14, e0208614	3.7	19
197	A Fast Silver Staining Protocol Enabling Simple and Efficient Detection of SSR Markers using a Non-denaturing Polyacrylamide Gel. *Journal of Visualized Experiments*, **2018**,	1.6	3
196	Mapping and characterization of the new adult plant leaf rust resistance gene Lr77 derived from Santa Fe winter wheat. *Theoretical and Applied Genetics*, **2018**, 131, 1553-1560	6	28
195	Adult Plant Leaf Rust Resistance Derived from Toropi Wheat is Conditioned by Lr78 and Three Minor QTL. *Phytopathology*, **2018**, 108, 246-253	3.8	25
194	Biofortification of Hard Red Winter Wheat by Genes Conditioning Low Phytate and High Grain Protein Concentration. *Crop Science*, **2018**, 58, 1942-1953	2.4	7
193	Development and validation of diagnostic markers for Fhb1 region, a major QTL for Fusarium head blight resistance in wheat. *Theoretical and Applied Genetics*, **2018**, 131, 2371-2380	6	40
192	QTL mapping of pre-harvest sprouting resistance in a white wheat cultivar Danby. *Theoretical and Applied Genetics*, **2018**, 131, 1683-1697	6	20

191	Registration of Tatanka Hard Red Winter Wheat. *Journal of Plant Registrations*, **2018**, 12, 74-78	0.7	2
190	Registration of Great Plains Adapted Reduced Phytate Winter Wheat Germplasm. *Journal of Plant Registrations*, **2018**, 12, 405-410	0.7	2
189	Registration of Avery Hard Red Winter Wheat. *Journal of Plant Registrations*, **2018**, 12, 362-366	0.7	6
188	Registration of Langin Hard Red Winter Wheat. *Journal of Plant Registrations*, **2018**, 12, 232-236	0.7	2
187	Effects of TaPHS1 and TaMKK3-A Genes on Wheat Pre-Harvest Sprouting Resistance. *Agronomy*, **2018**, 8, 210	3.6	3
186	Pm223899, a new recessive powdery mildew resistance gene identified in Afghanistan landrace PI 223899. *Theoretical and Applied Genetics*, **2018**, 131, 2775-2783	6	13
185	Wheat resistance to Fusarium head blight. *Canadian Journal of Plant Pathology*, **2018**, 40, 336-346	1.6	52
184	Development of a simple and effective silver staining protocol for detection of DNA fragments. *Electrophoresis*, **2017**, 38, 1175-1178	3.6	4
183	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	2.1	1
182	Identification of a major QTL for flag leaf glaucousness using a high-density SNP marker genetic map in hexaploid wheat. *Journal of Integrative Agriculture*, **2017**, 16, 445-453	3.2	3
181	Quantitative Trait Loci for Slow-Rusting Resistance to Leaf Rust in Doubled-Haploid Wheat Population CI13227 Lakin. *Phytopathology*, **2017**, 107, 1372-1380	3.8	9
180	Novel Sources of Leaf Rust Resistance in Winter Wheat. *Crop Science*, **2017**, 57, 865-876	2.4	3
179	High-throughput development of genome-wide locus-specific informative SSR markers in wheat. *Science China Life Sciences*, **2017**, 60, 671-673	8.5	2
178	Genetic variations of HvP5CS1 and their association with drought tolerance related traits in barley (Hordeum vulgare L.). *Scientific Reports*, **2017**, 7, 7870	4.9	16
177	Registration of Sunshine Hard White Winter Wheat. *Journal of Plant Registrations*, **2017**, 11, 289-294	0.7	4
176	Development of EST-SSR markers in flowering Chinese cabbage (Brassica campestris L. ssp. chinensis var. utilis Tsen et Lee) based on de novo transcriptomic assemblies. *PLoS ONE*, **2017**, 12, e0184736	2.7	22
175	Development and Validation of KASP Markers for Wheat Streak Mosaic Virus Resistance Gene Wsm2. *Crop Science*, **2017**, 57, 340-349	2.4	16
174	Genome-wide Association Analysis of Powdery Mildew Resistance in U.S. Winter Wheat. *Scientific Reports*, **2017**, 7, 11743	4.9	17

173	Mapping of Quantitative Trait Loci for Leaf Rust Resistance in the Wheat Population Ning7840 □ Clark. *Plant Disease*, **2017**, 101, 1974-1979	1.5	13
172	Genome-wide association study reveals genetic architecture of coleoptile length in wheat. *Theoretical and Applied Genetics*, **2017**, 130, 391-401	6	20
171	Registration of □oma□Hard Red Winter Wheat. *Journal of Plant Registrations*, **2017**, 11, 281-284	0.7	2
170	Genotyping-by-Sequencing (GBS) Revealed Molecular Genetic Diversity of Iranian Wheat Landraces and Cultivars. *Frontiers in Plant Science*, **2017**, 8, 1293	6.2	70
169	Genetic diversity among synthetic hexaploid wheat accessions (Triticum aestivum) with resistance to several fungal diseases. *Genetic Resources and Crop Evolution*, **2016**, 63, 1285-1296	2	24
168	Registration of OK05312, a High-Yielding Hard Winter Wheat Donor of Cmc4 for Wheat Curl Mite Resistance. *Journal of Plant Registrations*, **2016**, 10, 75-79	0.7	9
167	Registration of □Northern□Hard Red Winter Wheat. *Journal of Plant Registrations*, **2016**, 10, 135-138	0.7	3
166	A novel nitrogen-dependent gene associates with the lesion mimic trait in wheat. *Theoretical and Applied Genetics*, **2016**, 129, 2075-2084	6	9
165	Compressive Strength Measurements of Single Fibers Using an Improved Automatic Control Method. *Experimental Techniques*, **2016**, 40, 1369-1375	1.4	
164	Genome-wide association analysis on pre-harvest sprouting resistance and grain color in U.S. winter wheat. *BMC Genomics*, **2016**, 17, 794	4.5	45
163	Increasing seed size and quality by manipulating BIG SEEDS1 in legume species. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 12414-12419	11.5	58
162	QTL Mapping for Grain Yield, Flowering Time, and Stay-Green Traits in Sorghum with Genotyping-by-Sequencing Markers. *Crop Science*, **2016**, 56, 1429-1442	2.4	28
161	Mapping quantitative trait loci for plant adaptation and morphology traits in wheat using single nucleotide polymorphisms. *Euphytica*, **2016**, 208, 299-312	2.1	13
160	Wheat streak mosaic virus resistance in eight wheat germplasm lines. *Plant Breeding*, **2016**, 135, 26-30	2.4	4
159	Single nucleotide polymorphism tightly linked to a major QTL on chromosome 7A for both kernel length and kernel weight in wheat. *Molecular Breeding*, **2016**, 36, 1	3.4	29
158	Single nucleotide polymorphisms linked to quantitative trait loci for grain quality traits in wheat. *Crop Journal*, **2016**, 4, 1-11	4.6	23
157	Identification of markers linked to genes for sprouting tolerance (independent of grain color) in hard white winter wheat (HWWW). *Theoretical and Applied Genetics*, **2016**, 129, 419-30	6	12
156	Fusarium head blight resistance loci in a stratified population of wheat landraces and varieties. *Euphytica*, **2016**, 207, 551-561	2.1	13

155	Registration of 'NE05548' (Husker Genetics Brand Panhandle) Hard Red Winter Wheat. *Journal of Plant Registrations*, **2016**, 10, 276-282	0.7	3
154	Registration of 'Joe' Hard White Winter Wheat. *Journal of Plant Registrations*, **2016**, 10, 283-286	0.7	9
153	Identification of Novel Powdery Mildew Resistance Sources in Wheat. *Crop Science*, **2016**, 56, 1817-1830	2.4	14
152	Effective marker alleles associated with type 2 resistance to Fusarium head blight infection in fields. *Breeding Science*, **2016**, 66, 350-7	2	10
151	Multiple Minor QTLs Are Responsible for Fusarium Head Blight Resistance in Chinese Wheat Landrace Haiyanzhong. *PLoS ONE*, **2016**, 11, e0163292	3.7	17
150	End-Use Quality and Agronomic Characteristics Associated with the Glu-B1al High-Molecular-Weight Glutenin Allele in U.S. Hard Winter Wheat. *Crop Science*, **2016**, 56, 2348-2353	2.4	12
149	Genome-Wide Association Mapping Reveals Novel QTL for Seedling Leaf Rust Resistance in a Worldwide Collection of Winter Wheat. *Plant Genome*, **2016**, 9, plantgenome2016.06.0051	4.4	21
148	Candidate gene association mapping for winter survival and spring regrowth in perennial ryegrass. *Plant Science*, **2015**, 235, 37-45	5.3	28
147	Precisely mapping a major gene conferring resistance to Hessian fly in bread wheat using genotyping-by-sequencing. *BMC Genomics*, **2015**, 16, 108	4.5	34
146	Genotyping-by-sequencing (GBS) identified SNP tightly linked to QTL for pre-harvest sprouting resistance. *Theoretical and Applied Genetics*, **2015**, 128, 1385-95	6	53
145	Single nucleotide polymorphism markers linked to QTL for wheat yield traits. *Euphytica*, **2015**, 206, 89-101	2.1	20
144	Evaluation and Reselection of Wheat Resistance to Russian Wheat Aphid Biotype 2. *Crop Science*, **2015**, 55, 695-701	2.4	8
143	The Lr46 Gene Conditions Partial Adult- Plant Resistance to Stripe Rust, Stem Rust, and Powdery Mildew in Thatcher Wheat. *Crop Science*, **2015**, 55, 2557-2565	2.4	18
142	Independent mis-splicing mutations in TaPHS1 causing loss of preharvest sprouting (PHS) resistance during wheat domestication. *New Phytologist*, **2015**, 208, 928-35	9.8	27
141	Using Next Generation Sequencing for Multiplexed Trait-Linked Markers in Wheat. *PLoS ONE*, **2015**, 10, e0143890	3.7	24
140	A High-Density SNP and SSR Consensus Map Reveals Segregation Distortion Regions in Wheat. *BioMed Research International*, **2015**, 2015, 830618	3	26
139	Registration of 'AM 305' Hard Red Winter Wheat. *Journal of Plant Registrations*, **2015**, 9, 325-330	0.7	4
138	Whole-genome resequencing: changing the paradigms of SNP detection, molecular mapping and gene discovery. *Molecular Breeding*, **2015**, 35, 1	3.4	22

137	Identification and genetic mapping of the putative Thinopyrum intermedium-derived dominant powdery mildew resistance gene PmL962 on wheat chromosome arm 2BS. *Theoretical and Applied Genetics*, **2015**, 128, 517-28	6	31
136	Genome-wide association analysis identified SNPs closely linked to a gene resistant to Soil-borne wheat mosaic virus. *Theoretical and Applied Genetics*, **2014**, 127, 1039-47	6	20
135	Construction of dense linkage maps 'on the fly' using early generation wheat breeding populations. *Molecular Breeding*, **2014**, 34, 1281-1300	3.4	3
134	Molecular Markers Linked to Important Genes in Hard Winter Wheat. *Crop Science*, **2014**, 54, 1304-1321	2.4	45
133	'Billings' Wheat Combines Early Maturity, Disease Resistance, and Desirable Grain Quality for the Southern Great Plains, USA. *Journal of Plant Registrations*, **2014**, 8, 22-31	0.7	12
132	Genetic Diversity and Classification of Cytoplasm of Chinese Elite Foxtail Millet [Setaria italica (L.) P. Beauv.] Germplasm. *Crop Science*, **2014**, 54, 659-666	2.4	11
131	Registration of Near-Isogenic Winter Wheat Germplasm Contrasting in Fhb1 for Fusarium Head Blight Resistance. *Journal of Plant Registrations*, **2014**, 8, 106-108	0.7	8
130	Registration of 'Antero' Wheat. *Journal of Plant Registrations*, **2014**, 8, 165-168	0.7	11
129	Association analysis of stem rust resistance in U.S. winter wheat. *PLoS ONE*, **2014**, 9, e103747	3.7	40
128	Registration of 'NE06545' (Husker Genetics Brand Freeman) Hard Red Winter Wheat. *Journal of Plant Registrations*, **2014**, 8, 279-284	0.7	13
127	Quantitative Trait Loci for Fusarium Head Blight Resistance in Huangcandou '/' Dagger' Wheat Population. *Crop Science*, **2014**, 54, 2520-2528	2.4	17
126	Fusarium-damaged kernels and deoxynivalenol in Fusarium-infected U.S. winter wheat. *Phytopathology*, **2014**, 104, 472-8	3.8	29
125	Impact of Transient Heat Stress on Polar Lipid Metabolism in Seedlings of Wheat Near-Isogenic Lines Contrasting in Resistance to Hessian Fly (Cecidomyiidae) Infestation. *Journal of Economic Entomology*, **2014**, 107, 2196-203	2.2	4
124	Registration of 'Mattern' Waxy (Amylose-free) Winter Wheat. *Journal of Plant Registrations*, **2014**, 8, 43-48	0.7	14
123	Registration of 'Cowboy' Wheat. *Journal of Plant Registrations*, **2014**, 8, 169-172	0.7	2
122	Registration of 'Warhorse' Wheat. *Journal of Plant Registrations*, **2014**, 8, 173-176	0.7	5
121	Registration of 'Colter' Wheat. *Journal of Plant Registrations*, **2014**, 8, 285-287	0.7	1
120	Identification of a novel gene, H34, in wheat using recombinant inbred lines and single nucleotide polymorphism markers. *Theoretical and Applied Genetics*, **2013**, 126, 2065-71	6	47

119	Validation of quantitative trait loci for aluminum tolerance in Chinese wheat landrace FSW. *Euphytica*, **2013**, 192, 171-179	2.1	19
118	Cloning and characterization of a critical regulator for preharvest sprouting in wheat. *Genetics*, **2013**, 195, 263-73	4	105
117	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, 8057-62	11.5	719
116	Effect of Fusarium Head Blight Resistance Gene Fhb1 on Agronomic and End-Use Quality Traits of Hard Red Winter Wheat. *Crop Science*, **2013**, 53, 793-801	2.4	11
115	Validation of Molecular Markers for New Stem Rust Resistance Genes in U.S. Hard Winter Wheat. *Crop Science*, **2013**, 53, 755-764	2.4	14
114	Fusarium Head Blight Resistance in U.S. Winter Wheat Cultivars and Elite Breeding Lines. *Crop Science*, **2013**, 53, 2006-2013	2.4	34
113	Evaluation of genetic markers for prediction of preharvest sprouting tolerance in hard white winter wheats. *Plant Breeding*, **2013**, 132, 359-366	2.4	15
112	Single nucleotide polymorphisms in HSP17.8 and their association with agronomic traits in barley. *PLoS ONE*, **2013**, 8, e56816	3.7	23
111	Association of candidate genes with drought tolerance traits in diverse perennial ryegrass accessions. *Journal of Experimental Botany*, **2013**, 64, 1537-51	7	65
110	Differentially expressed proteins associated with Fusarium head blight resistance in wheat. *PLoS ONE*, **2013**, 8, e82079	3.7	33
109	Molecular Markers for Leaf Rust Resistance Gene Lr42 in Wheat. *Crop Science*, **2013**, 53, 1566-1570	2.4	8
108	Registration of 'Bearpaw' Wheat. *Journal of Plant Registrations*, **2013**, 7, 180-183	0.7	4
107	Registration of 'Judee' Wheat. *Journal of Plant Registrations*, **2013**, 7, 191-194	0.7	7
106	Single nucleotide polymorphism in wheat chromosome region harboring Fhb1 for Fusarium head blight resistance. *Molecular Breeding*, **2012**, 29, 477-488	3.4	48
105	Presence of tannins in sorghum grains is conditioned by different natural alleles of Tannin1. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 10281-6	11.5	111
104	'Duster' Wheat: A Durable, Dual-Purpose Cultivar Adapted to the Southern Great Plains of the USA. *Journal of Plant Registrations*, **2012**, 6, 37-48	0.7	26
103	Parallel domestication of the Shattering1 genes in cereals. *Nature Genetics*, **2012**, 44, 720-4	36.3	287
102	Quantitative trait loci responsible for Fusarium head blight resistance in Chinese landrace Baishanyuehuang. *Theoretical and Applied Genetics*, **2012**, 125, 495-502	6	25

101	Quantitative trait loci for resistance to Fusarium head blight in the Chinese wheat landrace Huangfangzhu. *Euphytica*, **2012**, 185, 93-102	2.1	23
100	A combination of leaf rust resistance gene Lr34 and lesion mimic gene lm significantly enhances adult plant resistance to Puccinia triticina in wheat. *Science Bulletin*, **2012**, 57, 2113-2119		5
99	Inheritance and Genetic Mapping of Russian Wheat Aphid Resistance in Iranian Wheat Landrace Accession PI 626580. *Crop Science*, **2012**, 52, 676-682	2.4	32
98	Consensus Mapping and Identification of Markers for Marker-Assisted Selection of Wsm2 in Wheat. *Crop Science*, **2012**, 52, 720-728	2.4	24
97	Quantitative Trait Loci for Fusarium Head Blight Resistance in U.S. Hard Winter Wheat Cultivar Heyne. *Crop Science*, **2012**, 52, 1187-1194	2.4	13
96	Genetics of Leaf Rust Resistance in the Winter Wheat Line CI13227. *Crop Science*, **2012**, 52, 2166-2172	2.4	11
95	Genic and nongenic contributions to natural variation of quantitative traits in maize. *Genome Research*, **2012**, 22, 2436-44	9.7	96
94	Allelic variations of a light harvesting chlorophyll a/b-binding protein gene (Lhcb1) associated with agronomic traits in barley. *PLoS ONE*, **2012**, 7, e37573	3.7	46
93	Registration of 'NE01481' Hard Red Winter Wheat. *Journal of Plant Registrations*, **2012**, 6, 49-53	0.7	1
92	Registration of 'NI04421' Hard Red Winter Wheat. *Journal of Plant Registrations*, **2012**, 6, 54-59	0.7	10
91	Registration of 'Byrd' Wheat. *Journal of Plant Registrations*, **2012**, 6, 302-305	0.7	14
90	Registration of 'Brawl CL Plus' Wheat. *Journal of Plant Registrations*, **2012**, 6, 306-310	0.7	8
89	Registration of 'Denali' Wheat. *Journal of Plant Registrations*, **2012**, 6, 311-314	0.7	10
88	Association of simple sequence repeat (SSR) markers with submergence tolerance in diverse populations of perennial ryegrass. *Plant Science*, **2011**, 180, 391-8	5.3	27
87	Registration of 'Snowmass' Wheat. *Journal of Plant Registrations*, **2011**, 5, 87-90	0.7	37
86	Association study of resistance to Soilborne wheat mosaic virus in U.S. winter wheat. *Phytopathology*, **2011**, 101, 1322-9	3.8	10
85	Regulation of compound leaf development in Medicago truncatula by fused compound leaf1, a class M KNOX gene. *Plant Cell*, **2011**, 23, 3929-43	11.6	44
84	Dissection of genetic components of preharvest sprouting resistance in white wheat. *Molecular Breeding*, **2011**, 27, 511-523	3.4	19

83	A novel quantitative trait locus for Fusarium head blight resistance in chromosome 7A of wheat. *Theoretical and Applied Genetics*, **2011**, 122, 1189-98	6	32
82	Quantitative trait loci for resistance to fusarium head blight in a Chinese wheat landrace Haiyanzhong. *Theoretical and Applied Genetics*, **2011**, 122, 1497-502	6	43
81	Starch waxiness in hexaploid wheat (Triticum aestivum L.) by NIR reflectance spectroscopy. *Journal of Agricultural and Food Chemistry*, **2011**, 59, 4002-8	5.7	22
80	Chromosome size in diploid eukaryotic species centers on the average length with a conserved boundary. *Molecular Biology and Evolution*, **2011**, 28, 1901-11	8.3	19
79	Genetic Diversity and Population Structure of Elite Foxtail Millet [Setaria italica (L.) P. Beauv.] Germplasm in China. *Crop Science*, **2011**, 51, 1655-1663	2.4	31
78	Resistance to Tan Spot and Insensitivity to Ptr ToxA in Wheat. *Crop Science*, **2011**, 51, 1059-1067	2.4	14
77	Registration of NH03614 CL Wheat. *Journal of Plant Registrations*, **2011**, 5, 75-80	0.7	17
76	Genetic Diversity, Population Structure, and Linkage Disequilibrium in U.S. Elite Winter Wheat. *Plant Genome*, **2010**, 3,	4.4	65
75	Mapping Quantitative Trait Loci for Long Coleoptile in Chinese Wheat Landrace Wangshuibai. *Crop Science*, **2010**, 50, 43-50	2.4	15
74	Quantitative trait loci for resistance to Pyrenophora tritici-repentis race 1 in a Chinese wheat. *Phytopathology*, **2010**, 100, 468-73	3.8	21
73	Molecular Mapping of Wheat Leaf Rust Resistance Gene Lr42. *Crop Science*, **2010**, 50, 59-66	2.4	19
72	Control of dissected leaf morphology by a Cys(2)His(2) zinc finger transcription factor in the model legume Medicago truncatula. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 10754-9	11.5	65
71	Mapping quantitative trait loci for quality factors in an inter-class cross of US and Chinese wheat. *Theoretical and Applied Genetics*, **2010**, 120, 1041-51	6	63
70	Dissection and fine mapping of a major QTL for preharvest sprouting resistance in white wheat Rio Blanco. *Theoretical and Applied Genetics*, **2010**, 121, 1395-404	6	24
69	Modeling and mapping QTL for senescence-related traits in winter wheat under high temperature. *Molecular Breeding*, **2010**, 26, 163-175	3.4	140
68	Association analysis reveals effects of wheat glutenin alleles and rye translocations on dough-mixing properties. *Journal of Cereal Science*, **2009**, 50, 283-290	3.8	27
67	Discovery and mapping of single feature polymorphisms in wheat using Affymetrix arrays. *BMC Genomics*, **2009**, 10, 251	4.5	34
66	Molecular markers for wheat leaf rust resistance gene Lr41. *Molecular Breeding*, **2009**, 23, 311-321	3.4	24

65	Lesion mimic associates with adult plant resistance to leaf rust infection in wheat. *Theoretical and Applied Genetics*, **2009**, 119, 13-21	6	27
64	The major threshability genes soft glume (sog) and tenacious glume (Tg), of diploid and polyploid wheat, trace their origin to independent mutations at non-orthologous loci. *Theoretical and Applied Genetics*, **2009**, 119, 341-51	6	64
63	Genetic diversity in the U.S. hard red winter wheat cultivars as revealed by microsatellite markers. *Crop and Pasture Science*, **2009**, 60, 16	2.2	19
62	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, 3531-44	7	280
61	Molecular Mapping of Stem-Rust-Resistance Gene Sr40 in Wheat. *Crop Science*, **2009**, 49, 1681-1686	2.4	49
60	Registration of Thunder CL Wheat. *Journal of Plant Registrations*, **2009**, 3, 181-184	0.7	11
59	Registration of Camelot Wheat. *Journal of Plant Registrations*, **2009**, 3, 256-263	0.7	9
58	Quantitative trait loci for Fusarium head blight resistance in a recombinant inbred population of Wangshuibai/Wheaton. *Phytopathology*, **2008**, 98, 87-94	3.8	63
57	New Fusarium Head Blight-Resistant Sources from Asian Wheat Germplasm. *Crop Science*, **2008**, 48, 1090	2.4	38
56	A major QTL controlling seed dormancy and pre-harvest sprouting resistance on chromosome 4A in a Chinese wheat landrace. *Molecular Breeding*, **2008**, 21, 351-358	3.4	72
55	Quantitative trait loci for aluminum resistance in Chinese wheat landrace FSW. *Theoretical and Applied Genetics*, **2008**, 117, 49-56	6	51
54	Quantitative trait loci for resistance to pre-harvest sprouting in US hard white winter wheat Rio Blanco. *Theoretical and Applied Genetics*, **2008**, 117, 691-9	6	67
53	Diverse origins of aluminum-resistance sources in wheat. *Theoretical and Applied Genetics*, **2008**, 118, 29-41	6	18
52	Registration of Guymon Wheat. *Journal of Plant Registrations*, **2008**, 2, 33-35	0.7	1
51	Registration of NE01643 Wheat. *Journal of Plant Registrations*, **2008**, 2, 36-42	0.7	30
50	Registration of Alice Wheat. *Journal of Plant Registrations*, **2008**, 2, 110-114	0.7	1
49	Registration of Darrell Wheat. *Journal of Plant Registrations*, **2008**, 2, 115-121	0.7	5
48	Registration of Bill Brown Wheat. *Journal of Plant Registrations*, **2008**, 2, 218-223	0.7	9

47	Registration of Ripper Wheat. *Journal of Plant Registrations*, **2007**, 1, 1-6	0.7	32
46	Quantitative trait loci for aluminum resistance in wheat. *Molecular Breeding*, **2007**, 19, 153-161	3.4	47
45	Identification of new sources of aluminum resistance in wheat. *Plant and Soil*, **2007**, 297, 105-118	4.2	26
44	Transcriptional analysis between two wheat near-isogenic lines contrasting in aluminum tolerance under aluminum stress. *Molecular Genetics and Genomics*, **2007**, 277, 1-12	3.1	59
43	Genetic diversity in conventional and synthetic wheats with drought and salinity tolerance based on AFLP. *Canadian Journal of Plant Science*, **2007**, 87, 691-702	1	3
42	Fusarium graminearum-induced changes in gene expression between Fusarium head blight-resistant and susceptible wheat cultivars. *Functional and Integrative Genomics*, **2007**, 7, 69-77	3.8	77
41	Quantitative trait loci for yield and related traits in the wheat population Ning7840 x Clark. *Theoretical and Applied Genetics*, **2006**, 112, 688-98	6	183
40	Marker-assisted characterization of Asian wheat lines for resistance to Fusarium head blight. *Theoretical and Applied Genetics*, **2006**, 113, 308-20	6	45
39	Registration of Infinity CL Wheat. *Crop Science*, **2006**, 46, 975-977	2.4	16
38	Registration of Hallam Wheat. *Crop Science*, **2006**, 46, 977-979	2.4	1
37	Registration of OK Bullet Wheat. *Crop Science*, **2006**, 46, 2322-2324	2.4	7
36	Deletion of a Chromosome Arm Altered Wheat Resistance to Fusarium Head Blight and Deoxynivalenol Accumulation in Chinese Spring. *Plant Disease*, **2006**, 90, 1545-1549	1.5	16
35	Molecular characterization of a powdery mildew resistance gene in wheat cultivar suwon 92. *Phytopathology*, **2006**, 96, 496-500	3.8	12
34	Main effects, epistasis, and environmental interactions of quantitative trait Loci for fusarium head blight resistance in a recombinant inbred population. *Phytopathology*, **2006**, 96, 534-41	3.8	49
33	Genetic Analyses of Chinese Cynodon Accessions by Flow Cytometry and AFLP Markers. *Crop Science*, **2006**, 46, 917-926	2.4	52
32	Quantitative trait loci for resistance to fusarium head blight and deoxynivalenol accumulation in Wangshuibai wheat under field conditions. *Plant Pathology*, **2006**, 55, 739-745	2.8	48
31	Quantitative Trait Loci for Aluminum Resistance in Wheat Cultivar Chinese Spring. *Plant and Soil*, **2006**, 283, 239-249	4.2	27
30	QTLs for Fusarium head blight response in a wheat DH population of Wangshuibai/Alondra' *Euphytica*, **2006**, 146, 183-191	2.1	59

29	A QTL for early heading in wheat cultivar Suwon 92. *Euphytica*, **2006**, 146, 233-237	2.1	16
28	Resistance gene analogs associated with Fusarium head blight resistance in wheat. *Euphytica*, **2006**, 151, 251-261	2.1	8
27	Nylon Filter Arrays Reveal Differential Expression of Expressed Sequence Tags in Wheat Roots Under Aluminum Stress. *Journal of Integrative Plant Biology*, **2005**, 47, 839-848	8.3	6
26	Mapping of QTLs prolonging the latent period of Puccinia triticina infection in wheat. *Theoretical and Applied Genetics*, **2005**, 110, 244-51	6	43
25	Novel quantitative trait loci (QTL) for Fusarium head blight resistance in wheat cultivar Chokwang. *Theoretical and Applied Genetics*, **2005**, 111, 1571-9	6	45
24	Molecular mapping of a quantitative trait locus for aluminum tolerance in wheat cultivar Atlas 66. *Theoretical and Applied Genetics*, **2005**, 112, 51-7	6	70
23	Molecular Characterization of Slow Leaf-Rusting Resistance in Wheat. *Crop Science*, **2005**, 45, 758-765	2.4	42
22	Genetic Diversity of Cynodon transvaalensis Burtt-Davy and Its Relatedness to Hexaploid C. dactylon (L.) Pers. as Indicated by AFLP Markers. *Crop Science*, **2005**, 45, 848-853	2.4	18
21	Covariation for Microsatellite Marker Alleles Associated with Rht8 and Coleoptile Length in Winter Wheat. *Crop Science*, **2004**, 44, 1187-1194	2.4	27
20	Registration of 'Ok102' Wheat. *Crop Science*, **2004**, 44, 1468-1469	2.4	10
19	Molecular characterization of Fusarium head blight resistance in Wangshuibai with simple sequence repeat and amplified fragment length polymorphism markers. *Genome*, **2004**, 47, 1137-43	2.4	57
18	Molecular characterization of Fusarium head blight resistance from wheat variety Wangshuibai. *Euphytica*, **2004**, 139, 59-64	2.1	55
17	Management and resistance in wheat and barley to fusarium head blight. *Annual Review of Phytopathology*, **2004**, 42, 135-61	10.8	555
16	Registration of 'Ok101' Wheat. *Crop Science*, **2003**, 43, 2298-2299	2.4	8
15	Registration of 'Intrada' Wheat. *Crop Science*, **2003**, 43, 1135-1136	2.4	13
14	AFLP and STS tagging of a major QTL for Fusarium head blight resistance in wheat. *Theoretical and Applied Genetics*, **2003**, 106, 1011-7	6	28
13	Validation of a major QTL for scab resistance with SSR markers and use of marker-assisted selection in wheat. *Plant Breeding*, **2003**, 122, 40-46	2.4	95
12	Genetic Relationships among Head Blight Resistant Cultivars of Wheat Assessed on the Basis of Molecular Markers. *Crop Science*, **2003**, 43, 498	2.4	42

11	Genetic analysis of scab resistance QTL in wheat with microsatellite and AFLP markers. *Genome*, **2002**, 45, 719-27	2.4	154
10	Deoxynivalenol-nonproducing fusarium graminearum causes initial infection, but does not cause disease spread in wheat spikes. *Mycopathologia*, **2002**, 153, 91-8	2.9	271
9	Resistance to Fusarium head blight and deoxynivalenol accumulation in wheat. *Plant Breeding*, **2001** , 120, 1-6	2.4	138
8	Host Plant Resistance Genes for Fusarium Head Blight: Mapping and Manipulation with Molecular Markers. *Crop Science*, **2001**, 41, 611-619	2.4	115
7	Genetic diversity in tef [Eragrostis tef (Zucc) Trotter] and its relatives as revealed by Random Amplified Polymorphic DNAs. *Euphytica*, **2000**, 112, 15-22	2.1	22
6	Mapping QTLs for root traits in a recombinant inbred population from two indica ecotypes in rice. *Theoretical and Applied Genetics*, **2000**, 101, 756-766	6	103
5	Inheritance of resistance to Fusarium graminearum in wheat. *Theoretical and Applied Genetics*, **2000** , 100, 1-8	6	102
4	Amplified Fragment Length Polymorphism Analysis of Tef [Eragrostis tef (Zucc.) Trotter]. *Crop Science*, **1999**, 39, 819-824	2.4	26
3	A genetic linkage map of tef [Eragrostis tef (Zucc.) Trotter] based on amplified fragment length polymorphism. *Theoretical and Applied Genetics*, **1999**, 99, 599-604	6	34
2	Amplified fragment length polymorphism markers linked to a major quantitative trait locus controlling scab resistance in wheat. *Phytopathology*, **1999**, 89, 343-8	3.8	222
1	Expanding the range of editable targets in the wheat genome using the variants of the Cas12a and Cas9 nucleases		1