

Matthew P Reynolds

List of Publications by Year in descending order

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Version: 2024-02-01

243
papers

27,837
citations

4653

85
h-index

6643

156
g-index

254
all docs

254
docs citations

254
times ranked

15355
citing authors

#	ARTICLE	IF	CITATIONS
1	Genome-wide association mapping of genotype-environment interactions affecting yield-related traits of spring wheat grown in three watering regimes. <i>Environmental and Experimental Botany</i> , 2022, 194, 104740.	2.0	10
2	Genomic variants affecting homoeologous gene expression dosage contribute to agronomic trait variation in allopolyploid wheat. <i>Nature Communications</i> , 2022, 13, 826.	5.8	31
3	Phenological optimization of late reproductive phase for raising wheat yield potential in irrigated mega-environments. <i>Journal of Experimental Botany</i> , 2022, 73, 4236-4249.	2.4	4
4	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.	1.2	10
5	Prediction of Photosynthetic, Biophysical, and Biochemical Traits in Wheat Canopies to Reduce the Phenotyping Bottleneck. <i>Frontiers in Plant Science</i> , 2022, 13, 828451.	1.7	4
6	The Effects of Brief Heat During Early Booting on Reproductive, Developmental, and Chlorophyll Physiological Performance in Common Wheat (<i>Triticum aestivum</i> L.). <i>Frontiers in Plant Science</i> , 2022, 13, .	1.7	8
7	A wiring diagram to integrate physiological traits of wheat yield potential. <i>Nature Food</i> , 2022, 3, 318-324.	6.2	27
8	Translational Research Networks. , 2022, , 471-491.		0
9	Wheat Improvement. , 2022, , 3-15.		6
10	Pre-breeding Strategies. , 2022, , 451-469.		2
11	Yield Potential. , 2022, , 379-396.		1
12	Global wheat production could benefit from closing the genetic yield gap. <i>Nature Food</i> , 2022, 3, 532-541.	6.2	29
13	High-Throughput Estimation of Crop Traits: A Review of Ground and Aerial Phenotyping Platforms. <i>IEEE Geoscience and Remote Sensing Magazine</i> , 2021, 9, 200-231.	4.9	141
14	Exploring genetic diversity for grain partitioning traits to enhance yield in a high biomass spring wheat panel. <i>Field Crops Research</i> , 2021, 260, 107979.	2.3	13
15	Overcoming the trade-off between grain weight and number in wheat by the ectopic expression of expansin in developing seeds leads to increased yield potential. <i>New Phytologist</i> , 2021, 230, 629-640.	3.5	79
16	Wheat heat tolerance is impaired by heightened deletions in the distal end of 4AL chromosomal arm. <i>Plant Biotechnology Journal</i> , 2021, 19, 1038-1051.	4.1	16
17	Quantifying senescence in bread wheat using multispectral imaging from an unmanned aerial vehicle and QTL mapping. <i>Plant Physiology</i> , 2021, 187, 2623-2636.	2.3	15
18	Genotypic differences in wheat yield determinants within a NAM population based on elite parents. <i>European Journal of Agronomy</i> , 2021, 123, 126223.	1.9	4

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19	Evaluation of Physiological and Morphological Traits for Improving Spring Wheat Adaptation to Terminal Heat Stress. <i>Plants</i> , 2021, 10, 455.	1.6	33
20	Uncovering candidate genes involved in photosynthetic capacity using unexplored genetic variation in Spring Wheat. <i>Plant Biotechnology Journal</i> , 2021, 19, 1537-1552.	4.1	19
21	High Throughput Field Phenotyping for Plant Height Using UAV-Based RGB Imagery in Wheat Breeding Lines: Feasibility and Validation. <i>Frontiers in Plant Science</i> , 2021, 12, 591587.	1.7	46
22	Recognizing the hidden half in wheat: root system attributes associated with drought tolerance. <i>Journal of Experimental Botany</i> , 2021, 72, 5117-5133.	2.4	42
23	Breeding for drought and heat tolerance in wheat. <i>Theoretical and Applied Genetics</i> , 2021, 134, 1753-1769.	1.8	70
24	Wheat root systems as a breeding target for climate resilience. <i>Theoretical and Applied Genetics</i> , 2021, 134, 1645-1662.	1.8	74
25	Identifying quantitative trait loci for lodging-associated traits in the wheat doubled haploid population Avalon Å— Cadenza. <i>Crop Science</i> , 2021, 61, 2371-2386.	0.8	14
26	Climate impact and adaptation to heat and drought stress of regional and global wheat production. <i>Environmental Research Letters</i> , 2021, 16, 054070.	2.2	52
27	Field-based remote sensing models predict radiation use efficiency in wheat. <i>Journal of Experimental Botany</i> , 2021, 72, 3756-3773.	2.4	11
28	Gene-based mapping of trehalose biosynthetic pathway genes reveals association with source- and sink-related yield traits in a spring wheat panel. <i>Food and Energy Security</i> , 2021, 10, e292.	2.0	13
29	Addressing Research Bottlenecks to Crop Productivity. <i>Trends in Plant Science</i> , 2021, 26, 607-630.	4.3	76
30	High-resolution spectral information enables phenotyping of leaf epicuticular wax in wheat. <i>Plant Methods</i> , 2021, 17, 58.	1.9	5
31	Harnessing translational research in wheat for climate resilience. <i>Journal of Experimental Botany</i> , 2021, 72, 5134-5157.	2.4	28
32	An integrated framework reinstating the environmental dimension for GWAS and genomic selection in crops. <i>Molecular Plant</i> , 2021, 14, 874-887.	3.9	56
33	Progress and Prospects of Developing Climate Resilient Wheat in South Asia Using Modern Pre-Breeding Methods. <i>Current Genomics</i> , 2021, 22, 440-449.	0.7	4
34	Using a gene-based phenology model to identify optimal flowering periods of spring wheat in irrigated mega-environments. <i>Journal of Experimental Botany</i> , 2021, 72, 7203-7218.	2.4	7
35	Plant production in water-limited environments. <i>Journal of Experimental Botany</i> , 2021, 72, 5097-5101.	2.4	15
36	Potential of rice landraces with strong culms as genetic resources for improving lodging resistance against super typhoons. <i>Scientific Reports</i> , 2021, 11, 15780.	1.6	7

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37	Increased ranking change in wheat breeding under climate change. <i>Nature Plants</i> , 2021, 7, 1207-1212.	4.7	37
38	Effect of Flowering Time-Related Genes on Biomass, Harvest Index, and Grain Yield in CIMMYT Elite Spring Bread Wheat. <i>Biology</i> , 2021, 10, 855.	1.3	12
39	Exploitation of Drought Tolerance-Related Genes for Crop Improvement. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10265.	1.8	22
40	Mitigating tradeoffs in plant breeding. <i>IScience</i> , 2021, 24, 102965.	1.9	28
41	Breeding custom-designed crops for improved drought adaptation. <i>Genetics & Genomics Next</i> , 2021, 2, e202100017.	0.8	48
42	Transcription Factor TaWRKY51 Is a Positive Regulator in Root Architecture and Grain Yield Contributing Traits. <i>Frontiers in Plant Science</i> , 2021, 12, 734614.	1.7	9
43	QTL analysis and fine mapping of a QTL for yield-related traits in wheat grown in dry and hot environments. <i>Theoretical and Applied Genetics</i> , 2020, 133, 239-257.	1.8	59
44	Genetic variation for photosynthetic capacity and efficiency in spring wheat. <i>Journal of Experimental Botany</i> , 2020, 71, 2299-2311.	2.4	48
45	Different uncertainty distribution between high and low latitudes in modelling warming impacts on wheat. <i>Nature Food</i> , 2020, 1, 63-69.	6.2	43
46	Combining yield potential and drought resilience in a spring wheat diversity panel. <i>Food and Energy Security</i> , 2020, 9, e241.	2.0	10
47	Estimating Organ Contribution to Grain Filling and Potential for Source Upregulation in Wheat Cultivars with a Contrasting Source-Sink Balance. <i>Agronomy</i> , 2020, 10, 1527.	1.3	22
48	Comparison of array- and sequencing-based markers for genome-wide association mapping and genomic prediction in spring wheat. <i>Crop Science</i> , 2020, 60, 211-225.	0.8	11
49	Spike photosynthesis measured at high throughput indicates genetic variation independent of flag leaf photosynthesis. <i>Field Crops Research</i> , 2020, 255, 107866.	2.3	42
50	Crop science: A foundation for advancing predictive agriculture. <i>Crop Science</i> , 2020, 60, 544-546.	0.8	26
51	CGIAR modeling approaches for resource-constrained scenarios: I. Accelerating crop breeding for a changing climate. <i>Crop Science</i> , 2020, 60, 547-567.	0.8	45
52	Breeder friendly phenotyping. <i>Plant Science</i> , 2020, 295, 110396.	1.7	135
53	Assessment of the individual and combined effects of Rht8 and Ppd-D1a on plant height, time to heading and yield traits in common wheat. <i>Crop Journal</i> , 2019, 7, 845-856.	2.3	11
54	Genetics of Greenbug Resistance in Synthetic Hexaploid Wheat Derived Germplasm. <i>Frontiers in Plant Science</i> , 2019, 10, 782.	1.7	12

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55	Multi-environment QTL analysis using an updated genetic map of a widely distributed Seri—Babax spring wheat population. <i>Molecular Breeding</i> , 2019, 39, 1.	2.0	2
56	Benefits to low-input agriculture. <i>Nature Plants</i> , 2019, 5, 652-653.	4.7	10
57	Optimizing dry-matter partitioning for increased spike growth, grain number and harvest index in spring wheat. <i>Field Crops Research</i> , 2019, 240, 154-167.	2.3	82
58	Exploring high temperature responses of photosynthesis and respiration to improve heat tolerance in wheat. <i>Journal of Experimental Botany</i> , 2019, 70, 5051-5069.	2.4	63
59	Adapting irrigated and rainfed wheat to climate change in semi-arid environments: Management, breeding options and land use change. <i>European Journal of Agronomy</i> , 2019, 109, 125915.	1.9	31
60	Genetic dissection of drought and heat-responsive agronomic traits in wheat. <i>Plant, Cell and Environment</i> , 2019, 42, 2540-2553.	2.8	100
61	Genome-wide association study reveals genomic regions controlling root and shoot traits at late growth stages in wheat. <i>Annals of Botany</i> , 2019, 124, 993-1006.	1.4	59
62	Model-Driven Multidisciplinary Global Research to Meet Future Needs: The Case for Improving Radiation Use Efficiency to Increase Yield. <i>Crop Science</i> , 2019, 59, 843-849.	0.8	9
63	Predicting dark respiration rates of wheat leaves from hyperspectral reflectance. <i>Plant, Cell and Environment</i> , 2019, 42, 2133-2150.	2.8	54
64	Crop Radiation Capture and Use Efficiency. , 2019, , 73-106.		1
65	Genetic dissection of heat and drought stress QTLs in phenology-controlled synthetic-derived recombinant inbred lines in spring wheat. <i>Molecular Breeding</i> , 2019, 39, 1.	1.0	41
66	The 4th International Plant Phenotyping Symposium. <i>Plant Science</i> , 2019, 282, 1.	1.7	3
67	High-throughput phenotyping for crop improvement in the genomics era. <i>Plant Science</i> , 2019, 282, 60-72.	1.7	176
68	A rapid monitoring of NDVI across the wheat growth cycle for grain yield prediction using a multi-spectral UAV platform. <i>Plant Science</i> , 2019, 282, 95-103.	1.7	238
69	Elucidating the genetic basis of biomass accumulation and radiation use efficiency in spring wheat and its role in yield potential. <i>Plant Biotechnology Journal</i> , 2019, 17, 1276-1288.	4.1	75
70	Climate change impact and adaptation for wheat protein. <i>Global Change Biology</i> , 2019, 25, 155-173.	4.2	312
71	Spectral reflectance indices as proxies for yield potential and heat stress tolerance in spring wheat: heritability estimates and marker-trait associations. <i>Frontiers of Agricultural Science and Engineering</i> , 2019, 6, 296.	0.9	15
72	Hyperspectral reflectance as a tool to measure biochemical and physiological traits in wheat. <i>Journal of Experimental Botany</i> , 2018, 69, 483-496.	2.4	190

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73	Trade-off between grain weight and grain number in wheat depends on GxE interaction: A case study of an elite CIMMYT panel (CIMCOG). <i>European Journal of Agronomy</i> , 2018, 92, 17-29.	1.9	68
74	Genetic analysis of multi-environmental spring wheat trials identifies genomic regions for locus-specific trade-offs for grain weight and grain number. <i>Theoretical and Applied Genetics</i> , 2018, 131, 985-998.	1.8	127
75	Physical robustness of canopy temperature models for crop heat stress simulation across environments and production conditions. <i>Field Crops Research</i> , 2018, 216, 75-88.	2.3	36
76	Role of Modelling in International Crop Research: Overview and Some Case Studies. <i>Agronomy</i> , 2018, 8, 291.	1.3	36
77	Climate change impact on Mexico wheat production. <i>Agricultural and Forest Meteorology</i> , 2018, 263, 373-387.	1.9	66
78	Genomic-enabled Prediction Accuracies Increased by Modeling Genotype \times Environment Interaction in Durum Wheat. <i>Plant Genome</i> , 2018, 11, 170112.	1.6	31
79	Genome-Wide Association Analyses Identify QTL Hotspots for Yield and Component Traits in Durum Wheat Grown under Yield Potential, Drought, and Heat Stress Environments. <i>Frontiers in Plant Science</i> , 2018, 9, 81.	1.7	222
80	Crop Radiation Capture and Use Efficiency. , 2018, , 1-34.		0
81	Crop model improvement reduces the uncertainty of the response to temperature of multi-model ensembles. <i>Field Crops Research</i> , 2017, 202, 5-20.	2.3	109
82	Identification of heat tolerant wheat lines showing genetic variation in leaf respiration and other physiological traits. <i>Euphytica</i> , 2017, 213, 1.	0.6	38
83	Phenotypic and genome-wide association analysis of spike ethylene in diverse wheat genotypes under heat stress. <i>New Phytologist</i> , 2017, 214, 271-283.	3.5	96
84	Improving global integration of crop research. <i>Science</i> , 2017, 357, 359-360.	6.0	34
85	The uncertainty of crop yield projections is reduced by improved temperature response functions. <i>Nature Plants</i> , 2017, 3, 17102.	4.7	170
86	Integrating islands of knowledge for greater synergy and efficiency in crop research. <i>Food and Energy Security</i> , 2017, 6, 26-32.	2.0	6
87	Utilizing High-Throughput Phenotypic Data for Improved Phenotypic Selection of Stress-Adaptive Traits in Wheat. <i>Crop Science</i> , 2017, 57, 648-659.	0.8	34
88	Genomic Prediction with Pedigree and Genotype \times Environment Interaction in Spring Wheat Grown in South and West Asia, North Africa, and Mexico. <i>G3: Genes, Genomes, Genetics</i> , 2017, 7, 481-495.	0.8	56
89	Hot spots of wheat yield decline with rising temperatures. <i>Global Change Biology</i> , 2017, 23, 2464-2472.	4.2	80
90	Baseline simulation for global wheat production with CIMMYT mega-environment specific cultivars. <i>Field Crops Research</i> , 2017, 202, 122-135.	2.3	44

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91	Strategic crossing of biomass and harvest index—source and sink—achieves genetic gains in wheat. <i>Euphytica</i> , 2017, 213, 1.	0.6	97
92	Elite Haplotypes of a Protein Kinase Gene TaSnRK2.3 Associated with Important Agronomic Traits in Common Wheat. <i>Frontiers in Plant Science</i> , 2017, 08, 368.	1.7	58
93	Pedigree-Based Prediction Models with Genotype × Environment Interaction in Multienvironment Trials of CIMMYT Wheat. <i>Crop Science</i> , 2017, 57, 1865-1880.	0.8	19
94	Foliar Abscisic Acid-To-Ethylene Accumulation and Response Regulate Shoot Growth Sensitivity to Mild Drought in Wheat. <i>Frontiers in Plant Science</i> , 2016, 7, 461.	1.7	60
95	A Direct Comparison of Remote Sensing Approaches for High-Throughput Phenotyping in Plant Breeding. <i>Frontiers in Plant Science</i> , 2016, 7, 1131.	1.7	248
96	Avoiding lodging in irrigated spring wheat. II. Genetic variation of stem and root structural properties. <i>Field Crops Research</i> , 2016, 196, 64-74.	2.3	67
97	Canopy Temperature and Vegetation Indices from High-Throughput Phenotyping Improve Accuracy of Pedigree and Genomic Selection for Grain Yield in Wheat. <i>G3: Genes, Genomes, Genetics</i> , 2016, 6, 2799-2808.	0.8	336
98	Physiological breeding. <i>Current Opinion in Plant Biology</i> , 2016, 31, 162-171.	3.5	249
99	Avoiding lodging in irrigated spring wheat. I. Stem and root structural requirements. <i>Field Crops Research</i> , 2016, 196, 325-336.	2.3	67
100	How can we improve crop genotypes to increase stress resilience and productivity in a future climate? A new crop screening method based on productivity and resistance to abiotic stress. <i>Journal of Experimental Botany</i> , 2016, 67, 5593-5603.	2.4	63
101	Modelling and genetic dissection of staygreen under heat stress. <i>Theoretical and Applied Genetics</i> , 2016, 129, 2055-2074.	1.8	107
102	Variation in developmental patterns among elite wheat lines and relationships with yield, yield components and spike fertility. <i>Field Crops Research</i> , 2016, 196, 294-304.	2.3	36
103	Identification of Earliness Per Se Flowering Time Locus in Spring Wheat through a Genome-Wide Association Study. <i>Crop Science</i> , 2016, 56, 2962-2972.	0.8	53
104	Similar estimates of temperature impacts on global wheat yield by three independent methods. <i>Nature Climate Change</i> , 2016, 6, 1130-1136.	8.1	352
105	Precise estimation of genomic regions controlling lodging resistance using a set of reciprocal chromosome segment substitution lines in rice. <i>Scientific Reports</i> , 2016, 6, 30572.	1.6	53
106	Development and Deployment of a Portable Field Phenotyping Platform. <i>Crop Science</i> , 2016, 56, 965-975.	0.8	77
107	Genomic Prediction of Gene Bank Wheat Landraces. <i>G3: Genes, Genomes, Genetics</i> , 2016, 6, 1819-1834.	0.8	159
108	Unlocking the genetic diversity of Creole wheats. <i>Scientific Reports</i> , 2016, 6, 23092.	1.6	75

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109	Photosynthetic contribution of the ear to grain filling in wheat: a comparison of different methodologies for evaluation. <i>Journal of Experimental Botany</i> , 2016, 67, 2787-2798.	2.4	89
110	Rubisco catalytic properties of wild and domesticated relatives provide scope for improving wheat photosynthesis. <i>Journal of Experimental Botany</i> , 2016, 67, 1827-1838.	2.4	93
111	Awns reduce grain number to increase grain size and harvestable yield in irrigated and rainfed spring wheat. <i>Journal of Experimental Botany</i> , 2016, 67, 2573-2586.	2.4	117
112	An integrated approach to maintaining cereal productivity under climate change. <i>Global Food Security</i> , 2016, 8, 9-18.	4.0	110
113	Food security through translational biology between wheat and rice. <i>Food and Energy Security</i> , 2015, 4, 203-218.	2.0	13
114	Genome-wide Association Study for Adaptation to Agronomic Plant Density: A Component of High Yield Potential in Spring Wheat. <i>Crop Science</i> , 2015, 55, 2609-2619.	0.8	60
115	Evaluation and Interpretation of Interactions. <i>Agronomy Journal</i> , 2015, 107, 736-747.	0.9	23
116	Heat Stress Adaptation in Elite Lines Derived from Synthetic Hexaploid Wheat. <i>Crop Science</i> , 2015, 55, 2719-2735.	0.8	58
117	Clustering of Environmental Parameters Discriminates Drought and Heat Stress Bread Wheat Trials. <i>Agronomy Journal</i> , 2015, 107, 1489-1503.	0.9	3
118	The Physiological Basis of the Genetic Progress in Yield Potential of CIMMYT Spring Wheat Cultivars from 1966 to 2009. <i>Crop Science</i> , 2015, 55, 1749-1764.	0.8	165
119	Dynamics of floret development determining differences in spike fertility in an elite population of wheat. <i>Field Crops Research</i> , 2015, 172, 21-31.	2.3	63
120	Common genetic basis for canopy temperature depression under heat and drought stress associated with optimized root distribution in bread wheat. <i>Theoretical and Applied Genetics</i> , 2015, 128, 575-585.	1.8	142
121	Effect of leaf and spike morphological traits on the relationship between spectral reflectance indices and yield in wheat. <i>International Journal of Remote Sensing</i> , 2015, 36, 701-718.	1.3	17
122	Exploring Genetic Resources to Increase Adaptation of Wheat to Climate Change. , 2015, , 355-368.		32
123	Genetic characterization of the wheat association mapping initiative (WAMI) panel for dissection of complex traits in spring wheat. <i>Theoretical and Applied Genetics</i> , 2015, 128, 453-464.	1.8	177
124	Genomic tools to assist breeding for drought tolerance. <i>Current Opinion in Biotechnology</i> , 2015, 32, 130-135.	3.3	124
125	Rising temperatures reduce global wheat production. <i>Nature Climate Change</i> , 2015, 5, 143-147.	8.1	1,544
126	Genome-wide association study for grain yield and related traits in an elite spring wheat population grown in temperate irrigated environments. <i>Theoretical and Applied Genetics</i> , 2015, 128, 353-363.	1.8	400

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127	Genetic Dissection of Grain Size and Grain Number Trade-Offs in CIMMYT Wheat Germplasm. PLoS ONE, 2015, 10, e0118847.	1.1	88
128	Traits associated with winter wheat grain yield in Central and West Asia. Journal of Integrative Plant Biology, 2014, 56, 673-683.	4.1	21
129	Integration of phenotyping and genetic platforms for a better understanding of wheat performance under drought. Journal of Experimental Botany, 2014, 65, 6167-6177.	2.4	59
130	Genome-wide association mapping of yield and yield components of spring wheat under contrasting moisture regimes. Theoretical and Applied Genetics, 2014, 127, 791-807.	1.8	263
131	Wheat grain number: Identification of favourable physiological traits in an elite doubled-haploid population. Field Crops Research, 2014, 168, 126-134.	2.3	44
132	Relative contribution of shoot and ear photosynthesis to grain filling in wheat under good agronomical conditions assessed by differential organ $\delta^{13}C$. Journal of Experimental Botany, 2014, 65, 5401-5413.	2.4	100
133	More fertile florets and grains per spike can be achieved at higher temperature in wheat lines with high spike biomass and sugar content at booting. Functional Plant Biology, 2014, 41, 482.	1.1	64
134	Climate-smart agriculture global research agenda: scientific basis for action. Agriculture and Food Security, 2014, 3, .	1.6	165
135	A wheat phenotyping network to incorporate physiological traits for climate change in South Asia. Field Crops Research, 2014, 168, 156-167.	2.3	35
136	Genetic control of grain yield and grain physical characteristics in a bread wheat population grown under a range of environmental conditions. Theoretical and Applied Genetics, 2014, 127, 1607-1624.	1.8	85
137	Genetic and molecular bases of yield-associated traits: a translational biology approach between rice and wheat. Theoretical and Applied Genetics, 2014, 127, 1463-1489.	1.8	49
138	Relationships between physiological traits, grain number and yield potential in a wheat DH population of large spike phenotype. Field Crops Research, 2014, 164, 126-135.	2.3	27
139	Crops that feed the world 10. Past successes and future challenges to the role played by wheat in global food security. Food Security, 2013, 5, 291-317.	2.4	709
140	QTL for yield and associated traits in the Seri/Babax population grown across several environments in Mexico, in the West Asia, North Africa, and South Asia regions. Theoretical and Applied Genetics, 2013, 126, 971-984.	1.8	119
141	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.	3.3	1,065
142	Molecular mapping of high temperature tolerance in bread wheat adapted to the Eastern Gangetic Plain region of India. Field Crops Research, 2013, 154, 201-210.	2.3	42
143	An assessment of wheat yield sensitivity and breeding gains in hot environments. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20122190.	1.2	97
144	Multi-environment analysis and improved mapping of a yield-related QTL on chromosome 3B of wheat. Theoretical and Applied Genetics, 2013, 126, 747-761.	1.8	77

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145	Combining high grain number and weight through a DH-population to improve grain yield potential of wheat in high-yielding environments. <i>Field Crops Research</i> , 2013, 145, 106-115.	2.3	144
146	Developmental and growth controls of tillering and water-soluble carbohydrate accumulation in contrasting wheat (<i>Triticum aestivum</i> L.) genotypes: can we dissect them?. <i>Journal of Experimental Botany</i> , 2013, 64, 143-160.	2.4	88
147	Quantifying the relationship between temperature regulation in the ear and floret development stage in wheat (<i>Triticum aestivum</i> L.) under heat and drought stress. <i>Functional Plant Biology</i> , 2013, 40, 700.	1.1	19
148	Grain Yield Potential Strategies in an Elite Wheat Double-Haploid Population Grown in Contrasting Environments. <i>Crop Science</i> , 2013, 53, 2577-2587.	0.8	33
149	Association Mapping and Nucleotide Sequence Variation in Five Drought Tolerance Candidate Genes in Spring Wheat. <i>Plant Genome</i> , 2013, 6, plantgenome2013.04.0010.	1.6	45
150	Breeding for Yield Potential has Increased Deep Soil Water Extraction Capacity in Irrigated Wheat. <i>Crop Science</i> , 2013, 53, 2090-2104.	0.8	48
151	Genetic Yield Gains and Changes in Associated Traits of CIMMYT Spring Bread Wheat in a "Historic" Set Representing 30 Years of Breeding. <i>Crop Science</i> , 2012, 52, 1123-1131.	0.8	171
152	Genetic Yield Gains of the CIMMYT International Semi-Arid Wheat Yield Trials from 1994 to 2010. <i>Crop Science</i> , 2012, 52, 1543-1552.	0.8	82
153	Global crop improvement networks to bridge technology gaps. <i>Journal of Experimental Botany</i> , 2012, 63, 1-12.	2.4	47
154	Physiological Traits for Improving Heat Tolerance in Wheat. <i>Plant Physiology</i> , 2012, 160, 1710-1718.	2.3	242
155	Food security and climate change: on the potential to adapt global crop production by active selection to rising atmospheric carbon dioxide. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 4097-4105.	1.2	167
156	Stay-green in spring wheat can be determined by spectral reflectance measurements (normalized) $T_j ETQ_0 / (T_j ETQ_0 + T_j ETQ_{10})$. <i>Overlook 10 Tf 50</i> 3789-3798.	2.4	255
157	Indirect selection for grain yield in spring bread wheat in diverse nurseries worldwide using parameters locally determined in north-west Mexico. <i>Journal of Agricultural Science</i> , 2012, 150, 23-43.	0.6	6
158	Phenotyping transgenic wheat for drought resistance. <i>Journal of Experimental Botany</i> , 2012, 63, 1799-1808.	2.4	102
159	Achieving yield gains in wheat. <i>Plant, Cell and Environment</i> , 2012, 35, 1799-1823.	2.8	459
160	Detection of two major grain yield QTL in bread wheat (<i>Triticum aestivum</i> L.) under heat, drought and high yield potential environments. <i>Theoretical and Applied Genetics</i> , 2012, 125, 1473-1485.	1.8	243
161	Genetic dissection of grain yield and physical grain quality in bread wheat (<i>Triticum aestivum</i> L.) under water-limited environments. <i>Theoretical and Applied Genetics</i> , 2012, 125, 255-271.	1.8	132
162	The yield correlations of selectable physiological traits in a population of advanced spring wheat lines grown in warm and drought environments. <i>Field Crops Research</i> , 2012, 128, 129-136.	2.3	125

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