Jose Crossa

List of Publications by Year
in descending order

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454 papers	27,651 citations	4370 86 h-index	11581 135 g-index
474 all docs	474 docs citations	474 times ranked	11790 citing authors

#	Article	IF	Citations
1	Genomic prediction of the performance of hybrids and the combining abilities for line by tester trials in maize. Crop Journal, 2022, 10, 109-116.	2.3	7
2	Plant breeding increases spring wheat yield potential in Afghanistan. Crop Science, 2022, 62, 167-177.	0.8	3
3	Bayesian multitrait kernel methods improve multienvironment genome-based prediction. G3: Genes, Genomes, Genetics, 2022, 12, .	0.8	8
4	Overfitting, Model Tuning, and Evaluation of Prediction Performance. , 2022, , 109-139.		25
5	Artificial Neural Networks and Deep Learning for Genomic Prediction of Binary, Ordinal, and Mixed Outcomes. , 2022, , 477-532.		1
6	Fundamentals of Artificial Neural Networks and Deep Learning. , 2022, , 379-425.		20
7	Reproducing Kernel Hilbert Spaces Regression and Classification Methods. , 2022, , 251-336.		2
8	Bayesian and Classical Prediction Models for Categorical and Count Data. , 2022, , 209-249.		3
9	Genome-Based Genotype Ã— Environment Prediction Enhances Potato (Solanum tuberosum L.) Improvement Using Pseudo-Diploid and Polysomic Tetraploid Modeling. Frontiers in Plant Science, 2022, 13, 785196.	1.7	19
10	Using an incomplete block design to allocate lines to environments improves sparse genomeâ€based prediction in plant breeding. Plant Genome, 2022, 15, e20194.	1.6	4
11	Genomic Predictions for Common Bunt, FHB, Stripe Rust, Leaf Rust, and Leaf Spotting Resistance in Spring Wheat. Genes, 2022, 13, 565.	1.0	13
12	Sparse testing using genomic prediction improves selection for breeding targets in elite spring wheat. Theoretical and Applied Genetics, 2022, 135, 1939-1950.	1.8	10
13	Automated Machine Learning: A Case Study of Genomic â€œImage-Basedâ€•Prediction in Maize Hybrids. Frontiers in Plant Science, 2022, 13, 845524.	1.7	2
14	Accounting for Correlation Between Traits in Genomic Prediction. Methods in Molecular Biology, 2022, 2467, 285-327.	0.4	1
15	Incorporating Omics Data in Genomic Prediction. Methods in Molecular Biology, 2022, 2467, 341-357.	0.4	2
16	Overview of Genomic Prediction Methods and the Associated Assumptions on the Variance of Marker Effect, and on the Architecture of the Target Trait. Methods in Molecular Biology, 2022, 2467, 139-156.	0.4	3
17	Genome and EnvironmentÂBased Prediction Models and Methods of Complex Traits Incorporating Genotype Ã— Environment Interaction. Methods in Molecular Biology, 2022, 2467, 245-283.	0.4	13
18	Comparing gradient boosting machine and Bayesian threshold BLUP for genomeâ€based prediction of categorical traits in wheat breeding. Plant Genome, 2022, 15, e20214.	1.6	4

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19	Near-Infrared Spectroscopy to Predict Provitamin A Carotenoids Content in Maize. Agronomy, 2022, 12, 1027.	1.3	1
20	Defining Target Wheat Breeding Environments. , 2022, , 31-45.		0
21	Experimental Design for Plant Improvement. , 2022, , 215-235.		2
22	Theory and Practice of Phenotypic and Genomic Selection Indices. , 2022, , 593-616.		0
23	Effects of glutenins (Glu-1 and Glu-3) allelic variation on dough properties and bread-making quality of CIMMYT bread wheat breeding lines. Field Crops Research, 2022, 284, 108585.	2.3	19
24	Comparison of single-trait and multi-trait genomic predictions on agronomic and disease resistance traits in spring wheat. Theoretical and Applied Genetics, 2022, 135, 2747-2767.	1.8	4
25	Genome-wide association study and genomic prediction of Fusarium ear rot resistance in tropical maize germplasm. Crop Journal, 2021, 9, 325-341.	2.3	30
26	Maximizing efficiency of genomic selection in CIMMYTâ€™s tropical maize breeding program. Theoretical and Applied Genetics, 2021, 134, 279-294.	1.8	36
27	Changes in the bacterial community structure in soil under conventional and conservation practices throughout a complete maize (Zea mays L.) crop cycle. Applied Soil Ecology, 2021, 157, 103733.	2.1	10
28	Nonlinear kernels, dominance, and envirotyping data increase the accuracy of genome-based prediction in multi-environment trials. Heredity, 2021, 126, 92-106.	1.2	89
29	Application of multi-trait Bayesian decision theory for parental genomic selection. G3: Genes, Genomes, Genetics, 2021, 11, .	0.8	2
30	Genetic dissection of Striga hermonthica (Del.) Benth. resistance via genome-wide association and genomic prediction in tropical maize germplasm. Theoretical and Applied Genetics, 2021, 134, 941-958.	1.8	19
31	Additive genetic variance and covariance between relatives in synthetic wheat crosses with variable parental ploidy levels. Genetics, 2021, 217, .	1.2	1
32	A review of deep learning applications for genomic selection. BMC Genomics, 2021, 22, 19.	1.2	122
33	<i>EnvRtype</i>: a software to interplay enviromics and quantitative genomics in agriculture. G3: Genes, Genomes, Genetics, 2021, 11, .	0.8	53
34	Prediction of count phenotypes using high-resolution images and genomic data. G3: Genes, Genomes, Genetics, 2021, 11, jkab035.	0.8	8
35	A guide for kernel generalized regression methods for genomic-enabled prediction. Heredity, 2021, 126, 577-596.	1.2	14
36	The Modern Plant Breeding Triangle: Optimizing the Use of Genomics, Phenomics, and Enviromics Data. Frontiers in Plant Science, 2021, 12, 651480.	1.7	132

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37	Female reproductive organs of Brassica napus are more sensitive than male to transient heat stress. Euphytica, 2021, 217, 1.	0.6	2
38	Target Population of Environments for Wheat Breeding in India: Definition, Prediction and Genetic Gains. Frontiers in Plant Science, 2021, 12, 638520.	1.7	26
39	Scalable Sparse Testing Genomic Selection Strategy for Early Yield Testing Stage. Frontiers in Plant Science, 2021, 12, 658978.	1.7	15
40	Application of Genomic Selection at the Early Stage of Breeding Pipeline in Tropical Maize. Frontiers in Plant Science, 2021, 12, 685488.	1.7	18
41	lme4GS: An R-Package for Genomic Selection. Frontiers in Genetics, 2021, 12, 680569.	1.1	10
42	Building the Embrapa rice breeding dataset for efficient data reuse. Crop Science, 2021, 61, 3445-3457.	0.8	8
43	Harnessing translational research in wheat for climate resilience. Journal of Experimental Botany, 2021, 72, 5134-5157.	2.4	28
44	Application of a Poisson deep neural network model for the prediction of count data in genomeâ€based prediction. Plant Genome, 2021, 14, e20118.	1.6	9
45	Deepâ€learning power and perspectives for genomic selection. Plant Genome, 2021, 14, e20122.	1.6	10
46	Optimizing Genomic-Enabled Prediction in Small-Scale Maize Hybrid Breeding Programs: A Roadmap Review. Frontiers in Plant Science, 2021, 12, 658267.	1.7	14
47	Opportunities and Challenges of Predictive Approaches for Harnessing the Potential of Genetic Resources. Frontiers in Plant Science, 2021, 12, 674036.	1.7	5
48	Multi-trait genomic-enabled prediction enhances accuracy in multi-year wheat breeding trials. G3: Genes, Genomes, Genetics, 2021, 11, .	0.8	13
49	Assessing combining abilities, genomic data, and genotypeÂÃ— environment interactions to predict hybrid grain sorghum performance. Plant Genome, 2021, 14, e20127.	1.6	12
50	Increased ranking change in wheat breeding under climate change. Nature Plants, 2021, 7, 1207-1212.	4.7	37
51	Drought and Heat Stress Impacts on Phenolic Acids Accumulation in Durum Wheat Cultivars. Foods, 2021, 10, 2142.	1.9	34
52	Genomeâ€enabled prediction for sparse testing in multiâ€environmental wheat trials. Plant Genome, 2021, 14, e20151.	1.6	15
53	Multi-generation genomic prediction of maize yield using parametric and non-parametric sparse selection indices. Heredity, 2021, 127, 423-432.	1.2	4
54	Rapid delivery systems for future food security. Nature Biotechnology, 2021, 39, 1179-1181.	9.4	17

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55	Fast-forward breeding for a food-secure world. Trends in Genetics, 2021, 37, 1124-1136.	2.9	82
56	Distribution, phylogeny, and pathogenicity of Xanthomonas albilineans causing sugarcane leaf scald in Mexico. Crop Protection, 2021, 150, 105799.	1.0	3
57	A zero altered Poisson random forest model for genomic-enabled prediction. G3: Genes, Genomes, Genetics, 2021, 11, .	0.8	9
58	Enviromic Assembly Increases Accuracy and Reduces Costs of the Genomic Prediction for Yield Plasticity in Maize. Frontiers in Plant Science, 2021, 12, 717552.	1.7	18
59	Dry sowing reduced durum wheat performance under irrigated conservation agriculture. Field Crops Research, 2021, 274, 108310.	2.3	1
60	Genome-based prediction of agronomic traits in spring wheat under conventional and organic management systems. Theoretical and Applied Genetics, 2021, 135, 537.	1.8	10
61	Strategic use of Iranian bread wheat landrace accessions for genetic improvement: Core set formulation and validation. Plant Breeding, 2021, 140, 87-99.	1.0	8
62	A Comparison of the Adoption of Genomic Selection Across Different Breeding Institutions. Frontiers in Plant Science, 2021, 12, 728567.	1.7	4
63	A chickpea genetic variation map based on the sequencing of 3,366 genomes. Nature, 2021, 599, 622-627.	13.7	106
64	Juvenile Heat Tolerance in Wheat for Attaining Higher Grain Yield by Shifting to Early Sowing in October in South Asia. Genes, 2021, 12, 1808.	1.0	8
65	Response to Early Generation Genomic Selection for Yield in Wheat. Frontiers in Plant Science, 2021, 12, 718611.	1.7	10
66	A New Deep Learning Calibration Method Enhances Genome-Based Prediction of Continuous Crop Traits. Frontiers in Genetics, 2021, 12, 798840.	1.1	6
67	Durum wheat selection under zero tillage increases early vigor and is neutral to yield. Field Crops Research, 2020, 248, 107675.	2.3	9
68	On-farm performance and farmersâ€™ participatory assessment of new stress-tolerant maize hybrids in Eastern Africa. Field Crops Research, 2020, 246, 107693.	2.3	39
69	A data-driven simulation platform to predict cultivarsâ€™ performances under uncertain weather conditions. Nature Communications, 2020, 11, 4876.	5.8	50
70	Approximate Genome-Based Kernel Models for Large Data Sets Including Main Effects and Interactions. Frontiers in Genetics, 2020, 11, 567757.	1.1	15
71	On the approximation of interaction effect models by Hadamard powers of the additive genomic relationship. Theoretical Population Biology, 2020, 132, 16-23.	0.5	19
72	Aerial highâ€throughput phenotyping enables indirect selection for grain yield at the early generation, seedâ€limited stages in breeding programs. Crop Science, 2020, 60, 3096-3114.	0.8	31

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73	Genomeâ€based prediction of Bayesian linear and nonâ€linear regression models for ordinal data. Plant Genome, 2020, 13, e20021.	1.6	14
74	On Hadamard and Kronecker products in covariance structures for genotype Ã— environment interaction. Plant Genome, 2020, 13, e20033.	1.6	6
75	Genomic prediction across years in a maize doubled haploid breeding program to accelerate early-stage testcross testing. Theoretical and Applied Genetics, 2020, 133, 2869-2879.	1.8	26
76	Genomeâ€based prediction of multiple wheat quality traits in multiple years. Plant Genome, 2020, 13, e20034.	1.6	25
77	Genome-based trait prediction in multi-â€‰environment breeding trials in groundnut. Theoretical and Applied Genetics, 2020, 133, 3101-3117.	1.8	29
78	A Multivariate Poisson Deep Learning Model for Genomic Prediction of Count Data. G3: Genes, Genomes, Genetics, 2020, 10, 4177-4190.	0.8	24
79	Maximum <i>a posteriori</i> Threshold Genomic Prediction Model for Ordinal Traits. G3: Genes, Genomes, Genetics, 2020, 10, 4083-4102.	0.8	4
80	Diversity analysis of 80,000 wheat accessions reveals consequences and opportunities of selection footprints. Nature Communications, 2020, 11, 4572.	5.8	129
81	Genome-Wide Association Mapping and Genomic Prediction of Anther Extrusion in CIMMYT Hybrid Wheat Breeding Program via Modeling Pedigree, Genomic Relationship, and Interaction With the Environment. Frontiers in Genetics, 2020, 11, 586687.	1.1	10
82	Regularized selection indices for breeding value prediction using hyper-spectral image data. Scientific Reports, 2020, 10, 8195.	1.6	32
83	Expectation and variance of the estimator of the maximized selection response of linear selection indices with normal distribution. Theoretical and Applied Genetics, 2020, 133, 2743-2758.	1.8	7
84	Genomic Prediction with Genotype by Environment Interaction Analysis for Kernel Zinc Concentration in Tropical Maize Germplasm. G3: Genes, Genomes, Genetics, 2020, 10, 2629-2639.	0.8	21
85	Genomic Prediction Enhanced Sparse Testing for Multi-environment Trials. G3: Genes, Genomes, Genetics, 2020, 10, 2725-2739.	0.8	68
86	Genomic Prediction of Kernel Zinc Concentration in Multiple Maize Populations Using Genotyping-by-Sequencing and Repeat Amplification Sequencing Markers. Frontiers in Plant Science, 2020, 11, 534.	1.7	30
87	META-R: A software to analyze data from multi-environment plant breeding trials. Crop Journal, 2020, 8, 745-756.	2.3	164
88	Comparison of arrayâ€and sequencingâ€based markers for genomeâ€wide association mapping and genomic prediction in spring wheat. Crop Science, 2020, 60, 211-225.	0.8	11
89	Stacking Tolerance to Drought and Resistance to a Parasitic Weed in Tropical Hybrid Maize for Enhancing Resilience to Stress Combinations. Frontiers in Plant Science, 2020, 11, 166.	1.7	17
90	Phenomic selection and prediction of maize grain yield from nearâ€infrared reflectance spectroscopy ofÂkernels. The Plant Phenome Journal, 2020, 3, e20002.	1.0	36

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91	Grain yield genetic gains and changes in physiological related traits for CIMMYTâ€™s High Rainfall Wheat Screening Nursery tested across international environments. Field Crops Research, 2020, 249, 107742.	2.3	34
92	CGIAR modeling approaches for resourceâ€constrained scenarios: I. Accelerating crop breeding for a changing climate. Crop Science, 2020, 60, 547-567.	0.8	45
93	Identification of CIMMYT spring bread wheat germplasm maintaining superior grain yield and quality under heat-stress. Journal of Cereal Science, 2020, 93, 102981.	1.8	28
94	Strategies for Effective Use of Genomic Information in Crop Breeding Programs Serving Africa and South Asia. Frontiers in Plant Science, 2020, 11, 353.	1.7	33
95	Combined Multistage Linear Genomic Selection Indices To Predict the Net Genetic Merit in Plant Breeding. G3: Genes, Genomes, Genetics, 2020, 10, 2087-2101.	0.8	4
96	Bayesian regularized quantile regression: A robust alternative for genome-based prediction of skewed data. Crop Journal, 2020, 8, 713-722.	2.3	5
97	Estudio comparativo de tÃ©cnicas de optimizaciÃ³n multirespuesta en diseÃ±os experimentales. IngenierÃa InvestigaciÃ³n Y TecnologÃa, 2020, 21, 1-12.	0.2	1
98	A singular value decomposition Bayesian multiple-trait and multiple-environment genomic model. Heredity, 2019, 122, 381-401.	1.2	8
99	Deep Kernel and Deep Learning for Genome-Based Prediction of Single Traits in Multienvironment Breeding Trials. Frontiers in Genetics, 2019, 10, 1168.	1.1	77
100	Effect of F1 and F2 generations on genetic variability and working steps of doubled haploid production in maize. PLoS ONE, 2019, 14, e0224631.	1.1	11
101	Multi-Trait, Multi-Environment Genomic Prediction of Durum Wheat With Genomic Best Linear Unbiased Predictor and Deep Learning Methods. Frontiers in Plant Science, 2019, 10, 1311.	1.7	47
102	Factor analysis to investigate genotype and genotypeâ€‰Ã—â€‰environment interaction effects on pro-vitamin A content and yield in maize synthetics. Euphytica, 2019, 215, 1.	0.6	12
103	isqg: A Binary Framework for in Silico Quantitative Genetics. G3: Genes, Genomes, Genetics, 2019, 9, 2425-2428.	0.8	1
104	Maize responsiveness to Azospirillum brasilense: Insights into genetic control, heterosis and genomic prediction. PLoS ONE, 2019, 14, e0217571.	1.1	19
105	Genetic architecture of maize chlorotic mottle virus and maize lethal necrosis through GWAS, linkage analysis and genomic prediction in tropical maize germplasm. Theoretical and Applied Genetics, 2019, 132, 2381-2399.	1.8	53
106	The Relative Efficiency of Two Multistage Linear Phenotypic Selection Indices to Predict the Net Genetic Merit. Crop Science, 2019, 59, 1037-1051.	0.8	6
107	Resequencing of 429 chickpea accessions from 45 countries provides insights into genome diversity, domestication and agronomic traits. Nature Genetics, 2019, 51, 857-864.	9.4	219
108	Effect of Missing Values on Variance Component Estimates in Multienvironment Trials. Crop Science, 2019, 59, 508-517.	0.8	10

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109	An R Package for Bayesian Analysis of Multi-environment and Multi-trait Multi-environment Data for Genome-Based Prediction. G3: Genes, Genomes, Genetics, 2019, 9, 1355-1369.	0.8	39
110	Hyperspectral Reflectance-Derived Relationship Matrices for Genomic Prediction of Grain Yield in Wheat. G3: Genes, Genomes, Genetics, 2019, 9, 1231-1247.	0.8	96
111	New Deep Learning Genomic-Based Prediction Model for Multiple Traits with Binary, Ordinal, and Continuous Phenotypes. G3: Genes, Genomes, Genetics, 2019, 9, 1545-1556.	0.8	81
112	Modeling Genotype Ã— Environment Interaction Using a Factor Analytic Model of Onâ€Farm Wheat Trials in the Yaqui Valley of Mexico. Agronomy Journal, 2019, 111, 2647-2657.	0.9	7
113	High-throughput phenotyping platforms enhance genomic selection for wheat grain yield across populations and cycles in early stage. Theoretical and Applied Genetics, 2019, 132, 1705-1720.	1.8	70
114	A robust Bayesian genome-based median regression model. Theoretical and Applied Genetics, 2019, 132, 1587-1606.	1.8	1
115	Joint Use of Genome, Pedigree, and Their Interaction with Environment for Predicting the Performance of Wheat Lines in New Environments. G3: Genes, Genomes, Genetics, 2019, 9, 2925-2934.	0.8	13
116	A Bayesian Genomic Multi-output Regressor Stacking Model for Predicting Multi-trait Multi-environment Plant Breeding Data. G3: Genes, Genomes, Genetics, 2019, 9, 3381-3393.	0.8	22
117	Efficiency of a Constrained Linear Genomic Selection Index To Predict the Net Genetic Merit in Plants. G3: Genes, Genomes, Genetics, 2019, 9, 3981-3994.	0.8	8
118	Deep Kernel for Genomic and Near Infrared Predictions in Multi-environment Breeding Trials. G3: Genes, Genomes, Genetics, 2019, 9, 2913-2924.	0.8	61
119	Optimum and Decorrelated Constrained Multistage Linear Phenotypic Selection Indices Theory. Crop Science, 2019, 59, 2585-2600.	0.8	4
120	The impact of sample selection strategies on genetic diversity and representativeness in germplasm bank collections. BMC Plant Biology, 2019, 19, 520.	1.6	12
121	Empirical Comparison of Tropical Maize Hybrids Selected Through Genomic and Phenotypic Selections. Frontiers in Plant Science, 2019, 10, 1502.	1.7	54
122	Improving grain yield, stress resilience and quality of bread wheat using large-scale genomics. Nature Genetics, 2019, 51, 1530-1539.	9.4	216
123	Hybrid Wheat Prediction Using Genomic, Pedigree, and Environmental Covariables Interaction Models. Plant Genome, 2019, 12, 180051.	1.6	58
124	A Benchmarking Between Deep Learning, Support Vector Machine and Bayesian Threshold Best Linear Unbiased Prediction for Predicting Ordinal Traits in Plant Breeding. G3: Genes, Genomes, Genetics, 2019, 9, 601-618.	0.8	95
125	Provitamin A Carotenoids in Grain Reduce Aflatoxin Contamination of Maize While Combating Vitamin A Deficiency. Frontiers in Plant Science, 2019, 10, 30.	1.7	28
126	Multivariate Bayesian Analysis of Onâ€Farm Trials with Multipleâ€Trait and Multipleâ€Environment Data. Agronomy Journal, 2019, 111, 2658-2669.	0.9	17

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127	Integrating genomic-enabled prediction and high-throughput phenotyping in breeding for climate-resilient bread wheat. Theoretical and Applied Genetics, 2019, 132, 177-194.	1.8	78
128	Modeling copy number variation in the genomic prediction of maize hybrids. Theoretical and Applied Genetics, 2019, 132, 273-288.	1.8	18
129	ADAPTABILITY OF WHEAT GENOTYPES UNDER MIXED MODEL METHODOLOGY FOR NORTH EASTERN PLAINS ZONE OF THE COUNTRY. Journal of Experimental Biology and Agricultural Sciences, 2019, 7, 468-476.	0.1	0
130	Genomic-Enabled Prediction Kernel Models with Random Intercepts for Multi-environment Trials. G3: Genes, Genomes, Genetics, 2018, 8, 1347-1365.	0.8	32
131	A Bayesian Genomic Regression Model with Skew Normal Random Errors. G3: Genes, Genomes, Genetics, 2018, 8, 1771-1785.	0.8	6
132	Genome-wide association mapping for resistance to leaf rust, stripe rust and tan spot in wheat reveals potential candidate genes. Theoretical and Applied Genetics, 2018, 131, 1405-1422.	1.8	101
133	Milling, processing and end-use quality traits of CIMMYT spring bread wheat germplasm under drought and heat stress. Field Crops Research, 2018, 215, 104-112.	2.3	62
134	An R Package for Multitrait and Multienvironment Data with the Itemâ€Based Collaborative Filtering Algorithm. Plant Genome, 2018, 11, 180013.	1.6	6
135	Role of Modelling in International Crop Research: Overview and Some Case Studies. Agronomy, 2018, 8, 291.	1.3	36
136	Prospects and Challenges of Applied Genomic Selectionâ€"A New Paradigm in Breeding for Grain Yield in Bread Wheat. Plant Genome, 2018, 11, 180017.	1.6	65
137	Genetic Gains for Grain Yield in CIMMYT's Semiâ€Arid Wheat Yield Trials Grown in Suboptimal Environments. Crop Science, 2018, 58, 1890-1898.	0.8	69
138	Linear Selection Indices in Modern Plant Breeding. , 2018, , .		36
139	Multi-environment Genomic Prediction of Plant Traits Using Deep Learners With Dense Architecture. G3: Genes, Genomes, Genetics, 2018, 8, 3813-3828.	0.8	115
140	Multi-trait, Multi-environment Deep Learning Modeling for Genomic-Enabled Prediction of Plant Traits. G3: Genes, Genomes, Genetics, 2018, 8, 3829-3840.	0.8	108
141	SASHAYDIALL: A SAS Program for Hayman's Diallel Analysis. Crop Science, 2018, 58, 1605-1615.	0.8	12
142	Prediction of Multiple-Trait and Multiple-Environment Genomic Data Using Recommender Systems. G3: Genes, Genomes, Genetics, 2018, 8, 131-147.	0.8	23
143	Harnessing genetic potential of wheat germplasm banks through impact-oriented-prebreeding for future food and nutritional security. Scientific Reports, 2018, 8, 12527.	1.6	113
144	When less can be better: How can we make genomic selection more cost-effective and accurate in barley?. Theoretical and Applied Genetics, 2018, 131, 1873-1890.	1.8	45

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145	Genomicâ€enabled Prediction Accuracies Increased by Modeling Genotype Ã— Environment Interaction in Durum Wheat. Plant Genome, 2018, 11, 170112.	1.6	31
146	Bayesian functional regression as an alternative statistical analysis of high-throughput phenotyping data of modern agriculture. Plant Methods, 2018, 14, 46.	1.9	11
147	Applications of Machine Learning Methods to Genomic Selection in Breeding Wheat for Rust Resistance. Plant Genome, 2018, 11, 170104.	1.6	94
148	BGGE: A New Package for Genomic-Enabled Prediction Incorporating Genotype Ã— Environment Interaction Models. G3: Genes, Genomes, Genetics, 2018, 8, 3039-3047.	0.8	47
149	A Bayesian Decision Theory Approach for Genomic Selection. G3: Genes, Genomes, Genetics, 2018, 8, 3019-3037.	0.8	4
150	Genomic-enabled prediction models using multi-environment trials to estimate the effect of genotypeâ€‰Ã—â€‰environment interaction on prediction accuracy in chickpea. Scientific Reports, 2018, 8, 11701.	1.6	61
151	The Linear Phenotypic Selection Index Theory. , 2018, , 15-42.		3
152	Linear Genomic Selection Indices. , 2018, , 99-120.		1
153	Constrained Linear Phenotypic Selection Indices. , 2018, , 43-69.		0
154	Linear Phenotypic Eigen Selection Index Methods. , 2018, , 149-176.		1
155	Inverse sampling regression for pooled data. Statistical Methods in Medical Research, 2017, 26, 1093-1109.	0.7	1
156	Use of Genomic Estimated Breeding Values Results in Rapid Genetic Gains for Drought Tolerance in Maize. Plant Genome, 2017, 10, plantgenome2016.07.0070.	1.6	72
157	Genetic Yield Gains In CIMMYT's International Elite Spring Wheat Yield Trials By Modeling The Genotype Ã— Environment Interaction. Crop Science, 2017, 57, 789-801.	0.8	89
158	Genomic and pedigree-based prediction for leaf, stem, and stripe rust resistance in wheat. Theoretical and Applied Genetics, 2017, 130, 1415-1430.	1.8	99
159	Genomic models with genotypeâ€‰Ã—â€‰environment interaction for predicting hybrid performance: an application in maize hybrids. Theoretical and Applied Genetics, 2017, 130, 1431-1440.	1.8	46
160	A Variational Bayes Genomic-Enabled Prediction Model with Genotype Ã— Environment Interaction. G3: Genes, Genomes, Genetics, 2017, 7, 1833-1853.	0.8	8
161	Genomic-Enabled Prediction in Maize Using Kernel Models with Genotype Ã— Environment Interaction. G3: Genes, Genomes, Genetics, 2017, 7, 1995-2014.	0.8	92
162	Genetic improvement of grain quality traits for CIMMYT semi-dwarf spring bread wheat varieties developed during 1965â€"2015: 50 years of breeding. Field Crops Research, 2017, 210, 192-196.	2.3	48

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163	Rapid Cycling Genomic Selection in a Multiparental Tropical Maize Population. G3: Genes, Genomes, Genetics, 2017, 7, 2315-2326.	0.8	92
164	Variability in iron, zinc and phytic acid content in a worldwide collection of commercial durum wheat cultivars and the effect of reduced irrigation on these traits. Food Chemistry, 2017, 237, 499-505.	4.2	100
165	Grain quality traits of commercial durum wheat varieties and their relationships with drought stress and glutenins composition. Journal of Cereal Science, 2017, 75, 1-9.	1.8	62
166	Genomic Selection for Increased Yield in Syntheticâ€Derived Wheat. Crop Science, 2017, 57, 713-725.	0.8	16
167	Gains in Maize Genetic Improvement in Eastern and Southern Africa: I. CIMMYT Hybrid Breeding Pipeline. Crop Science, 2017, 57, 168-179.	0.8	94
168	Genomic Selection in Plant Breeding: Methods, Models, and Perspectives. Trends in Plant Science, 2017, 22, 961-975.	4.3	1,004
169	A Bayesian Poisson-lognormal Model for Count Data for Multiple-Trait Multiple-Environment Genomic-Enabled Prediction. G3: Genes, Genomes, Genetics, 2017, 7, 1595-1606.	0.8	17
170	Applications of Genomic Selection in Breeding Wheat for Rust Resistance. Methods in Molecular Biology, 2017, 1659, 173-182.	0.4	7
171	Genomic Prediction in a Large African Maize Population. Crop Science, 2017, 57, 2361-2371.	0.8	25
172	Singleâ€Step Genomic and Pedigree Genotype Ã— Environment Interaction Models for Predicting Wheat Lines in International Environments. Plant Genome, 2017, 10, plantgenome2016.09.0089.	1.6	66
173	Bayesian Genomic-Enabled Prediction Models for Ordinal and Count Data. , 2017, , 55-97.		4
174	Genomic Prediction with Pedigree and Genotype Ã— Environment Interaction in Spring Wheat Grown in South and West Asia, North Africa, and Mexico. G3: Genes, Genomes, Genetics, 2017, 7, 481-495.	0.8	56
175	Predicting grain yield using canopy hyperspectral reflectance in wheat breeding data. Plant Methods, 2017, 13, 4.	1.9	107
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