

Paulino PÃ©rez-RodrÃ©guez

List of Publications by Year in descending order

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98
papers

8,073
citations

94381

37
h-index

56687

83
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102
all docs

102
docs citations

102
times ranked

5874
citing authors

#	ARTICLE	IF	CITATIONS
1	Genome-Wide Regression and Prediction with the BGLR Statistical Package. <i>Genetics</i> , 2014, 198, 483-495.	1.2	1,145
2	Genomic Selection in Plant Breeding: Methods, Models, and Perspectives. <i>Trends in Plant Science</i> , 2017, 22, 961-975.	4.3	1,004
3	Prediction of Genetic Values of Quantitative Traits in Plant Breeding Using Pedigree and Molecular Markers. <i>Genetics</i> , 2010, 186, 713-724.	1.2	664
4	PlnTFDB: updated content and new features of the plant transcription factor database. <i>Nucleic Acids Research</i> , 2010, 38, D822-D827.	6.5	635
5	A reaction norm model for genomic selection using high-dimensional genomic and environmental data. <i>Theoretical and Applied Genetics</i> , 2014, 127, 595-607.	1.8	439
6	Genomic prediction in CIMMYT maize and wheat breeding programs. <i>Heredity</i> , 2014, 112, 48-60.	1.2	357
7	Improving grain yield, stress resilience and quality of bread wheat using large-scale genomics. <i>Nature Genetics</i> , 2019, 51, 1530-1539.	9.4	216
8	Comparison Between Linear and Non-parametric Regression Models for Genome-Enabled Prediction in Wheat. <i>G3: Genes, Genomes, Genetics</i> , 2012, 2, 1595-1605.	0.8	187
9	Genomic prediction in biparental tropical maize populations in water-stressed and well-watered environments using low-density and GBS SNPs. <i>Heredity</i> , 2015, 114, 291-299.	1.2	187
10	Genome-enabled prediction of genetic values using radial basis function neural networks. <i>Theoretical and Applied Genetics</i> , 2012, 125, 759-771.	1.8	180
11	A growth phenotyping pipeline for <i>Arabidopsis thaliana</i> integrating image analysis and rosette area modeling for robust quantification of genotype effects. <i>New Phytologist</i> , 2011, 191, 895-907.	3.5	178
12	Genomic Prediction of Gene Bank Wheat Landraces. <i>G3: Genes, Genomes, Genetics</i> , 2016, 6, 1819-1834.	0.8	159
13	Genomic Selection and Prediction in Plant Breeding. <i>Journal of Crop Improvement</i> , 2011, 25, 239-261.	0.9	131
14	Bayesian Genomic Prediction with Genotype \times Environment Interaction Kernel Models. <i>G3: Genes, Genomes, Genetics</i> , 2017, 7, 41-53.	0.8	126
15	A review of deep learning applications for genomic selection. <i>BMC Genomics</i> , 2021, 22, 19.	1.2	122
16	Genomic Prediction of Genotype \times Environment Interaction Kernel Regression Models. <i>Plant Genome</i> , 2016, 9, plantgenome2016.03.0024.	1.6	118
17	Extending the Marker \times Environment Interaction Model for Genomic-Enabled Prediction and Genome-Wide Association Analysis in Durum Wheat. <i>Crop Science</i> , 2016, 56, 2193-2209.	0.8	101
18	Hyperspectral Reflectance-Derived Relationship Matrices for Genomic Prediction of Grain Yield in Wheat. <i>G3: Genes, Genomes, Genetics</i> , 2019, 9, 1231-1247.	0.8	96

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19	Applications of Machine Learning Methods to Genomic Selection in Breeding Wheat for Rust Resistance. <i>Plant Genome</i> , 2018, 11, 170104.	1.6	94
20	Mathematical modeling and comparison of protein size distribution in different plant, animal, fungal and microbial species reveals a negative correlation between protein size and protein number, thus providing insight into the evolution of proteomes. <i>BMC Research Notes</i> , 2012, 5, 85.	0.6	93
21	Genomic prediction for grain zinc and iron concentrations in spring wheat. <i>Theoretical and Applied Genetics</i> , 2016, 129, 1595-1605.	1.8	93
22	Genomic-Enabled Prediction in Maize Using Kernel Models with Genotype \times Environment Interaction. <i>G3: Genes, Genomes, Genetics</i> , 2017, 7, 1995-2014.	0.8	92
23	Rapid Cycling Genomic Selection in a Multiparental Tropical Maize Population. <i>G3: Genes, Genomes, Genetics</i> , 2017, 7, 2315-2326.	0.8	92
24	Integrating genomic-enabled prediction and high-throughput phenotyping in breeding for climate-resilient bread wheat. <i>Theoretical and Applied Genetics</i> , 2019, 132, 177-194.	1.8	78
25	Deep Kernel and Deep Learning for Genome-Based Prediction of Single Traits in Multienvironment Breeding Trials. <i>Frontiers in Genetics</i> , 2019, 10, 1168.	1.1	77
26	Single-Step Genomic and Pedigree Genotype \times Environment Interaction Models for Predicting Wheat Lines in International Environments. <i>Plant Genome</i> , 2017, 10, plantgenome2016.09.0089.	1.6	66
27	Prospects and Challenges of Applied Genomic Selection—A New Paradigm in Breeding for Grain Yield in Bread Wheat. <i>Plant Genome</i> , 2018, 11, 180017.	1.6	65
28	Deep Kernel for Genomic and Near Infrared Predictions in Multi-environment Breeding Trials. <i>G3: Genes, Genomes, Genetics</i> , 2019, 9, 2913-2924.	0.8	61
29	A Pedigree-Based Reaction Norm Model for Prediction of Cotton Yield in Multienvironment Trials. <i>Crop Science</i> , 2015, 55, 1143-1151.	0.8	58
30	Hybrid Wheat Prediction Using Genomic, Pedigree, and Environmental Covariables Interaction Models. <i>Plant Genome</i> , 2019, 12, 180051.	1.6	58
31	Empirical Comparison of Tropical Maize Hybrids Selected Through Genomic and Phenotypic Selections. <i>Frontiers in Plant Science</i> , 2019, 10, 1502.	1.7	54
32	Genomic-enabled prediction with classification algorithms. <i>Heredity</i> , 2014, 112, 616-626.	1.2	52
33	Genome-enabled prediction using probabilistic neural network classifiers. <i>BMC Genomics</i> , 2016, 17, 208.	1.2	51
34	A data-driven simulation platform to predict cultivars' performances under uncertain weather conditions. <i>Nature Communications</i> , 2020, 11, 4876.	5.8	50
35	Threshold Models for Genome-Enabled Prediction of Ordinal Categorical Traits in Plant Breeding. <i>G3: Genes, Genomes, Genetics</i> , 2015, 5, 291-300.	0.8	47
36	Genomic models with genotype \times environment interaction for predicting hybrid performance: an application in maize hybrids. <i>Theoretical and Applied Genetics</i> , 2017, 130, 1431-1440.	1.8	46

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37	When less can be better: How can we make genomic selection more cost-effective and accurate in barley?. <i>Theoretical and Applied Genetics</i> , 2018, 131, 1873-1890.	1.8	45
38	Technical Note: An R package for fitting Bayesian regularized neural networks with applications in animal breeding1. <i>Journal of Animal Science</i> , 2013, 91, 3522-3531.	0.2	43
39	Plant Proteins Are Smaller Because They Are Encoded by Fewer Exons than Animal Proteins. <i>Genomics, Proteomics and Bioinformatics</i> , 2016, 14, 357-370.	3.0	43
40	An R Package for Bayesian Analysis of Multi-environment and Multi-trait Multi-environment Data for Genome-Based Prediction. <i>G3: Genes, Genomes, Genetics</i> , 2019, 9, 1355-1369.	0.8	39
41	Selection of the Bandwidth Parameter in a Bayesian Kernel Regression Model for Genomic-Enabled Prediction. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2015, 20, 512-532.	0.7	38
42	Genomic prediction of sugar content and cane yield in sugar cane clones in different stages of selection in a breeding program, with and without pedigree information. <i>Molecular Breeding</i> , 2020, 40, 1.	1.0	35
43	Strategies for Effective Use of Genomic Information in Crop Breeding Programs Serving Africa and South Asia. <i>Frontiers in Plant Science</i> , 2020, 11, 353.	1.7	33
44	Incorporating Genetic Heterogeneity in Whole-Genome Regressions Using Interactions. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2015, 20, 467-490.	0.7	32
45	SNP and Haplotype-Based Genomic Selection of Quantitative Traits in <i>Eucalyptus globulus</i> . <i>Plants</i> , 2019, 8, 331.	1.6	32
46	Genomic prediction across years in a maize doubled haploid breeding program to accelerate early-stage testcross testing. <i>Theoretical and Applied Genetics</i> , 2020, 133, 2869-2879.	1.8	26
47	Target Population of Environments for Wheat Breeding in India: Definition, Prediction and Genetic Gains. <i>Frontiers in Plant Science</i> , 2021, 12, 638520.	1.7	26
48	Diacylglycerol Kinases Are Widespread in Higher Plants and Display Inducible Gene Expression in Response to Beneficial Elements, Metal, and Metalloid Ions. <i>Frontiers in Plant Science</i> , 2017, 08, 129.	1.7	25
49	Genomic Prediction with Genotype by Environment Interaction Analysis for Kernel Zinc Concentration in Tropical Maize Germplasm. <i>G3: Genes, Genomes, Genetics</i> , 2020, 10, 2629-2639.	0.8	21
50	Maize responsiveness to <i>Azospirillum brasilense</i> : Insights into genetic control, heterosis and genomic prediction. <i>PLoS ONE</i> , 2019, 14, e0217571.	1.1	19
51	Genome-Based Genotype \times Environment Prediction Enhances Potato (<i>Solanum tuberosum</i> L.) Improvement Using Pseudo-Diploid and Polysomic Tetraploid Modeling. <i>Frontiers in Plant Science</i> , 2022, 13, 785196.	1.7	19
52	Genomic Prediction Models for Count Data. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2015, 20, 533-554.	0.7	18
53	Application of Genomic Selection at the Early Stage of Breeding Pipeline in Tropical Maize. <i>Frontiers in Plant Science</i> , 2021, 12, 685488.	1.7	18
54	A Goodness-of-Fit Test for the Gumbel Distribution Based on Kullback-Leibler Information. <i>Communications in Statistics - Theory and Methods</i> , 2009, 38, 842-855.	0.6	17

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55	Multivariate Bayesian Analysis of On-Farm Trials with Multiple-Trait and Multiple-Environment Data. <i>Agronomy Journal</i> , 2019, 111, 2658-2669.	0.9	17
56	Approximate Genome-Based Kernel Models for Large Data Sets Including Main Effects and Interactions. <i>Frontiers in Genetics</i> , 2020, 11, 567757.	1.1	15
57	Genome-enabled prediction for sparse testing in multi-environmental wheat trials. <i>Plant Genome</i> , 2021, 14, e20151.	1.6	15
58	Effectiveness of Shrinkage and Variable Selection Methods for the Prediction of Complex Human Traits using Data from Distantly Related Individuals. <i>Annals of Human Genetics</i> , 2015, 79, 122-135.	0.3	14
59	Genomic prediction of the general combining ability of maize lines (<i>Zea mays</i> L.) and the performance of their single crosses. <i>Plant Breeding</i> , 2018, 137, 379-387.	1.0	14
60	Genome-based prediction of Bayesian linear and non-linear regression models for ordinal data. <i>Plant Genome</i> , 2020, 13, e20021.	1.6	14
61	Joint Use of Genome, Pedigree, and Their Interaction with Environment for Predicting the Performance of Wheat Lines in New Environments. <i>G3: Genes, Genomes, Genetics</i> , 2019, 9, 2925-2934.	0.8	13
62	Multi-trait genomic-enabled prediction enhances accuracy in multi-year wheat breeding trials. <i>G3: Genes, Genomes, Genetics</i> , 2021, 11, .	0.8	13
63	Genome and Environment-Based Prediction Models and Methods of Complex Traits Incorporating Genotype × Environment Interaction. <i>Methods in Molecular Biology</i> , 2022, 2467, 245-283.	0.4	13
64	Assessing combining abilities, genomic data, and genotype × environment interactions to predict hybrid grain sorghum performance. <i>Plant Genome</i> , 2021, 14, e20127.	1.6	12
65	The power of genomic estimated breeding values for selection when using a finite population size in genetic improvement of tetraploid potato. <i>G3: Genes, Genomes, Genetics</i> , 2022, 12, .	0.8	11
66	lme4GS: An R-Package for Genomic Selection. <i>Frontiers in Genetics</i> , 2021, 12, 680569.	1.1	10
67	Response to Early Generation Genomic Selection for Yield in Wheat. <i>Frontiers in Plant Science</i> , 2021, 12, 718611.	1.7	10
68	Invasion of the tropical earthworm <i>Pontoscolex corethrurus</i> (Rhinodrilidae, Oligochaeta) in temperate grasslands. <i>PeerJ</i> , 2016, 4, e2572.	0.9	9
69	Asexual propagation of <i>Pinus leiophylla</i> Schiede ex Schltdl. et Cham.. <i>Revista Chapingo, Serie Ciencias Forestales Y Del Ambiente</i> , 2015, XXI, 81-95.	0.1	8
70	Genome-Wide Association Study for Resistance to Tan Spot in Synthetic Hexaploid Wheat. <i>Plants</i> , 2022, 11, 433.	1.6	8
71	Modeling Genotype × Environment Interaction Using a Factor Analytic Model of On-Farm Wheat Trials in the Yaqui Valley of Mexico. <i>Agronomy Journal</i> , 2019, 111, 2647-2657.	0.9	7
72	Genomic prediction of the performance of hybrids and the combining abilities for line by tester trials in maize. <i>Crop Journal</i> , 2022, 10, 109-116.	2.3	7

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73	Bayesian Genomic-Enabled Prediction as an Inverse Problem. <i>G3: Genes, Genomes, Genetics</i> , 2014, 4, 1991-2001.	0.8	6
74	A Bayesian Genomic Regression Model with Skew Normal Random Errors. <i>G3: Genes, Genomes, Genetics</i> , 2018, 8, 1771-1785.	0.8	6
75	Beta-Diversity Modeling and Mapping with LiDAR and Multispectral Sensors in a Semi-Evergreen Tropical Forest. <i>Forests</i> , 2019, 10, 419.	0.9	6
76	Bayesian regularized quantile regression: A robust alternative for genome-based prediction of skewed data. <i>Crop Journal</i> , 2020, 8, 713-722.	2.3	5
77	Nest site selection and nutritional provision through excreta: a form of parental care in a tropical endogeic earthworm. <i>PeerJ</i> , 2016, 4, e2032.	0.9	5
78	Host Use and Resource Sharing by Fruit/Seed-Infesting Insects on <i>Schoepfia schreberi</i> (Olacaceae). <i>Environmental Entomology</i> , 2013, 42, 231-239.	0.7	4
79	A Bayesian Decision Theory Approach for Genomic Selection. <i>G3: Genes, Genomes, Genetics</i> , 2018, 8, 3019-3037.	0.8	4
80	Multi-generation genomic prediction of maize yield using parametric and non-parametric sparse selection indices. <i>Heredity</i> , 2021, 127, 423-432.	1.2	4
81	A Comparison of the Adoption of Genomic Selection Across Different Breeding Institutions. <i>Frontiers in Plant Science</i> , 2021, 12, 728567.	1.7	4
82	Artificial Neuronal Networks: A Bayesian Approach Using Parallel Computing. <i>Revista Colombiana De Estadística</i> , 2018, 41, 173-189.	0.2	2
83	Allelic and genotypic frequencies for loci associated with meat quality in Mexican Braunvieh cattle. <i>Tropical Animal Health and Production</i> , 2021, 53, 307.	0.5	2
84	Bayesian Estimation for the Centered Parameterization of the Skew-Normal Distribution. <i>Revista Colombiana De Estadística</i> , 2017, 40, 123-140.	0.2	2
85	Genetic diversity in reproductive traits of Braunvieh cattle determined with SNP markers. <i>Veterinary Medicine and Science</i> , 2022, 8, 1709-1720.	0.6	2
86	Integrated genomic and BMI analysis for type 2 diabetes risk assessment. <i>Frontiers in Genetics</i> , 2015, 6, 75.	1.1	1
87	Patterns of Oviposition and Feeding in the Monophagous Fly <i>Anastrepha spatulata</i> (Diptera: Tj ETQq1 1 0.784314 rgBT /Overlock 10 1178-1186.	0.7	1
88	<i>Pontoscolex corethrurus</i> : A homeless invasive tropical earthworm?. <i>PLoS ONE</i> , 2019, 14, e0222337.	1.1	1
89	isqg: A Binary Framework for in Silico Quantitative Genetics. <i>G3: Genes, Genomes, Genetics</i> , 2019, 9, 2425-2428.	0.8	1
90	Genetic Diversity and Population Structure for Resistance and Susceptibility to Mastitis in Braunvieh Cattle. <i>Veterinary Sciences</i> , 2021, 8, 329.	0.6	1

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91	Identificación de cambios en la ciclologénesis del Atlántico Norte mediante un modelo de mezclas Gaussianas. <i>Tecnología Y Ciencias Del Agua</i> , 2017, 08, 05-18.	0.1	0
92	Pontoscolex corethrurus: A homeless invasive tropical earthworm?. , 2019, 14, e0222337.		0
93	Pontoscolex corethrurus: A homeless invasive tropical earthworm?. , 2019, 14, e0222337.		0
94	Pontoscolex corethrurus: A homeless invasive tropical earthworm?. , 2019, 14, e0222337.		0
95	Pontoscolex corethrurus: A homeless invasive tropical earthworm?. , 2019, 14, e0222337.		0
96	Pontoscolex corethrurus: A homeless invasive tropical earthworm?. , 2019, 14, e0222337.		0
97	Pontoscolex corethrurus: A homeless invasive tropical earthworm?. , 2019, 14, e0222337.		0
98	Análisis espacial bayesiano del Índice de Desarrollo Humano municipal, Oaxaca, 2010: una medida de eficiencia. <i>Economía, Sociedad Y Territorio</i> , 2022, 22, 631-659.	0.1	0