

Daniel Gianola

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

100
papers

6,515
citations

41
h-index

80
g-index

105
ext. papers

8,223
ext. citations

3.8
avg, IF

6.2
L-index

#	Paper	IF	Citations
100	Genome-Enabled Prediction Methods Based on Machine Learning.. <i>Methods in Molecular Biology</i> , 2022 , 2467, 189-218	1.4	0
99	Prediction of biological age and evaluation of genome-wide dynamic methylomic changes throughout human aging. <i>G3: Genes, Genomes, Genetics</i> , 2021 ,	3.2	1
98	Feature Selection Stability and Accuracy of Prediction Models for Genomic Prediction of Residual Feed Intake in Pigs Using Machine Learning. <i>Frontiers in Genetics</i> , 2021 , 12, 611506	4.5	5
97	Deep learning versus parametric and ensemble methods for genomic prediction of complex phenotypes. <i>Genetics Selection Evolution</i> , 2020 , 52, 12	4.9	44
96	Integration of single nucleotide variants and whole-genome DNA methylation profiles for classification of rheumatoid arthritis cases from controls. <i>Heredity</i> , 2020 , 124, 658-674	3.6	8
95	A Multiple-Trait Bayesian Lasso for Genome-Enabled Analysis and Prediction of Complex Traits. <i>Genetics</i> , 2020 , 214, 305-331	4	5
94	Inferring trait-specific similarity among individuals from molecular markers and phenotypes with Bayesian regression. <i>Theoretical Population Biology</i> , 2020 , 132, 47-59	1.2	4
93	Machine Learning Prediction of Crossbred Pig Feed Efficiency and Growth Rate From Single Nucleotide Polymorphisms. <i>Frontiers in Genetics</i> , 2020 , 11, 567818	4.5	4
92	New Deep Learning Genomic-Based Prediction Model for Multiple Traits with Binary, Ordinal, and Continuous Phenotypes. <i>G3: Genes, Genomes, Genetics</i> , 2019 , 9, 1545-1556	3.2	41
91	A robust Bayesian genome-based median regression model. <i>Theoretical and Applied Genetics</i> , 2019 , 132, 1587-1606	6	1
90	Deep Kernel and Deep Learning for Genome-Based Prediction of Single Traits in Multienvironment Breeding Trials. <i>Frontiers in Genetics</i> , 2019 , 10, 1168	4.5	25
89	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	3.2	7
88	A Benchmarking Between Deep Learning, Support Vector Machine and Bayesian Threshold Best Linear Unbiased Prediction for Predicting Ordinal Traits in Plant Breeding. <i>G3: Genes, Genomes, Genetics</i> , 2019 , 9, 601-618	3.2	51
87	A certain invariance property of BLUE in a whole-genome regression context. <i>Journal of Animal Breeding and Genetics</i> , 2019 , 136, 113-117	2.9	2
86	Applications of Machine Learning Methods to Genomic Selection in Breeding Wheat for Rust Resistance. <i>Plant Genome</i> , 2018 , 11, 170104	4.4	58
85	Prediction of Complex Traits: Robust Alternatives to Best Linear Unbiased Prediction. <i>Frontiers in Genetics</i> , 2018 , 9, 195	4.5	11
84	Predictive ability of genome-assisted statistical models under various forms of gene action. <i>Scientific Reports</i> , 2018 , 8, 12309	4.9	25

83	Including Phenotypic Causal Networks in Genome-Wide Association Studies Using Mixed Effects Structural Equation Models. <i>Frontiers in Genetics</i> , 2018 , 9, 455	4.5	15
82	Multi-environment Genomic Prediction of Plant Traits Using Deep Learners With Dense Architecture. <i>G3: Genes, Genomes, Genetics</i> , 2018 , 8, 3813-3828	3.2	58
81	Multi-trait, Multi-environment Deep Learning Modeling for Genomic-Enabled Prediction of Plant Traits. <i>G3: Genes, Genomes, Genetics</i> , 2018 , 8, 3829-3840	3.2	55
80	A predictive assessment of genetic correlations between traits in chickens using markers. <i>Genetics Selection Evolution</i> , 2017 , 49, 16	4.9	26
79	Assessing genomic prediction accuracy for Holstein sires using bootstrap aggregation sampling and leave-one-out cross validation. <i>Journal of Dairy Science</i> , 2017 , 100, 453-464	4	14
78	Genome-wide association analysis in dogs implicates 99 loci as risk variants for anterior cruciate ligament rupture. <i>PLoS ONE</i> , 2017 , 12, e0173810	3.7	25
77	It is unlikely that genomic selection will ever be 100% accurate. <i>Journal of Animal Breeding and Genetics</i> , 2017 , 134, 438-440	2.9	2
76	Cross-Validation Without Doing Cross-Validation in Genome-Enabled Prediction. <i>G3: Genes, Genomes, Genetics</i> , 2016 , 6, 3107-3128	3.2	28
75	Genome-Wide Association Studies with a Genomic Relationship Matrix: A Case Study with Wheat and Arabidopsis. <i>G3: Genes, Genomes, Genetics</i> , 2016 , 6, 3241-3256	3.2	16
74	Incorporating parent-of-origin effects in whole-genome prediction of complex traits. <i>Genetics Selection Evolution</i> , 2016 , 48, 34	4.9	7
73	Differential contribution of genomic regions to marked genetic variation and prediction of quantitative traits in broiler chickens. <i>Genetics Selection Evolution</i> , 2016 , 48, 10	4.9	20
72	Genome-enabled prediction using probabilistic neural network classifiers. <i>BMC Genomics</i> , 2016 , 17, 208	4.5	35
71	Improving reliability of genomic predictions for Jersey sires using bootstrap aggregation sampling. <i>Journal of Dairy Science</i> , 2016 , 99, 3632-3645	4	6
70	Do Molecular Markers Inform About Pleiotropy?. <i>Genetics</i> , 2015 , 201, 23-9	4	42
69	The Causal Meaning of Genomic Predictors and How It Affects Construction and Comparison of Genome-Enabled Selection Models. <i>Genetics</i> , 2015 , 200, 483-94	4	17
68	Genomic heritability: what is it?. <i>PLoS Genetics</i> , 2015 , 11, e1005048	6	183
67	Application of neural networks with back-propagation to genome-enabled prediction of complex traits in Holstein-Friesian and German Fleckvieh cattle. <i>Genetics Selection Evolution</i> , 2015 , 47, 22	4.9	43
66	Defining window-boundaries for genomic analyses using smoothing spline techniques. <i>Genetics Selection Evolution</i> , 2015 , 47, 30	4.9	51

65	A GWAS assessment of the contribution of genomic imprinting to the variation of body mass index in mice. <i>BMC Genomics</i> , 2015 , 16, 576	4.5	8
64	Prediction of Plant Height in <i>Arabidopsis thaliana</i> Using DNA Methylation Data. <i>Genetics</i> , 2015 , 201, 779-93	4.5	45
63	One hundred years of statistical developments in animal breeding. <i>Annual Review of Animal Biosciences</i> , 2015 , 3, 19-56	13.7	44
62	Genome-enabled prediction of quantitative traits in chickens using genomic annotation. <i>BMC Genomics</i> , 2014 , 15, 109	4.5	31
61	Machine learning methods and predictive ability metrics for genome-wide prediction of complex traits. <i>Livestock Science</i> , 2014 , 166, 217-231	1.7	73
60	Whole genome prediction of bladder cancer risk with the Bayesian LASSO. <i>Genetic Epidemiology</i> , 2014 , 38, 467-76	2.6	10
59	A genome-wide scan for evidence of selection in a maize population under long-term artificial selection for ear number. <i>Genetics</i> , 2014 , 196, 829-40	4	47
58	Enhancing genome-enabled prediction by bagging genomic BLUP. <i>PLoS ONE</i> , 2014 , 9, e91693	3.7	32
57	Meta-analysis of candidate gene effects using bayesian parametric and non-parametric approaches. <i>Journal of Genomics</i> , 2014 , 2, 1-19	0.9	1
56	Kernel-based whole-genome prediction of complex traits: a review. <i>Frontiers in Genetics</i> , 2014 , 5, 363	4.5	88
55	Kernel-based variance component estimation and whole-genome prediction of pre-corrected phenotypes and progeny tests for dairy cow health traits. <i>Frontiers in Genetics</i> , 2014 , 5, 56	4.5	21
54	Bayesian genomic-enabled prediction as an inverse problem. <i>G3: Genes, Genomes, Genetics</i> , 2014 , 4, 1991-2001	5	5
53	Effect of genotype imputation on genome-enabled prediction of complex traits: an empirical study with mice data. <i>BMC Genomics</i> , 2014 , 15, 149	2.6	10
52	Bayesian analysis of additive epistasis arising from new mutations in mice. <i>Genetical Research</i> , 2014 , 96, e008	1.1	2
51	Priors in whole-genome regression: the bayesian alphabet returns. <i>Genetics</i> , 2013 , 194, 573-96	4	248
50	Predicting complex traits using a diffusion kernel on genetic markers with an application to dairy cattle and wheat data. <i>Genetics Selection Evolution</i> , 2013 , 45, 17	4.9	28
49	Evaluation of linkage disequilibrium in wheat with an L1-regularized sparse Markov network. <i>Theoretical and Applied Genetics</i> , 2013 , 126, 1991-2002	6	4
48	Predicting expected progeny difference for marbling score in Angus cattle using artificial neural networks and Bayesian regression models. <i>Genetics Selection Evolution</i> , 2013 , 45, 34	4.9	35

47	Contribution of an additive locus to genetic variance when inheritance is multi-factorial with implications on interpretation of GWAS. <i>Theoretical and Applied Genetics</i> , 2013 , 126, 1457-72	6	16
46	Sensitivity to prior specification in Bayesian genome-based prediction models. <i>Statistical Applications in Genetics and Molecular Biology</i> , 2013 , 12, 375-91	1.2	26
45	On measures of association among genetic variables. <i>Animal Genetics</i> , 2012 , 43 Suppl 1, 19-35	2.5	9
44	A high resolution genome-wide scan for significant selective sweeps: an application to pooled sequence data in laying chickens. <i>PLoS ONE</i> , 2012 , 7, e49525	3.7	44
43	Accuracy of Genome-Enabled Prediction in a Dairy Cattle Population using Different Cross-Validation Layouts. <i>Frontiers in Genetics</i> , 2012 , 3, 27	4.5	24
42	Using whole-genome sequence data to predict quantitative trait phenotypes in <i>Drosophila melanogaster</i> . <i>PLoS Genetics</i> , 2012 , 8, e1002685	6	144
41	Comparison between linear and non-parametric regression models for genome-enabled prediction in wheat. <i>G3: Genes, Genomes, Genetics</i> , 2012 , 2, 1595-605	3.2	130
40	A comprehensive genetic approach for improving prediction of skin cancer risk in humans. <i>Genetics</i> , 2012 , 192, 1493-502	4	44
39	An ensemble-based approach to imputation of moderate-density genotypes for genomic selection with application to Angus cattle. <i>Genetical Research</i> , 2012 , 94, 133-50	1.1	29
38	Predicting complex quantitative traits with Bayesian neural networks: a case study with Jersey cows and wheat. <i>BMC Genetics</i> , 2011 , 12, 87	2.6	135
37	A primer on high-throughput computing for genomic selection. <i>Frontiers in Genetics</i> , 2011 , 2, 4	4.5	14
36	Marker-assisted prediction of non-additive genetic values. <i>Genetica</i> , 2011 , 139, 843-54	1.5	20
35	Application of support vector regression to genome-assisted prediction of quantitative traits. <i>Theoretical and Applied Genetics</i> , 2011 , 123, 1065-74	6	44
34	Long-term impacts of genome-enabled selection. <i>Journal of Applied Genetics</i> , 2011 , 52, 467-80	2.5	12
33	Inferring causal phenotype networks using structural equation models. <i>Genetics Selection Evolution</i> , 2011 , 43, 6	4.9	77
32	Application of site and haplotype-frequency based approaches for detecting selection signatures in cattle. <i>BMC Genomics</i> , 2011 , 12, 318	4.5	110
31	Prediction of body mass index in mice using dense molecular markers and a regularized neural network. <i>Genetical Research</i> , 2011 , 93, 189-201	1.1	51
30	Predicting genetic predisposition in humans: the promise of whole-genome markers. <i>Nature Reviews Genetics</i> , 2010 , 11, 880-6	30.1	205

29	Semi-parametric genomic-enabled prediction of genetic values using reproducing kernel Hilbert spaces methods. <i>Genetical Research</i> , 2010 , 92, 295-308	1.1	221
28	L2-Boosting algorithm applied to high-dimensional problems in genomic selection. <i>Genetical Research</i> , 2010 , 92, 227-37	1.1	20
27	Radial basis function regression methods for predicting quantitative traits using SNP markers. <i>Genetical Research</i> , 2010 , 92, 209-25	1.1	35
26	Prediction of genetic values of quantitative traits in plant breeding using pedigree and molecular markers. <i>Genetics</i> , 2010 , 186, 713-24	4	508
25	A two-step method for detecting selection signatures using genetic markers. <i>Genetical Research</i> , 2010 , 92, 141-55	1.1	30
24	Genomic-Enabled Prediction Based on Molecular Markers and Pedigree Using the Bayesian Linear Regression Package in R. <i>Plant Genome</i> , 2010 , 3, 106-116	4.4	151
23	A non-parametric mixture model for genome-enabled prediction of genetic value for a quantitative trait. <i>Genetica</i> , 2010 , 138, 959-77	1.5	8
22	Additive genetic variability and the Bayesian alphabet. <i>Genetics</i> , 2009 , 183, 347-63	4	308
21	Comparison of classification methods for detecting associations between SNPs and chick mortality. <i>Genetics Selection Evolution</i> , 2009 , 41, 18	4.9	15
20	Genome-assisted prediction of a quantitative trait measured in parents and progeny: application to food conversion rate in chickens. <i>Genetics Selection Evolution</i> , 2009 , 41, 3	4.9	44
19	Predicting quantitative traits with regression models for dense molecular markers and pedigree. <i>Genetics</i> , 2009 , 182, 375-85	4	392
18	Inferring genetic values for quantitative traits non-parametrically. <i>Genetical Research</i> , 2008 , 90, 525-40	1.1	48
17	Nonparametric methods for incorporating genomic information into genetic evaluations: an application to mortality in broilers. <i>Genetics</i> , 2008 , 178, 2305-13	4	89
16	Reproducing kernel hilbert spaces regression methods for genomic assisted prediction of quantitative traits. <i>Genetics</i> , 2008 , 178, 2289-303	4	271
15	Inferring fixed effects in a mixed linear model from an integrated likelihood. <i>Acta Agriculturae Scandinavica - Section A: Animal Science</i> , 2007 , 57, 183-191	0.6	
14	On the quantitative genetics of mixture characters. <i>Genetics</i> , 2006 , 173, 2247-55	4	14
13	A Thurstonian model for quantitative genetic analysis of ranks: a Bayesian approach. <i>Genetics</i> , 2006 , 174, 1613-24	4	11
12	Genomic-assisted prediction of genetic value with semiparametric procedures. <i>Genetics</i> , 2006 , 173, 1761-76		287

11	Quantitative genetic models for describing simultaneous and recursive relationships between phenotypes. <i>Genetics</i> , 2004 , 167, 1407-24	4	140
10	On marker-assisted prediction of genetic value: beyond the ridge. <i>Genetics</i> , 2003 , 163, 347-65	4	81
9	Likelihood, Bayesian, and MCMC Methods in Quantitative Genetics 2002 ,		422
8	Statistics in Animal Breeding. <i>Journal of the American Statistical Association</i> , 2000 , 95, 296-299	2.8	9
7	Mixed effects linear models with t-distributions for quantitative genetic analysis: a Bayesian approach. <i>Genetics Selection Evolution</i> , 1999 , 31, 25	4.9	28
6	Attenuating effects of preferential treatment with Student-t mixed linear models: a simulation study. <i>Genetics Selection Evolution</i> , 1998 , 30, 565	4.9	15
5	Bayesian Methods in Animal Breeding Theory. <i>Journal of Animal Science</i> , 1986 , 63, 217-244	0.7	231
4	Theory and Analysis of Threshold Characters. <i>Journal of Animal Science</i> , 1982 , 54, 1079-1096	0.7	330
3	Statistics in Animal Breeding		2
2	Genome-wide methylation prediction of biological age using reproducing kernel Hilbert spaces and Bayesian ridge regressions		3
1	Including phenotypic causal networks in genome-wide association studies using mixed effects structural equation models		1