Luiz F Brito

List of Publications by Citations

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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.

94 papers	1,117 citations	18 h-index	28 g-index
102 ext. papers	1,918 ext. citations	3.1 avg, IF	4.85 L-index

#	Paper	IF	Citations
94	A 100-Year Review: Identification and genetic selection of economically important traits in dairy cattle. *Journal of Dairy Science*, **2017**, 100, 10251-10271	4	154
93	Genetic diversity and signatures of selection in various goat breeds revealed by genome-wide SNP markers. *BMC Genomics*, **2017**, 18, 229	4.5	70
92	Symposium review: Novel strategies to genetically improve mastitis resistance in dairy cattle. *Journal of Dairy Science*, **2018**, 101, 2724-2736	4	62
91	Genome-Wide Characterization of Selection Signatures and Runs of Homozygosity in Ugandan Goat Breeds. *Frontiers in Genetics*, **2018**, 9, 318	4.5	46
90	Characterization of linkage disequilibrium, consistency of gametic phase and admixture in Australian and Canadian goats. *BMC Genetics*, **2015**, 16, 67	2.6	45
89	Genome-wide association studies and genomic prediction of breeding values for calving performance and body conformation traits in Holstein cattle. *Genetics Selection Evolution*, **2017**, 49, 82	4.9	32
88	Prediction of genomic breeding values for growth, carcass and meat quality traits in a multi-breed sheep population using a HD SNP chip. *BMC Genetics*, **2017**, 18, 7	2.6	28
87	Genetic diversity, extent of linkage disequilibrium and persistence of gametic phase in Canadian pigs. *BMC Genetics*, **2017**, 18, 6	2.6	25
86	Genome-wide association for milk production traits and somatic cell score in different lactation stages of Ayrshire, Holstein, and Jersey dairy cattle. *Journal of Dairy Science*, **2019**, 102, 8159-8174	4	21
85	Application of single-step genomic evaluation using multiple-trait random regression test-day models in dairy cattle. *Journal of Dairy Science*, **2019**, 102, 2365-2377	4	21
84	Genetic parameters for various growth, carcass and meat quality traits in a New Zealand sheep population. *Small Ruminant Research*, **2017**, 154, 81-91	1.7	21
83	Large-Scale Phenotyping of Livestock Welfare in Commercial Production Systems: A New Frontier in Animal Breeding. *Frontiers in Genetics*, **2020**, 11, 793	4.5	21
82	Genetic and environmental factors that influence production and quality of milk of Alpine and Saanen goats. *Genetics and Molecular Research*, **2011**, 10, 3794-802	1.2	20
81	Genetic Architecture of Carcass and Meat Quality Traits in Montana Tropical Composite Beef Cattle. *Frontiers in Genetics*, **2020**, 11, 123	4.5	19
80	Genetic diversity of a New Zealand multi-breed sheep population and composite breedsVhistory revealed by a high-density SNP chip. *BMC Genetics*, **2017**, 18, 25	2.6	19
79	Integrating High-Throughput Phenotyping and Statistical Genomic Methods to Genetically Improve Longitudinal Traits in Crops. *Frontiers in Plant Science*, **2020**, 11, 681	6.2	19
78	Single-step genome-wide association for longitudinal traits of Canadian Ayrshire, Holstein, and Jersey dairy cattle. *Journal of Dairy Science*, **2019**, 102, 9995-10011	4	18

77	Invited review: Determination of large-scale individual dry matter intake phenotypes in dairy cattle. *Journal of Dairy Science*, **2019**, 102, 7655-7663	4	18
76	Invited review: Advances and applications of random regression models: From quantitative genetics to genomics. *Journal of Dairy Science*, **2019**, 102, 7664-7683	4	18
75	Genetics and genomics of reproductive disorders in Canadian Holstein cattle. *Journal of Dairy Science*, **2019**, 102, 1341-1353	4	18
74	Estimation of linkage disequilibrium and effective population size in New Zealand sheep using three different methods to create genetic maps. *BMC Genetics*, **2017**, 18, 68	2.6	17
73	Comparison of genomic predictions for lowly heritable traits using multi-step and single-step genomic best linear unbiased predictor in Holstein cattle. *Journal of Dairy Science*, **2018**, 101, 8076-8086	4	16
72	Symposium review: The choice and collection of new relevant phenotypes for fertility selection. *Journal of Dairy Science*, **2019**, 102, 3722-3734	4	15
71	Comparing deregression methods for genomic prediction of test-day traits in dairy cattle. *Journal of Animal Breeding and Genetics*, **2018**, 135, 97-106	2.9	14
70	Detection of functional polymorphisms in the hsp70 gene and association with cold stress response in Inner-Mongolia Sanhe cattle. *Cell Stress and Chaperones*, **2019**, 24, 409-418	4	13
69	Differential gene expression in the peripheral blood of Chinese Sanhe cattle exposed to severe cold stress. *Genetics and Molecular Research*, **2017**, 16,	1.2	12
68	Review: Genetic selection of high-yielding dairy cattle toward sustainable farming systems in a rapidly changing world. *Animal*, **2021**, 15, 100292	3.1	12
67	Genomic prediction of lactation curves for milk, fat, protein, and somatic cell score in Holstein cattle. *Journal of Dairy Science*, **2019**, 102, 452-463	4	12
66	The genetic architecture of milk ELISA scores as an indicator of Johne\'s disease (paratuberculosis) in dairy cattle. *Journal of Dairy Science*, **2018**, 101, 10062-10075	4	12
65	Genomic predictions for economically important traits in Brazilian Braford and Hereford beef cattle using true and imputed genotypes. *BMC Genetics*, **2017**, 18, 2	2.6	11
64	Bayesian Models combining Legendre and B-spline polynomials for genetic analysis of multiple lactations in Gyr cattle. *Livestock Science*, **2017**, 201, 78-84	1.7	11
63	Estimation of direct and maternal genetic parameters for individual birth weight, weaning weight, and probe weight in Yorkshire and Landrace pigs. *Journal of Animal Science*, **2018**, 96, 2567-2578	0.7	11
62	A comprehensive comparison between single- and two-step GBLUP methods in a simulated beef cattle population. *Canadian Journal of Animal Science*, **2018**, 98, 565-575	0.9	10
61	Estimates of heritability of atrial fibrillation in the Standardbred racehorse. *Equine Veterinary Journal*, **2017**, 49, 718-722	2.4	10
60	Genetic Diversity and Signatures of Selection for Thermal Stress in Cattle and Other Two Species Adapted to Divergent Climatic Conditions. *Frontiers in Genetics*, **2021**, 12, 604823	4.5	10

59	Mortality-Culling Rates of Dairy Calves and Replacement Heifers and Its Risk Factors in Holstein Cattle. *Animals*, **2019**, 9,	3.1	9
58	Genotype imputation from various low-density SNP panels and its impact on accuracy of genomic breeding values in pigs. *Animal*, **2018**, 12, 2235-2245	3.1	9
57	Genome-Wide Association Study for Milk Fatty Acids in Holstein Cattle Accounting for the Gene Effect. *Animals*, **2019**, 9,	3.1	9
56	Investigating the genetic architecture of conception and non-return rates in Holstein cattle under heat stress conditions. *Tropical Animal Health and Production*, **2019**, 51, 1847-1853	1.7	8
55	Genomics of Heat Tolerance in Reproductive Performance Investigated in Four Independent Maternal Lines of Pigs. *Frontiers in Genetics*, **2020**, 11, 629	4.5	8
54	Using imputed whole-genome sequence variants to uncover candidate mutations and genes affecting milking speed and temperament in Holstein cattle. *Journal of Dairy Science*, **2020**, 103, 10383-10398	4	8
53	Comparison of genomic prediction methods for evaluation of adaptation and productive efficiency traits in Braford and Hereford cattle. *Livestock Science*, **2020**, 231, 103864	1.7	8
52	Opportunities and challenges of phenomics applied to livestock and aquaculture breeding in South America. *Animal Frontiers*, **2020**, 10, 45-52	5.5	7
51	Random regression models using Legendre orthogonal polynomials to evaluate the milk production of Alpine goats. *Genetics and Molecular Research*, **2013**, 12, 6502-11	1.2	7
50	Genomic predictions based on haplotypes fitted as pseudo-SNP for milk production and udder type traits and SCS in French dairy goats. *Journal of Dairy Science*, **2020**, 103, 11559-11573	4	7
49	Estimation of additive and non-additive genetic effects for fertility and reproduction traits in North American Holstein cattle using genomic information. *Journal of Animal Breeding and Genetics*, **2020**, 137, 316-330	2.9	7
48	Genomic evaluation for novel stayability traits in Nellore cattle. *Reproduction in Domestic Animals*, **2020**, 55, 266-273	1.6	7
47	Genetic Parameters and Genome-Wide Association Studies for Anti-M□llerian Hormone Levels and Antral Follicle Populations Measured After Estrus Synchronization in Nellore Cattle. *Animals*, **2020**, 10,	3.1	7
46	Unravelling biological biotypes for growth, visual score and reproductive traits in Nellore cattle via principal component analysis. *Livestock Science*, **2018**, 217, 37-43	1.7	7
45	Genomic analyses for predicted milk fatty acid composition throughout lactation in North American Holstein cattle. *Journal of Dairy Science*, **2020**, 103, 6318-6331	4	6
44	Using Random Regression Models to Genetically Evaluate Functional Longevity Traits in North American Angus Cattle. *Animals*, **2020**, 10,	3.1	5
43	Genome-wide associations and detection of candidate genes for direct and maternal genetic effects influencing growth traits in the Montana Tropical□ Composite population. *Livestock Science* , **2019**, 229, 64-76	1.7	5
42	Factors that influence the test day milk yield and composition. *Genetics and Molecular Research*, **2013**, 12, 1522-32	1.2	5

41	Comparison between haplotype-based and individual snp-based genomic predictions for beef fatty acid profile in Nelore cattle. *Journal of Animal Breeding and Genetics*, **2020**, 137, 468-476	2.9	5
40	Association Analysis of Polymorphisms in the 5V Flanking Region of the Gene with Blood Biochemical Parameters of Lactating Holstein Cows under Heat and Cold Stress. *Animals*, **2020**, 10,	3.1	5
39	Short communication: Time-dependent genetic parameters and single-step genome-wide association analyses for predicted milk fatty acid composition in Ayrshire and Jersey dairy cattle. *Journal of Dairy Science*, **2020**, 103, 5263-5269	4	5
38	Short communication: Genetic parameter estimates for caprine arthritis encephalitis in dairy goats. *Journal of Dairy Science*, **2020**, 103, 6407-6411	4	5
37	Genomic analyses and biological validation of candidate genes for rectal temperature as an indicator of heat stress in Holstein cattle. *Journal of Dairy Science*, **2021**, 104, 4441-4451	4	5
36	Genotype-by-environment interactions for reproduction, body composition, and growth traits in maternal-line pigs based on single-step genomic reaction norms. *Genetics Selection Evolution*, **2021**, 53, 51	4.9	5
35	Marginal ancestral contributions to atrial fibrillation in the Standardbred racehorse: Comparison of cases and controls. *PLoS ONE*, **2018**, 13, e0197137	3.7	5
34	Incorporating temperament traits in dairy cattle breeding programs: challenges and opportunities in the phenomics era. *Animal Frontiers*, **2020**, 10, 29-36	5.5	4
33	Modelling lactation curves of dairy goats by fitting random regression models using Legendre polynomials or B-splines. *Canadian Journal of Animal Science*, **2017**,	0.9	4
32	Novel methods for genotype imputation to whole-genome sequence and a simple linear model to predict imputation accuracy. *BMC Genetics*, **2017**, 18, 120	2.6	4
31	Genetic parameters for rectal temperature, respiration rate, and drooling score in Holstein cattle and their relationships with various fertility, production, body conformation, and health traits. *Journal of Dairy Science*, **2021**, 104, 4390-4403	4	4
30	A genetic evaluation of growth, ultrasound, and carcass traits at alternative slaughter endpoints in crossbred heavy lambs. *Journal of Animal Science*, **2019**, 97, 521-535	0.7	4
29	A Systematic Review of Genomic Regions and Candidate Genes Underlying Behavioral Traits in Farmed Mammals and Their Link with Human Disorders. *Animals*, **2021**, 11,	3.1	4
28	Investigating the Short-Term Effects of Cold Stress on Metabolite Responses and Metabolic Pathways in Inner-Mongolia Sanhe Cattle. *Animals*, **2021**, 11,	3.1	4
27	Impact of including information from bulls and their daughters in the training population of multiple-step genomic evaluations in dairy cattle: A simulation study. *Journal of Animal Breeding and Genetics*, **2019**, 136, 441-452	2.9	3
26	Single-step genomic evaluation of milk production traits in Canadian Alpine and Saanen dairy goats.. *Journal of Dairy Science*, **2022**,	4	3
25	Modelos de regressão aleatória na avaliação da produção de leite em cabras da raça Saanen. *Revista Brasileira De Zootecnia*, **2011**, 40, 1526-1532	1.2	3
24	Comprehensive RNA-Seq Profiling Reveals Temporal and Tissue-Specific Changes in Gene Expression in Sprague-Dawley Rats as Response to Heat Stress Challenges. *Frontiers in Genetics*, **2021**, 12, 651979	4.5	3

23	Estimation of Genetic Parameters for Pork Quality, Novel Carcass, Primal-Cut and Growth Traits in Duroc Pigs. *Animals*, **2020**, 10,	3.1	2
22	Genetic Connectedness Between Norwegian White Sheep and New Zealand Composite Sheep Populations With Similar Development History. *Frontiers in Genetics*, **2020**, 11, 371	4.5	2
21	Genomic regions associated with principal components for growth, visual score and reproductive traits in Nellore cattle. *Livestock Science*, **2020**, 233, 103936	1.7	2
20	Assessing genetic diversity of various Canadian sheep breeds through pedigree analyses. *Canadian Journal of Animal Science*, **2018**, 98, 741-749	0.9	2
19	Estimation of genetic parameters for mid-infrared-predicted lactoferrin and milk fat globule size in Holstein cattle. *Journal of Dairy Science*, **2020**, 103, 2487-2497	4	2
18	Association of genetic polymorphisms related to Johne\'s disease with estimated breeding values of Holstein sires for milk ELISA test scores. *BMC Veterinary Research*, **2020**, 16, 165	2.7	2
17	Impact of Censored or Penalized Data in the Genetic Evaluation of Two Longevity Indicator Traits Using Random Regression Models in North American Angus Cattle. *Animals*, **2021**, 11,	3.1	2
16	Genomic studies of milk-related traits in water buffalo (Bubalus bubalis) based on single-step genomic best linear unbiased prediction and random regression models. *Journal of Dairy Science*, **2021**, 104, 5768-5793	4	2
15	Single- and multiple-breed genomic evaluations for conformation traits in Canadian Alpine and Saanen dairy goats.. *Journal of Dairy Science*, **2022**,	4	2
14	Genetic evaluation of tropical climate-adapted sheep for carcass traits including genomic information. *Small Ruminant Research*, **2020**, 188, 106120	1.7	1
13	A Comprehensive Comparison of Haplotype-Based Single-Step Genomic Predictions in Livestock Populations With Different Genetic Diversity Levels: A Simulation Study. *Frontiers in Genetics*, **2021**, 12, 729867	4.5	1
12	Strategies for within-litter selection of piglets using ultra-low density SNP panels. *Livestock Science*, **2019**, 220, 173-179	1.7	1
11	The value of incorporating carcass trait phenotypes in terminal sire selection indexes to improve carcass weight and quality of heavy lambs. *Journal of Animal Breeding and Genetics*, **2021**, 138, 91-107	2.9	1
10	Genome-wide association study and pathway analysis for fat deposition traits in ´nellore´cattle raised in pasture-based systems. *Journal of Animal Breeding and Genetics*, **2021**, 138, 360-378	2.9	1
9	Johne\'s Disease in Dairy Cattle: An Immunogenetic Perspective. *Frontiers in Veterinary Science*, **2021**, 8, 718987	3.1	1
8	The potential for mitigation of methane emissions in ruminants through the application of metagenomics, metabolomics, and other -OMICS technologies. *Journal of Animal Science*, **2021**, 99,	0.7	1
7	Haplotype-Based Single-Step GWAS for Yearling Temperament in American Angus Cattle.. *Genes*, **2021**, 13,	4.2	1
6	Identifying pleiotropic variants and candidate genes for fertility and reproduction traits in Holstein cattle via association studies based on imputed whole-genome sequence genotypes.. *BMC Genomics*, **2022**, 23, 331	4.5	1

List of Publications

5	Definition of Environmental Variables and Critical Periods to Evaluate Heat Tolerance in Large White Pigs Based on Single-Step Genomic Reaction Norms. *Frontiers in Genetics*, **2021**, 12, 717409	4.5	0
4	Genome-wide association study and pathway analysis for carcass fatness in Nellore cattle measured by ultrasound. *Animal Genetics*, **2021**, 52, 730-733	2.5	0
3	Genetic Modeling and Genomic Analyses of Yearling Temperament in American Angus Cattle and Its Relationship With Productive Efficiency and Resilience Traits.. *Frontiers in Genetics*, **2022**, 13, 794625	4.5	0
2	Genetic evaluation for days to calving in Nellore heifers using Exponential and Gaussian Censored Bayesian models. *Livestock Science*, **2019**, 230, 103828	1.7	
1	Phenotypic differences for growth, feed efficiency, and age of first calving of Brazilian zebu females.. *Tropical Animal Health and Production*, **2022**, 54, 111	1.7	