Luiz F Brito

List of Publications by Year
in descending order

101 papers	2,533 citations	236833 25 h-index	254106 43 g-index
102 all docs	102 docs citations	102 times ranked	1880 citing authors

#	Article	IF	Citations
1	A 100-Year Review: Identification and genetic selection of economically important traits in dairy cattle. Journal of Dairy Science, 2017, 100, 10251-10271.	1.4	268
2	Genetic diversity and signatures of selection in various goat breeds revealed by genome-wide SNP markers. BMC Genomics, 2017, 18, 229.	1.2	141
3	Symposium review: Novel strategies to genetically improve mastitis resistance in dairy cattle. Journal of Dairy Science, 2018, 101, 2724-2736.	1.4	140
4	Genome-Wide Characterization of Selection Signatures and Runs of Homozygosity in Ugandan Goat Breeds. Frontiers in Genetics, 2018, 9, 318.	1.1	126
5	Characterization of linkage disequilibrium, consistency of gametic phase and admixture in Australian and Canadian goats. BMC Genetics, 2015, 16, 67.	2.7	91
6	Review: Genetic selection of high-yielding dairy cattle toward sustainable farming systems in a rapidly changing world. Animal, 2021, 15, 100292.	1.3	90
7	Large-Scale Phenotyping of Livestock Welfare in Commercial Production Systems: A New Frontier in Animal Breeding. Frontiers in Genetics, 2020, 11, 793.	1.1	67
8	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.	1.2	55
9	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.	2.7	48
10	Genetic diversity of a New Zealand multi-breed sheep population and composite breedsâ€™ history revealed by a high-density SNP chip. BMC Genetics, 2017, 18, 25.	2.7	47
11	Invited review: Advances and applications of random regression models: From quantitative genetics to genomics. Journal of Dairy Science, 2019, 102, 7664-7683.	1.4	46
12	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.	1.4	45
13	Genetics and genomics of reproductive disorders in Canadian Holstein cattle. Journal of Dairy Science, 2019, 102, 1341-1353.	1.4	44
14	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.	2.7	43
15	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.	1.4	42
16	Genetic Architecture of Carcass and Meat Quality Traits in Montana TropicalÂ® Composite Beef Cattle. Frontiers in Genetics, 2020, 11, 123.	1.1	42
17	Genomewide Association Analyses of Lactation Persistency and Milk Production Traits in Holstein Cattle Based on Imputed Whole-Genome Sequence Data. Genes, 2021, 12, 1830.	1.0	39
18	Genetic parameters for various growth, carcass and meat quality traits in a New Zealand sheep population. Small Ruminant Research, 2017, 154, 81-91.	0.6	37

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19	Integrating High-Throughput Phenotyping and Statistical Genomic Methods to Genetically Improve Longitudinal Traits in Crops. Frontiers in Plant Science, 2020, 11, 681.	1.7	37
20	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.	1.4	36
21	Genetic diversity, extent of linkage disequilibrium and persistence of gametic phase in Canadian pigs. BMC Genetics, 2017, 18, 6.	2.7	34
22	Symposium review: The choice and collection of new relevant phenotypes for fertility selection. Journal of Dairy Science, 2019, 102, 3722-3734.	1.4	33
23	Invited review: Determination of large-scale individual dry matter intake phenotypes in dairy cattle. Journal of Dairy Science, 2019, 102, 7655-7663.	1.4	30
24	Single-step genome-wide association for longitudinal traits of Canadian Ayrshire, Holstein, and Jersey dairy cattle. Journal of Dairy Science, 2019, 102, 9995-10011.	1.4	29
25	Genetic Diversity and Signatures of Selection for Thermal Stress in Cattle and Other Two Bos Species Adapted to Divergent Climatic Conditions. Frontiers in Genetics, 2021, 12, 604823.	1.1	29
26	Genetic and environmental factors that influence production and quality of milk of Alpine and Saanen goats. Genetics and Molecular Research, 2011, 10, 3794-3802.	0.3	26
27	Mortality-Culling Rates of Dairy Calves and Replacement Heifers and Its Risk Factors in Holstein Cattle. Animals, 2019, 9, 730.	1.0	25
28	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.	1.4	24
29	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.	1.2	23
30	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.	1.4	22
31	Estimation of direct and maternal genetic parameters for individual birth weight, weaning weight, and probe weight in Yorkshire and Landrace pigs1. Journal of Animal Science, 2018, 96, 2567-2578.	0.2	22
32	Incorporating temperament traits in dairy cattle breeding programs: challenges and opportunities in the phenomics era. Animal Frontiers, 2020, 10, 29-36.	0.8	22
33	Genomic prediction of lactation curves for milk, fat, protein, and somatic cell score in Holstein cattle. Journal of Dairy Science, 2019, 102, 452-463.	1.4	20
34	Estimation of additive and nonâ€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.	0.8	20
35	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.	1.4	20
36	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.	1.4	20

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37	Differential gene expression in the peripheral blood of Chinese Sanhe cattle exposed to severe cold stress. Genetics and Molecular Research, 2017, 16, .	0.3	19
38	Estimation of Genetic Parameters for Pork Quality, Novel Carcass, Primal-Cut and Growth Traits in Duroc Pigs. Animals, 2020, 10, 779.	1.0	19
39	Genomics of Heat Tolerance in Reproductive Performance Investigated in Four Independent Maternal Lines of Pigs. Frontiers in Genetics, 2020, 11, 629.	1.1	19
40	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.	1.4	19
41	Genomic predictions for economically important traits in Brazilian Braford and Hereford beef cattle using true and imputed genotypes. BMC Genetics, 2017, 18, 2.	2.7	18
42	Genotype imputation from various low-density SNP panels and its impact on accuracy of genomic breeding values in pigs. Animal, 2018, 12, 2235-2245.	1.3	18
43	Unravelling biological biotypes for growth, visual score and reproductive traits in Nellore cattle via principal component analysis. Livestock Science, 2018, 217, 37-43.	0.6	18
44	Opportunities and challenges of phenomics applied to livestock and aquaculture breeding in South America. Animal Frontiers, 2020, 10, 45-52.	0.8	18
45	Comparing deregression methods for genomic prediction of testâ€day traits in dairy cattle. Journal of Animal Breeding and Genetics, 2018, 135, 97-106.	0.8	17
46	Genome-Wide Association Study for Milk Fatty Acids in Holstein Cattle Accounting for the DGAT1 Gene Effect. Animals, 2019, 9, 997.	1.0	17
47	Genomic analyses for predicted milk fatty acid composition throughout lactation in North American Holstein cattle. Journal of Dairy Science, 2020, 103, 6318-6331.	1.4	17
48	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.	1.2	17
49	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.	1.2	16
50	Genetic Parameters and Genome-Wide Association Studies for Anti-MÃ¼llerian Hormone Levels and Antral Follicle Populations Measured After Estrus Synchronization in Nellore Cattle. Animals, 2020, 10, 1185.	1.0	15
51	Estimates of heritability of atrial fibrillation in the Standardbred racehorse. Equine Veterinary Journal, 2017, 49, 718-722.	0.9	14
52	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.	0.5	14
53	Comparison of genomic prediction methods for evaluation of adaptation and productive efficiency traits in Braford and Hereford cattle. Livestock Science, 2020, 231, 103864.	0.6	14
54	Using Random Regression Models to Genetically Evaluate Functional Longevity Traits in North American Angus Cattle. Animals, 2020, 10, 2410.	1.0	14

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55	Genomeâ€wide association study and pathway analysis for fat deposition traits inÂnelloreÂcattle raised in pastureâ€“based systems. Journal of Animal Breeding and Genetics, 2021, 138, 360-378.	0.8	14
56	Bayesian Models combining Legendre and B-spline polynomials for genetic analysis of multiple lactations in Gyr cattle. Livestock Science, 2017, 201, 78-84.	0.6	13
57	A Systematic Review of Genomic Regions and Candidate Genes Underlying Behavioral Traits in Farmed Mammals and Their Link with Human Disorders. Animals, 2021, 11, 715.	1.0	13
58	Johne's Disease in Dairy Cattle: An Immunogenetic Perspective. Frontiers in Veterinary Science, 2021, 8, 718987.	0.9	13
59	Single-step genomic evaluation of milk production traits in Canadian Alpine and Saanen dairy goats. Journal of Dairy Science, 2022, 105, 2393-2407.	1.4	13
60	A genetic evaluation of growth, ultrasound, and carcass traits at alternative slaughter endpoints in crossbred heavy lambs1. Journal of Animal Science, 2019, 97, 521-535.	0.2	12
61	Investigating the Short-Term Effects of Cold Stress on Metabolite Responses and Metabolic Pathways in Inner-Mongolia Sanhe Cattle. Animals, 2021, 11, 2493.	1.0	12
62	Detection and Visualization of Heterozygosity-Rich Regions and Runs of Homozygosity in Worldwide Sheep Populations. Animals, 2021, 11, 2696.	1.0	12
63	Random regression models using Legendre orthogonal polynomials to evaluate the milk production of Alpine goats. Genetics and Molecular Research, 2013, 12, 6502-6511.	0.3	11
64	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.	0.7	11
65	Genome-wide associations and detection of candidate genes for direct and maternal genetic effects influencing growth traits in the Montana TropicalÂ® Composite population. Livestock Science, 2019, 229, 64-76.	0.6	11
66	Association Analysis of Polymorphisms in the 5â€² Flanking Region of the HSP70 Gene with Blood Biochemical Parameters of Lactating Holstein Cows under Heat and Cold Stress. Animals, 2020, 10, 2016.	1.0	11
67	Genetic Connectedness Between Norwegian White Sheep and New Zealand Composite Sheep Populations With Similar Development History. Frontiers in Genetics, 2020, 11, 371.	1.1	11
68	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.	1.1	11
69	Comparison between haplotypeâ€based and individual snpâ€based genomic predictions for beef fatty acid profile in Nelore cattle. Journal of Animal Breeding and Genetics, 2020, 137, 468-476.	0.8	10
70	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.	1.1	10
71	Novel methods for genotype imputation to whole-genome sequence and a simple linear model to predict imputation accuracy. BMC Genetics, 2017, 18, 120.	2.7	9
72	Assessing genetic diversity of various Canadian sheep breeds through pedigree analyses. Canadian Journal of Animal Science, 2018, 98, 741-749.	0.7	9

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73	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.	1.4	9
74	Genetic analyses of blood Î²-hydroxybutyrate predicted from milk infrared spectra and its association with longevity and female reproductive traits in Holstein cattle. Journal of Dairy Science, 2022, 105, 3269-3281.	1.4	9
75	Marginal ancestral contributions to atrial fibrillation in the Standardbred racehorse: Comparison of cases and controls. PLoS ONE, 2018, 13, e0197137.	1.1	8
76	Genomic evaluation for novel stayability traits in Nellore cattle. Reproduction in Domestic Animals, 2020, 55, 266-273.	0.6	8
77	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, .	0.2	8
78	Modelos de regressÃ£o aleatÃ³ria na avaliaÃ§Ã£o da produÃ§Ã£o de leite em cabras da raÃ§a Saanen. Revista Brasileira De Zootecnia, 2011, 40, 1526-1532.	0.3	8
79	Modelling lactation curves of dairy goats by fitting random regression models using Legendre polynomials or B-splines. Canadian Journal of Animal Science, 0, , .	0.7	7
80	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.	1.4	7
81	Acrossâ€country genomic predictions in Norwegian and New Zealand Composite sheep populations with similar development history. Journal of Animal Breeding and Genetics, 2022, 139, 1-12.	0.8	7
82	Single- and multiple-breed genomic evaluations for conformation traits in Canadian Alpine and Saanen dairy goats. Journal of Dairy Science, 2022, 105, 5985-6000.	1.4	7
83	Genetic parameters for dairy calf and replacement heifer wellness traits and their association with cow longevity and health indicators in Holstein cattle. Journal of Dairy Science, 2022, 105, 6749-6759.	1.4	7
84	Factors that influence the test day milk yield and composition. Genetics and Molecular Research, 2013, 12, 1522-1532.	0.3	6
85	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.	1.1	6
86	Haplotype-Based Single-Step GWAS for Yearling Temperament in American Angus Cattle. Genes, 2022, 13, 17.	1.0	6
87	Impact of including information from bulls and their daughters in the training population of multipleâ€step genomic evaluations in dairy cattle: A simulation study. Journal of Animal Breeding and Genetics, 2019, 136, 441-452.	0.8	5
88	Short communication: Genetic parameter estimates for caprine arthritis encephalitis in dairy goats. Journal of Dairy Science, 2020, 103, 6407-6411.	1.4	5
89	Genomic regions associated with principal components for growth, visual score and reproductive traits in Nellore cattle. Livestock Science, 2020, 233, 103936.	0.6	4
90	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, 800.	1.0	4

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91	Genetic evaluation of tropical climate-adapted sheep for carcass traits including genomic information. Small Ruminant Research, 2020, 188, 106120.	0.6	3
92	Genomeâ€wide association study and pathway analysis for carcass fatness in Nellore cattle measured by ultrasound. Animal Genetics, 2021, 52, 730-733.	0.6	3
93	Estimation of genetic parameters for mid-infraredâ€“predicted lactoferrin and milk fat globule size in Holstein cattle. Journal of Dairy Science, 2020, 103, 2487-2497.	1.4	3
94	Association of genetic polymorphisms related to Johneâ€™s disease with estimated breeding values of Holstein sires for milk ELISA test scores. BMC Veterinary Research, 2020, 16, 165.	0.7	2
95	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.	1.1	2
96	Genetic Characterization and Population Connectedness of North American and European Dairy Goats. Frontiers in Genetics, 0, 13, .	1.1	2
97	Strategies for within-litter selection of piglets using ultra-low density SNP panels. Livestock Science, 2019, 220, 173-179.	0.6	1
98	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.	0.8	1
99	Phenotypic differences for growth, feed efficiency, and age of first calving of Brazilian zebu females. Tropical Animal Health and Production, 2022, 54, 111.	0.5	1
100	Editorial: Beef on Dairy: The Use of a Simple Tool to Improve Both Cattle Production Systems. Frontiers in Genetics, 2022, 13, 813949.	1.1	1
101	Genetic evaluation for days to calving in Nellore heifers using Exponential and Gaussian Censored Bayesian models. Livestock Science, 2019, 230, 103828.	0.6	0