Peter LÃ¸vendahl

List of Publications by Year
in descending order

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104	3,567	109321	155660
papers	citations	35 h-index	55 g-index

107	107	107	2716
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Host genetics and the rumen microbiome jointly associate with methane emissions in dairy cows. PLoS Genetics, 2018, 14, e1007580.	3.5	198
2	Electrical Conductivity of Milk: Ability to Predict Mastitis Status. Journal of Dairy Science, 2004, 87, 1099-1107.	3.4	146
3	Heritability estimates for enteric methane emissions from Holstein cattle measured using noninvasive methods. Journal of Dairy Science, 2016, 99, 1959-1967.	3.4	125
4	Breed and Parity Effects on Energy Balance Profiles Through Lactation: Evidence of Genetically Driven Body Energy Change. Journal of Dairy Science, 2007, 90, 5291-5305.	3.4	109
5	Accuracy of noninvasive breath methane measurements using Fourier transform infrared methods on individual cows. Journal of Dairy Science, 2012, 95, 890-898.	3.4	108
6	On the use of physical activity monitoring for estrus detection in dairy cows. Journal of Dairy Science, 2010, 93, 249-259.	3.4	106
7	International genetic evaluations for feed intake in dairy cattle through the collation of data from multiple sources. Journal of Dairy Science, 2014, 97, 3894-3905.	3.4	99
8	On the Use of Milk Composition Measures to Predict the Energy Balance of Dairy Cows. Journal of Dairy Science, 2007, 90, 5453-5467.	3.4	90
9	Aggressive behaviour of sows at mixing and maternal behaviour are heritable and genetically correlated traits. Livestock Science, 2005, 93, 73-85.	1.2	87
10	Post Hatching Development: a Novel System for Extended in Vitro Culture of Bovine Embryos. Biology of Reproduction, 2004, 71, 2048-2055.	2.7	86
11	Respiration rates of individual bovine in vitro-produced embryos measured with a novel, non-invasive and highly sensitive microsensor system. Reproduction, 2005, 130, 669-679.	2.6	84
12	Review: Selecting for improved feed efficiency and reduced methane emissions in dairy cattle. Animal, 2018, 12, s336-s349.	3.3	81
13	Investigation of respiration of individual bovine embryos produced in vivo and in vitro and correlation with viability following transfer. Human Reproduction, 2007, 22, 558-566.	0.9	79
14	RNA-Seq transcriptomics and pathway analyses reveal potential regulatory genes and molecular mechanisms in high- and low-residual feed intake in Nordic dairy cattle. BMC Genomics, 2017, 18, 258.	2.8	76
15	Methane production, rumen fermentation, and diet digestibility of Holstein and Jersey dairy cows being divergent in residual feed intake and fed at 2 forage-to-concentrate ratios. Journal of Dairy Science, 2018, 101, 9926-9940.	3.4	69
16	Effects of social and physical stressors on growth hormone levels in dairy cows. Canadian Journal of Animal Science, 1993, 73, 847-853.	1.5	62
17	Gene co-expression networks from RNA sequencing of dairy cattle identifies genes and pathways affecting feed efficiency. BMC Bioinformatics, 2018, 19, 513.	2.6	59
18	Influence of breed, parity, and stage of lactation on lactational performance and relationship between body fatness and live weight. Livestock Science, 2003, 79, 119-133.	1.2	55

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19	Genetic variation in stimulated GH release and in IGF-I of young dairy cattle and their associations with the leucine/valine polymorphism in the GH gene.. Journal of Animal Science, 2001, 79, 470.	0.5	53
20	Covariance among milking frequency, milk yield, and milk composition from automatically milked cows. Journal of Dairy Science, 2011, 94, 5381-5392.	3.4	53
21	Genomic prediction of dry matter intake in dairy cattle from an international data set consisting of research herds in Europe, North America, and Australasia. Journal of Dairy Science, 2015, 98, 6522-6534.	3.4	52
22	Technical note: time-resolved fluoro-immunometric assay for intact insulin in livestock species. Journal of Animal Science, 2002, 80, 191-195.	0.5	50
23	Utilization of farm animal genetic resources in a changing agro-ecological environment in the Nordic countries. Frontiers in Genetics, 2015, 6, 52.	2.3	49
24	Breeding for reduced methane emission and feed-efficient Holstein cows: An international response. Journal of Dairy Science, 2021, 104, 8983-9001.	3.4	49
25	Neglect of lactation stage leads to naive assessment of residual feed intake in dairy cattle. Journal of Dairy Science, 2017, 100, 9076-9084.	3.4	48
26	Prediction and validation of residual feed intake and dry matter intake in Danish lactating dairy cows using mid-infrared spectroscopy of milk. Journal of Dairy Science, 2017, 100, 253-264.	3.4	48
27	Bayesian modeling reveals host genetics associated with rumen microbiota jointly influence methane emission in dairy cows. ISME Journal, 2020, 14, 2019-2033.	9.8	48
28	The effect of genetic selection for milk yield on the response to growth hormone secretagogues in immature cattle. Journal of Endocrinology, 1991, 128, 419-424.	2.6	45
29	Respiration rates correlate with mRNA expression of G6PD and GLUT1 genes in individual bovine in vitro-produced blastocysts. Theriogenology, 2007, 68, 223-236.	2.1	43
30	Simultaneous quantification of purine and pyrimidine bases, nucleosides and their degradation products in bovine blood plasma by high performance liquid chromatography tandem mass spectrometry. Journal of Chromatography A, 2014, 1356, 197-210.	3.7	42
31	Genome-Wide Association Study for Susceptibility to and Recoverability From Mastitis in Danish Holstein Cows. Frontiers in Genetics, 2018, 9, 141.	2.3	41
32	Genetic heterogeneity of feed intake, energy-corrected milk, and body weight across lactation in primiparous Holstein, Nordic Red, and Jersey cows. Journal of Dairy Science, 2018, 101, 10011-10021.	3.4	39
33	Rumen and Fecal Microbial Community Structure of Holstein and Jersey Dairy Cows as Affected by Breed, Diet, and Residual Feed Intake. Animals, 2019, 9, 498.	2.3	39
34	Hsp72 is present in plasma from Holstein-Friesian dairy cattle, and the concentration level is repeatable across days and age classes. Cell Stress and Chaperones, 2004, 9, 143.	2.9	39
35	Polymorphism in the Bovine Growth Hormone Gene Affects Endocrine Release in Dairy Calves. Journal of Dairy Science, 2002, 85, 1887-1893.	3.4	38
36	Changes in rumen bacterial and archaeal communities over the transition period in primiparous Holstein dairy cows. Journal of Dairy Science, 2018, 101, 9847-9862.	3.4	38

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37	Community structure of the metabolically active rumen bacterial and archaeal communities of dairy cows over the transition period. PLoS ONE, 2017, 12, e0187858.	2.5	37
38	The plasma levels of conglutinin are heritable in cattle and low levels predispose to infection. Immunology, 1998, 93, 431-436.	4.4	35
39	Potential for Improving Description of Bovine Udder Health Status by Combined Analysis of Milk Parameters. Journal of Dairy Science, 2003, 86, 1221-1232.	3.4	35
40	Predicting methane emissions of lactating Danish Holstein cows using Fourier transform mid-infrared spectroscopy of milk. Journal of Dairy Science, 2017, 100, 9052-9060.	3.4	35
41	Detection of Carryover in Automated Milk Sampling Equipment. Journal of Dairy Science, 2006, 89, 3645-3652.	3.4	34
42	Genetic parameters of rumination time and feed efficiency traits in primiparous Holstein cows under research and commercial conditions. Journal of Dairy Science, 2017, 100, 9635-9642.	3.4	34
43	Genetic parameters for dry matter intake in primiparous Holstein, Nordic Red, and Jersey cows in the first half of lactation. Journal of Dairy Science, 2016, 99, 7232-7239.	3.4	33
44	Monitoring individual cow udder health in automated milking systems using online somatic cell counts. Journal of Dairy Science, 2016, 99, 608-620.	3.4	33
45	Factors affecting the developmental stage of embryos recovered on day 7 from superovulated dairy cattle. Journal of Animal Science, 1995, 73, 1539-1543.	0.5	32
46	Interchangeability between methane measurements in dairy cows assessed by comparing precision and agreement of two non-invasive infrared methods. Computers and Electronics in Agriculture, 2016, 124, 220-226.	7.7	32
47	Effect of dried oregano (Origanum vulgare L.) plant material in feed on methane production, rumen fermentation, nutrient digestibility, and milk fatty acid composition in dairy cows. Journal of Dairy Science, 2019, 102, 9902-9918.	3.4	31
48	An investigation into genetic and phenotypic variation in time budgets and yield of dairy cows. Journal of Dairy Science, 2016, 99, 408-417.	3.4	30
49	Limits to prediction of energy balance from milk composition measures at individual cow level. Journal of Dairy Science, 2010, 93, 1998-2006.	3.4	29
50	Bivariate threshold models for genetic evaluation of susceptibility to and ability to recover from mastitis in Danish Holstein cows. Journal of Dairy Science, 2017, 100, 4706-4720.	3.4	28
51	Can greenhouse gases in breath be used to genetically improve feed efficiency of dairy cows?. Journal of Dairy Science, 2020, 103, 2442-2459.	3.4	27
52	Predicting mastitis in dairy cows using neural networks and generalized additive models: A comparison. Computers and Electronics in Agriculture, 2013, 99, 1-6.	7.7	26
53	Short communication: Genetic variation in estrus activity traits. Journal of Dairy Science, 2009, 92, 4683-4688.	3.4	24
54	Combining Cattle Activity and Progesterone Measurements Using Hidden Semi-Markov Models. Journal of Agricultural, Biological, and Environmental Statistics, 2011, 16, 1-16.	1.4	24

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55	Estrus traits derived from activity measurements are heritable and closely related to the time from calving to first insemination. Journal of Dairy Science, 2015, 98, 3470-3477.	3.4	23
56	In vitro manipulation techniques of porcine embryos: a meta-analysis related to transfers, pregnancies and piglets. Reproduction, Fertility and Development, 2015, 27, 429.	0.4	22
57	Is rumination time an indicator of methane production in dairy cows?. Journal of Dairy Science, 2018, 101, 11074-11085.	3.4	22
58	Changes to steps, lying, and eating behavior during lactation in Jersey and Holstein cows and the relationship to feed intake, yield, and weight. Journal of Dairy Science, 2020, 103, 4643-4653.	3.4	22
59	Physiological attributes of male and juvenile cattle differing in genetic merit for milk yield: A review. Livestock Science, 1991, 29, 1-16.	1.2	19
60	Changes in milk yield, lactate dehydrogenase, milking frequency, and interquarter yield ratio persist for up to 8 weeks after antibiotic treatment of mastitis. Journal of Dairy Science, 2015, 98, 7686-7698.	3.4	19
61	Multitrait genomic prediction of methane emissions in Danish Holstein cattle. Journal of Dairy Science, 2020, 103, 9195-9206.	3.4	18
62	Genotype by environment interaction for the interval from calving to first insemination with regard to calving month and geographic location in Holstein cows in Denmark and Sweden. Journal of Dairy Science, 2016, 99, 5498-5507.	3.4	17
63	Effects of an individual cow concentrate strategy on production and behavior. Journal of Dairy Science, 2019, 102, 2155-2172.	3.4	16
64	Bayesian estimation of genetic variance and response to selection on linear or ratio traits of feed efficiency in dairy cattle. Journal of Dairy Science, 2020, 103, 9150-9166.	3.4	15
65	Selecting for Feed Efficient Cows Will Help to Reduce Methane Gas Emissions. Frontiers in Genetics, 2022, 13, .	2.3	15
66	Response of growth hormone to various doses of growth hormone releasing factor and thyrotropin releasing hormone administered separately and in combination to dairy calves. Canadian Journal of Animal Science, 1991, 71, 1045-1052.	1.5	14
67	Growth hormone release in calves selected for milk fat yield. Animal Science, 1993, 56, 285-291.	1.3	14
68	Reliability of breeding values for feed intake and feed efficiency traits in dairy cattle: When dry matter intake recordings are sparse under different scenarios. Journal of Dairy Science, 2019, 102, 7248-7262.	3.4	14
69	Predictive ability of host genetics and rumen microbiome for subclinical ketosis. Journal of Dairy Science, 2020, 103, 4557-4569.	3.4	14
70	Metabolic Regulation in Danish Bull Calves and the Relationship to the Fertility of Their Female Offspring. Journal of Dairy Science, 2007, 90, 3909-3916.	3.4	13
71	Technical note: Time-resolved immunofluorometric assay for growth hormone in ruminants1. Journal of Animal Science, 2003, 81, 1294-1299.	0.5	12
72	Genotype by environment interaction for activity-based estrus traits in relation to production level for Danish Holstein. Journal of Dairy Science, 2016, 99, 9834-9844.	3.4	12

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73	Improving genetic evaluation using a multitrait single-step genomic model for ability to resume cycling after calving, measured by activity tags in Holstein cows. Journal of Dairy Science, 2017, 100, 8188-8196.	3.4	12
74	Phenotypic modeling of residual feed intake using physical activity and methane production as energy sinks. Journal of Dairy Science, 2020, 103, 6967-6981.	3.4	12
75	Herd factors influencing free fatty acid concentrations in bulk tank milk. Journal of Dairy Research, 2019, 86, 226-232.	1.4	11
76	Genetic variance of metabolomic features and their relationship with body weight and body weight gain in Holstein cattle1. Journal of Animal Science, 2019, 97, 3832-3844.	0.5	10
77	A time-resolved immunofluorometric assay for quantification of the bovine collectin conglutinin. Journal of Immunological Methods, 2004, 286, 87-96.	1.4	9
78	Short communication: Individual cow variation in urinary excretion of phosphorus. Journal of Dairy Science, 2016, 99, 4580-4585.	3.4	8
79	Ranking cowsâ€™ methane emissions under commercial conditions with sniffers versus respiration chambers. Acta Agriculturae Scandinavica - Section A: Animal Science, 2018, 68, 25-32.	0.2	8
80	Genetic variation of metabolite and hormone concentration in UK Holstein-Friesian calves and the genetic relationship with economically important traits. Journal of Dairy Science, 2009, 92, 4001-4007.	3.4	7
81	Selection of pre- versus postpubertal pig oocytes for parthenogenetic activation and somatic cell nuclear transfer. Reproduction, Fertility and Development, 2015, 27, 544.	0.4	7
82	Ultrastructure and mitochondrial numbers in pre- and postpubertal pig oocytes. Reproduction, Fertility and Development, 2016, 28, 586.	0.4	7
83	Genome-wide association mapping for dominance effects in female fertility using real and simulated data from Danish Holstein cattle. Scientific Reports, 2020, 10, 2953.	3.3	7
84	The effect of floor type or relocation on calvesâ€™ pulsatile growth hormone and cortisol secretion. Acta Agriculturae Scandinavica - Section A: Animal Science, 2006, 56, 99-108.	0.2	6
85	Short communication: Effects of Bos taurus autosome 9-located quantitative trait loci haplotypes on enzymatic mastitis indicators of milk from dairy cows experimentally inoculated with Escherichia coli. Journal of Dairy Science, 2015, 98, 5440-5447.	3.4	6
86	The effect of dietary protein on metabolite concentrations during fasting in calves differing genetically in dairy merit. Animal Science, 1992, 54, 175-181.	1.3	5
87	Seasonality of fertility measured by physical activity traits in Holstein cows. Journal of Dairy Science, 2016, 99, 2837-2848.	3.4	5
88	Genome-wide association study for methane emission traits in Danish Holstein cattle. Journal of Dairy Science, 2022, 105, 1357-1368.	3.4	5
89	Genetic and phenotypic variation and consistency in cow preference and circadian use of robotic milking units. Journal of Dairy Science, 2022, 105, 5283-5295.	3.4	5
90	Physiological Predictors in Calves of Dairy Breeds: Part 1. Genetic Parameters of Basal and Induced Growth Hormone Secretion. Acta Agriculturae Scandinavica - Section A: Animal Science, 1994, 44, 169-176.	0.2	4

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91	Time-series models on somatic cell score improve detection of mastitis. Acta Agriculturae Scandinavica - Section A: Animal Science, 2008, 58, 165-169.	0.2	4
92	Porcine oocyte mtDNA copy number is high or low depending on the donor. Zygote, 2016, 24, 617-623.	1.1	4
93	Stability Assessment of the Rumen Bacterial and Archaeal Communities in Dairy Cows Within a Single Lactation and Its Association With Host Phenotype. Frontiers in Microbiology, 2021, 12, 636223.	3.5	4
94	A time-resolved immunofluorometric assay for quantification of collectin-43. Journal of Immunological Methods, 2004, 295, 161-167.	1.4	3
95	Variation in plasma growth hormone during first parity in lactating cows1. Journal of Animal Science, 2007, 85, 388-394.	0.5	3
96	Enteric methane emission from Jersey cows during the spring transition from indoor feeding to grazing. Journal of Dairy Science, 2019, 102, 6319-6329.	3.4	3
97	Using quantile regression for fitting lactation curve in dairy cows. Journal of Dairy Research, 2019, 86, 19-24.	1.4	3
98	Stimulated growth hormone release in juvenile cattle genetically selected for high and low milk yield. Acta Agriculturae Scandinavica - Section A: Animal Science, 2004, 54, 2-9.	0.2	2
99	Prepubertal predictors for fertility in dairy cattle: potential use of metabolic hormones. Proceedings of the British Society of Animal Science, 2007, 2007, 58-58.	0.0	2
100	Short communication: Genetic variation in choice consistency for cows accessing automatic milking units. Journal of Dairy Science, 2016, 99, 9857-9863.	3.4	2
101	185 DEVELOPMENT CAPACITY OF PRE- AND POSTPUBERTAL PIG OOCYTES EVALUATED BY SOMATIC CELL NUCLEAR TRANSFER AND PARTHENOGENETIC ACTIVATION. Reproduction, Fertility and Development, 2013, 25, 241.	0.4	1
102	Possible Association of Growth Hormone Gene Polymorphism with Growth Hormone Release in Calves from Lines Selected for High and Low Milk Fat Yield. Acta Agriculturae Scandinavica - Section A: Animal Science, 1993, 43, 129-135.	0.2	0
103	Opportunities for Online Monitoring of Health and Performance in Dairy Cows. Recent Advances in Animal Nutrition, 2009, 2008, 15-38.	0.1	0
104	OPPORTUNITIES FOR ONLINE MONITORING OF HEALTH AND PERFORMANCE IN DAIRY COWS. , 0, , 15-38.		0