

Peter LÃvendahl

List of Publications by Year in descending order

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104
papers

3,567
citations

109321

35
h-index

155660

55
g-index

107
all docs

107
docs citations

107
times ranked

2716
citing authors

#	ARTICLE	IF	CITATIONS
1	Genome-wide association study for methane emission traits in Danish Holstein cattle. <i>Journal of Dairy Science</i> , 2022, 105, 1357-1368.	3.4	5
2	Genetic and phenotypic variation and consistency in cow preference and circadian use of robotic milking units. <i>Journal of Dairy Science</i> , 2022, 105, 5283-5295.	3.4	5
3	Selecting for Feed Efficient Cows Will Help to Reduce Methane Gas Emissions. <i>Frontiers in Genetics</i> , 2022, 13, .	2.3	15
4	Stability Assessment of the Rumen Bacterial and Archaeal Communities in Dairy Cows Within a Single Lactation and Its Association With Host Phenotype. <i>Frontiers in Microbiology</i> , 2021, 12, 636223.	3.5	4
5	Breeding for reduced methane emission and feed-efficient Holstein cows: An international response. <i>Journal of Dairy Science</i> , 2021, 104, 8983-9001.	3.4	49
6	Bayesian modeling reveals host genetics associated with rumen microbiota jointly influence methane emission in dairy cows. <i>ISME Journal</i> , 2020, 14, 2019-2033.	9.8	48
7	Genome-wide association mapping for dominance effects in female fertility using real and simulated data from Danish Holstein cattle. <i>Scientific Reports</i> , 2020, 10, 2953.	3.3	7
8	Can greenhouse gases in breath be used to genetically improve feed efficiency of dairy cows?. <i>Journal of Dairy Science</i> , 2020, 103, 2442-2459.	3.4	27
9	Bayesian estimation of genetic variance and response to selection on linear or ratio traits of feed efficiency in dairy cattle. <i>Journal of Dairy Science</i> , 2020, 103, 9150-9166.	3.4	15
10	Phenotypic modeling of residual feed intake using physical activity and methane production as energy sinks. <i>Journal of Dairy Science</i> , 2020, 103, 6967-6981.	3.4	12
11	Changes to steps, lying, and eating behavior during lactation in Jersey and Holstein cows and the relationship to feed intake, yield, and weight. <i>Journal of Dairy Science</i> , 2020, 103, 4643-4653.	3.4	22
12	Multitrait genomic prediction of methane emissions in Danish Holstein cattle. <i>Journal of Dairy Science</i> , 2020, 103, 9195-9206.	3.4	18
13	Predictive ability of host genetics and rumen microbiome for subclinical ketosis. <i>Journal of Dairy Science</i> , 2020, 103, 4557-4569.	3.4	14
14	Genetic variance of metabolomic features and their relationship with body weight and body weight gain in Holstein cattle1. <i>Journal of Animal Science</i> , 2019, 97, 3832-3844.	0.5	10
15	Rumen and Fecal Microbial Community Structure of Holstein and Jersey Dairy Cows as Affected by Breed, Diet, and Residual Feed Intake. <i>Animals</i> , 2019, 9, 498.	2.3	39
16	Effect of dried oregano (<i>Origanum vulgare</i> L.) plant material in feed on methane production, rumen fermentation, nutrient digestibility, and milk fatty acid composition in dairy cows. <i>Journal of Dairy Science</i> , 2019, 102, 9902-9918.	3.4	31
17	Effects of an individual cow concentrate strategy on production and behavior. <i>Journal of Dairy Science</i> , 2019, 102, 2155-2172.	3.4	16
18	Reliability of breeding values for feed intake and feed efficiency traits in dairy cattle: When dry matter intake recordings are sparse under different scenarios. <i>Journal of Dairy Science</i> , 2019, 102, 7248-7262.	3.4	14

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19	Enteric methane emission from Jersey cows during the spring transition from indoor feeding to grazing. <i>Journal of Dairy Science</i> , 2019, 102, 6319-6329.	3.4	3
20	Herd factors influencing free fatty acid concentrations in bulk tank milk. <i>Journal of Dairy Research</i> , 2019, 86, 226-232.	1.4	11
21	Using quantile regression for fitting lactation curve in dairy cows. <i>Journal of Dairy Research</i> , 2019, 86, 19-24.	1.4	3
22	Ranking cows' methane emissions under commercial conditions with sniffers versus respiration chambers. <i>Acta Agriculturae Scandinavica - Section A: Animal Science</i> , 2018, 68, 25-32.	0.2	8
23	Gene co-expression networks from RNA sequencing of dairy cattle identifies genes and pathways affecting feed efficiency. <i>BMC Bioinformatics</i> , 2018, 19, 513.	2.6	59
24	Is rumination time an indicator of methane production in dairy cows?. <i>Journal of Dairy Science</i> , 2018, 101, 11074-11085.	3.4	22
25	Review: Selecting for improved feed efficiency and reduced methane emissions in dairy cattle. <i>Animal</i> , 2018, 12, s336-s349.	3.3	81
26	Host genetics and the rumen microbiome jointly associate with methane emissions in dairy cows. <i>PLoS Genetics</i> , 2018, 14, e1007580.	3.5	198
27	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. <i>Journal of Dairy Science</i> , 2018, 101, 9926-9940.	3.4	69
28	Changes in rumen bacterial and archaeal communities over the transition period in primiparous Holstein dairy cows. <i>Journal of Dairy Science</i> , 2018, 101, 9847-9862.	3.4	38
29	Genetic heterogeneity of feed intake, energy-corrected milk, and body weight across lactation in primiparous Holstein, Nordic Red, and Jersey cows. <i>Journal of Dairy Science</i> , 2018, 101, 10011-10021.	3.4	39
30	Genome-Wide Association Study for Susceptibility to and Recoverability From Mastitis in Danish Holstein Cows. <i>Frontiers in Genetics</i> , 2018, 9, 141.	2.3	41
31	Bivariate threshold models for genetic evaluation of susceptibility to and ability to recover from mastitis in Danish Holstein cows. <i>Journal of Dairy Science</i> , 2017, 100, 4706-4720.	3.4	28
32	Predicting methane emissions of lactating Danish Holstein cows using Fourier transform mid-infrared spectroscopy of milk. <i>Journal of Dairy Science</i> , 2017, 100, 9052-9060.	3.4	35
33	Genetic parameters of rumination time and feed efficiency traits in primiparous Holstein cows under research and commercial conditions. <i>Journal of Dairy Science</i> , 2017, 100, 9635-9642.	3.4	34
34	Neglect of lactation stage leads to naive assessment of residual feed intake in dairy cattle. <i>Journal of Dairy Science</i> , 2017, 100, 9076-9084.	3.4	48
35	Improving genetic evaluation using a multitrait single-step genomic model for ability to resume cycling after calving, measured by activity tags in Holstein cows. <i>Journal of Dairy Science</i> , 2017, 100, 8188-8196.	3.4	12
36	RNA-Seq transcriptomics and pathway analyses reveal potential regulatory genes and molecular mechanisms in high- and low-residual feed intake in Nordic dairy cattle. <i>BMC Genomics</i> , 2017, 18, 258.	2.8	76

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37	Prediction and validation of residual feed intake and dry matter intake in Danish lactating dairy cows using mid-infrared spectroscopy of milk. <i>Journal of Dairy Science</i> , 2017, 100, 253-264.	3.4	48
38	Community structure of the metabolically active rumen bacterial and archaeal communities of dairy cows over the transition period. <i>PLoS ONE</i> , 2017, 12, e0187858.	2.5	37
39	Porcine oocyte mtDNA copy number is high or low depending on the donor. <i>Zygote</i> , 2016, 24, 617-623.	1.1	4
40	Ultrastructure and mitochondrial numbers in pre- and postpubertal pig oocytes. <i>Reproduction, Fertility and Development</i> , 2016, 28, 586.	0.4	7
41	Heritability estimates for enteric methane emissions from Holstein cattle measured using noninvasive methods. <i>Journal of Dairy Science</i> , 2016, 99, 1959-1967.	3.4	125
42	Short communication: Individual cow variation in urinary excretion of phosphorus. <i>Journal of Dairy Science</i> , 2016, 99, 4580-4585.	3.4	8
43	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. <i>Journal of Dairy Science</i> , 2016, 99, 5498-5507.	3.4	17
44	An investigation into genetic and phenotypic variation in time budgets and yield of dairy cows. <i>Journal of Dairy Science</i> , 2016, 99, 408-417.	3.4	30
45	Genetic parameters for dry matter intake in primiparous Holstein, Nordic Red, and Jersey cows in the first half of lactation. <i>Journal of Dairy Science</i> , 2016, 99, 7232-7239.	3.4	33
46	Short communication: Genetic variation in choice consistency for cows accessing automatic milking units. <i>Journal of Dairy Science</i> , 2016, 99, 9857-9863.	3.4	2
47	Genotype by environment interaction for activity-based estrus traits in relation to production level for Danish Holstein. <i>Journal of Dairy Science</i> , 2016, 99, 9834-9844.	3.4	12
48	Interchangeability between methane measurements in dairy cows assessed by comparing precision and agreement of two non-invasive infrared methods. <i>Computers and Electronics in Agriculture</i> , 2016, 124, 220-226.	7.7	32
49	Seasonality of fertility measured by physical activity traits in Holstein cows. <i>Journal of Dairy Science</i> , 2016, 99, 2837-2848.	3.4	5
50	Monitoring individual cow udder health in automated milking systems using online somatic cell counts. <i>Journal of Dairy Science</i> , 2016, 99, 608-620.	3.4	33
51	Selection of pre- versus postpubertal pig oocytes for parthenogenetic activation and somatic cell nuclear transfer. <i>Reproduction, Fertility and Development</i> , 2015, 27, 544.	0.4	7
52	In vitro manipulation techniques of porcine embryos: a meta-analysis related to transfers, pregnancies and piglets. <i>Reproduction, Fertility and Development</i> , 2015, 27, 429.	0.4	22
53	Utilization of farm animal genetic resources in a changing agro-ecological environment in the Nordic countries. <i>Frontiers in Genetics</i> , 2015, 6, 52.	2.3	49
54	Short communication: Effects of <i>Bos taurus</i> autosome 9-located quantitative trait loci haplotypes on enzymatic mastitis indicators of milk from dairy cows experimentally inoculated with <i>Escherichia coli</i> . <i>Journal of Dairy Science</i> , 2015, 98, 5440-5447.	3.4	6

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55	Estrus traits derived from activity measurements are heritable and closely related to the time from calving to first insemination. <i>Journal of Dairy Science</i> , 2015, 98, 3470-3477.	3.4	23
56	Genomic prediction of dry matter intake in dairy cattle from an international data set consisting of research herds in Europe, North America, and Australasia. <i>Journal of Dairy Science</i> , 2015, 98, 6522-6534.	3.4	52
57	Changes in milk yield, lactate dehydrogenase, milking frequency, and interquarter yield ratio persist for up to 8 weeks after antibiotic treatment of mastitis. <i>Journal of Dairy Science</i> , 2015, 98, 7686-7698.	3.4	19
58	Simultaneous quantification of purine and pyrimidine bases, nucleosides and their degradation products in bovine blood plasma by high performance liquid chromatography tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2014, 1356, 197-210.	3.7	42
59	International genetic evaluations for feed intake in dairy cattle through the collation of data from multiple sources. <i>Journal of Dairy Science</i> , 2014, 97, 3894-3905.	3.4	99
60	Predicting mastitis in dairy cows using neural networks and generalized additive models: A comparison. <i>Computers and Electronics in Agriculture</i> , 2013, 99, 1-6.	7.7	26
61	185 DEVELOPMENT CAPACITY OF PRE- AND POSTPUBERTAL PIG OOCYTES EVALUATED BY SOMATIC CELL NUCLEAR TRANSFER AND PARTHENOGENETIC ACTIVATION. <i>Reproduction, Fertility and Development</i> , 2013, 25, 241.	0.4	1
62	Accuracy of noninvasive breath methane measurements using Fourier transform infrared methods on individual cows. <i>Journal of Dairy Science</i> , 2012, 95, 890-898.	3.4	108
63	Covariance among milking frequency, milk yield, and milk composition from automatically milked cows. <i>Journal of Dairy Science</i> , 2011, 94, 5381-5392.	3.4	53
64	Combining Cattle Activity and Progesterone Measurements Using Hidden Semi-Markov Models. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2011, 16, 1-16.	1.4	24
65	On the use of physical activity monitoring for estrus detection in dairy cows. <i>Journal of Dairy Science</i> , 2010, 93, 249-259.	3.4	106
66	Limits to prediction of energy balance from milk composition measures at individual cow level. <i>Journal of Dairy Science</i> , 2010, 93, 1998-2006.	3.4	29
67	Genetic variation of metabolite and hormone concentration in UK Holstein-Friesian calves and the genetic relationship with economically important traits. <i>Journal of Dairy Science</i> , 2009, 92, 4001-4007.	3.4	7
68	Short communication: Genetic variation in estrus activity traits. <i>Journal of Dairy Science</i> , 2009, 92, 4683-4688.	3.4	24
69	Opportunities for Online Monitoring of Health and Performance in Dairy Cows. <i>Recent Advances in Animal Nutrition</i> , 2009, 2008, 15-38.	0.1	0
70	Time-series models on somatic cell score improve detection of mastitis. <i>Acta Agriculturae Scandinavica - Section A: Animal Science</i> , 2008, 58, 165-169.	0.2	4
71	Investigation of respiration of individual bovine embryos produced in vivo and in vitro and correlation with viability following transfer. <i>Human Reproduction</i> , 2007, 22, 558-566.	0.9	79
72	Respiration rates correlate with mRNA expression of G6PD and GLUT1 genes in individual bovine in vitro-produced blastocysts. <i>Theriogenology</i> , 2007, 68, 223-236.	2.1	43

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73	Metabolic Regulation in Danish Bull Calves and the Relationship to the Fertility of Their Female Offspring. <i>Journal of Dairy Science</i> , 2007, 90, 3909-3916.	3.4	13
74	On the Use of Milk Composition Measures to Predict the Energy Balance of Dairy Cows. <i>Journal of Dairy Science</i> , 2007, 90, 5453-5467.	3.4	90
75	Breed and Parity Effects on Energy Balance Profiles Through Lactation: Evidence of Genetically Driven Body Energy Change. <i>Journal of Dairy Science</i> , 2007, 90, 5291-5305.	3.4	109
76	Variation in plasma growth hormone during first parity in lactating cows ¹ . <i>Journal of Animal Science</i> , 2007, 85, 388-394.	0.5	3
77	Prepubertal predictors for fertility in dairy cattle: potential use of metabolic hormones. <i>Proceedings of the British Society of Animal Science</i> , 2007, 2007, 58-58.	0.0	2
78	Detection of Carryover in Automated Milk Sampling Equipment. <i>Journal of Dairy Science</i> , 2006, 89, 3645-3652.	3.4	34
79	The effect of floor type or relocation on calves' pulsatile growth hormone and cortisol secretion. <i>Acta Agriculturae Scandinavica - Section A: Animal Science</i> , 2006, 56, 99-108.	0.2	6
80	Aggressive behaviour of sows at mixing and maternal behaviour are heritable and genetically correlated traits. <i>Livestock Science</i> , 2005, 93, 73-85.	1.2	87
81	Respiration rates of individual bovine in vitro-produced embryos measured with a novel, non-invasive and highly sensitive microsensor system. <i>Reproduction</i> , 2005, 130, 669-679.	2.6	84
82	Stimulated growth hormone release in juvenile cattle genetically selected for high and low milk yield. <i>Acta Agriculturae Scandinavica - Section A: Animal Science</i> , 2004, 54, 2-9.	0.2	2
83	Post Hatching Development: a Novel System for Extended in Vitro Culture of Bovine Embryos. <i>Biology of Reproduction</i> , 2004, 71, 2048-2055.	2.7	86
84	A time-resolved immunofluorometric assay for quantification of the bovine collectin conglutinin. <i>Journal of Immunological Methods</i> , 2004, 286, 87-96.	1.4	9
85	A time-resolved immunofluorometric assay for quantification of collectin-43. <i>Journal of Immunological Methods</i> , 2004, 295, 161-167.	1.4	3
86	Electrical Conductivity of Milk: Ability to Predict Mastitis Status. <i>Journal of Dairy Science</i> , 2004, 87, 1099-1107.	3.4	146
87	Hsp72 is present in plasma from Holstein-Friesian dairy cattle, and the concentration level is repeatable across days and age classes. <i>Cell Stress and Chaperones</i> , 2004, 9, 143.	2.9	39
88	Influence of breed, parity, and stage of lactation on lactational performance and relationship between body fatness and live weight. <i>Livestock Science</i> , 2003, 79, 119-133.	1.2	55
89	Potential for Improving Description of Bovine Udder Health Status by Combined Analysis of Milk Parameters. <i>Journal of Dairy Science</i> , 2003, 86, 1221-1232.	3.4	35
90	Technical note: Time-resolved immunofluorometric assay for growth hormone in ruminants ¹ . <i>Journal of Animal Science</i> , 2003, 81, 1294-1299.	0.5	12

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91	Polymorphism in the Bovine Growth Hormone Gene Affects Endocrine Release in Dairy Calves. <i>Journal of Dairy Science</i> , 2002, 85, 1887-1893.	3.4	38
92	Technical note: time-resolved fluoro-immunometric assay for intact insulin in livestock species. <i>Journal of Animal Science</i> , 2002, 80, 191-195.	0.5	50
93	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.. <i>Journal of Animal Science</i> , 2001, 79, 470.	0.5	53
94	The plasma levels of conglutinin are heritable in cattle and low levels predispose to infection. <i>Immunology</i> , 1998, 93, 431-436.	4.4	35
95	Factors affecting the developmental stage of embryos recovered on day 7 from superovulated dairy cattle. <i>Journal of Animal Science</i> , 1995, 73, 1539-1543.	0.5	32
96	Physiological Predictors in Calves of Dairy Breeds: Part 1. Genetic Parameters of Basal and Induced Growth Hormone Secretion. <i>Acta Agriculturae Scandinavica - Section A: Animal Science</i> , 1994, 44, 169-176.	0.2	4
97	Possible Association of Growth Hormone Gene Polymorphism with Growth Hormone Release in Calves from Lines Selected for High and Low Milk Fat Yield. <i>Acta Agriculturae Scandinavica - Section A: Animal Science</i> , 1993, 43, 129-135.	0.2	0
98	Growth hormone release in calves selected for milk fat yield. <i>Animal Science</i> , 1993, 56, 285-291.	1.3	14
99	Effects of social and physical stressors on growth hormone levels in dairy cows. <i>Canadian Journal of Animal Science</i> , 1993, 73, 847-853.	1.5	62
100	The effect of dietary protein on metabolite concentrations during fasting in calves differing genetically in dairy merit. <i>Animal Science</i> , 1992, 54, 175-181.	1.3	5
101	Physiological attributes of male and juvenile cattle differing in genetic merit for milk yield: A review. <i>Livestock Science</i> , 1991, 29, 1-16.	1.2	19
102	Response of growth hormone to various doses of growth hormone releasing factor and thyrotropin releasing hormone administered separately and in combination to dairy calves. <i>Canadian Journal of Animal Science</i> , 1991, 71, 1045-1052.	1.5	14
103	The effect of genetic selection for milk yield on the response to growth hormone secretagogues in immature cattle. <i>Journal of Endocrinology</i> , 1991, 128, 419-424.	2.6	45
104	OPPORTUNITIES FOR ONLINE MONITORING OF HEALTH AND PERFORMANCE IN DAIRY COWS. , 0, , 15-38.		0