

Phil C Garnsworthy

List of Publications by Year in descending order

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112
papers

4,967
citations

101543

36
h-index

98798

67
g-index

113
all docs

113
docs citations

113
times ranked

4168
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrating heterogeneous across-country data for proxy-based random forest prediction of enteric methane in dairy cattle. <i>Journal of Dairy Science</i> , 2022, 105, 5124-5140.	3.4	5
2	Detection of Methane Eructation Peaks in Dairy Cows at a Robotic Milking Station Using Signal Processing. <i>Animals</i> , 2022, 12, 26.	2.3	5
3	Inclusion of Wheat Dried Distillersâ€™ Grains with Solubles from Bioethanol Plants in Diets for Dairy Cows. <i>Animals</i> , 2021, 11, 70.	2.3	2
4	Short-Term Variations of C18:1 Trans Fatty Acids in Plasma Lipoproteins and Ruminant Fermentation Parameters of Non-Lactating Cows Subjected to Ruminant Pulses of Oils. <i>Animals</i> , 2021, 11, 788.	2.3	0
5	Evaluation of rumen protected rapeseed expeller (NovaPro) as an alternative to soya bean meal in dairy cow diets. <i>Animal Feed Science and Technology</i> , 2021, 273, 114816.	2.2	3
6	Review: More effective linkages between science and policy are needed to minimize the negative environmental impacts of livestock production. <i>Animal</i> , 2021, 15, 100291.	3.3	7
7	Effects of dietary polyunsaturated fatty acid sources on expression of lipid-related genes in bovine milk somatic cells. <i>Scientific Reports</i> , 2020, 10, 14850.	3.3	10
8	Fatty acid transport in plasma from cows treated with ruminal pulses of fish oil and partially hydrogenated vegetable oil. <i>Livestock Science</i> , 2020, 236, 104018.	1.6	1
9	Effects of Dietary Vegetable Oils on Mammary Lipid-Related Genes in Holstein Dairy Cows. <i>Animals</i> , 2020, 10, 57.	2.3	5
10	Effect of Soybean Oil and Fish Oil on Lipid-Related Transcripts in Subcutaneous Adipose Tissue of Dairy Cows. <i>Animals</i> , 2020, 10, 54.	2.3	6
11	A heritable subset of the core rumen microbiome dictates dairy cow productivity and emissions. <i>Science Advances</i> , 2019, 5, eaav8391.	10.3	218
12	Comparison of Methods to Measure Methane for Use in Genetic Evaluation of Dairy Cattle. <i>Animals</i> , 2019, 9, 837.	2.3	60
13	Effect of Feeding Cows with Unsaturated Fatty Acid Sources on Milk Production, Milk Composition, Milk Fatty Acid Profile, and Physicochemical and Sensory Characteristics of Ice Cream. <i>Animals</i> , 2019, 9, 568.	2.3	12
14	Long-Term Effects of Dietary Olive Oil and Hydrogenated Vegetable Oil on Expression of Lipogenic Genes in Subcutaneous Adipose Tissue of Dairy Cows. <i>Veterinary Sciences</i> , 2019, 6, 74.	1.7	4
15	Short communication: Heritability of methane production and genetic correlations with milk yield and body weight in Holstein-Friesian dairy cows. <i>Journal of Dairy Science</i> , 2019, 102, 7277-7281.	3.4	46
16	Genome-Wide Association Studies for Methane Production in Dairy Cattle. <i>Genes</i> , 2019, 10, 995.	2.4	7
17	Effect of different exogenous fatty acids on the cytosolic triacylglycerol content in bovine mammary cells. <i>Animal Nutrition</i> , 2019, 5, 202-208.	5.1	10
18	Does the diurnal pattern of enteric methane emissions from dairy cows change over time?. <i>Animal</i> , 2018, 12, 2065-2070.	3.3	12

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19	Symposium review: Uncertainties in enteric methane inventories, measurement techniques, and prediction models. <i>Journal of Dairy Science</i> , 2018, 101, 6655-6674.	3.4	103
20	Prediction of enteric methane production, yield, and intensity in dairy cattle using an intercontinental database. <i>Global Change Biology</i> , 2018, 24, 3368-3389.	9.5	166
21	The environmental costs and benefits of high-yield farming. <i>Nature Sustainability</i> , 2018, 1, 477-485.	23.7	193
22	Effect of Feeding System on Enteric Methane Emissions from Individual Dairy Cows on Commercial Farms. <i>Land</i> , 2018, 7, 26.	2.9	5
23	Effect of olive oil in dairy cow diets on the fatty acid profile and sensory characteristics of cheese. <i>International Dairy Journal</i> , 2018, 85, 8-15.	3.0	21
24	The environmental costs and benefits of high-yield farming. <i>Nature Sustainability</i> , 2018, 1, 477-485.	23.7	36
25	Transport of fatty acids within plasma lipoproteins in lactating and non-lactating cows fed on fish oil and hydrogenated palm oil. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2017, 101, 369-377.	2.2	8
26	Dietary options to reduce the environmental impact of milk production. <i>Journal of Agricultural Science</i> , 2017, 155, 334-347.	1.3	22
27	Impact of diet and fertility on greenhouse gas emissions and nitrogen efficiency of milk production. <i>Livestock</i> , 2017, 22, 140-144.	0.2	13
28	Quantitative analysis of ruminal bacterial populations involved in lipid metabolism in dairy cows fed different vegetable oils. <i>Animal</i> , 2016, 10, 1821-1828.	3.3	32
29	Challenges and priorities for modelling livestock health and pathogens in the context of climate change. <i>Environmental Research</i> , 2016, 151, 130-144.	7.5	35
30	Effect of dietary vegetable oils on the fatty acid profile of plasma lipoproteins in dairy cows. <i>Archives of Animal Nutrition</i> , 2016, 70, 322-332.	1.8	9
31	Influence of fish oil alone or in combination with hydrogenated palm oil on sensory characteristics and fatty acid composition of bovine cheese. <i>Animal Feed Science and Technology</i> , 2015, 205, 60-68.	2.2	23
32	Effects of changing cow production and fitness traits on profit and greenhouse gas emissions of UK dairy systems. <i>Journal of Agricultural Science</i> , 2015, 153, 138-151.	1.3	20
33	Determination of the absolute accuracy of UK chamber facilities used in measuring methane emissions from livestock. <i>Measurement: Journal of the International Measurement Confederation</i> , 2015, 66, 272-279.	5.0	40
34	Short communication: Chemical composition, fatty acid composition, and sensory characteristics of Chanco cheese from dairy cows supplemented with soybean and hydrogenated vegetable oils. <i>Journal of Dairy Science</i> , 2015, 98, 111-117.	3.4	33
35	Reducing dietary protein in dairy cow diets: implications for nitrogen utilization, milk production, welfare and fertility. <i>Animal</i> , 2014, 8, 262-274.	3.3	105
36	Variation in enteric methane emissions among cows on commercial dairy farms. <i>Animal</i> , 2014, 8, 1540-1546.	3.3	41

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37	Variation in composition of pre-grazed pasture herbage in the United Kingdom, 2006â€“2012. <i>Animal Feed Science and Technology</i> , 2014, 196, 139-144.	2.2	16
38	Methane emissions among individual dairy cows during milking quantified by eructation peaks or ratio with carbon dioxide. <i>Journal of Dairy Science</i> , 2014, 97, 6536-6546.	3.4	35
39	A case study of the carbon footprint of milk from high-performing confinement and grass-based dairy farms. <i>Journal of Dairy Science</i> , 2014, 97, 1835-1851.	3.4	104
40	Estimation of dry matter intake by n-alkanes in dairy cows fed TMR: effect of dosing technique and faecal collection time. <i>Animal Production Science</i> , 2014, 54, 1747.	1.3	5
41	Technical note: A novel approach to the detection of estrus in dairy cows using ultra-wideband technology. <i>Journal of Dairy Science</i> , 2013, 96, 6529-6534.	3.4	21
42	Mutations in genes involved in oestrous cycle associated expression of oestrus. <i>Animal Reproduction Science</i> , 2013, 142, 106-112.	1.5	11
43	Trans fatty acids and their role in the milk of dairy cows. <i>Ciencia E Investigacion Agraria</i> , 2013, 40, 449-473.	0.2	21
44	On-farm methane measurements during milking correlate with total methane production by individual dairy cows. <i>Journal of Dairy Science</i> , 2012, 95, 3166-3180.	3.4	131
45	Variation among individual dairy cows in methane measurements made on farm during milking. <i>Journal of Dairy Science</i> , 2012, 95, 3181-3189.	3.4	91
46	A mathematical model of the bovine oestrous cycle: Simulating outcomes of dietary and pharmacological interventions. <i>Journal of Theoretical Biology</i> , 2012, 313, 115-126.	1.7	8
47	Dietary omega-3 and -6 polyunsaturated fatty acids affect the composition and development of sheep granulosa cells, oocytes and embryos. <i>Reproduction</i> , 2010, 139, 57-69.	2.6	117
48	Short communication: Heritability of milk fatty acid composition and stearoyl-CoA desaturase indices in dairy cows. <i>Journal of Dairy Science</i> , 2010, 93, 1743-1748.	3.4	45
49	Dietary carbohydrates and amino acids influence oocyte quality in dairy heifers. <i>Reproduction, Fertility and Development</i> , 2009, 21, 419.	0.4	21
50	Oocyte quality in lactating dairy cows fed on high levels of n-3 and n-6 fatty acids. <i>Reproduction</i> , 2009, 138, 771-781.	2.6	79
51	Effect of dietary-induced changes in plasma insulin concentrations during the early post partum period on pregnancy rate in dairy cows. <i>Reproduction</i> , 2009, 137, 759-768.	2.6	90
52	Modelling responses to nutritional, endocrine and genetic strategies to increase fertility in the UK dairy herd. <i>Veterinary Journal</i> , 2009, 180, 356-362.	1.7	12
53	Mathematical Modeling of Glucose Homeostasis and Its Relationship With Energy Balance and Body Fat. <i>Obesity</i> , 2009, 17, 632-639.	3.0	17
54	Effects of bypass fat on energy balance, milk production and reproduction in grazing crossbred cows in the tropics. <i>Livestock Science</i> , 2009, 121, 64-71.	1.6	8

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55	Energy balance, milk production and reproduction in grazing crossbred cows in the tropics with and without cereal supplementation. <i>Livestock Science</i> , 2009, 122, 227-233.	1.6	19
56	Effect of site of starch digestion on metabolic hormones and ovarian function in dairy cows. <i>Livestock Science</i> , 2009, 125, 161-168.	1.6	13
57	Effects of Freeze-dried Citrus Peel on Feed Preservation, Aflatoxin Contamination and In vitro Ruminal Fermentation. <i>Asian-Australasian Journal of Animal Sciences</i> , 2009, 22, 674-680.	2.4	14
58	Diet-induced milk fat depression: Association with changes in milk fatty acid composition and fluidity of milk fat. <i>Livestock Science</i> , 2008, 115, 319-331.	1.6	66
59	Nutrition, Metabolism, and Fertility in Dairy Cows: 1. Dietary Energy Source and Ovarian Function. <i>Journal of Dairy Science</i> , 2008, 91, 3814-3823.	3.4	70
60	Nutrition, Metabolism, and Fertility in Dairy Cows: 2. Dietary Fatty Acids and Ovarian Function. <i>Journal of Dairy Science</i> , 2008, 91, 3824-3833.	3.4	41
61	Nutrition, Metabolism, and Fertility in Dairy Cows: 3. Amino Acids and Ovarian Function. <i>Journal of Dairy Science</i> , 2008, 91, 4190-4197.	3.4	21
62	Integration of physiological mechanisms that influence fertility in dairy cows. <i>Animal</i> , 2008, 2, 1144-1152.	3.3	80
63	Feeding frequency has diet-dependent effects on plasma hormone concentrations but does not affect oocyte quality in dairy heifers fed fibre- or starch-based diets. <i>Animal</i> , 2008, 2, 1361-1370.	3.3	4
64	Impact of Dietary Fatty Acids on Oocyte Quality and Development in Lactating Dairy Cows1. <i>Biology of Reproduction</i> , 2007, 77, 9-17.	2.7	127
65	Intra-ovarian regulation of follicular development and oocyte competence in farm animals. <i>Theriogenology</i> , 2007, 68, S22-S29.	2.1	45
66	Extraction and Quantitative Analysis of Stearoyl-Coenzyme A Desaturase mRNA from Dairy Cow Milk Somatic Cells. <i>Journal of Dairy Science</i> , 2007, 90, 4128-4136.	3.4	29
67	Biohydrogenation of linoleic acid by rumen fungi compared with rumen bacteria. <i>Journal of Applied Microbiology</i> , 2007, 103, 551-556.	3.1	45
68	Biohydrogenation Pathways for Linoleic and Linolenic Acids by <i>Orpinomyces</i> Rumen Fungus. <i>Asian-Australasian Journal of Animal Sciences</i> , 2007, 20, 1694-1698.	2.4	4
69	Factors influencing biohydrogenation and conjugated linoleic acid production by mixed rumen fungi. <i>Journal of Microbiology</i> , 2007, 45, 199-204.	2.8	4
70	Variation of Milk Citrate with Stage of Lactation and De Novo Fatty Acid Synthesis in Dairy Cows. <i>Journal of Dairy Science</i> , 2006, 89, 1604-1612.	3.4	131
71	Supplementation of Essential Oil Extracted from Citrus Peel to Animal Feeds Decreases Microbial Activity and Aflatoxin Contamination without Disrupting In vitro Ruminal Fermentation. <i>Asian-Australasian Journal of Animal Sciences</i> , 2006, 19, 1617-1622.	2.4	12
72	Estimation of genetic variation in A9-desaturase enzyme activity in dairy cows. <i>Proceedings of the British Society of Animal Science</i> , 2005, 2005, 52-52.	0.0	5

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73	Short Communication: Effect of Production Variables on the Cis-9, Trans-11 Conjugated Linoleic Acid Content of Cows' Milk. <i>Journal of Dairy Science</i> , 2005, 88, 2714-2717.	3.4	23
74	Fertility in the high-producing dairy cow. <i>Livestock Science</i> , 2004, 86, 125-135.	1.2	298
75	The environmental impact of fertility in dairy cows: a modelling approach to predict methane and ammonia emissions. <i>Animal Feed Science and Technology</i> , 2004, 112, 211-223.	2.2	139
76	Technical Note: A Rapid Lipid Separation Method for Determining Fatty Acid Composition of Milk. <i>Journal of Dairy Science</i> , 2004, 87, 3785-3788.	3.4	150
77	Estimation of dry-matter intake and digestibility in group-fed dairy cows using near infrared reflectance spectroscopy. <i>Animal Science</i> , 2004, 79, 327-334.	1.3	22
78	Seasonal variation in milk conjugated linoleic acid and Δ^9 -desaturase activity in dairy cows. <i>Livestock Science</i> , 2003, 79, 47-59.	1.2	272
79	Effects of circulating progesterone and insulin on early embryo development in beef heifers. <i>Animal Reproduction Science</i> , 2003, 79, 71-79.	1.5	36
80	Relationship between lice infestation and leather damage in cattle. <i>Veterinary Record</i> , 2003, 153, 255-259.	0.3	18
81	Dietary manipulation of conjugated linoleic acid in ruminant products. <i>Proceedings of the British Society of Animal Science</i> , 2003, 2003, 219-220.	0.0	0
82	Effect of dietary-induced increases in circulating insulin concentrations during the early postpartum period on reproductive function in dairy cows. <i>Reproduction</i> , 2002, 123, 419-427.	2.6	171
83	Independent effects of dietary linoleic and linolenic fatty acids on the conjugated linoleic acid content of cows' milk. <i>Animal Science</i> , 2002, 74, 163-176.	1.3	144
84	The effect of increased dietary intake on superovulatory response to FSH in heifers. <i>Theriogenology</i> , 2002, 57, 1591-1602.	2.1	37
85	Increasing the digestible undegraded protein intake of lactating dairy cows by feeding fishmeal or a rumen protected vegetable protein blend. <i>Animal Feed Science and Technology</i> , 2002, 96, 69-81.	2.2	12
86	Δ^9 -desaturase activity in the mammary gland of lactating dairy cows. <i>Proceedings of the British Society of Animal Science</i> , 2002, 2002, 181-181.	0.0	1
87	Conjugated linoleic acid in cows milk: independent effects of dietary linoleic and linolenic fatty acids. <i>Proceedings of the British Society of Animal Science</i> , 2001, 2001, 80-80.	0.0	0
88	Prediction of chemical, nutritive and agronomic characteristics of wheat by near infrared spectroscopy. <i>Journal of Agricultural Science</i> , 2000, 135, 409-417.	1.3	67
89	Changes in the conjugated linoleic acid content of milk from dairy cows throughout the year. <i>BSAP Occasional Publication</i> , 2000, 25, 125-129.	0.0	0
90	Rumen digestibility of starch and nitrogen in near-isogenic lines of wheat. <i>Animal Feed Science and Technology</i> , 2000, 85, 33-40.	2.2	7

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91	Estimation of intake and digestibility of forage-based diets in group-fed dairy cows using alkanes as markers. <i>Journal of Agricultural Science</i> , 1999, 133, 419-425.	1.3	29
92	The occurrence of conjugated linoleic acid in the milk of dairy cows. <i>Proceedings of the British Society of Animal Science</i> , 1999, 1999, 209-209.	0.0	0
93	The effects on milk yield and composition of incorporating lactose into the diet of dairy cows given protected fat. <i>Animal Science</i> , 1996, 62, 1-3.	1.3	13
94	Effects of synchronizing the rate of dietary energy and nitrogen release in diets with a similar carbohydrate composition on rumen fermentation and microbial protein synthesis in sheep. <i>Journal of Agricultural Science</i> , 1995, 124, 463-472.	1.3	92
95	The effect of supplementing grass silage with barley on digestibility, in sacco degradability, rumen fermentation and methane production in sheep at two levels of intake. <i>Animal Feed Science and Technology</i> , 1995, 55, 9-33.	2.2	67
96	The effect of alkali treatment of cereal straws on digestibility and methane production by sheep. <i>Animal Feed Science and Technology</i> , 1994, 49, 245-259.	2.2	22
97	The effects of dietary fibre and starch concentrations on the response by dairy cows to body condition at calving. <i>Animal Science</i> , 1993, 57, 15-21.	1.3	5
98	The nutritive value of wheat and oat silages ensiled on three cutting dates. <i>Journal of Agricultural Science</i> , 1993, 121, 233-240.	1.3	9
99	The influence of the fat concentration of the diet on the response by dairy cows to body condition at calving. <i>Animal Science</i> , 1992, 54, 7-13.	1.3	22
100	The effect of patterns of rumen fermentation on the response by dairy cows to dietary protein concentration. <i>British Journal of Nutrition</i> , 1990, 63, 177-186.	2.3	24
101	Feeding calcium salts of fatty acids in high-starch or high-fibre compound supplements to lactating cows at grass. <i>Animal Science</i> , 1990, 51, 441-447.	1.3	11
102	THE IMPORTANCE OF INTAKE IN FEED EVALUATION. , 1990, , 147-160.		5
103	The interaction between dietary fibre level and protein degradability in dairy cows. <i>Animal Science</i> , 1989, 48, 271-281.	1.3	17
104	The effects of dietary energy content on the response of dairy cows to body condition at calving. <i>Animal Science</i> , 1989, 49, 183-191.	1.3	20
105	Responses of British Friesian steers with or without implants of oestradiol-17 ^β to undegradable dietary protein. <i>Animal Science</i> , 1988, 46, 181-193.	1.3	5
106	The effects of body condition at calving and dietary protein content on dry-matter intake and performance in lactating dairy cows given diets of low energy content. <i>Animal Science</i> , 1988, 47, 321-333.	1.3	25
107	The influence of body condition at calving and dietary protein supply on voluntary food intake and performance in dairy cows. <i>Animal Science</i> , 1987, 44, 347-353.	1.3	79
108	Protein nutrition of growing cattle: food intake and growth responses to rumen degradable protein and undegradable protein. <i>Animal Science</i> , 1987, 45, 383-394.	1.3	10

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109	The effect of feeding period and trenbolone acetate on the potential of culled dairy cows for beef production. <i>Animal Science</i> , 1986, 43, 385-390.	1.3	6
110	The effects of body condition at calving, food intake and performance in early lactation on blood composition of dairy cows given complete diets. <i>Animal Science</i> , 1982, 35, 121-125.	1.3	24
111	The effect of body condition of dairy cows at calving on their food intake and performance when given complete diets. <i>Animal Science</i> , 1982, 35, 113-119.	1.3	205
112	FATTY ACIDS AND FERTILITY IN DAIRY COWS. , 0, , 1-20.		0