Prediction of the amount of methane produced by rumi

British Journal of Nutrition

19, 511-522

DOI: 10.1079/bjn19650046

Citation Report

#	Article	IF	Citations
1	The metabolism of oleic, linoleic and linolenic acids by sheep with reference to their effects on methane production. British Journal of Nutrition, 1966, 20, 349-362.	1.2	156
2	The effect of linseed oil and of linseed oil fatty acids incorporated in the diet on the metabolism of sheep. British Journal of Nutrition, 1966, 20, 485-494.	1.2	82
3	Modification of the methane production of the sheep by supplementation of ITS diet. Journal of the Science of Food and Agriculture, 1966, 17, 417-421.	1.7	93
4	The heat of combustion of the urine of sheep and cattle in relation to its chemical composition and to diet. British Journal of Nutrition, 1966, 20, 449-460.	1.2	69
5	Techniques in energy metabolism studies and their limitations. Proceedings of the Nutrition Society, 1967, 26, 86-96.	0.4	35
6	Conservation of fresh and wilted grass in air-tight metal containers. Journal of the Science of Food and Agriculture, 1968, 19, 1-4.	1.7	15
7	The effect of protein intake during gestation on ewe and lamb performance. Animal Science, 1968, 10, 297-309.	1.3	31
8	The effect of different dietary energy concentrations on the voluntary intake and growth of intensively-fed lambs. Animal Science, 1969, 11, 173-185.	1.3	19
9	Manipulation of the Ruminal Fermentation. II. Effect of Sodium Sulfite on Bovine Digestion and Ruminal Fermentation. Journal of Dairy Science, 1969, 52, 1812-1816.	1.4	6
10	Digestible Energy Requirements for Winter Maintenance of Michigan White-Tailed Does. Journal of Wildlife Management, 1969, 33, 482.	0.7	28
11	The effect of diet composition and level of feeding on digestion in the stomach and intestines of sheep. British Journal of Nutrition, 1969, 23, 585-601.	1.2	61
12	Digestible and Metabolizable Energy Requirements for Winter Maintenance of Michigan White-Tailed Does. Journal of Wildlife Management, 1970, 34, 863.	0.7	53
13	The nutritive value for ruminants of a complete processed diet based on barley straw. Journal of Agricultural Science, 1970, 74, 311-314.	0.6	63
14	The voluntary intake by cattle of four silages differing in dry matter content. Animal Science, 1970, 12, 591-599.	1.3	54
15	Nutrition of the early-weaned calf. XI. Intake of diets differing in energy concentration. Animal Science, 1970, 12, 413-418.	1.3	5
16	Diurnal Variation in Rumen Volume and Metabolite Concentrations. Journal of Dairy Science, 1970, 53, 785-792.	1.4	7
17	The effect of tertiary branched-chain carboxylic acids on the energy metabolism of sheep. British Journal of Nutrition, 1971, 26, 459-468.	1.2	9
18	A theoretical consideration of the effect of preventing rumen fermentation on the efficiency of utilization of dietary energy and protein in lambs. British Journal of Nutrition, 1971, 25, 31-55.	1.2	46

#	Article	IF	Citations
20	A STUDY OF THE UTILIZATION OF SILAGES OF DIFFERENT DRY-MATTER CONTENT BY YOUNG BEEF CATTLE WITH OR WITHOUT SUPPLEMENTARY BARLEY. Grass and Forage Science, 1971, 26, 257-264.	1.2	30
21	Evaluation of Whisky Distillery By-products V.â€"Energy value of malt distiller's grains assessed by a modified comparative slaughter technique with lambs. Journal of the Science of Food and Agriculture, 1971, 22, 60-64.	1.7	3
22	Effect of arachis oil on the conservation of heavily wilted herbage ensiled in plastic containers I.â€"Effect on silage fermentation quality, nutritive value, nutrient losses and intake by sheep. Journal of the Science of Food and Agriculture, 1971, 22, 419-423.	1.7	3
23	The voluntary intake and utilization of roughageâ€"concentrate diets by sheep. 1. Concentrate supplements for hay and straw. Animal Science, 1971, 13, 71-82.	1.3	31
24	The voluntary intake and utilization of roughageâ€"concentrate diets by sheep. 2. Barley and soya bean meal supplementation of hay diets. Animal Science, 1971, 13, 83-92.	1.3	11
25	The effect of different proportions of hay and fortified rolled barley in the diet on digestible-energy value and urinary-energy excretion by cattle. Journal of Agricultural Science, 1972, 79, 99-103.	0.6	3
26	Studies on the nutritive value of silage with particular reference to the effects of energy and nitrogen supplementation in growing heifers. Journal of Agricultural Science, 1973, 80, 75-88.	0.6	13
27	The Intake, Digestion and Utilization of Food and Growth Rate of Lambs Affected by Trichostrongylns colutbriformis. Research in Veterinary Science, 1974, 16, 299-309.	0.9	9
28	Prediction of the Energy Requirements for Growth in Beef Cattle 1. The irrelevance of fasting metabolism. Animal Science, 1974, 19, 127-139.	1.3	54
29	Nutritive value of white clover and perennial ryegrass. New Zealand Journal of Agricultural Research, 1974, 17, 401-406.	0.9	32
30	Nutritive value of Kikuyu grass. New Zealand Journal of Agricultural Research, 1974, 17, 197-202.	0.9	11
31	Nutritive Characterization of Certain Grass Hays in Northern New Mexico. Journal of Range Management, 1974, 27, 350.	0.3	1
32	Estimating Methane, Urine, and Heat Increment for Deer Consuming Browse. Journal of Wildlife Management, 1975, 39, 80.	0.7	7
33	Studies on Energy and Protein Utilization for Pregnancy and Lactation by the West African Dwarf Goats in Nigeria. East African Agricultural and Forestry Journal, 1975, 41, 167-176.	0.4	11
34	Effects of breed of cattle on energy requirements for growth. Animal Science, 1975, 21, 109-119.	1.3	11
35	Ground roughage in the diet of the early-weaned calf. Animal Science, 1975, 20, 93-100.	1.3	24
36	Differences in feed intake and the performance of Finn Ã— Dorset ewes during late pregnancy. Animal Production, 1975, 20, 391-400.	1.0	10
37	Soaking of complete fattening rations high in poor roughage 1. The effect of moisture content and spontaneous fermentation on nutritional value. Animal Science, 1975, 21, 323-335.	1.3	7

#	Article	IF	Citations
38	Methane production in rock ptarmigan (Lagopus mutus). Comparative Biochemistry and Physiology A, Comparative Physiology, 1976, 54, 183-185.	0.7	10
39	Feeding value of silage: Silages made from freshly cut grass, wilted grass and formic acid treated wilted grass. Journal of the Science of Food and Agriculture, 1976, 27, 536-544.	1.7	24
40	Beef production from formic acid-treated and wilted silages. Animal Science, 1976, 22, 217-223.	1.3	18
41	The effect of a methane-suppressing compound, trichloroethyl adipate, on rumen fermentation and the growth of sheep. Animal Science, 1977, 24, 169-181.	1.3	22
42	Feeding value of wilted silages made using formic acid, formaldehyde and propionic acid. Animal Science, 1977, 25, 71-81.	1.3	7
43	Rumen fermentation studies on two contrasting diets. 1. Some characteristics of the in vivo fermentation, with special reference to the composition of the gas phase, oxidation/reduction state and volatile fatty acid proportions. Journal of Agricultural Science, 1977, 89, 183-195.	0.6	50
44	Effect of delaying the sealing of the silo on the nutritive value of grass silage. Journal of the Science of Food and Agriculture, 1977, 28, 798-805.	1.7	1
45	The potential of sunflower as a crop for ensilage. Journal of the Science of Food and Agriculture, 1978, 29, 332-338.	1.7	6
46	Chaffed or ground straw and lucerne in the diet of the early-weaned calf. Animal Science, 1978, 27, 171-179.	1.3	2
47	Methane production in the rumen and lower gut of sheep given lucerne chaff: effect of level of intake. British Journal of Nutrition, 1978, 39, 337-345.	1.2	46
48	Methane Production in Dairy Cows. Journal of Dairy Science, 1979, 62, 1583-1586.	1.4	301
49	Estimates of maintenance requirement of growing lambs. British Journal of Nutrition, 1979, 41, 223-229.	1.2	11
50	The utilization of chopped and pelleted lucerne (Medicago sativa) by growing lambs. British Journal of Nutrition, 1979, 41, 297-310.	1.2	27
52	Nutritional studies with sheep fed conserved ryegrass. 1. Silage and dried grass offered ad libitum without supplements. Journal of Agricultural Science, 1980, 94, 209-218.	0.6	4
53	Nutritional studies with sheep fed conserved ryegrass. 2. Silage supplemented with dried grass or barley. Journal of Agricultural Science, 1980, 94, 219-227.	0.6	3
54	Intake and metabolism studies with fresh and wilted silages. Journal of Agricultural Science, 1980, 94, 287-298.	0.6	26
55	The effect of chloroform introduced into the rumen of the lactating goat on the yield and composition of the milk. Journal of Dairy Research, 1980, 47, 51-60.	0.7	1
56	Use of Feed Additives to Reduce Ruminal Methane Production and Deaminase Activity in Steers. Journal of Animal Science, 1980, 50, 1160-1164.	0.2	30

#	Article	IF	Citations
57	The relative efficiency of food utilization of British Friesian entire male and castrate male cattle at two levels of feeding. Animal Science, 1980, 30, 53-59.	1.3	6
58	MANIPULATION OF RUMEN FERMENTATION. , 1981, , 157-183.		2
59	Monensin Supplementation and in vivo Methane Production by Steers. Journal of Animal Science, 1981, 52, 628-634.	0.2	103
60	Variation in methane production by sheep fed every two hours. Journal of Agricultural Science, 1982, 98, 633-638.	0.6	11
62	The effect of silage additives containing formaldehyde on the fermentation of ryegrass ensiled at different dry matter levels and on the nutritive value of direct-cut silage. Animal Feed Science and Technology, 1982, 7, 303-314.	1.1	17
63	A mixture of malt distillers' grains (draff) and pot ale syrup as a food for dairy cows. Animal Science, 1982, 35, 263-267.	1.3	2
64	The energy value to ruminants of malt distillers' draff, and of a mixture of draff and pot ale syrup. Animal Science, 1982, 34, 325-328.	1.3	3
65	Silage and milk production: studies with diets containing white clover silage. Grass and Forage Science, 1983, 38, 193-200.	1.2	25
66	Energy and nitrogen balance, intake and growth rate of lambs fed on unwilted grass silages treated with a formaldehydeâ€"Acid mixture or untreated. Animal Feed Science and Technology, 1983, 9, 107-119.	1.1	8
67	Effect of inclusion of protected and unprotected tallow in the supplement on the performance of lactating dairy cows. Animal Science, 1983, 37, 203-210.	1.3	24
68	A Simulation Model of Energy and Nitrogen Balance for Free-Ranging Ruminants. Journal of Wildlife Management, 1983, 47, 620.	0.7	22
69	Digestion and Nutrient Metabolism. , 1983, , 274-312.		0
70	The Effects of Rumen Ciliate Protozoa on Energy Metabolism and Some Constituents in Rumen Fluid and Blood Plasma of Goats. Nihon Chikusan Gakkaiho, 1984, 55, 248-256.	0.0	13
71	A comparison of two-cut and three-cut systems of silage making for beef cattle using two cultivars of perennial ryegrass. Animal Science, 1984, 38, 171-179.	1.3	47
72	The association of maize silage with urea: the effect on the ammonia content of the rumen fluid, the N flow in the duodenum, the nitrogen and energy balances and the milk production. Archiv Fur Tierernahrung, 1984, 34, 227-235.	0.3	4
73	Methane formation in faunated and ciliate-free cattle and its relationship with rumen volatile fatty acid proportions. British Journal of Nutrition, 1984, 52, 261-275.	1.2	131
74	A comparison of unwilted and wilted grass silages offered to beef cattle without and with monensin sodium. Grass and Forage Science, 1984, 39, 35-41.	1.2	8
75	Biotechnology and the rumen: A mini review. Journal of the Science of Food and Agriculture, 1985, 36, 1039-1046.	1.7	25

#	Article	IF	Citations
76	Feeding value of sprouted wheat (Triticum aestivum) for beef cattle finishing diets. Animal Feed Science and Technology, 1986, 15, 113-121.	1.1	4
77	Effect of defaunation on the loss of energy in wethers fed different quantities of cellulose and normal or steamflaked maize starch. Animal Feed Science and Technology, 1986, 16, 233-241.	1.1	67
78	Effect of Salinomycin Supplementation on Characteristics of Digestion and Feedlot Performance of Cattle. Journal of Animal Science, 1986, 63, 1996-2004.	0.2	20
79	Methane production by domestic animals, wild ruminants, other herbivorous fauna, and humans. Tellus, Series B: Chemical and Physical Meteorology, 2022, 38, 271.	0.8	174
80	Some Attempts to Improve the Nutritive Value of Urea for Dairy Cows. Archiv Fur Tierernahrung, 1986, 36, 419-428.	0.3	7
81	Evaluation of the nutritive value of single-cell protein (Pruteen) for lactating dairy cows. Journal of Agricultural Science, 1986, 106, 593-599.	0.6	6
82	In vivo evaluation of spent coffee grounds as a ruminant feed. Agricultural Wastes, 1986, 18, 69-72.	0.4	59
83	Methane production by domestic animals, wild ruminants, other herbivorous fauna, and humans. Tellus, Series B: Chemical and Physical Meteorology, 1986, 38B, 271-284.	0.8	230
84	Methodik und Anwendung der Defaunierung beim wachsenden WiederkÃuer. Transboundary and Emerging Diseases, 1986, 33, 721-745.	0.6	20
86	Some attempts to improve the nutritive value of urea for dairy cows. Archiv Fur Tierernahrung, 1986, 36, 91-98.	0.3	1
87	Some attempts to improve the nutritive value of urea for dairy cows. Archiv Fur Tierernahrung, 1986, 36, 541-550.	0.3	3
88	A comparison of starchy and fibrous concentrates for milk production, energy utilization and hay intake by Friesian cows. Journal of Agricultural Science, 1987, 109, 375-386.	0.6	86
89	Nutritive value of three cultivars of triticale for sheep, pigs and poultry. Animal Feed Science and Technology, 1987, 18, 19-35.	1.1	11
90	Nutritive value of naked oats for ruminants. Animal Feed Science and Technology, 1987, 18, 83-87.	1.1	19
91	The chemical composition, digestibility and energy value of fodder-beet roots. Animal Feed Science and Technology, 1987, 18, 225-231.	1.1	24
92	Nutritive value of apple pomace for ruminants. Animal Feed Science and Technology, 1987, 16, 311-315.	1.1	18
93	Influence of psoroptes ovis on the energy metabolism of heifer calves. Veterinary Parasitology, 1987, 23, 285-295.	0.7	22
94	Energiebilanz und Energieverwertung bei der Milchkuh wÃhrend und nach energetischer Ãœberversorgung. Journal of Animal Physiology and Animal Nutrition, 1987, 58, 75-88.	1.0	5

#	Article	IF	Citations
95	III. 2. Ruminants. Livestock Science, 1988, 19, 217-278.	1.2	43
96	The effect of ammoniation on the nutritive value of wheat, barley and oat straws. II. Digestibility and energy value measurements in vivo and their prediction from laboratory measurements. Animal Feed Science and Technology, 1988, 19, 173-184.	1.1	35
97	Relationships between Digestibility and Energy Value in Primary Growth Fresh Herbage. Proceedings of the British Society of Animal Production (1972), 1988, 1988, 17-17.	0.0	0
98	Metabolisable Energy Content of a Saponified Palm Fat Product for Ruminants. Proceedings of the British Society of Animal Production (1972), 1988, 1988, 22-22.	0.0	0
99	GROWTH PROMOTERS AND THEIR IMPORTANCE IN RUMINANT LIVESTOCK PRODUCTION. , 1988, , 308-322.		1
100	Oats and naked oats: recent studies of composition, digestibility and energy value for ruminants. Proceedings of the British Society of Animal Production (1972), 1989, 1989, 100-100.	0.0	2
101	PREDICTING THE NUTRITIVE VALUE OF SILAGE. , 1989, , 141-158.		7
102	Effects of Changes in Frequency of Reticular Contractions on Fluid and Particulate Passage Rates in Cattle. Journal of Animal Science, 1989, 67, 3388.	0.2	128
103	Protein and energy relationships in dairy cattle. Archiv Fur Tierernahrung, 1989, 39, 535-542.	0.3	1
104	Protein and energy requirements for maintenance and gain by West African dwarf goats fed cassava (Manihot utilissima) leaves with peels as supplement. Small Ruminant Research, 1989, 2, 291-298.	0.6	14
105	The effect of dry feed additives on the nutritive value of silage. Grass and Forage Science, 1989, 44, 391-397.	1.2	17
106	The digestibility and metabolisable energy content of grass silage and their prediction from laboratory measurements. Animal Feed Science and Technology, 1989, 24, 27-43.	1.1	54
107	The nutritive value of spring-grown herbage produced on farms throughout England and wales over four years. I. The effect of stage of maturity and other factors on chemical composition, apparent digestibility and energy values measured in vivo. Animal Feed Science and Technology, 1989, 27, 157-172.	1.1	23
108	Chemical composition, digestibility in vitro, and digestibility and energy value in vivo of untreated cereal straws produced on farms throughout England. Animal Feed Science and Technology, 1989, 26, 323-335.	1.1	14
109	Effect of untreated or chemically upgraded barley straw with highly digestible grass silage on intake and performance of lactating cows. Journal of Agricultural Science, 1990, 115, 393-398.	0.6	3
110	Effect of feed type on methane produced by sheep. Proceedings of the British Society of Animal Production (1972), 1990, 1990, 28-28.	0.0	0
111	Effect of feeding different levels of fatty acids or calcium soaps of fatty acids on digestion and metabolizable energy in sheep. Animal Science, 1990, 50, 93-98.	1.3	16
112	Performance of Dairy Goats Fed Soybean Meal or Meat and Bone Meal with or Without Urea During Early Lactation. Journal of Dairy Science, 1990, 73, 726-734.	1.4	23

#	Article	IF	Citations
113	Nutritive value of whole triticale grain for sheep. Animal Feed Science and Technology, 1990, 30, 163-168.	1.1	3
114	Potential of the doubly labelled water method for estimating heat production in farm animals. Journal of Agricultural Science, 1991, 117, 141-148.	0.6	8
115	Energy requirements for maintenance and gain of West African Dwarf goats. Small Ruminant Research, 1991, 5, 205-215.	0.6	19
116	The durations of masticating activities and the feed energetic utilisation of Friesian lactating cows on maize silageâ€based rations. Journal of Animal Physiology and Animal Nutrition, 1991, 65, 194-205.	1.0	5
117	Methane Production in Goats Given Diets Based on Lucerne hay and Barley. Archiv Fur Tierernahrung, 1991, 41, 77-84.	0.3	5
118	Methane Production in Heifers, Sheep and Goats Consuming Diets of Various Hay-Concentrate Ratios. Nihon Chikusan Gakkaiho, 1992, 63, 1221-1227.	0.0	14
119	Nutritional value of cane molasses in diets of grass silage and concentrates fed to sheep. Animal Feed Science and Technology, 1992, 38, 281-291.	1.1	2
120	Digestibility and energy value of combinations of forage mixtures. Animal Feed Science and Technology, 1992, 39, 151-172.	1.1	18
121	The chemical composition and energy value of high temperature dried grass produced in England. Animal Feed Science and Technology, 1992, 36, 215-228.	1.1	15
122	Methane Prediction in Dry and Lactating Holstein Cows. Journal of Dairy Science, 1992, 75, 2165-2175.	1.4	145
123	Nutrition Management of Dairy Cows as a Contribution to Pollution Control. Journal of Dairy Science, 1992, 75, 345-357.	1.4	340
124	Sulfate supplementation of Angora goats: metabolic and mohair responses2. Journal of Animal Science, 1992, 70, 2828-2837.	0.2	42
125	Methane production by sheep when fed either untreated, ammonia treated or sodium hydroxide treated straw. Proceedings of the British Society of Animal Production (1972), 1992, 1992, 204-204.	0.0	0
126	Influence of forbs and shrubs on nutrient digestion and balance in sheep fed grass hay. Small Ruminant Research, 1992, 7, 113-122.	0.6	8
127	Influence of forbs and shrubs on intake, digestibility, and nitrogen and energy balance in sheep fed low-quality straw. Agroforestry Systems, 1993, 24, 95-104.	0.9	2
128	National greenhouse gas accounts: Current anthropogenic sources and sinks. Climatic Change, 1993, 25, 15-58.	1.7	66
129	Influence of growth stage and season on the energy value of fresh herbage. 1. Changes in metabolizable energy content. Grass and Forage Science, 1993, 48, 166-174.	1.2	29
130	Sulfate supplementation of Angora goats: sulfur metabolism and interactions with zinc, copper and molybdenum. Small Ruminant Research, 1993, 11, 209-225.	0.6	14

#	Article	IF	Citations
131	Prediction of the digestibility and energy value of grass silage conserved in big bales. Animal Feed Science and Technology, 1993, 41, 297-312.	1.1	8
132	A comparison of farm-scale methods of application of sodium hydroxide on the nutritive value of a winter wheat straw. Animal Feed Science and Technology, 1993, 41, 199-212.	1.1	2
133	The digestibility and energy value of badly preserved grass silages. Animal Feed Science and Technology, 1993, 42, 97-107.	1.1	7
134	The digestion and energy value of whole crop wheat treated with urea. Animal Feed Science and Technology, 1993, 43, 51-64.	1.1	14
135	The upgrading of wheat straw by alkaline hydrogen peroxide treatment: The effect of NaOH and H2O2 on the site and extent of digestion in sheep. Animal Feed Science and Technology, 1993, 40, 121-133.	1.1	12
136	N losses, purine N derivatives excretion and intestinal digestible protein requirements of cows at maintenance. Livestock Science, 1993, 36, 213-222.	1.2	14
137	The influence of an inoculant/enzyme preparation as an additive for grass silage offered in combination with three levels of concentrate supplementation on performance of lactating dairy cows. Animal Science, 1993, 56, 301-310.	1.3	23
138	Assessment of fermentation in growing pigs given unmolassed sugar-beet pulp: a stoichiometric approach. British Journal of Nutrition, 1993, 69, 511-525.	1.2	18
139	Effect of altering the starch: fibre ratio in the concentrates on hay intake and milk production by Friesian cows. Journal of Agricultural Science, 1993, 120, 379-390.	0.6	29
140	Estimation of Methane Production in Ruminants. Nihon Chikusan Gakkaiho, 1993, 64, 790-796.	0.0	19
141	The effect of energy and protein intake on the excretion of purine derivatives. Journal of Agricultural Science, 1994, 123, 257-265.	0.6	35
142	Methane and nitrous oxide emissions: an introduction. Fertilizer Research, 1994, 37, 213-225.	0.5	37
143	Greenhouse gas emissions from intensive livestock systems: Their estimation and technologies for reduction. Climatic Change, 1994, 27, 27-38.	1.7	51
144	Methods for exploring management options to reduce greenhouse gas emissions from tropical grazing systems. Climatic Change, 1994, 27, 49-70.	1.7	30
145	Measurement of methane emissions from ruminant livestock using a sulfur hexafluoride tracer technique. Environmental Science & Technology, 1994, 28, 359-362.	4.6	431
146	The effect of alkali treatment of cereal straws on digestibility and methane production by sheep. Animal Feed Science and Technology, 1994, 49, 245-259.	1.1	22
147	The nutritive value and chemical composition of energy-rich by-products for ruminants. Animal Feed Science and Technology, 1994, 49, 261-276.	1.1	18
148	Prediction of the energy values of compound feeds for ruminants. Animal Feed Science and Technology, 1994, 48, 73-98.	1.1	19

#	Article	IF	Citations
149	The chemical composition, digestibility, metabolisable energy content and nitrogen degradability of some protein concentrates. Animal Feed Science and Technology, 1994, 47, 335-351.	1.1	26
150	Methane emissions from cattle. Journal of Animal Science, 1995, 73, 2483-2492.	0.2	1,920
151	Assessing national livestock populations for the production of methane emission inventories. Environmental Monitoring and Assessment, 1995, 38-38, 217-229.	1.3	5
152	The use of sheep to predict methane production by cattle fed grass silage based rations. Proceedings of the British Society of Animal Science, 1995, 1995, 82-82.	0.0	0
153	The relationship between digestibility, methane energy loss and metabolisable energy of whole crop wheat. Proceedings of the British Society of Animal Science, 1995, 1995, 159-159.	0.0	0
154	Interaction of feed intake level on comparative ruminal and total tract digestion of dry-rolled and steam-flaked corn. Journal of Animal Science, 1995, 73, 1239-1245.	0.2	57
155	Feed additives and other interventions for decreasing methane emissions. , 0, , 329-349.		43
156	The Lactational Responses of Dairy Cows to Amount of Feed and to the Source of Carbohydrate Energy. Journal of Dairy Science, 1995, 78, 1734-1744.	1.4	23
157	The Prediction of Methane Production of Holstein Cows by Several Equations. Journal of Dairy Science, 1995, 78, 2402-2414.	1.4	88
158	Methane and Carbon Dioxide Emissions from Dairy Cows in Full Lactation Monitored over a Six-Month Period. Journal of Dairy Science, 1995, 78, 2760-2766.	1.4	118
159	The effect of pelleting of alfalfa hay on methane production and digestibility by steers. Science of the Total Environment, 1996, 180, 221-227.	3.9	31
160	Generation of methane from paddy fields and cattle in India, and its reduction at source. Atmospheric Environment, 1996, 30, 2569-2574.	1.9	10
161	A new tracer experiment to estimate the methane emissions from a dairy cow shed using sulfur hexafluoride (SF6). Global Biogeochemical Cycles, 1996, 10, 413-418.	1.9	31
162	The relationship between digestibility or energy losses as methane and metabolisable energy content of whole crop wheat. Proceedings of the British Society of Animal Science, 1996, 1996, 41-41.	0.0	0
163	Relationships between deuterium dilution space and estimated energy balance in lactating goats. Small Ruminant Research, 1996, 19, 15-22.	0.6	1
164	Control of rumen methanogenesis. Environmental Monitoring and Assessment, 1996, 42, 73-97.	1.3	207
165	Estimates of animal methane emissions. Environmental Monitoring and Assessment, 1996, 42, 133-141.	1.3	120
166	The growth and development of nine European sheep breeds. 1. British breeds: Scottish Blackface, Welsh Mountain and Shetland. Animal Science, 1997, 65, 409-426.	1.3	26

#	Article	IF	Citations
167	Methane production by steers on pasture. Canadian Journal of Animal Science, 1997, 77, 519-524.	0.7	81
168	Effects of Breed and Dietary Experience on Juniper Consumption by Goats. Journal of Range Management, 1997, 50, 600.	0.3	59
169	The effect of differing forage:concentrate ratio and restricting feed intake on the energy and nitrogen utilization by beef cattle. Livestock Science, 1997, 51, 151-164.	1.2	40
170	GRAZPLAN: Decision support systems for Australian grazing enterprisesâ€"II. The animal biology model for feed intake, production and reproduction and the GrazFeed DSS. Agricultural Systems, 1997, 54, 77-126.	3.2	311
171	Assessment using sheep of the nutritive value of liquid potato feed and partially fried potato chips (French fries). Animal Feed Science and Technology, 1997, 64, 243-256.	1.1	4
172	Rumen gases and bloat in grazing dairy cows. Journal of Agricultural Science, 1997, 129, 459-469.	0.6	47
173	Methane emissions measured directly from grazing livestock in New Zealand. Atmospheric Environment, 1997, 31, 2905-2914.	1.9	150
174	Mitigating Agricultural Emissions of Methane. Climatic Change, 1998, 40, 39-80.	1.7	187
175	Methane emissions from sheep. Small Ruminant Research, 1998, 27, 137-150.	0.6	63
176	The chemical composition, digestibility and energy value of fermented and urea-treated whole crop wheat harvested at three stages of maturity. Grass and Forage Science, 1998, 53, 66-75.	1.2	23
177	Feed Intake Relative to Stage of Lactation for Dairy Cows Consuming Total Mixed Diets with a High or Low Ratio of Concentrate to Forage. Journal of Dairy Science, 1998, 81, 2228-2239.	1.4	79
178	Reducing Methane Emissions from Ruminant Animals. Journal of Applied Animal Research, 1998, 14, 1-28.	0.4	83
179	From the Ground Up: The Development and Demonstrated Utility of the Ruminal Ecosystem Model. , 1998, , 210-227.		0
180	Perspectives on ruminant nutrition and metabolism I. Metabolism in the Rumen. Nutrition Research Reviews, 1998, 11, 173-198.	2.1	46
181	Net energy value of timothy and bromegrass silages for beef cattle. Canadian Journal of Animal Science, 1998, 78, 107-114.	0.7	4
182	Effects of barley cultivar on energy and nitrogen metabolism of lambs. Canadian Journal of Animal Science, 1998, 78, 389-397.	0.7	12
183	Prediction of methane production from dairy cows using existing mechanistic models and regression equations.. Journal of Animal Science, 1998, 76, 617.	0.2	103
184	A review of current nutritional models: what we need to measure. BSAP Occasional Publication, 1998, 22, 21-31.	0.0	1

#	Article	IF	Citations
185	Energy expenditure of Angora bucks in peak breeding season estimated with the doubly-labeled water technique.. Journal of Animal Science, 1999, 77, 3096.	0.2	8
186	Direct measurements of methane emissions from grazing and feedlot cattle.. Journal of Animal Science, 1999, 77, 1392.	0.2	123
187	Detection of methanogenic archaea associated with rumen ciliate protozoa.. Journal of General and Applied Microbiology, 1999, 45, 305-308.	0.4	27
188	Phylogenetic Study of Methanogens Associated with Rumen Ciliates. Current Microbiology, 1999, 39, 123-128.	1.0	82
189	Methane emission from free-ranging sheep: a comparison of two measurement methods. Atmospheric Environment, 1999, 33, 1357-1365.	1.9	57
190	Subabul leaf meal as a replacement of mustard cake in lamb diets. Small Ruminant Research, 1999, 32, 37-42.	0.6	14
191	Impact of pasture type on methane production by lactating beef cows. Canadian Journal of Animal Science, 1999, 79, 221-226.	0.7	124
192	Methane suppression by coconut oil and associated effects on nutrient and energy balance in sheep. Canadian Journal of Animal Science, 1999, 79, 65-72.	0.7	154
193	Prediction of the metabolizable energy value of whole-crop wheat from laboratory-based measurements. Animal Science, 1999, 69, 427-439.	1.3	8
194	Methane production and energy partition of cattle in the tropics. British Journal of Nutrition, 1999, 81, 227-234.	1.2	156
195	Methane emissions from Australian livestock: implications of the Kyoto Protocol. Australian Journal of Agricultural Research, 1999, 50, 1285.	1.5	41
197	Prediction of methane energy output in dairy and beef cattle offered grass silage-based diets. Livestock Science, 2000, 64, 253-263.	1.2	156
198	Methane production by ruminants: its contribution to global warming. Animal Research, 2000, 49, 231-253.	0.6	920
199	The potential of forageâ€“maize intercrops in ruminant nutrition. Animal Feed Science and Technology, 2000, 86, 157-164.	1.1	50
200	Energy metabolism with particular reference to methane production in Muzaffarnagari sheep fed rations varying in roughage to concentrate ratio. Animal Feed Science and Technology, 2000, 83, 287-300.	1.1	13
201	Inventory of methane emissions from U.S. cattle. Journal of Geophysical Research, 2001, 106, 12633-12642.	3.3	26
202	Evaluation of dietary strategies to reduce methane production in ruminants: A modelling approach. Canadian Journal of Animal Science, 2001, 81, 563-574.	0.7	192
203	Glucose uptake and regulation by intestinal tissues: Implications and whole-body energetics. Journal of Animal Science, 2001, 79, E59.	0.2	50

#	Article	IF	Citations
204	Interactions and coupling between emissions of methane and nitrous oxide from animal husbandry. Nutrient Cycling in Agroecosystems, 2001, 60, 123-132.	1.1	118
205	Effects of dietary sunflower seed oil on rumen protozoa population and tissue concentration of conjugated linoleic acid in sheep. Small Ruminant Research, 2001, 41, 215-227.	0.6	130
206	Methane emissions from the rumen of sheep fed a mixed grass-clover pasture at two fertilisation rates in early and late season. Canadian Journal of Animal Science, 2002, 82, 69-77.	0.7	25
207	Whole-crop wheat for dairy cows: effects of crop maturity, a silage inoculant and an enzyme added before feeding on food intake and digestibility and milk production. Animal Science, 2002, 74, 307-318.	1.3	23
208	The combined effects of animal species (sheepversuscattle) and level of feeding on digestible and metabolizable energy concentrations in grass-based diets of cattle. Animal Science, 2002, 75, 141-151.	1.3	17
209	Validation of the sulphur hexafluoride (SF₆) tracer gas technique for measurement of methane and carbon dioxide production by cattle. Canadian Journal of Animal Science, 2002, 82, 125-131.	0.7	78
210	The relationship between metabolisable energy concentration and nutrient digestibility in grass silages offered to sheep at maintenance. Proceedings of the British Society of Animal Science, 2002, 2002, 51-51.	0.0	0
211	Energy requirement for maintenance and growth of Nellore bulls and steers fed high-forage diets. Journal of Animal Science, 2002, 80, 1671-1682.	0.2	71
212	Can methane suppression during digestion of woody and leafy browse compensate for energy costs of detoxification of plant secondary compounds? A test with muskoxen fed willows and birch. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2002, 133, 849-859.	0.8	12
213	Detection of Proteobacteria from the rumen by PCR using methanotroph-specific primers. Letters in Applied Microbiology, 2002, 35, 251-255.	1.0	45
214	Effect of alpha-cyclodextrin-allyl isothiocyanate on ruminal microbial methane production in vitro. Animal Science Journal, 2003, 74, 321-326.	0.6	20
215	Rumen fermentation patterns and nutrient digestion in lambs fed cottonseed meal supplemental diets. Animal Feed Science and Technology, 2003, 103, 1-14.	1.1	22
216	Methane emission by alpaca and sheep fed on lucerne hay or grazed on pastures of perennial ryegrass/white clover or birdsfoot trefoil. Journal of Agricultural Science, 2003, 140, 215-226.	0.6	69
217	Rumen function and digestion parameters associated with differences between sheep in methane emissions when fed chaffed lucerne hay. Journal of Agricultural Science, 2003, 140, 205-214.	0.6	133
218	Persistence of differences between sheep in methane emission under generous grazing conditions. Journal of Agricultural Science, 2003, 140, 227-233.	0.6	62
219	Methane-suppressing effect of myristic acid in sheep as affected by dietary calcium and forage proportion. British Journal of Nutrition, 2003, 90, 529-540.	1.2	106
220	Potential Environmental Benefits of Ionophores in Ruminant Diets. Journal of Environmental Quality, 2003, 32, 1591-1602.	1.0	147
221	Methane emissions by Charolais cows grazing a monospecific pasture of timothy at four stages of maturity. Canadian Journal of Animal Science, 2003, 83, 769-777.	0.7	79

#	Article	IF	Citations
222	A dynamic model of metabolizable energy utilization in growing and mature cattle. III. Model evaluation. Journal of Animal Science, 2003, 81, 1390-1398.	0.2	13
223	Effect of Japanese horseradish oil on methane production and ruminal fermentation in vitro and in steers1. Journal of Animal Science, 2004, 82, 1839-1846.	0.2	96
224	Effects of feed carbohydrates with contrasting properties on rumen fermentation and methane release in vitro. Canadian Journal of Animal Science, 2004, 84, 265-276.	0.7	55
225	Genotype differences and their impact on digestive tract function of ruminants: a review. Australian Journal of Experimental Agriculture, 2004, 44, 459.	1.0	65
226	Evaluation of a micrometeorological mass balance method employing an open-path laser for measuring methane emissions. Atmospheric Environment, 2004, 38, 6855-6866.	1.9	43
227	Mitigation strategies to reduce enteric methane emissions from dairy cows: Update review. Canadian Journal of Animal Science, 2004, 84, 319-335.	0.7	356
228	Reducing methane emissions in sheep by immunization against rumen methanogens. Vaccine, 2004, 22, 3976-3985.	1.7	130
229	Prediction of metabolisable energy concentrations from nutrient digestibility and chemical composition in grass silages offered to sheep at maintenance. Animal Feed Science and Technology, 2004, 117, 197-213.	1.1	11
230	Short Communication: Effects of Feeding Level on Energy Concentration in Grass Silage-Based Diets Offered to Dairy Cattle. Journal of Dairy Science, 2004, 87, 1425-1427.	1.4	2
231	Prediction of nutritive values in grass silages: I. Nutrient digestibility and energy concentrations using nutrient compositions and fermentation characteristics1. Journal of Animal Science, 2004, 82, 1367-1379.	0.2	18
232	Predicted methane emissions and metabolizable energy intakes of steers grazing a grass/alfalfa pasture and finished in a feedlot or at pasture using the GrassGro decision support tool. Canadian Journal of Animal Science, 2004, 84, 125-132.	0.7	3
233	Methane emissions from enteric fermentation in Albertaâ€™s beef cattle population. Canadian Journal of Animal Science, 2005, 85, 501-512.	0.7	25
234	Effects of supplementary corn silage on the feed intake and milk production of time-restricted grazing dairy cows. Animal Science Journal, 2005, 76, 331-337.	0.6	11
235	Effects of main protein, non-forage fibre and forage source on digestibility, N balance and energy value of sheep rations. Small Ruminant Research, 2005, 59, 65-73.	0.6	5
236	Archaea in protozoa and metazoa. Applied Microbiology and Biotechnology, 2005, 66, 465-474.	1.7	45
237	Manipulating Enteric Methane Emissions and Animal Performance of Late-Lactation Dairy Cows Through Concentrate Supplementation at Pasture. Journal of Dairy Science, 2005, 88, 2836-2842.	1.4	75
238	The evaluation of a backward Lagrangian stochastic (bLS) model to estimate greenhouse gas emissions from agricultural sources using a synthetic tracer source. Agricultural and Forest Meteorology, 2005, 135, 61-72.	1.9	61
239	Comparison of methane produced by straw fed sheep in open-circuit respiration with methane predicted by fermentation characteristics measured by an in vitro gas procedure. Animal Feed Science and Technology, 2005, 123-124, 379-390.	1.1	30

#	Article	IF	Citations
240	Greenhouse gas inventories from animal agriculture for the United States. International Congress Series, 2006, 1293, 21-28.	0.2	2
241	Prediction of methane output in beef cattle from indirect respiration calorimetry data. International Congress Series, 2006, 1293, 46-49.	0.2	8
242	Effects of pasture improvement on productivity, gross margin and methane emissions of a grazing sheep enterprise. International Congress Series, 2006, 1293, 103-106.	0.2	26
243	The persistence over time of divergent methane production in lot fed cattle. International Congress Series, 2006, 1293, 111-114.	0.2	11
244	The impact of breeding to reduce residual feed intake on enteric methane emissions from the Australian beef industry. Australian Journal of Experimental Agriculture, 2006, 46, 813.	1.0	64
245	Medium-chain fatty acids and their potential to reduce methanogenesis in domestic ruminants. Agriculture, Ecosystems and Environment, 2006, 112, 107-114.	2.5	97
247	Molecular identification of methanogenic archaea from sheep in Queensland, Australia reveal more uncultured novel archaea. Anaerobe, 2006, 12, 134-139.	1.0	93
248	Methane and nitrous oxide emissions from Canadian animal agriculture: A review. Canadian Journal of Animal Science, 2006, 86, 135-157.	0.7	180
249	Enteric methane emissions from growing beef cattle as affected by diet and level of intake. Canadian Journal of Animal Science, 2006, 86, 401-408.	0.7	55
250	Methane emissions and digestive physiology of non-lactating dairy cows fed pasture forage. Canadian Journal of Animal Science, 2007, 87, 601-613.	0.7	46
251	The possible influence of intra-ruminal sulphur hexafluoride release rates on calculated methane emissions from cattle. Canadian Journal of Animal Science, 2007, 87, 269-275.	0.7	24
252	Cattle selected for lower residual feed intake have reduced daily methane production1,2. Journal of Animal Science, 2007, 85, 1479-1486.	0.2	326
253	Prediction of Methane Production from Dairy and Beef Cattle. Journal of Dairy Science, 2007, 90, 3456-3466.	1.4	292
254	Methane Emissions from Dairy Cows Measured Using the Sulfur Hexafluoride (SF6) Tracer and Chamber Techniques. Journal of Dairy Science, 2007, 90, 2755-2766.	1.4	204
255	Estimating the greenhouse gas fluxes of European grasslands with a process-based model: 1. Model evaluation from in situ measurements. Global Biogeochemical Cycles, 2007, 21, .	1.9	36
256	Effects of dry matter intake restriction on diet digestion, energy partitioning, phosphorus retention, and ruminal fermentation by beef steers. Journal of Animal Science, 2007, 85, 3383-3390.	0.2	12
257	Valor nutritivo do resÃduo da indÃºstria processadora de abacaxi (Ananas comosus L.) em dietas para ovinos. 1. Consumo, digestibilidade aparente e balanÃ§os energÃ©tico e nitrogenado. Arquivo Brasileiro De Medicina Veterinaria E Zootecnia, 2007, 59, 773-781.	0.1	20
258	Energy and protein requirements for maintenance and growth of Boer crossbred kids1. Journal of Animal Science, 2007, 85, 1014-1023.	0.2	50

#	Article	IF	Citations
259	Nutrient digestibility and energy value of sheep rations differing in protein level, main protein source and non-forage fibre source. Journal of Animal Physiology and Animal Nutrition, 2007, 92, 070619032309006-???.	1.0	17
260	Use of white clover as an alternative to nitrogen fertiliser for dairy pastures in nitrate vulnerable zones in the UK: productivity, environmental impact and economic considerations. Annals of Applied Biology, 2007, 151, 11-23.	1.3	70
261	Effects of stocking rate on methane and carbon dioxide emissions from grazing cattle. Agriculture, Ecosystems and Environment, 2007, 121, 30-46.	2.5	102
262	Distinctive archaebacterial species associated with anaerobic rumen protozoan Entodinium caudatum. Folia Microbiologica, 2008, 53, 259-262.	1.1	13
263	Towards a Full Accounting of the Greenhouse Gas Balance of European Grasslands. Ecological Studies, 2008, , 263-283.	0.4	2
264	Systems dynamics and the spatial distribution of methane emissions from African domestic ruminants to 2030. Agriculture, Ecosystems and Environment, 2008, 126, 122-137.	2.5	100
265	Greenhouse gas mitigation in agriculture. Philosophical Transactions of the Royal Society B: Biological Sciences, 2008, 363, 789-813.	1.8	1,739
267	Farm returns to carbon credit creation with intensive rotational grazing. Journal of Soils and Water Conservation, 2008, 63, 91-98.	0.8	11
268	Mathematical modelling in animal nutrition: a centenary review. Journal of Agricultural Science, 2008, 146, 123-142.	0.6	49
269	Nutritional management for enteric methane abatement: a review. Australian Journal of Experimental Agriculture, 2008, 48, 21.	1.0	797
270	The effect of level of intake and forage quality on methane production by sheep. Australian Journal of Experimental Agriculture, 2008, 48, 219.	1.0	50
271	Predicting the metabolizable energy intake of ruminants using digestibility, ruminal methane production and fermentation data. Journal of Agricultural Science, 2008, 146, 643-654.	0.6	2
272	Diet effects on methane production by goats and a comparison between measurement methodologies. Journal of Agricultural Science, 2008, 146, 705-715.	0.6	33
273	Measurement of methane emission from sheep by the sulphur hexafluoride tracer technique and by the calorimetric chamber: failure and success. Animal, 2008, 2, 141-148.	1.3	34
274	Within- and between-animal variance in methane emissions in non-lactating dairy cows. Australian Journal of Experimental Agriculture, 2008, 48, 124.	1.0	40
275	Persistence of defaunation effects on digestion and methane production in ewes. Australian Journal of Experimental Agriculture, 2008, 48, 152.	1.0	41
276	Absence of persistent methane emission differences in three breeds of dairy cows. Australian Journal of Experimental Agriculture, 2008, 48, 77.	1.0	40
277	Energy requirements of Texel crossbred lambs1. Journal of Animal Science, 2008, 86, 3480-3490.	0.2	40

#	Article	IF	Citations
278	Simulating Methane Emissions from Dairy Farms. , 2008, , .		1
279	Recent advances in modeling nutrient utilization in ruminants1. Journal of Animal Science, 2009, 87, E111-E122.	0.2	47
280	Modeling methane production from beef cattle using linear and nonlinear approaches1. Journal of Animal Science, 2009, 87, 1334-1345.	0.2	74
281	Simulation of Methane Emissions from Dairy Farms to Assess Greenhouse Gas Reduction Strategies. Transactions of the ASABE, 2009, 52, 1313-1323.	1.1	44
282	A simple method for the simultaneous determination of gas production and volatile fatty acid concentration in the rumen. Zeitschrift Fur Tierphysiologie, Tierernahrung Und Futtermittelkunde, 1970, 26, 100-105.	0.1	5
283	A study of different nitrogen supplements for lactating cows. Zeitschrift Fur Tierphysiologie, Tierernahrung Und Futtermittelkunde, 1983, 49, 98-104.	0.1	4
284	Energiebilanz und Energievenvertung laktierender KÃ¼he bei energetischer Unterversorgung und anschlieÃŸender Realimentation. Zeitschrift Fur Tierphysiologie, Tierernahrung Und Futtermittelkunde, 1983, 49, 228-238.	0.1	12
285	Enteric fermentation and ruminant eructation: the role (and control?) of methane in the climate change debate. Climatic Change, 2009, 93, 407-431.	1.7	68
286	Effects of intensification of pastoral farming on greenhouse gas emissions in New Zealand. New Zealand Veterinary Journal, 2009, 57, 252-261.	0.4	53
287	Whole crop cereals. Animal Feed Science and Technology, 2009, 149, 102-113.	1.1	7
288	Fires in Australiaâ€™s tropical savannas: Interactions with biodiversity, global warming, and exotic biota. , 2009, , 113-141.		6
289	Prediction of methane emission from beef cattle using data measured in indirect open-circuit respiration calorimeters. Animal, 2009, 3, 1455-1462.	1.3	86
290	Economics of reducing methane emissions from beef cattle in extensive grazing systems in Queensland. Rangeland Journal, 2010, 32, 197.	0.4	8
291	Can rumen methane production be predicted from volatile fatty acid concentrations?. Animal Production Science, 2010, 50, 630.	0.6	26
292	Determination of the proportion of the ingested gross energy lost as exhaled methane by dairy goats consuming contrasting concentrate ingredients in mixed rations. Canadian Journal of Animal Science, 2010, 90, 585-590.	0.7	5
293	Effect of Replacing Total Mixed Ration with Pasture on Ruminal Fermentation. The Professional Animal Scientist, 2010, 26, 435-442.	0.7	8
294	Factors affecting methane production and mitigation in ruminants. Animal Science Journal, 2010, 81, 2-10.	0.6	155
295	Studien Ã¼ber den Eruktationsmechanismus beim Schaf. Zentralblatt FÃ¼r VeterinÃrmedizin Reihe A, 2010, 22, 193-200.	0.0	2

#	Article	IF	Citations
296	Studien Ã¼ber den Eruktationsmechanismus beim Schaf. III. Die Zusammensetzung der eruktierten Pansengase bei unterschiedlicher Rationsgestaltung. Zentralblatt FÃ¼r VeterinÃrmedizin Reihe A, 2010, 22, 597-604.	0.0	0
297	Evaluation of enteric methane prediction equations for dairy cows used in whole farm models. Global Change Biology, 2010, 16, 3246-3256.	4.2	105
298	Alternatives for methane emission mitigation in livestock systems. Revista Brasileira De Zootecnia, 2010, 39, 175-182.	0.3	43
299	Dissecting the in Vivo Metabolic Potential of Two Human Gut Acetogens. Journal of Biological Chemistry, 2010, 285, 22082-22090.	1.6	332
300	Nutritional and flock management options to reduce methane output and methane per unit product from sheep enterprises. Animal Production Science, 2010, 50, 1026.	0.6	60
301	The effect of forage quality on predicted enteric methane production from dairy cows. International Journal of Agricultural Sustainability, 2010, 8, 250-256.	1.3	11
302	Mitigating climate change: the role of domestic livestock. Animal, 2010, 4, 323-333.	1.3	228
303	Options for the abatement of methane and nitrous oxide from ruminant production: A review. Livestock Science, 2010, 130, 47-56.	0.6	449
304	Influence of hydrogen on rumen methane formation and fermentation balances through microbial growth kinetics and fermentation thermodynamics. Animal Feed Science and Technology, 2010, 160, 1-22.	1.1	562
305	Effects of ensiling totally mixed potato hash ration with or without a heterofermentative bacterial inoculant on silage fermentation, aerobic stability, growth performance and digestibility in lambs. Animal Feed Science and Technology, 2010, 161, 38-48.	1.1	40
306	Mitigation of enteric methane emissions through improving efficiency of energy utilization and productivity in lactating dairy cows. Journal of Dairy Science, 2010, 93, 2630-2638.	1.4	145
307	Effect of pregrazing herbage mass on methane production, dry matter intake, and milk production of grazing dairy cows during the mid-season period. Journal of Dairy Science, 2010, 93, 4976-4985.	1.4	75
308	Greater Mitigation of Climate Change by Organic than Conventional Agriculture: A Review. Biological Agriculture and Horticulture, 2011, 27, 205-229.	0.5	36
309	Enteric methane emissions from dairy cows fed different proportions of highly digestible grass silage. Acta Agriculturae Scandinavica - Section A: Animal Science, 2011, 61, 128-136.	0.2	13
310	Integrating livestock production with crops and saline fish ponds to reduce greenhouse gas emissions. Journal of Integrative Environmental Sciences, 2011, 8, 39-52.	1.0	6
311	Ruminant enteric methane mitigation: a review. Animal Production Science, 2011, 51, 491.	0.6	244
312	Dependence of forage quality and methanogenic potential of tropical plants on their phenolic fractions as determined by principal component analysis. Animal Feed Science and Technology, 2011, 163, 231-243.	1.1	110
313	Analysis of archaeal ether lipids in bovine faeces. Animal Feed Science and Technology, 2011, 166-167, 87-92.	1.1	20

#	Article	IF	Citations
314	Validation of a short-term methane measurement using portable static chambers to estimate daily methane production in sheep. Animal Feed Science and Technology, 2011, 166-167, 219-226.	1.1	51
315	Lowering ruminant methane emissions through improved feed conversion efficiency. Animal Feed Science and Technology, 2011, 166-167, 291-301.	1.1	132
316	Effects of feeding fresh white clover (Trifolium repens) or perennial ryegrass (Lolium perenne) on enteric methane emissions from sheep. Animal Feed Science and Technology, 2011, 166-167, 398-404.	1.1	52
317	A comparative analysis of on-farm greenhouse gas emissions from agricultural enterprises in south eastern Australia. Animal Feed Science and Technology, 2011, 166-167, 641-652.	1.1	67
318	A whole farm systems analysis of greenhouse gas emissions of 60 Tasmanian dairy farms. Animal Feed Science and Technology, 2011, 166-167, 653-662.	1.1	30
319	Effects of genetic line and feeding system on methane emissions from dairy systems. Animal Feed Science and Technology, 2011, 166-167, 699-707.	1.1	24
320	Impacts of future climate scenarios on the balance between productivity and total greenhouse gas emissions from pasture based dairy systems in south-eastern Australia. Animal Feed Science and Technology, 2011, 166-167, 721-735.	1.1	20
321	Potential effects of animal management and genetic improvement on enteric methane emissions, emissions intensity and productivity of sheep enterprises at Cowra, Australia. Animal Feed Science and Technology, 2011, 166-167, 749-760.	1.1	44
322	Repeatability of methane emissions from sheep. Animal Feed Science and Technology, 2011, 166-167, 210-218.	1.1	62
323	Effects of a perennial ryegrass diet or total mixed ration diet offered to spring-calving Holstein-Friesian dairy cows on methane emissions, dry matter intake, and milk production. Journal of Dairy Science, 2011, 94, 1941-1951.	1.4	87
324	Intake and total apparent digestibility in lambs fed six maize varieties in the Brazilian Semiarid. Revista Brasileira De Zootecnia, 2011, 40, 2922-2928.	0.3	3
325	An evaluation of the methane output associated with high-moisture grains and silages using the in vitro total gas production technique. Animal Production Science, 2011, 51, 627.	0.6	6
326	Effects of dam breed and dietary source of n-3 polyunsaturated fatty acids on the growth and carcass characteristics of lambs sourced from hill sheep flocks. Animal, 2011, 5, 1023-1035.	1.3	12
327	Estimation of enteric methane emissions trends (1990â€“2008) from Manitoba beef cattle using empirical and mechanistic models. Canadian Journal of Animal Science, 2011, 91, 305-321.	0.7	16
328	Gaining from technology for improved dairy cow nutrition: Economic, environmental, and animal health benefits. The Professional Animal Scientist, 2011, 27, 505-517.	0.7	10
329	Methane emissions from sheep pasture, measured with an openâ€path eddy covariance system. Global Change Biology, 2011, 17, 3524-3533.	4.2	78
330	Positive plant microbial interactions in perennial ryegrass dairy pasture systems. Annals of Applied Biology, 2011, 159, 79-92.	1.3	20
331	Replacement of groundnut cake with sunflower and karanj seed cakes on performance, nutrient utilisation, immune response and carcass characteristics in Nellore lambs. Small Ruminant Research, 2011, 97, 12-20.	0.6	13

#	Article	IF	Citations
332	Measurement and prediction of enteric methane emission. International Journal of Biometeorology, 2011, 55, 1-16.	1.3	85
333	Improving the efficiency of energy utilisation in cattle. Animal Production Science, 2011, 51, 6.	0.6	65
334	The Benefits of Supplementary Fat in Feed Rations for Ruminants with Particular Focus on Reducing Levels of Methane Production. ISRN Veterinary Science, 2011, 2011, 1-10.	1.1	30
335	Historic, pre-European settlement, and present-day contribution of wild ruminants to enteric methane emissions in the United States. Journal of Animal Science, 2012, 90, 1371-1375.	0.2	29
336	Global Climate Change: Enteric Methane Reduction Strategies in Livestock. , 2012, , 469-499.		9
337	Development of non-linear models for predicting enteric methane production. Acta Agriculturae Scandinavica - Section A: Animal Science, 2012, 62, 254-258.	0.2	2
338	Methane. A review. Journal of Integrative Environmental Sciences, 2012, 9, 5-30.	1.0	40
339	The Influence of Climate, Soil and Pasture Type on Productivity and Greenhouse Gas Emissions Intensity of Modeled Beef Cow-Calf Grazing Systems in Southern Australia. Animals, 2012, 2, 540-558.	1.0	8
340	Whole-farm systems analysis of Australian dairy farm greenhouse gas emissions. Animal Production Science, 2012, 52, 998.	0.6	27
341	An initial investigation on rumen fermentation pattern and methane emission of sheep offered diets containing urea or nitrate as the nitrogen source. Animal Production Science, 2012, 52, 653.	0.6	56
342	Breeding for reduced methane emissions in extensive UK sheep systems. Journal of Agricultural Science, 2012, 150, 570-583.	0.6	9
343	Variation among individual dairy cows in methane measurements made on farm during milking. Journal of Dairy Science, 2012, 95, 3181-3189.	1.4	91
344	Effect of bromochloromethane on methane emission, rumen fermentation pattern, milk yield, and fatty acid profile in lactating dairy goats. Journal of Dairy Science, 2012, 95, 2027-2036.	1.4	99
345	Enteric methane emissions and lactational performance of Holstein cows fed different concentrations of coconut oil. Journal of Dairy Science, 2012, 95, 2602-2615.	1.4	23
346	Effect of roughage to concentrate ratio of sweet sorghum (Sorghum biclor L. Moench) bagasse-based complete diet on nutrient utilization and microbial N supply in lambs. Tropical Animal Health and Production, 2012, 44, 1717-1724.	0.5	11
347	Methods for Measuring and Estimating Methane Emission from Ruminants. Animals, 2012, 2, 160-183.	1.0	121
348	Effects of corn processing method and dietary inclusion of wet distillers grains with solubles on energy metabolism, carbonâ^'nitrogen balance, and methane emissions of cattle1,2. Journal of Animal Science, 2012, 90, 3174-3185.	0.2	66
349	Methane yields from Brahman cattle fed tropical grasses and legumes. Animal Production Science, 2012, 52, 225.	0.6	113

#	Article	IF	Citations
350	Sheep fed forage chicory (Cichorium intybus) or perennial ryegrass (Lolium perenne) have similar methane emissions. Animal Feed Science and Technology, 2012, 172, 217-225.	1.1	29
351	Development of an in vitro method for determination of methane production kinetics using a fully automated in vitro gas systemâ€"A modelling approach. Animal Feed Science and Technology, 2012, 174, 190-200.	1.1	47
352	Effect of Mixed Microbial Culture Treatment on the Nutritive Value of Coffee, Green Tea and Oolong Tea Residues and the Effect of the Fermented Residues on in Vitro Rumen Fermentation. APCBEE Procedia, 2012, 4, 66-72.	0.5	5
353	Energy requirements for maintenance and growth of Dorper crossbred ram lambs. Livestock Science, 2012, 150, 102-110.	0.6	39
354	Effects of plants and essential oils on ruminal in vitro batch culture methane production and fermentation. Canadian Journal of Animal Science, 2012, 92, 395-408.	0.7	18
355	Environmental Stress and Amelioration in Livestock Production. , 2012, , .		30
356	Reducing Enteric Methane Losses from Ruminant Livestock â€" Its Measurement, Prediction and the Influence of Diet. , 0, , .		5
357	Tamanho de partÃcula do volumoso e freqÃ¼Ãªncia de alimentaÃ§Ã£o sobre o metabolismo energÃ©tico e protÃ©ico em ovinos, considerando dietas com elevada participaÃ§Ã£o de concentrado. Revista Brasileira De Saude E Producao Animal, 2012, 13, 732-744.	0.3	11
358	The effect of future climate scenarios on the balance between productivity and greenhouse gas emissions from sheep grazing systems. Livestock Science, 2012, 147, 126-138.	0.6	29
359	Effects of feed intake on enteric methane emissions from sheep fed fresh white clover (Trifolium) Tj ETQq1 1 0.784314 rgBT /Overlock 179, 121-132.	1.1	68
360	Accuracy of micrometeorological techniques for detecting a change in methane emissions from a herd of cattle. Agricultural and Forest Meteorology, 2013, 176, 50-63.	1.9	46
361	Effect of dried distillersâ€™ grains with solubles on enteric methane emissions and nitrogen excretion from finishing beef cattle. Canadian Journal of Animal Science, 2013, 93, 373-385.	0.7	29
362	Methane emissions, body composition, and rumen fermentation traits of beef heifers differing in residual feed intake1. Journal of Animal Science, 2013, 91, 5789-5800.	0.2	115
363	Feasibility of converting agrosilvopastoral systems of dairy cattle to the organic production model in southeastern Mexico. Journal of Cleaner Production, 2013, 43, 136-145.	4.6	23
364	Assessment of archaeol as a molecular proxy for methane production in cattle. Journal of Dairy Science, 2013, 96, 1211-1217.	1.4	28
365	Regional analysis of greenhouse gas emissions from USA dairy farms: A cradle to farm-gate assessment of the American dairy industry circa 2008. International Dairy Journal, 2013, 31, S29-S40.	1.5	76
366	Application of a nonlinear optimization tool to balance diets with constant metabolizability. Livestock Science, 2013, 158, 106-117.	0.6	15
367	Response profiles of enteric methane emissions and lactational performance during habituation to dietary coconut oil in dairy cows. Journal of Dairy Science, 2013, 96, 1769-1781.	1.4	7

#	Article	IF	Citations
368	Development of equations for predicting methane emissions from ruminants. Journal of Dairy Science, 2013, 96, 2476-2493.	1.4	211
369	A new method for estimating greenhouse gases and ammonia emissions from livestock buildings. Atmospheric Environment, 2013, 74, 10-17.	1.9	20
370	Representation of a mathematical model to predict methane output in dairy goats. Computers and Electronics in Agriculture, 2013, 91, 1-9.	3.7	4
371	SPECIAL TOPICS â€" Mitigation of methane and nitrous oxide emissions from animal operations: I. A review of enteric methane mitigation options1. Journal of Animal Science, 2013, 91, 5045-5069.	0.2	638
372	Biomass use, production, feed efficiencies, and greenhouse gas emissions from global livestock systems. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20888-20893.	3.3	867
373	Direct methane and nitrous oxide emissions of South African dairy and beef cattle. South African Journal of Animal Sciences, 2013, 43, 320.	0.2	39
374	Enteric methane production from beef cattle that vary in feed efficiency123. Journal of Animal Science, 2013, 91, 4826-4831.	0.2	33
376	Nutritional and host effects on methanogenesis in the grazing ruminant. Animal, 2013, 7, 41-48.	1.3	29
377	Applicability of short-term emission measurements for on-farm quantification of enteric methane. Animal, 2013, 7, 401-408.	1.3	58
378	Reducing GHG emissions through genetic improvement for feed efficiency: effects on economically important traits and enteric methane production. Animal, 2013, 7, 303-315.	1.3	143
379	Greenhouse gas emissions profile for 1 kg of wool produced in the Yass Region, New South Wales: A Life Cycle Assessment approach. Animal Production Science, 2013, 53, 495.	0.6	36
380	Protein metabolism, feed energy partitioning, behavior patterns and plasma cortisol in Nellore steers with high and low residual feed intake. Revista Brasileira De Zootecnia, 2013, 42, 44-50.	0.3	25
381	Enteric methane emission, diet digestibility, and nitrogen excretion from beef heifers fed sainfoin or alfalfa1. Journal of Animal Science, 2013, 91, 4861-4874.	0.2	36
382	Measures of methane production and their phenotypic relationships with dry matter intake, growth, and body composition traits in beef cattle1,2. Journal of Animal Science, 2014, 92, 5267-5274.	0.2	64
383	Feed intake of sheep when allowed ad libitum access to feed in methane respiration chambers. Journal of Animal Science, 2014, 92, 2259-2264.	0.2	21
384	Modeling methane emissions and methane inventories for cattle production systems in Mexico. Atmosfera, 2014, 27, 185-191.	0.3	17
385	The evolution and evaluation of dairy cattle models for predicting milk production: an agricultural model intercomparison and improvement project (AgMIP) for livestock. Animal Production Science, 2014, 54, 2052.	0.6	25
386	Low-methane yield sheep have smaller rumens and shorter rumen retention time. British Journal of Nutrition, 2014, 111, 578-585.	1.2	188

#	Article	IF	Citations
387	Variation in enteric methane emissions among cows on commercial dairy farms. Animal, 2014, 8, 1540-1546.	1.3	41
388	The challenges â€“ and some solutions â€“ to process-based modelling of grazed agricultural systems. Environmental Modelling and Software, 2014, 62, 420-436.	1.9	70
389	Invited review: Enteric methane in dairy cattle production: Quantifying the opportunities and impact of reducing emissions. Journal of Dairy Science, 2014, 97, 3231-3261.	1.4	627
390	Energy requirements for maintenance and growth of CanindÃ© goat kids. Small Ruminant Research, 2014, 121, 255-261.	0.6	9
391	Increasing ewe genetic fecundity improves whole-farm production and reduces greenhouse gas emissions intensities. Agricultural Systems, 2014, 131, 23-33.	3.2	40
392	Effect of Propionibacterium spp. on ruminal fermentation, nutrient digestibility, and methane emissions in beef heifers fed a high-forage diet1. Journal of Animal Science, 2014, 92, 2192-2201.	0.2	27
393	Prediction of enteric methane emission from buffaloes using statistical models. Agriculture, Ecosystems and Environment, 2014, 195, 139-148.	2.5	14
394	The use of artificial neural network for modeling in vitro rumen methane production using the CNCPS carbohydrate fractions as dietary variables. Livestock Science, 2014, 162, 159-167.	0.6	15
395	Climate change and broadacre livestock production across southern Australia. 3. Adaptation options via livestock genetic improvement. Animal Production Science, 2014, 54, 111.	0.6	24
396	The effects of fresh forages and feed intake level on digesta kinetics and enteric methane emissions from sheep. Animal Feed Science and Technology, 2014, 193, 32-43.	1.1	52
397	Evaluation of the SF6 tracer technique for estimating methane emission rates with reference to dairy cows using a mechanistic model. Journal of Theoretical Biology, 2014, 353, 1-8.	0.8	7
398	Estimation of methane emission using the CO2 method from dairy cows fed concentrate with different carbohydrate compositions in automatic milking system. Livestock Science, 2014, 164, 57-66.	0.6	29
399	Modelling methane emissions from remotely collected liveweight data and faecal near-infrared spectroscopy in beef cattle. Animal Production Science, 2014, 54, 1980.	0.6	9
400	The challenges and opportunities when integrating animal models into grazing system models for evaluating productivity and environmental impact. Animal Production Science, 2014, 54, 1896.	0.6	6
401	Modelling pasture management and livestock genotype interventions to improve whole-farm productivity and reduce greenhouse gas emissions intensities. Animal Production Science, 2014, 54, 2018.	0.6	43
402	Methane emissions from beef cattle grazing on semi-natural upland and improved lowland grasslands. Animal, 2015, 9, 130-137.	1.3	23
403	Estimating daily methane production in individual cattle with irregular feed intake patterns from short-term methane emission measurements. Animal, 2015, 9, 1949-1957.	1.3	36
404	Individual variation and repeatability of methane production from dairy cows estimated by the CO2 method in automatic milking system. Animal, 2015, 9, 1567-1576.	1.3	8

#	Article	IF	Citations
405	Energy requirements for growth in male and female Saanen goats1. Journal of Animal Science, 2015, 93, 3932-3940.	0.2	19
406	Modeling Greenhouse Gas Emissions from Enteric Fermentation. Advances in Agricultural Systems Modeling, 2015, , 173-195.	0.3	4
407	Animal Gut Microbiomes. , 0, , 4.4.3-1-4.4.3-7.		0
408	Illumina MiSeq Phylogenetic Amplicon Sequencing Shows a Large Reduction of an Uncharacterised Succinivibrionaceae and an Increase of the Methanobrevibacter gottschalkii Clade in Feed Restricted Cattle. PLoS ONE, 2015, 10, e0133234.	1.1	86
409	Comparison of repeated measurements of methane production in sheep over 5 years and a range of measurement protocols1. Journal of Animal Science, 2015, 93, 4637-4650.	0.2	27
410	Effect of Age on Energy Requirement for Maintenance and Growth of Dorper and Hu Crossbred F1 Ewes Weighing 20 to 50 kg. Asian-Australasian Journal of Animal Sciences, 2015, 28, 1140-1149.	2.4	5
411	Relationship between residual feed intake and enteric methane emission in Nellore cattle. Revista Brasileira De Zootecnia, 2015, 44, 255-262.	0.3	27
412	Modeling the trade-off between diet costs and methane emissions: A goal programming approach. Journal of Dairy Science, 2015, 98, 5557-5571.	1.4	25
413	Methane emissions from sheep fed fresh pasture. New Zealand Journal of Agricultural Research, 2015, 58, 472-489.	0.9	21
414	Systemic adaptations to climate change in southern Australian grasslands and livestock: Production, profitability, methane emission and ecosystem function. Agricultural Systems, 2015, 133, 158-166.	3.2	50
415	Resource use and greenhouse gas intensity of Australian beef production: 1981â€“2010. Agricultural Systems, 2015, 133, 109-118.	3.2	50
416	Association of wool growth with gut metabolism and anatomy in sheep. Livestock Science, 2015, 173, 38-47.	0.6	8
417	Overview on Adaptation, Mitigation and Amelioration Strategies to Improve Livestock Production Under the Changing Climatic Scenario. , 2015, , 359-397.		17
418	Associative effects of ensiling mixtures of sweet sorghum and alfalfa on nutritive value, fermentation and methane characteristics. Animal Feed Science and Technology, 2015, 206, 29-38.	1.1	45
419	Prediction of the Ym factor for livestock from on-farm accessible data. Livestock Science, 2015, 177, 52-62.	0.6	15
420	Nordic dairy cow model Karoline in predicting methane emissions: 2. Model evaluation. Livestock Science, 2015, 178, 81-93.	0.6	16
421	Nordic dairy cow model Karoline in predicting methane emissions: 1. Model description and sensitivity analysis. Livestock Science, 2015, 178, 71-80.	0.6	27
422	Short communication: Use of a portable, automated, open-circuit gas quantification system and the sulfur hexafluoride tracer technique for measuring enteric methane emissions in Holstein cows fed ad libitum or restricted. Journal of Dairy Science, 2015, 98, 2676-2681.	1.4	31

#	Article	IF	Citations
423	Comparison of methods to determine methane emissions from dairy cows in farm conditions. Journal of Dairy Science, 2015, 98, 3394-3409.	1.4	133
424	Determination of energy and protein requirement for maintenance and growth and evaluation for the effects of gender upon nutrient requirement in Dorper Ã— Hu Crossbred Lambs. Tropical Animal Health and Production, 2015, 47, 841-853.	0.5	16
425	Comparison of rumen fluid inoculum vs. faecal inoculum on predicted methane production using a fully automated in vitro gas production system. Livestock Science, 2015, 181, 65-71.	0.6	9
426	Decreasing methane yield with increasing food intake keeps daily methane emissions constant in two foregut fermenting marsupials, the western grey kangaroo and red kangaroo. Journal of Experimental Biology, 2015, 218, 3425-3434.	0.8	15
427	Integrating spot short-term measurements of carbon emissions and backward dietary energy partition calculations to estimate intake in lactating dairy cows fed ad libitum or restricted. Journal of Dairy Science, 2015, 98, 8913-8925.	1.4	7
428	Protein and energy requirements of castrated male Saanen goats. Small Ruminant Research, 2015, 123, 88-94.	0.6	16
429	Can animal genetics and flock management be used to reduce greenhouse gas emissions but also maintain productivity of wool-producing enterprises?. Agricultural Systems, 2015, 132, 25-34.	3.2	47
430	Effects of feeding level on methane emissions and energy utilization of Brahman cattle in the tropics. Agriculture, Ecosystems and Environment, 2015, 199, 225-230.	2.5	55
431	Synthesis and Modeling of Greenhouse Gas Emissions and Carbon Storage in Agricultural and Forest Systems to Guide Mitigation and Adaptation. Advances in Agricultural Systems Modeling, 2016, , .	0.3	2
432	Effect of Seasons on Enteric Methane Emissions from Cattle Grazing Urochloa brizantha. Journal of Agricultural Science, 2016, 8, 106.	0.1	6
433	Estimation of metabolic heat production and methane emission in Sahiwal and Karan Fries heifers under different feeding regimes. Veterinary World, 2016, 9, 496-500.	0.7	4
434	Prediction of enteric methane emissions from sheep offered fresh perennial ryegrass (Lolium perenne) using data measured in indirect open-circuit respiration chambers1. Journal of Animal Science, 2016, 94, 2425-2435.	0.2	25
435	Modelling the Effect of Diet Composition on Enteric Methane Emissions across Sheep, Beef Cattle and Dairy Cows. Animals, 2016, 6, 54.	1.0	31
436	Effects of ruminal digesta retention time on methane emissions: a modelling approach. Animal Production Science, 2016, 56, 501.	0.6	49
437	Effect of dietary net energy concentration on dry matter intake and energy partition in cows in midâ€lactation under heat stress. Animal Science Journal, 2016, 87, 1352-1362.	0.6	5
438	Effect of fresh pasture forage quality, feeding level and supplementation on methane emissions from growing beef cattle. Animal Production Science, 2016, 56, 1714.	0.6	25
439	Associations among methane emission traits measured in the feedlot and in respiration chambers in Angus cattle bred to vary in feed efficiency1. Journal of Animal Science, 2016, 94, 4882-4891.	0.2	21
440	Proxies to adjust methane production rate of beef cattle when the quantity of feed consumed is unknown. Animal Production Science, 2016, 56, 231.	0.6	11

#	Article	IF	Citations
441	Repeatability of methane emission measurements in Australian beef cattle. Animal Production Science, 2016, 56, 213.	0.6	19
442	Predicting enteric methane emission in sheep using linear and non-linear statistical models from dietary variables. Animal Production Science, 2016, 56, 574.	0.6	25
443	Estimates of repeatability and heritability of methane production in sheep using portable accumulation chambers. Animal Production Science, 2016, 56, 116.	0.6	48
444	Development of methane conversion factor models for Zebu beef cattle fed lowâ€quality crop residues and byâ€products in tropical regions. Ecology and Evolution, 2016, 6, 7422-7432.	0.8	26
445	Temporal and spatial variation of methane concentrations around lying cubicles in dairy barns. Biosystems Engineering, 2016, 151, 464-478.	1.9	8
446	Genomic heritabilities and genomic estimated breeding values for methane traits in Angus cattle1. Journal of Animal Science, 2016, 94, 902-908.	0.2	43
447	A universal equation to predict methane production of forage-fed cattle in Australia. Animal Production Science, 2016, 56, 169.	0.6	193
448	Technical note: A facility for respiration measurements in cattle. Journal of Dairy Science, 2016, 99, 4899-4906.	1.4	30
449	The GreenFeed system for measurement of enteric methane emission from cattle. Animal Production Science, 2016, 56, 181.	0.6	41
450	Methods for Measuring Greenhouse Gas Balances and Evaluating Mitigation Options in Smallholder Agriculture. , 2016, , .		14
451	Digestive physiology, metabolism and methane production ofÂcaptive LinnÃ©'s twoâ€toed sloths (<scp>C</scp>holoepus didactylus). Journal of Animal Physiology and Animal Nutrition, 2016, 100, 552-564.	1.0	24
452	Methane emissions from sheep grazing pearl millet (Penissetum americanum (L.) Leeke) swards fertilized with increasing nitrogen levels. Small Ruminant Research, 2016, 141, 118-123.	0.6	13
453	Genetic and phenotypic variance and covariance components for methane emission and postweaning traits in Angus cattle12. Journal of Animal Science, 2016, 94, 1438-1445.	0.2	65
454	Effect of divergence in phenotypic residual feed intake on methane emissions, ruminal fermentation, and apparent whole-tract digestibility of beef heifers across three contrasting diets1. Journal of Animal Science, 2016, 94, 1179-1193.	0.2	53
455	Growth performance and rumen microorganism differ between segregated weaning lambs and grazing lambs. Journal of Integrative Agriculture, 2016, 15, 872-878.	1.7	5
456	Enteric methane emissions and nitrogen utilisation efficiency for two genotype of hill hoggets offered fresh, ensiled and pelleted ryegrass. Livestock Science, 2016, 188, 1-8.	0.6	16
457	Agricultural greenhouse gas emission reporting: the implications for farm management. Agroecology and Sustainable Food Systems, 2016, 40, 261-276.	1.0	6
458	Chemical composition and in vitro fermentation characteristics of high sugar forage sorghum as an alternative to forage maize for silage making in Tarim Basin, China. Journal of Integrative Agriculture, 2016, 15, 175-182.	1.7	30

#	Article	IF	Citations
459	Effect of Leucaena leucocephala on methane production of Lucerna heifers fed a diet based on Cynodon plectostachyus. Livestock Science, 2016, 185, 24-29.	0.6	25
460	Equations to predict methane emissions from cows fed at maintenance energy level in pasture-based systems. Agriculture, Ecosystems and Environment, 2016, 220, 8-20.	2.5	21
461	An evaluation of the face mask system based on short-term measurements compared with the sulfur hexafluoride (SF 6) tracer, and respiration chamber techniques for measuring CH 4 emissions. Animal Feed Science and Technology, 2016, 216, 49-57.	1.1	18
462	Possibilities for converting conventional cattle production to the organic model in the Grijalva River Basin, Mexico. Cogent Food and Agriculture, 2016, 2, .	0.6	3
463	Reducing the carbon footprint of Australian milk production by mitigation of enteric methane emissions. Animal Production Science, 2016, 56, 1017.	0.6	42
464	Development of statistical models for prediction of enteric methane emission from goats using nutrient composition and intake variables. Agriculture, Ecosystems and Environment, 2016, 215, 89-99.	2.5	30
465	Correlations of methane and carbon dioxide concentrations from feedlot cattle as a predictor of methane emissions. Animal Production Science, 2016, 56, 108.	0.6	7
466	Intake, apparent digestibility, and methane emission in bulls receiving a feed supplement of monensin, virginiamycin, or a combination. Animal Production Science, 2016, 56, 1041.	0.6	14
467	Prediction of enteric methane emission from cattle using linear and non-linear statistical models in tropical production systems. Mitigation and Adaptation Strategies for Global Change, 2017, 22, 629-650.	1.0	30
468	Daily methane emissions and emission intensity of grazing beef cattle genetically divergent for residual feed intake. Animal Production Science, 2017, 57, 627.	0.6	20
469	Scaling methane emissions in ruminants and global estimates in wild populations. Science of the Total Environment, 2017, 579, 1572-1580.	3.9	36
470	Optimising natural 13C marker based pasture intake estimates for cattle using a genetic algorithm approach. Livestock Science, 2017, 197, 53-60.	0.6	2
471	Effects of organic acid salts on ruminal biogas production and fermentation kinetics of total mixed rations with different maize silage to concentrate ratios. Journal of Cleaner Production, 2017, 147, 523-530.	4.6	18
472	Invited review: Large-scale indirect measurements for enteric methane emissions in dairy cattle: A review of proxies and their potential for use in management and breeding decisions. Journal of Dairy Science, 2017, 100, 2433-2453.	1.4	115
473	Effects of replacement of late-harvested grass silage and barley with early-harvested silage on milk production and methane emissions. Journal of Dairy Science, 2017, 100, 5228-5240.	1.4	9
474	Sex effects on net protein and energy requirements for growth of Saanen goats. Journal of Dairy Science, 2017, 100, 4574-4586.	1.4	18
475	Between-cow variation in digestion and rumen fermentation variables associated with methane production. Journal of Dairy Science, 2017, 100, 4409-4424.	1.4	49
476	An evaluation of the accuracy and precision of methane prediction equations for beef cattle fed high-forage and high-grain diets. Animal, 2017, 11, 68-77.	1.3	16

#	Article	IF	Citations
477	Effect of different forage types and concentrate levels on energy conversion, enteric methane production, and animal performance of Holstein Ã— Zebu heifers. Animal Production Science, 2017, 57, 2042.	0.6	6
478	Evaluation of a gas in vitro system for predicting methane production in vivo. Journal of Dairy Science, 2017, 100, 8881-8894.	1.4	37
479	Energy and protein requirements of weaned male and female Saanen goats. Journal of Animal Physiology and Animal Nutrition, 2017, 101, 1014-1025.	1.0	6
480	Climate Change and Goat Agriculture Interactions in the Mediterranean Region. , 2017, , 393-405.		1
481	Phenotypic relationships among methane production traits assessed under ad libitum feeding of beef cattle1,2. Journal of Animal Science, 2017, 95, 4391-4398.	0.2	21
482	Methane Emissions from Grazing Holstein-Friesian Heifers at Different Ages Estimated Using the Sulfur Hexafluoride Tracer Technique. Engineering, 2017, 3, 753-759.	3.2	8
483	Body composition, protein and energy efficiencies, and requirements for growth of F1 Boer Ã— Saanen goat kids1. Journal of Animal Science, 2017, 95, 2121-2132.	0.2	4
484	Hourly methane production in finishing steers fed at different levels of dry matter intake1. Journal of Animal Science, 2017, 95, 2089-2096.	0.2	6
485	Effects of grass silage quality and level of feed intake on enteric methane production in lactating dairy cows1. Journal of Animal Science, 2017, 95, 3687-3699.	0.2	25
486	Optimizing test procedures for estimating daily methane and carbon dioxide emissions in cattle using short-term breath measures1,2. Journal of Animal Science, 2017, 95, 645-656.	0.2	22
487	Energy and protein requirements for maintenance of dairy goats during pregnancy and their efficiencies of use1. Journal of Animal Science, 2017, 95, 4181-4193.	0.2	4
488	More feed efficient sheep produce less methane and carbon dioxide when eating high-quality pellets. Journal of Animal Science, 2017, 95, 3839-3850.	0.2	35
489	Rapid Communication: Ranking dairy cows for methane emissions measured using respiration chamber or GreenFeed techniques during early, peak, and late lactation1. Journal of Animal Science, 2017, 95, 3154-3159.	0.2	9
490	<b>The role of small ruminants on global climate change. Acta Scientiarum - Animal Sciences, 2017, 40, 43124.	0.3	10
491	Symposium review: Uncertainties in enteric methane inventories, measurement techniques, and prediction models. Journal of Dairy Science, 2018, 101, 6655-6674.	1.4	103
492	Determination of methane yield in cattle fed tropical grasses as measured in open-circuit respiration chambers. Agricultural and Forest Meteorology, 2018, 258, 3-7.	1.9	22
493	Effect of measurement duration in respiration chambers on methane traits of beef cattle. Animal Production Science, 2018, 58, 1006.	0.6	5
494	The advantages of goats for future adaptation to Climate Change: A conceptual overview. Small Ruminant Research, 2018, 163, 34-38.	0.6	57

#	Article	IF	Citations
495	Methane emissions differ between sheep offered a conventional diploid, a high-sugar diploid or a tetraploid perennial ryegrass cultivar at two allowances at three times of the year. Animal Production Science, 2018, 58, 1043.	0.6	16
496	A methodology framework for weighting genetic traits that impact greenhouse gas emission intensities in selection indexes. Animal, 2018, 12, 5-11.	1.3	18
497	Updated predictions of enteric methane emissions from sheep suitable for use in the New Zealand national greenhouse gas inventory. Animal Production Science, 2018, 58, 973.	0.6	26
498	Uncertainty assessment of the breath methane concentration method to determine methane production of dairy cows. Journal of Dairy Science, 2018, 101, 1554-1564.	1.4	24
499	Development and evaluation of prediction equations for methane emission from Nellore cattle Dry		

#	Article	IF	Citations
513	Ruminal methane emissions, metabolic, and microbial profile of Holstein steers fed forage and concentrate, separately or as a total mixed ration. PLoS ONE, 2018, 13, e0202446.	1.1	28
514	Across-Experiment Transcriptomics of Sheep Rumen Identifies Expression of Lipid/Oxo-Acid Metabolism and Muscle Cell Junction Genes Associated With Variation in Methane-Related Phenotypes. Frontiers in Genetics, 2018, 9, 330.	1.1	13
515	Aspects of digestive function in sheep related to phenotypic variation in methane emissions. Animal Production Science, 2019, 59, 55.	0.6	32
516	Variation in methane production over time and physiological state in sheep. Animal Production Science, 2019, 59, 441.	0.6	11
517	The potential impact of breeding strategies to reduce methane output from beef cattle. Animal Production Science, 2019, 59, 1598.	0.6	9
518	Relationships between digestible energy and metabolizable energy in current feedlot diets1. Translational Animal Science, 2019, 3, 945-952.	0.4	22
519	Methane emissions, feed intake, and total tract digestibility in lambs fed diets differing in fat content and fibre digestibility. Canadian Journal of Animal Science, 2019, 99, 858-866.	0.7	7
520	Methane production and nitrogen balance of dairy heifers grazing palisade grass cv. Marandu alone or with forage peanut. Journal of Animal Science, 2019, 97, 4625-4634.	0.2	26
521	Comparison of Methods to Measure Methane for Use in Genetic Evaluation of Dairy Cattle. Animals, 2019, 9, 837.	1.0	60
522	Creating a low enteric methane emission ruminant: what is the evidence of success to the present and prospects for developing economies?. Animal Production Science, 2019, 59, 1769.	0.6	15
523	Effects of feeding unprocessed oilseeds on methane emission, nitrogen utilization efficiency and milk fatty acid profile of lactating dairy cows. Animal Feed Science and Technology, 2019, 249, 18-30.	1.1	17
524	Enteric methane emission can be reliably measured by the GreenFeed monitoring unit. Livestock Science, 2019, 222, 31-40.	0.6	25
525	Evaluation of the performance of existing mathematical models predicting enteric methane emissions from ruminants: Animal categories and dietary mitigation strategies. Animal Feed Science and Technology, 2019, 255, 114207.	1.1	21
526	An Open-Circuit Indirect Calorimetry Head Hood System for Measuring Methane Emission and Energy Metabolism in Small Ruminants. Animals, 2019, 9, 380.	1.0	9
527	Associations between residual feed intake and apparent nutrient digestibility, in vitro methane-producing activity, and volatile fatty acid concentrations in growing beef cattle1. Journal of Animal Science, 2019, 97, 3550-3561.	0.2	24
528	Are dietary strategies to mitigate enteric methane emission equally effective across dairy cattle, beef cattle, and sheep?. Journal of Dairy Science, 2019, 102, 6109-6130.	1.4	61
529	Methods and consequences of including reduction in greenhouse gas emission in beef cattle multiple-trait selection. Genetics Selection Evolution, 2019, 51, 18.	1.2	44
530	Applying the California net energy system to growing goats1. Translational Animal Science, 2019, 3, 999-1010.	0.4	1

#	Article	IF	Citations
531	Energy and protein requirements for maintenance of Texel lambs. Animal, 2019, 13, 1865-1873.	1.3	4
532	Genetic variation in residual feed intake is associated with body composition, behavior, rumen, heat production, hematology, and immune competence traits in Angus cattle1. Journal of Animal Science, 2019, 97, 2202-2219.	0.2	21
533	Climate Change and Animal Farming. The Anthropocene: Politik - Economics - Society - Science, 2019, , 223-242.	0.2	1
534	Energy partition and nitrogen utilization by male goats fed encapsulated calcium nitrate as a replacement for soybean meal. Animal Feed Science and Technology, 2019, 248, 67-76.	1.1	5
535	Contextualized re-calculation of enteric methane emission factors for small ruminants in sub-humid Western Africa is far lower than previous estimates. Tropical Animal Health and Production, 2019, 51, 919-928.	0.5	10
536	Greenhouse Gas Emissions. Energy, Environment, and Sustainability, 2019, , .	0.6	11
537	Measuring Enteric Methane Emissions from Individual Ruminant Animals in Their Natural Environment. Energy, Environment, and Sustainability, 2019, , 111-126.	0.6	2
538	Use of indirect calorimetry to evaluate utilization of energy in lactating Jersey dairy cattle consuming common coproducts. Journal of Dairy Science, 2019, 102, 320-333.	1.4	9
539	Can Silvoarable Systems Maintain Yield, Resilience, and Diversity in the Face of Changing Environments?. , 2019, , 145-168.		10
540	Standing on giant shoulders: a personal recollection of the lives and achievements of eminent animal scientists 1965â€“2015. Animal Production Science, 2019, 59, 1.	0.6	4
541	Metabolisable energy of grass and red clover silages fed to sheep at maintenance level. Animal, 2020, 14, 753-762.	1.3	3
542	Methane emission, nutrient utilization, microbial protein synthesis and growth performance in finisher lambs fed complete feed blocks containing phytochemical-rich forages of semi-arid region. Carbon Management, 2020, 11, 97-107.	1.2	6
543	Energy requirements and efficiency of energy utilization in growing dairy goats of different sexes. Journal of Dairy Science, 2020, 103, 272-281.	1.4	8
544	Effect of altering ruminal pH by dietary buffer supplementation on methane emissions from sheep fed forage rape. Animal, 2020, 14, 952-962.	1.3	9
545	Modelling effects of carcass weight, dietary concentrate and protein levels on the CH4 emission, N and P excretion of dairy bulls. Livestock Science, 2020, 232, 103896.	0.6	6
546	Effects of different barley and oat varieties on methane production, digestibility, and fermentation pattern in vitro. Journal of Dairy Science, 2020, 103, 1404-1415.	1.4	10
547	Babassu mesocarp meal for ewe lambs feeding: In vitro ruminal fermentation and in vivo apparent digestibility. Acta Scientiarum - Animal Sciences, 2020, 43, e51056.	0.3	0
548	Between-cow variation in the components of feed efficiency. Journal of Dairy Science, 2020, 103, 7968-7982.	1.4	24

#	Article	IF	Citations
549	Body weight and sex effects on digesta mean retention time in growing Saanen goats. Translational Animal Science, 2020, 4, 883-900.	0.4	4
550	Nutritional Quality, Voluntary Intake and Enteric Methane Emissions of Diets Based on Novel Cayman Grass and Its Associations With Two Leucaena Shrub Legumes. Frontiers in Veterinary Science, 2020, 7, 579189.	0.9	26
551	Comparative Study of Intake, Apparent Digestibility and Energy and Nitrogen Uses in Sahelian and Majorera Dairy Goats Fed Hay of Vigna unguiculata. Animals, 2020, 10, 861.	1.0	2
552	Estimation of enteric methane emission factors for Ndama cattle in the Sudanian zone of Senegal. Tropical Animal Health and Production, 2020, 52, 2883-2895.	0.5	7
553	A Review of Enteric Methane Emission Measurement Techniques in Ruminants. Animals, 2020, 10, 1004.	1.0	18
554	Development of a dynamic energy-partitioning model for enteric methane emissions and milk production in goats using energy balance data from indirect calorimetry studies. Animal, 2020, 14, s382-s395.	1.3	1
555	The effects of energy metabolism variables on feed efficiency in respiration chamber studies with lactating dairy cows. Journal of Dairy Science, 2020, 103, 7983-7997.	1.4	13
556	Determination of energy and protein requirements for maintenance and lactation of Dorper Ã— Hu crossbred sheep. Small Ruminant Research, 2020, 190, 106162.	0.6	0
557	Severe below-maintenance feed intake increases methane yield from enteric fermentation in cattle. British Journal of Nutrition, 2020, 123, 1239-1246.	1.2	35
558	Methane Emissions, Performance and Carcass Characteristics of Different Lines of Beef Steers Reared on Pasture and Finished in Feedlot. Animals, 2020, 10, 303.	1.0	6
559	Sheep Methane Emission on Semiarid Native Pastureâ€"Potential Impacts of Either Zinc Sulfate or Propylene Glycol as Mitigation Strategies. Animals, 2020, 10, 395.	1.0	4
560	Testing the near-field Gaussian plume inversion flux quantification technique using unmanned aerial vehicle sampling. Atmospheric Measurement Techniques, 2020, 13, 1467-1484.	1.2	26
561	Methane emission from Male Kacang Goat fed with different concentrate composition. IOP Conference Series: Earth and Environmental Science, 2020, 423, 012063.	0.2	0
562	Unmanned aerial vehicle observations of cold venting from exploratory hydraulic fracturing in the United Kingdom. Environmental Research Communications, 2020, 2, 021003.	0.9	14
563	Effects of diet type on nutrient utilization and energy balance in drylot heifers1. Journal of Animal Science, 2020, 98, .	0.2	2
564	Syntrophy via Interspecies H ₂ Transfer between Christensenella and Methanobrevibacter Underlies Their Global Cooccurrence in the Human Gut. MBio, 2020, 11, .	1.8	73
565	Methane emission factors for beef cows in Argentina: effect of diet quality. New Zealand Journal of Agricultural Research, 2021, 64, 260-268.	0.9	6
566	Animal, feed and rumen fermentation attributes associated with methane emissions from sheep fed brassica crops. Journal of Animal Physiology and Animal Nutrition, 2021, 105, 210-218.	1.0	6

#	Article	IF	Citations
567	Enteric methane production in adult sheep of the SegureÃ±a breed fed diets containing alkali-treated olive cake. Small Ruminant Research, 2021, 194, 106295.	0.6	2
568	Grazing beef cows identified as efficient using a nutrition model partition more energy to lactation. Animal Production Science, 2021, 62, 40-54.	0.6	1
569	Methane Production in Ruminant Animals. , 2021, , 177-211.		0
570	Effect of pasture management on enteric methane emissions from goats. Tropical Animal Health and Production, 2021, 53, 94.	0.5	5
571	Effects of Feeding Level and Breed Composition on Intake, Digestibility, and Methane Emissions of Dairy Heifers. Animals, 2021, 11, 586.	1.0	9
572	Red seaweed (Asparagopsis taxiformis) supplementation reduces enteric methane by over 80 percent in beef steers. PLoS ONE, 2021, 16, e0247820.	1.1	177
574	Feed intake, digestibility, and energy contents in growing bull fed pineapple crop waste silage in different planes of nutrition. Tropical Animal Health and Production, 2021, 53, 188.	0.5	6
575	Effects of grain-based concentrate feeding and rumination frequency on the milk production, methane and carbon dioxide fluxes, and activity of dairy cows in a pasture-based automatic milking system. Livestock Science, 2021, 245, 104420.	0.6	2
576	Effects of different composition of brewer grain and rice bran in the concentrate on methane emission of Kacang goat. IOP Conference Series: Earth and Environmental Science, 2021, 724, 012078.	0.2	1
577	Energy value of babassu cake as substitute bulk in sheep diets. Semina:Ciencias Agrarias, 0, , 1967-1980.	0.1	1
578	Validation of Dairy Cow Bodyweight Prediction Using Traits Easily Recorded by Dairy Herd Improvement Organizations and Its Potential Improvement Using Feature Selection Algorithms. Animals, 2021, 11, 1288.	1.0	6
579	Review of environmental performance of sheep farming using life cycle assessment. Journal of Cleaner Production, 2021, 293, 126192.	4.6	24
580	Investigation of intra-day variability of gaseous measurements in sheep using portable accumulation chambers. Journal of Animal Science, 2021, 99, .	0.2	6
581	Challenges and opportunities to capture dietary effects in on-farm greenhouse gas emissions models of ruminant systems. Science of the Total Environment, 2021, 769, 144989.	3.9	14
582	The effects of gradual replacement of barley with oats on enteric methane emissions, rumen fermentation, milk production, and energy utilization in dairy cows. Journal of Dairy Science, 2021, 104, 5617-5630.	1.4	16
583	Cattle, climate and complexity: food security, quality and sustainability of the Australian cattle industries. Australian Veterinary Journal, 2021, 99, 293-308.	0.5	3
584	The use of an upgraded GreenFeed system and milk fatty acids to estimate energy balance in early-lactation cows. Journal of Dairy Science, 2021, 104, 6701-6714.	1.4	6
585	Review: New feeds and new feeding systems in intensive and semi-intensive forage-fed ruminant livestock systems. Animal, 2021, 15, 100297.	1.3	19

#	Article	IF	Citations
586	Intramuscular Fatty Acids in Meat Could Predict Enteric Methane Production by Fattening Lambs. Animals, 2021, 11, 2053.	1.0	2
587	Modelling the effect of feeding management on greenhouse gas and nitrogen emissions in cattle farming systems. Science of the Total Environment, 2021, 776, 145932.	3.9	18
588	Profiling of Reindeerâ€™s Rumen Microbial Communities: Characteristics and Age-Related Analysis. Smart Innovation, Systems and Technologies, 2022, , 69-78.	0.5	0
589	Enteric methane mitigation strategies for ruminant livestock systems in the Latin America and Caribbean region: A meta-analysis. Journal of Cleaner Production, 2021, 312, 127693.	4.6	42
590	Tannins in the diet for lactating goats from different genetic groups in the Brazilian semiarid: Nitrogen, energy and water balance. Animal Feed Science and Technology, 2021, 279, 115023.	1.1	2
591	Agricultural methane emissions and the potential formitigation. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200451.	1.6	21
592	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
593	Feed intake, methane yield, and efficiency of utilization of energy and nitrogen by sheep fed tropical grasses. Tropical Animal Health and Production, 2021, 53, 452.	0.5	2
594	Replacement of barley with oats and dehulled oats: Effects on milk production, enteric methane emissions, and energy utilization in dairy cows fed a grass silage-based diet. Journal of Dairy Science, 2021, 104, 12540-12552.	1.4	4
595	Effect of different genotypes of. Crop and Pasture Science, 2021, 72, 850-859.	0.7	4
596	A Comparison of Methodologies for Measuring Methane Emissions from Ruminants. , 2016, , 97-117.		9
597	Ruminants and Other Animals. , 1993, , 199-229.		38
598	Ruminants and Other Animals. , 2000, , 112-133.		12
599	Introduction to Concepts of Climate Change Impact on Livestock and Its Adaptation and Mitigation. , 2015, , 1-23.		16
600	Greenhouse Gas Emissions from Intensive Livestock Systems: Their Estimation and Technologies for Reduction. , 1994, , 27-38.		13
601	Greenhouse Gas Inventory in Thailand. Environmental Science and Technology Library, 1996, , 201-222.	0.1	1
602	NEW METHODS OF FORAGE EVALUATION. , 1984, , 161-176.		14
603	COMPARISON OF ENERGY EVALUATION SYSTEMS OF FEEDS FOR RUMINANTS. , 1990, , 1-19.		3

#	Article	IF	Citations
604	THE IMPORTANCE OF INTAKE IN FEED EVALUATION. , 1990, , 147-160.		5
605	THE EVALUATION OF THE ENERGY IN FORAGE BY THE COMPARATIVE SLAUGHTER TECHNIQUE. , 1980, , 13-15.		4
606	METHANE PRODUCTION IN DAIRY COWS. , 1980, , 59-62.		7
607	ALTERNATIVES TO CONVENTIONAL CEREALS. , 1976, , 13-27.		8
608	MANIPULATION OF RUMEN FERMENTATION. , 1977, , 83-109.		63
609	THE ADVISER'S APPROACH TO PREDICTING THE METABOLIZABLE ENERGY VALUE OF FEEDS FOR RUMINANTS. , 1980, , 93-106.		4
610	GROWTH PROMOTERS AND THEIR IMPORTANCE IN RUMINANT LIVESTOCK PRODUCTION. , 1983, , 163-177.		4
611	Adoptability and effectiveness of livestock emission reduction techniques in Australiaâ€™s temperate high-rainfall zone. Animal Production Science, 2016, 56, 393.	0.6	5
612	Rumen characteristics, methane emissions, and digestion in weaned lambs reared in isolation. Australian Journal of Agricultural Research, 1999, 50, 1083.	1.5	17
613	Anti-methanogenic advantage of biserrula (Biserrula pelecinus) over subterranean clover (Trifolium) Tj ETQq1 1 0.784314 rgBT /Overlock treatments. Crop and Pasture Science, 2019, 70, 263.	0.7	3
614	Reliability of the sulfur hexafluoride tracer technique for methane emission measurement from individual animals: an overview. Australian Journal of Experimental Agriculture, 2008, 48, 223.	1.0	53
615	Supporting measurements required for evaluation of greenhouse gas emission models for enteric fermentation and stored animal manure.. , 2008, , 204-224.		1
616	First insight into the faecal microbiota of the high Arctic muskoxen (Ovibos moschatus). Microbial Genomics, 2016, 2, e000066.	1.0	18
618	Assessment of Reductive Acetogenesis with Indigenous Ruminal Bacterium Populations and Acetitomaculum ruminis. Applied and Environmental Microbiology, 1998, 64, 3429-3436.	1.4	114
620	Methane Emission by Camelids. PLoS ONE, 2014, 9, e94363.	1.1	37
621	Rumen and Cecum Microbiomes in Reindeer (Rangifer tarandus tarandus) Are Changed in Response to a Lichen Diet and May Affect Enteric Methane Emissions. PLoS ONE, 2016, 11, e0155213.	1.1	42
622	Respirometria e emissÃ£o de metano por ovinos alimentados com capim-elefante cortado com diferentes idades. Bioscience Journal, 2015, 31, 841-849.	0.4	4
623	Ammoniated babassu palm hay in anglo-nubian goat diets. Ciencia E Agrotecnologia, 2016, 40, 688-697.	1.5	1

#	Article	IF	Citations
624	ParÃ¢metros sanguÃneos, hepÃ¡ticos e ruminais de ovinos alimentados com dietas com farelo de mamona destoxificado. Pesquisa Agropecuaria Brasileira, 2012, 47, 103-110.	0.9	10
625	Consumo e digestibilidade aparente da matÃ©ria seca, da proteÃna bruta e da energia de silagens de quatro genÃ³tipos de sorgo (Sorghum bicolor (L.) Moench) por ovinos. Arquivo Brasileiro De Medicina Veterinaria E Zootecnia, 2003, 55, 341-345.	0.1	5
626	Consumo e digestibilidade aparente da matÃ©ria seca, proteÃna e energia bruta, e balanÃ§o de nitrogÃªnio das silagens de cinco genÃ³tipos de milho. Arquivo Brasileiro De Medicina Veterinaria E Zootecnia, 2003, 55, 443-449.	0.1	5
627	Consumo voluntÃ¡rio e digestibilidade aparente da matÃ©ria seca, matÃ©ria orgÂ¢nica, energia e parede celular das silagens de quatro genÃ³tipos de girassol (Helianthus annus). Arquivo Brasileiro De Medicina Veterinaria E Zootecnia, 2005, 57, 616-622.	0.1	1
628	Consumo e digestibilidade aparente de silagens de Brachiaria brizantha cv marandu adicionada de aditivos. Arquivo Brasileiro De Medicina Veterinaria E Zootecnia, 2011, 63, 704-711.	0.1	1
629	Methane emissions and estimates of ruminal fermentation parameters in beef cattle fed different dietary concentrate levels. Revista Brasileira De Zootecnia, 2013, 42, 592-598.	0.3	19
630	The Inter-Linkages Between Rapid Growth In Livestock Production, Climate Change, And The Impacts On Water Resources, Land Use, And Deforestation. Policy Research Working Papers, 2010, , .	1.4	45
631	Enteric methane mitigation strategies in ruminants: a review. Revista Colombiana De Ciencias Pecuarias, 2015, 28, .	0.4	9
632	Leviers dâ€™action pour rÃ©duire la production de mÃ©thane entÃ©rique par les ruminants. INRA Productions Animales, 2020, 24, 461-474.	0.3	14
633	Estrategias de reducciÃ³n de metano basadas en la genÃ©tica y manipulaciÃ³n dietÃ©tica de rumiantes: una revisiÃ³n. Archivos De Zootecnia, 2018, 67, 448-458.	0.2	2
634	Milk production from silage: comparison of grass, legume and maize silages and their mixtures. Agricultural and Food Science, 2013, 22, 57-69.	0.3	45
635	A modified version of the Molly rumen model to quantify methane emissions from sheep1. Journal of Animal Science, 2015, 93, 3551-3563.	0.2	13
636	Energy and protein requirements for maintenance of dairy goats during pregnancy and their efficiencies of use. Journal of Animal Science, 2017, 95, 4181.	0.2	6
637	The Potential of Tropical Tannin Rich Browses in Reduction of Enteric Methane. Approaches in Poultry Dairy & Veterinary Sciences, 2018, 2, .	0.1	4
638	Fluctuations in methane emission in response to feeding pattern in lactating dairy cows. , 2011, , 176-180.		20
639	Effect of Feeding Castor Seed Cake Based Diets on Growth, Nutrient Utilization, Immune Response and Carcass Traits in Lambs. Asian Journal of Animal Sciences, 2015, 9, 293-305.	0.3	7
640	Factors Affecting Mitigation of Methane Emission from Ruminants I: Feeding Strategies. Asian Journal of Animal and Veterinary Advances, 2011, 6, 888-908.	0.3	27
641	Potential for Conversion of Agrosilvopastoral Systems of Dairy Cattle to the Organic Production Model in South Eastern Mexico. Journal of Animal and Veterinary Advances, 2012, 11, 3081-3093.	0.1	1

#	Article	IF	Citations
642	Application of Models to Predict Methane Emissions by Dairy Cattle. Journal of Animal and Veterinary Advances, 2012, 11, 3198-3201.	0.1	3
643	Effects of Mustard Seeds and Powder on In vitro Ruminal Fermentation Characteristics and Methane Production. Journal of Animal Science and Technology, 2013, 55, 25-32.	0.8	4
644	Methane Gas Emission in Relation to Livestock: a Review. Journal of Animal Production Advances, 2013, 3, 187.	0.1	2
645	Effects of dietary forage-to-concentrate ratio on nutrient digestibility and enteric methane production in growing goats (Capra hircus hircus) and Sika deer (Cervus nippon hortulorum). Asian-Australasian Journal of Animal Sciences, 2017, 30, 967-972.	2.4	16
646	Methane Production Potential of Feed Ingredients as Measured by In Vitro Gas Test. Asian-Australasian Journal of Animal Sciences, 2003, 16, 1143-1150.	2.4	37
647	Measurement of Methane Production from Ruminants. Asian-Australasian Journal of Animal Sciences, 2007, 20, 1305-1318.	2.4	38
648	Control of Rumen Microbial Fermentation for Mitigating Methane Emissions from the Rumen. Asian-Australasian Journal of Animal Sciences, 2008, 21, 144-154.	2.4	64
649	Relationship between the Methane Production and the CNCPS Carbohydrate Fractions of Rations with Various Concentrate/roughage Ratios Evaluated Using <italic>In vitro</italic> Incubation Technique. Asian-Australasian Journal of Animal Sciences, 2013, 26, 1708-1716.	2.4	8
650	Energy Requirements for Maintenance and Growth of Male Saanen Goat Kids. Asian-Australasian Journal of Animal Sciences, 2014, 27, 1293-1302.	2.4	9
651	Energy Requirements in Early Life Are Similar for Male and Female Goat Kids. Asian-Australasian Journal of Animal Sciences, 2014, 27, 1712-1720.	2.4	12
652	Solar Photovoltaics. , 2021, , 60-71.		0
653	Policy Frameworks and Institutions for Decarbonisation: The Energy Sector as â€˜Litmus Testâ€™. , 2021, , 7-38.		0
654	PSVII-13 Performance and environmental benefits from biochar supplementation in beef cattle grazing systems. Journal of Animal Science, 2021, 99, 448-449.	0.2	1
656	Decarbonisation Strategies and Economic Opportunities in Australia. , 2021, , 203-236.		0
658	Hydropower. , 2021, , 125-138.		0
659	Transitioning to a Prosperous, Resilient and Carbon-Free Economy. , 2021, , .		1
660	Repeatability of gaseous measurements across consecutive days in sheep using Portable accumulation chambers. Journal of Animal Science, 2021, 99, .	0.2	4
664	Financing the Transition. , 2021, , 621-645.		0

#	Article	IF	Citations
666	The role of seaweed as a potential dietary supplementation for enteric methane mitigation in ruminants: Challenges and opportunities. Animal Nutrition, 2021, 7, 1371-1387.	2.1	43
667	Forests. , 2021, , 462-500.		0
669	Solar Thermal Energy. , 2021, , 72-104.		1
670	Improving the Governance of Governments. , 2021, , 591-620.		2
671	Effects of Replacing Cottonseed Meal with Corn Dried Distillersâ€™ Grain on Ruminal Parameters, Performance, and Enteric Methane Emissions in Young Nellore Bulls Reared in Tropical Pastures. Animals, 2021, 11, 2959.	1.0	2
672	Trade and Climate Change. , 2021, , 571-590.		1
676	Industry and Manufacturing. , 2021, , 408-438.		0
680	Buildings and Precincts. , 2021, , 301-337.		0
683	Land Use. , 2021, , 441-461.		0
684	Social Movements for Change. , 2021, , 646-667.		0
685	Decarbonisation Strategies and Economic Opportunities in Indonesia. , 2021, , 237-268.		0
686	Mining, Metals, Oil and Gas. , 2021, , 529-568.		0
687	The Hydrogen Economy. , 2021, , 173-200.		0
688	National Climate Change Adaptation Case Study: Early Adaptation to Climate Change through Climate-Compatible Development and Adaptation Pathways. , 2021, , 365-388.		1
689	Urban Water. , 2021, , 338-364.		0
690	Efeito da inclusÃ£o do caroÃ§o de algodÃ£o sobre o consumo, digestibilidade e balanÃ§o da energia em dietas para ovinos. Arquivo Brasileiro De Medicina Veterinaria E Zootecnia, 2002, 54, 478-484.	0.1	1
691	Effects of Steam Flaking of Corns imported from USA and India on the in vitro Fermentation Characteristic and the Mycotixin Contents of Logistic Processing Line. Journal of Life Science, 2009, 19, 65-74.	0.2	2
692	Development and validation of a biophysical model of enteric methane emissions from Australian beef feedlots. , 2011, , 412-420.		0

#	Article	IF	Citations
693	Evaluation on the Greenhouse Gas Emission According to the Intake Levels of Total Mixed Rations of Hanwoo Cow. Journal of Animal Science and Technology, 2011, 53, 475-480.	0.8	2
694	Effect of Mixed Microbial Culture on Fermentation of Beverage Residues and the Effect of the Fermented Beverage Residues on in Vitro Rumen Fermentation and Methane Production. International Journal of Bioscience, Biochemistry, Bioinformatics (IJBBB), 2012, , 349-353.	0.2	1
695	Does increasing ewe fecundity reduce whole-farm greenhouse gas emissions intensities?. , 0, , .		0
696	A Consideration on Energetic Efficinency of Lactation for Cows Fed Concentrate at Rates of 25% and 35% of Milk Yield. Nihon Chikusan Gakkaiho, 1987, 58, 805-811.	0.0	0
697	Voluntary Intake and Nutritive Value of Rice Straw by Sheep in Comparison with Wheat Straw and Hays. Nihon Chikusan Gakkaiho, 1988, 59, 971-976.	0.0	0
698	Effects of Sodium Hydroxide Treatment and Soybean Meal Supplementation on Digestion and Utilization of Rice Straw by Sheep. Nihon Chikusan Gakkaiho, 1989, 60, 40-45.	0.0	0
699	Methods for Exploring Management Options to Reduce Greenhouse Gas Emissions from Tropical Grazing Systems. , 1994, , 49-70.		0
700	Assessing National Livestock Populations for the Production of Methane Emission Inventories. , 1995, , 111-123.		0
701	National Greenhouse Gas Emission Inventories in Developing Countries and Countries with Economies in Transition: Global Synthesis. Environmental Science and Technology Library, 1996, , 1-57.	0.1	2
702	Nutritive value of sheep diets made up of hay from Tifton 85 grass and leucaena. Revista Ciencia Agronomica, 2014, 45, 387-392.	0.1	0
703	Climate change vis-Ã-vis agriculture: Indian and global viewâ€"implications, abatement, adaptation and trade-off. , 2014, , 1-88.		0
704	Effects of spent mushroom (Flammulina velutipes) substrates on in vitro ruminal fermentation characteristics and digestibility of whole crop sorghum silage. Journal of Mushrooms, 2015, 13, 163-169.	0.3	0
705	Chapter 10: The sulphur hexafluoride tracer technique for estimating enteric methane emissions from ruminants. , 2015, , 185-212.		3
706	Greenhouse Gas Emissions Related to Agriculture and Land-Use Practices. ASA Special Publication, 0, , 27-43.	0.8	3
707	Respirometry and Ruminant Nutrition. , 0, , .		0
708	Passion fruit by-product as a substitute for Tifton 85 hay in diets for dairy heifers. Semina:Ciencias Agrarias, 2019, 40, 2719.	0.1	2
710	Digestion and Nutrient Metabolism. , 1983, , 274-312.		0
711	The use of sheep to predict methane production by cattle fed grass silage based rations. Proceedings of the British Society of Animal Science, 1995, 1995, 82-82.	0.0	0

#	Article	IF	Citations
712	The relationship between digestibility, methane energy loss and metabolisable energy of whole crop wheat. Proceedings of the British Society of Animal Science, 1995, 1995, 159-159.	0.0	0
713	The relationship between digestibility or energy losses as methane and metabolisable energy content of whole crop wheat. Proceedings of the British Society of Animal Science, 1996, 1996, 41-41.	0.0	0
714	Prediction of the metabolisable energy content of whole crop wheat from chemical composition, in vitro digestibility and near infrared reflectance spectroscopy. Proceedings of the British Society of Animal Science, 1997, 1997, 204-204.	0.0	0
715	Measurement of methane emissions in cattle with infrared gas analyzer and gas chromatography. Revista U D C A Actualidad & DivulgaciÃ³n CientÃfica, 2020, 23, .	0.1	0
716	Automated feeding of sheep. 2. Feeding behaviour influences the methane emissions of sheep offered restricted diets. Animal Production Science, 2021, 62, 55-66.	0.6	3
717	Simulating grazing beef and sheep systems. Agricultural Systems, 2022, 195, 103307.	3.2	10
718	Evaluation of methane production manipulated by level of intake in growing cattle and corn oil in finishing cattle. Translational Animal Science, 2020, 4, txaa186.	0.4	3
720	Net protein contribution and enteric methane production of pasture and grain-finished beef cattle supply chains. Animal, 2021, 15, 100392.	1.3	11
721	Welcome to the 75th Anniversary of the British Journal of Nutrition. British Journal of Nutrition, 2022, 127, 1-2.	1.2	0
722	Comparison of Molly and Karoline models to predict methane production in growing and dairy cattle. Journal of Dairy Science, 2022, 105, 3049-3063.	1.4	6
723	Predicting metabolizable energy from digestible energy for growing and finishing beef cattle and relationships to the prediction of methane. Journal of Animal Science, 2022, 100, .	0.2	4
724	Associations among nutrient concentration, silage fermentation products, in vivo organic matter digestibility, rumen fermentation and in vitro methane yield in 78 grass silages. Animal Feed Science and Technology, 2022, 285, 115249.	1.1	8
725	Genetic parameters for methane emissions in Australian sheep measured in portable accumulation chambers in grazing and controlled environments. Animal Production Science, 2022, , .	0.6	2
726	Integrating heterogeneous across-country data for proxy-based random forest prediction of enteric methane in dairy cattle. Journal of Dairy Science, 2022, 105, 5124-5140.	1.4	5
727	Enteric Methane Emissions and Animal Performance in Dairy and Beef Cattle Production: Strategies, Opportunities, and Impact of Reducing Emissions. Animals, 2022, 12, 948.	1.0	17
728	Improving productivity reduces methane intensity but increases the net emissions of sheepmeat and wool enterprises. Animal, 2022, 16, 100490.	1.3	5
729	More feed efficient sheep produce less methane and carbon dioxide when eating high-quality pellets. Journal of Animal Science, 2017, 95, 3839.	0.2	10
745	Diversity of rumen microbiota using metagenome sequencing and methane yield in Indian sheep fed on straw and concentrate diet. Saudi Journal of Biological Sciences, 2022, 29, 103345.	1.8	4

#	Article	IF	Citations
746	Genetic parameters for residual feed intake, methane emissions, and body composition in New Zealand maternal sheep. Frontiers in Genetics, 0, 13, .	1.1	12
747	Associations of digestibility with phenotypic and genetic variation in methane production in Angus cattle. Animal Production Science, 2022, 62, 1749-1756.	0.6	1
748	Novel Trait Selection to Enhance Sustainability of Beef Production Systems. , 2022, , 1-20.		1
749	Temporal and Spatial Distribution of Atmospheric CH4 Concentration and Estimation of Animal Husbandry Emissions in Hebei Province. , 2022, , .		0
750	Energy requirements of Holstein, Gyr, and Holstein Ã— Gyr crossbred heifers using the respirometry technique. Frontiers in Animal Science, 0, 3, .	0.8	2
751	Quantification of cytosol and membrane proteins in rumen epithelium of sheep with low or high CH4 emission phenotype. PLoS ONE, 2022, 17, e0273184.	1.1	1
752	A metaâ€analysis of the genetic contribution to greenhouse gas emission in sheep. Journal of Animal Breeding and Genetics, 0, , .	0.8	0
753	Understanding variability and repeatability of enteric methane production in feedlot cattle. Frontiers in Animal Science, 0, 3, .	0.8	2
754	Relationships between enteric methane production and economically important traits in beef cattle. Livestock Science, 2022, 265, 105102.	0.6	5
755	Novel Trait Selection to Enhance Sustainability of Beef Production Systems. , 2023, , 223-241.		0
756	Prediction of enteric methane emissions by sheep using an intercontinental database. Journal of Cleaner Production, 2023, 384, 135523.	4.6	8
757	Effect of Tithonia diversifolia (Hemsl.) A. Gray intake on in vivo methane (CH4) emission and milk production in dual-purpose cows in the Colombian Amazonian piedmont. Translational Animal Science, 2022, 6, .	0.4	6
758	Enteric methane research and mitigation strategies for pastoral-based beef cattle production systems. Frontiers in Veterinary Science, 0, 9, .	0.9	6
759	Relevance of sward structure and forage nutrient contents in explaining methane emissions from grazing beef cattle and sheep. Science of the Total Environment, 2023, 869, 161695.	3.9	5
760	482. Consequences of using different economic selection index methods on greenhouse gas emissions in beef cattle. , 2022, , .		0
761	Prediction of methane emissions from fattening cattle using the methaneâ€toâ€carbon dioxide ratio. Animal Science Journal, 2023, 94, .	0.6	1