Jan Dijkstra

List of Publications by Year
in descending order

275 papers	14,159 citations	21215 62 h-index	33145 104 g-index
277 all docs	277 docs citations	277 times ranked	7606 citing authors

#	Article	IF	Citations
1	Methane mitigation potential of 3-nitrooxypropanol in lactating cows is influenced by basal diet composition. Journal of Dairy Science, 2022, 105, 4064-4082.	1.4	18
2	Feeding hydrogenated palm fatty acids and rumen-protected protein to lactating Holstein-Friesian dairy cows modifies milk fat triacylglycerol composition and structure, and solid fat content. Journal of Dairy Science, 2022, 105, 2828-2839.	1.4	3
3	Full adoption of the most effective strategies to mitigate methane emissions by ruminants can help meet the 1.5â€‰Â°C target by 2030 but not 2050. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2111294119.	3.3	77
4	MRCKÎ± is a novel regulator of prolactin-induced lactogenesis in bovine mammary epithelial cells. Animal Nutrition, 2022, 10, 319-328.	2.1	2
5	Essential amino acid profile of supplemental metabolizable protein affects mammary gland metabolism and whole-body glucose kinetics in dairy cattle. Journal of Dairy Science, 2022, 105, 7354-7372.	1.4	7
6	Corn stover usage and farm profit for sustainable dairy farming in China. Animal Bioscience, 2021, 34, 36-47.	0.8	7
7	ASAS-NANP symposium: digestion kinetics in pigs: the next step in feed evaluation and a ready-to-use modeling exercise. Journal of Animal Science, 2021, 99, .	0.2	9
8	Safety and Transfer Study: Transfer of Bromoform Present in Asparagopsis taxiformis to Milk and Urine of Lactating Dairy Cows. Foods, 2021, 10, 584.	1.9	56
9	Abomasal infusion of ground corn and ammonium chloride in early-lactating Holstein-Friesian dairy cows to induce hindgut and metabolic acidosis. Journal of Dairy Science, 2021, 104, 4174-4191.	1.4	19
10	Seasonal variation in fatty acid and triacylglycerol composition of bovine milk fat. Journal of Dairy Science, 2021, 104, 8479-8492.	1.4	20
11	Effect of postpartum collection time and colostrum quality on passive transfer of immunity, performance, and small intestinal development in preweaning calves. Journal of Dairy Science, 2021, 104, 11931-11944.	1.4	2
12	Abomasal infusion of corn starch and Î²-hydroxybutyrate in early-lactation Holstein-Friesian dairy cows to induce hindgut and metabolic acidosis. Journal of Dairy Science, 2021, 104, 12520-12539.	1.4	11
13	Dietary protein oscillation: Effects on feed intake, lactation performance, and milk nitrogen efficiency in lactating dairy cows. Journal of Dairy Science, 2021, 104, 10714-10726.	1.4	5
14	Effects of dietary phosphorus concentration during the transition period on plasma calcium concentrations, feed intake, and milk production in dairy cows. Journal of Dairy Science, 2021, 104, 11646-11659.	1.4	6
15	Effects of an artificial hay aroma and compound feed formulation on feed intake pattern, rumen function and milk production in lactating dairy cows. Animal, 2020, 14, 529-537.	1.3	2
16	Relationships between chemical composition and in vitro gas production parameters of maize leaves and stems. Journal of Animal Physiology and Animal Nutrition, 2020, 104, 12-21.	1.0	9
17	Antimethanogenic effects of nitrate supplementation in cattle: A meta-analysis. Journal of Dairy Science, 2020, 103, 11375-11385.	1.4	27
18	Impact of post-ruminally infused macronutrients on bovine mammary gland expression of genes involved in fatty acid synthesis, energy metabolism, and protein synthesis measured in RNA isolated from milk fat. Journal of Animal Science and Biotechnology, 2020, 11, 53.	2.1	5

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19	Effect of arginine or glutamine supplementation and milk feeding allowance on small intestine development in calves. Journal of Dairy Science, 2020, 103, 4754-4764.	1.4	13
20	Multi-kingdom characterization of the core equine fecal microbiota based on multiple equine (sub)species. Animal Microbiome, 2020, 2, 6.	1.5	39
21	Review: Synergy between mechanistic modelling and data-driven models for modern animal production systems in the era of big data. Animal, 2020, 14, s223-s237.	1.3	46
22	Energy requirements for pregnant dairy cows. PLoS ONE, 2020, 15, e0235619.	1.1	11
23	Applying a mechanistic fermentation and digestion model for dairy cows with emission and nutrient cycling inventory and accounting methodology. Animal, 2020, 14, s406-s416.	1.3	4
24	Review: Rumen sensors: data and interpretation for key rumen metabolic processes. Animal, 2020, 14, s176-s186.	1.3	33
25	Domesticated equine species and their derived hybrids differ in their fecal microbiota. Animal Microbiome, 2020, 2, 8.	1.5	19
26	3-Nitrooxypropanol decreases methane emissions and increases hydrogen emissions of early lactation dairy cows, with associated changes in nutrient digestibility and energy metabolism. Journal of Dairy Science, 2020, 103, 8074-8093.	1.4	27
27	Evaluation of predicted ration nutritional values by NRC (2001) and INRA (2018) feed evaluation systems, and implications for the prediction of milk response. Journal of Dairy Science, 2020, 103, 11268-11284.	1.4	10
28	Energy and nitrogen balance of dairy cattle as affected by provision of different essential amino acid profiles at the same metabolizable protein supply. Journal of Dairy Science, 2019, 102, 8963-8976.	1.4	18
29	In dairy cattle, the stomach tube method is not a feasible alternative to the rumen cannulation method to examine in vitro gas and methane production. Animal Feed Science and Technology, 2019, 256, 114259.	1.1	2
30	Expression of genes related to energy metabolism and the unfolded protein response in dairy cow mammary cells is affected differently during dietary supplementation with energy from protein and fat. Journal of Dairy Science, 2019, 102, 6603-6613.	1.4	12
31	Bayesian mechanistic modeling of thermodynamically controlled volatile fatty acid, hydrogen and methane production in the bovine rumen. Journal of Theoretical Biology, 2019, 480, 150-165.	0.8	20
32	Short communication: Relationship between lysine/methionine ratios and glucose levels and their effects on casein synthesis via activation of the mechanistic target of rapamycin signaling pathway in bovine mammary epithelial cells. Journal of Dairy Science, 2019, 102, 8127-8133.	1.4	13
33	Dietary supplementation with tannin and soybean oil on intake, digestibility, feeding behavior, ruminal protozoa and methane emission in sheep. Animal Feed Science and Technology, 2019, 249, 10-17.	1.1	32
34	Prediction of enteric methane production, yield and intensity of beef cattle using an intercontinental database. Agriculture, Ecosystems and Environment, 2019, 283, 106575.	2.5	57
35	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
36	Mammary gland metabolite utilization in response to exogenous glucose or long-chain fatty acids at low and high metabolizable protein levels. Journal of Dairy Science, 2019, 102, 7150-7167.	1.4	14

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37	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
38	Invited review: Nitrogen in ruminant nutrition: A review of measurement techniques. Journal of Dairy Science, 2019, 102, 5811-5852.	1.4	120
39	Mammary gland utilization of amino acids and energy metabolites differs when dairy cow rations are isoenergetically supplemented with protein and fat. Journal of Dairy Science, 2019, 102, 1160-1175.	1.4	19
40	The nutritional value of the lower maize stem cannot be improved by ensiling nor by a fungal treatment. Animal Feed Science and Technology, 2019, 247, 92-102.	1.1	6
41	Energy and nitrogen partitioning in dairy cows at low or high metabolizable protein levels is affected differently by postrumen glucogenic and lipogenic substrates. Journal of Dairy Science, 2019, 102, 395-412.	1.4	33
42	Symposium review: Uncertainties in enteric methane inventories, measurement techniques, and prediction models. Journal of Dairy Science, 2018, 101, 6655-6674.	1.4	103
43	Effects of rumen-undegradable protein on intake, performance, and mammary gland development in prepubertal and pubertal dairy heifers. Journal of Dairy Science, 2018, 101, 5991-6001.	1.4	15
44	Prediction of enteric methane production, yield, and intensity in dairy cattle using an intercontinental database. Global Change Biology, 2018, 24, 3368-3389.	4.2	166
45	Udder health of dairy cows fed different dietary energy levels after a short or no dry period without use of dry cow antibiotics. Journal of Dairy Science, 2018, 101, 4570-4585.	1.4	14
46	An isotope dilution model for partitioning of phenylalanine and tyrosine uptake by the liver of lactating dairy cows. Journal of Theoretical Biology, 2018, 444, 100-107.	0.8	4
47	The relationship between milk metabolome and methane emission of Holstein Friesian dairy cows: Metabolic interpretation and prediction potential. Journal of Dairy Science, 2018, 101, 2110-2126.	1.4	10
48	Short communication: The effect of linseed oil and DGAT1 K232A polymorphism on the methane emission prediction potential of milk fatty acids. Journal of Dairy Science, 2018, 101, 5599-5604.	1.4	4
49	Predicting enteric methane emission of dairy cows with milk Fourier-transform infrared spectra and gas chromatographyâ€“based milk fatty acid profiles. Journal of Dairy Science, 2018, 101, 5582-5598.	1.4	30
50	Development of mathematical models to predict calcium, magnesium and selenium excretion from lactating Holstein cows. Animal Production Science, 2018, 58, 489.	0.6	1
51	Recovery test results as a prerequisite for publication of gaseous exchange measurements. Animal, 2018, 12, 4.	1.3	10
52	Lignin composition is more important than content for maize stem cell wall degradation. Journal of the Science of Food and Agriculture, 2018, 98, 384-390.	1.7	15
53	A Tier 3 Method for Enteric Methane in Dairy Cows Applied for Fecal N Digestibility in the Ammonia Inventory. Frontiers in Sustainable Food Systems, 2018, 2, .	1.8	10
54	Modeling the Effect of Nutritional Strategies for Dairy Cows on the Composition of Excreta Nitrogen. Frontiers in Sustainable Food Systems, 2018, 2, .	1.8	17

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55	Letter to the Editor: Recovery test results as a prerequisite for publication of gaseous exchange measurements. Journal of Dairy Science, 2018, 101, 4703-4704.	1.4	9
56	Short communication: Antimethanogenic effects of 3-nitrooxypropanol depend on supplementation dose, dietary fiber content, and cattle type. Journal of Dairy Science, 2018, 101, 9041-9047.	1.4	88
57	Feed and nitrogen efficiency are affected differently but milk lactose production is stimulated equally when isoenergetic protein and fat is supplemented in lactating dairy cow diets. Journal of Dairy Science, 2018, 101, 7857-7870.	1.4	23
58	Multi-criteria evaluation of dairy cattle feed resources and animal characteristics for nutritive and environmental impacts. Animal, 2018, 12, s310-s320.	1.3	6
59	Changes in rumen microbiota composition and in situ degradation kinetics during the dry period and early lactation as affected by rate of increase of concentrate allowance. Journal of Dairy Science, 2017, 100, 2695-2710.	1.4	21
60	Enteric methane production in lactating dairy cows with continuous feeding of essential oils or rotational feeding of essential oils and lauric acid. Journal of Dairy Science, 2017, 100, 3563-3575.	1.4	34
61	Relationships between methane emission of Holstein Friesian dairy cows and fatty acids, volatile metabolites and non-volatile metabolites in milk. Animal, 2017, 11, 1539-1548.	1.3	14
62	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
63	The effect of dry period length and postpartum level of concentrate on milk production, energy balance, and plasma metabolites of dairy cows across the dry period and in early lactation. Journal of Dairy Science, 2017, 100, 5863-5879.	1.4	26
64	Effect of different levels of rapidly degradable carbohydrates calculated by a simple rumen model on performance of lactating dairy cows. Journal of Dairy Science, 2017, 100, 5422-5433.	1.4	6
65	A mechanistic model of small intestinal starch digestion and glucose uptake in the cow. Journal of Dairy Science, 2017, 100, 4650-4670.	1.4	15
66	Determination of energy and protein requirements for crossbred Holstein Ã— Gyr preweaned dairy calves. Journal of Dairy Science, 2017, 100, 1170-1178.	1.4	11
67	Further assessment of the protozoal contribution to the nutrition of the ruminant animal. Journal of Theoretical Biology, 2017, 416, 8-15.	0.8	6
68	Changes in in vitro gas and methane production from rumen fluid from dairy cows during adaptation to feed additives in vivo. Animal, 2017, 11, 591-599.	1.3	29
69	Consequences of dietary energy source and energy level on energy balance, lactogenic hormones, and lactation curve characteristics of cows after a short or omitted dry period. Journal of Dairy Science, 2017, 100, 8544-8564.	1.4	18
70	In vitro gas and methane production of silages from whole-plant corn harvested at 4 different stages of maturity and a comparison with in vivo methane production. Journal of Dairy Science, 2017, 100, 8895-8905.	1.4	9
71	Linseed oil and DGAT1 K232A polymorphism: Effects on methane emission, energy and nitrogen metabolism, lactation performance, ruminal fermentation, and rumen microbial composition of Holstein-Friesian cows. Journal of Dairy Science, 2017, 100, 8939-8957.	1.4	34
72	Estimating the energetic cost of feeding excess dietary nitrogen to dairy cows. Journal of Dairy Science, 2017, 100, 7116-7126.	1.4	41

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73	Effect of supplemental concentrate during the dry period or early lactation on rumen epithelium gene and protein expression in dairy cattle during the transition period. Journal of Dairy Science, 2017, 100, 7227-7245.	1.4	12
74	The effect of supplemental concentrate fed during the dry period on morphological and functional aspects of rumen adaptation in dairy cattle during the dry period and early lactation. Journal of Dairy Science, 2017, 100, 343-356.	1.4	9
75	Diurnal Dynamics of Gaseous and Dissolved Metabolites and Microbiota Composition in the Bovine Rumen. Frontiers in Microbiology, 2017, 8, 425.	1.5	67
76	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
77	Nutritional and Environmental Effects on Ammonia Emissions from Dairy Cattle Housing: A Metaâ€Analysis. Journal of Environmental Quality, 2016, 45, 1123-1132.	1.0	33
78	The Contribution of Mathematical Modeling to Understanding Dynamic Aspects of Rumen Metabolism. Frontiers in Microbiology, 2016, 7, 1820.	1.5	37
79	Thermodynamic Driving Force of Hydrogen on Rumen Microbial Metabolism: A Theoretical Investigation. PLoS ONE, 2016, 11, e0161362.	1.1	51
80	Prediction of methane emission from lactating dairy cows using milk fatty acids and mid-infrared spectroscopy. Journal of the Science of Food and Agriculture, 2016, 96, 3963-3968.	1.7	49
81	Relationships between milk fatty acid profiles and enteric methane production in dairy cattle fed grass- or grass silage-based diets. Animal Production Science, 2016, 56, 541.	0.6	13
82	Effect of short-term infusion of hydrogen on enteric gas production and rumen environment in dairy cows. Animal Production Science, 2016, 56, 466.	0.6	4
83	Quantifying effects of grassland management on enteric methane emission. Animal Production Science, 2016, 56, 409.	0.6	3
84	Effects of nitrogen fertilisation rate and maturity of grass silage on methane emission by lactating dairy cows. Animal, 2016, 10, 34-43.	1.3	32
85	Changes in ruminal volatile fatty acid production and absorption rate during the dry period and early lactation as affected by rate of increase of concentrate allowance. Journal of Dairy Science, 2016, 99, 5370-5384.	1.4	37
86	Short communication: Using diurnal patterns of 13C enrichment of CO2 to evaluate the effects of nitrate and docosahexaenoic acid on fiber degradation in the rumen of lactating dairy cows. Journal of Dairy Science, 2016, 99, 7216-7220.	1.4	0
87	Effects of lactic acid bacteria silage inoculation on methane emission and productivity of Holstein Friesian dairy cattle. Journal of Dairy Science, 2016, 99, 7159-7174.	1.4	45
88	Prediction of portal and hepatic blood flow from intake level data in cattle. Journal of Dairy Science, 2016, 99, 9238-9253.	1.4	7
89	Milk metabolome relates enteric methane emission to milk synthesis and energy metabolism pathways. Journal of Dairy Science, 2016, 99, 6251-6262.	1.4	22
90	Influence of milk urea concentration on fractional urea disappearance rate from milk to blood plasma in dairy cows. Journal of Dairy Science, 2016, 99, 3880-3888.	1.4	10

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91	Effect of dietary nitrate level on enteric methane production, hydrogen emission, rumen fermentation, and nutrient digestibility in dairy cows. Journal of Dairy Science, 2016, 99, 6191-6205.	1.4	110
92	Review of current in vivo measurement techniques for quantifying enteric methane emission from ruminants. Animal Feed Science and Technology, 2016, 219, 13-30.	1.1	120
93	Morphological adaptation of rumen papillae during the dry period and early lactation as affected by rate of increase of concentrate allowance. Journal of Dairy Science, 2016, 99, 2339-2352.	1.4	56
94	Feeding nitrate and docosahexaenoic acid affects enteric methane production and milk fatty acid composition in lactating dairy cows. Journal of Dairy Science, 2016, 99, 1161-1172.	1.4	47
95	Design, implementation and interpretation of in vitro batch culture experiments to assess enteric methane mitigation in ruminantsâ€"a review. Animal Feed Science and Technology, 2016, 216, 1-18.	1.1	114
96	The effects of a ration change from a total mixed ration to pasture on rumen fermentation, volatile fatty acid absorption characteristics, and morphology of dairy cows. Journal of Dairy Science, 2016, 99, 3549-3565.	1.4	20
97	The effect of lactic acid bacteria included as a probiotic or silage inoculant on in vitro rumen digestibility, total gas and methane production. Animal Feed Science and Technology, 2016, 211, 61-74.	1.1	45
98	Increasing harvest maturity of whole-plant corn silage reduces methane emission of lactating dairy cows. Journal of Dairy Science, 2016, 99, 354-368.	1.4	29
99	Estimation of the in situ degradation of the washout fraction of starch by using a modified in situ protocol and in vitro measurements. Animal, 2015, 9, 1465-1472.	1.3	1
100	A new approach to estimate the in situ fractional degradation rate of organic matter and nitrogen in wheat yeast concentrates. Animal, 2015, 9, 437-444.	1.3	4
101	Modeling Greenhouse Gas Emissions from Enteric Fermentation. Advances in Agricultural Systems Modeling, 2015, , 173-195.	0.3	4
102	Daily methane production pattern of Welsh ponies fed a roughage diet with or without a cereal mixture1. Journal of Animal Science, 2015, 93, 1916-1922.	0.2	11
103	Relationship between in vitro and in vivo methane production measured simultaneously with different dietary starch sources and starch levels in dairy cattle. Animal Feed Science and Technology, 2015, 202, 20-31.	1.1	29
104	Multivariate and univariate analysis of energy balance data from lactating dairy cows. Journal of Dairy Science, 2015, 98, 4012-4029.	1.4	50
105	Enteric methane production, rumen volatile fatty acid concentrations, and milk fatty acid composition in lactating Holstein-Friesian cows fed grass silage- or corn silage-based diets. Journal of Dairy Science, 2015, 98, 1915-1927.	1.4	98
106	On the analysis of Canadian Holstein dairy cow lactation curves using standard growth functions. Journal of Dairy Science, 2015, 98, 2701-2712.	1.4	30
107	Effects of raw milk and starter feed on intake and body composition of Holstein Ã— Gyr male calves up to 64 days of age. Journal of Dairy Science, 2015, 98, 2641-2649.	1.4	20
108	Estimating enteric methane emissions from Chilean beef fattening systems using a mechanistic model. Journal of Agricultural Science, 2015, 153, 114-123.	0.6	1

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109	Effect of feed-related farm characteristics on relative values of genetic traits in dairy cows to reduce greenhouse gas emissions along the chain. Journal of Dairy Science, 2015, 98, 4889-4903.	1.4	4
110	Effect of nitrogen fertilization rate and regrowth interval of grass herbage on methane emission of zero-grazing lactating dairy cows. Journal of Dairy Science, 2015, 98, 3383-3393.	1.4	31
111	Short communication: Genetic study of methane production predicted from milk fat composition in dairy cows. Journal of Dairy Science, 2015, 98, 8223-8226.	1.4	26
112	Effects of dietary starch content and rate of fermentation on methane production in lactating dairy cows. Journal of Dairy Science, 2015, 98, 486-499.	1.4	61
113	Rumen degradation characteristics of ryegrass herbage and ryegrass silage are affected by interactions between stage of maturity and nitrogen fertilisation rate. Animal Production Science, 2014, 54, 1263.	0.6	11
114	Prediction of nitrogen use in dairy cattle: a multivariate Bayesian approach. Animal Production Science, 2014, 54, 1918.	0.6	6
115	Improving the prediction of methane production and representation of rumen fermentation for finishing beef cattle within a mechanistic model. Canadian Journal of Animal Science, 2014, 94, 509-524.	0.7	9
116	Meta-analysis of relationships between enteric methane yield and milk fatty acid profile in dairy cattle. Journal of Dairy Science, 2014, 97, 7115-7132.	1.4	60
117	Stable isotopeâ€labelled feed nutrients to assess nutrientâ€specific feed passage kinetics in ruminants. Journal of the Science of Food and Agriculture, 2014, 94, 819-824.	1.7	12
118	Cost-effectiveness of feeding strategies to reduce greenhouse gas emissions from dairy farming. Journal of Dairy Science, 2014, 97, 2427-2439.	1.4	44
119	A dynamic mechanistic model of lactic acid metabolism in the rumen. Journal of Dairy Science, 2014, 97, 2398-2414.	1.4	12
120	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
121	Technical note: Evaluation of an ear-attached movement sensor to record cow feeding behavior and activity. Journal of Dairy Science, 2014, 97, 2974-2979.	1.4	118
122	Effects of phytase supplementation on phosphorus retention in broilers and layers: A meta-analysis. Poultry Science, 2014, 93, 1981-1992.	1.5	41
123	An isotope dilution model for partitioning phenylalanine and tyrosine uptake by the mammary gland of lactating dairy cows. Journal of Theoretical Biology, 2014, 359, 54-60.	0.8	13
124	Methods to determine the relative value of genetic traits in dairy cows to reduce greenhouse gas emissions along the chain. Journal of Dairy Science, 2014, 97, 5191-5205.	1.4	25
125	Bayesian analysis of energy balance data from growing cattle using parametric and non-parametric modelling. Animal Production Science, 2014, 54, 2068.	0.6	6
126	Variation in phosphorus content of milk from dairy cattle as affected by differences in milk composition. Journal of Agricultural Science, 2014, 152, 860-869.	0.6	9

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127	Passage kinetics of dry matter and neutral detergent fibre through the gastro-intestinal tract of growing beef heifers fed a high-concentrate diet measured with internal Î´13C and external markers. Animal Production Science, 2014, 54, 1471.	0.6	1
128	Comparison between stearoylâ€CoA desaturase expression in milk somatic cells and in mammary tissue of lactating dairy cows. Journal of Animal Physiology and Animal Nutrition, 2013, 97, 353-362.	1.0	9
129	Prediction of urinary nitrogen and urinary urea nitrogen excretion by lactating dairy cattle in northwestern Europe and North America: A meta-analysis. Journal of Dairy Science, 2013, 96, 4310-4322.	1.4	81
130	Passage kinetics of 13C-labeled corn silage components through the gastrointestinal tract of dairy cows. Journal of Dairy Science, 2013, 96, 5844-5858.	1.4	17
131	Interpreting experimental data on egg productionâ€"Applications of dynamic differential equations. Poultry Science, 2013, 92, 2498-2508.	1.5	0
132	Evaluation of a feeding strategy to reduce greenhouse gas emissions from dairy farming: The level of analysis matters. Agricultural Systems, 2013, 121, 9-22.	3.2	46
133	Interaction between dietary content of protein and sodium chloride on milk urea concentration, urinary urea excretion, renal recycling of urea, and urea transfer to the gastrointestinal tract in dairy cows. Journal of Dairy Science, 2013, 96, 5734-5745.	1.4	25
134	Diet effects on urine composition of cattle and N2O emissions. Animal, 2013, 7, 292-302.	1.3	265
135	Passage of stable isotope-labeled grass silage fiber and fiber-bound protein through the gastrointestinal tract of dairy cows. Journal of Dairy Science, 2013, 96, 7904-7917.	1.4	5
136	Concentrations of n-3 and n-6 fatty acids in Dutch bovine milk fat and their contribution to human dietary intake. Journal of Dairy Science, 2013, 96, 4173-4181.	1.4	21
137	Meta-analysis of factors that affect the utilization efficiency of phosphorus in lactating dairy cows. Journal of Dairy Science, 2013, 96, 3936-3949.	1.4	16
138	Anti-methanogenic effects of monensin in dairy and beef cattle: A meta-analysis. Journal of Dairy Science, 2013, 96, 5161-5173.	1.4	90
139	SPECIAL TOPICS â€" Mitigation of methane and nitrous oxide emissions from animal operations: III. A review of animal management mitigation options1. Journal of Animal Science, 2013, 91, 5095-5113.	0.2	165
140	SPECIAL TOPICS â€" Mitigation of methane and nitrous oxide emissions from animal operations: II. A review of manure management mitigation options1. Journal of Animal Science, 2013, 91, 5070-5094.	0.2	210
141	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
142	A review of factors influencing milk urea concentration and its relationship with urinary urea excretion in lactating dairy cattle. Journal of Agricultural Science, 2013, 151, 407-423.	0.6	93
143	Passage kinetics of concentrates in dairy cows measured with carbon stable isotopes. Animal, 2013, 7, 1935-1943.	1.3	6
144	Î´13C as a marker to study digesta passage kinetics in ruminants: a combined in vivo and in vitro study. Animal, 2013, 7, 754-767.	1.3	16

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145	A modified rinsing method for the determination of the S, Wâ€“S and D + U fraction of protein and starch in feedstuff within the in situ technique. Animal, 2013, 7, 1289-1297.	1.3	8
146	Effects of short- and long-chain fatty acids on the expression of stearoyl-CoA desaturase and other lipogenic genes in bovine mammary epithelial cells. Animal, 2013, 7, 1508-1516.	1.3	44
147	Technical options for the mitigation of direct methane and nitrous oxide emissions from livestock: a review. Animal, 2013, 7, 220-234.	1.3	247
148	Stable Isotope Labeled n-Alkanes to Assess Digesta Passage Kinetics through the Digestive Tract of Ruminants. PLoS ONE, 2013, 8, e75496.	1.1	6
149	Characterization of milk fatty acids based on genetic and herd parameters. Journal of Dairy Research, 2012, 79, 39-46.	0.7	33
150	Quantifying the effect of monensin dose on the rumen volatile fatty acid profile in high-grain-fed beef cattle1. Journal of Animal Science, 2012, 90, 2717-2726.	0.2	68
151	Dietary nitrate supplementation reduces methane emission in beef cattle fed sugarcane-based diets1. Journal of Animal Science, 2012, 90, 2317-2323.	0.2	121
152	Effects of different fat sources, technological forms and characteristics of the basal diet on milk fatty acid profile in lactating dairy cows â€“ a meta-analysis. Journal of Agricultural Science, 2012, 150, 495-517.	0.6	11
153	Modeling the distribution of ciliate protozoa in the reticulo-rumen using linear programming. Journal of Dairy Science, 2012, 95, 255-265.	1.4	12
154	Effect of high-sugar grasses on methane emissions simulated using a dynamic model. Journal of Dairy Science, 2012, 95, 272-285.	1.4	60
155	Effects of feeding different linseed sources on omasal fatty acid flows and fatty acid profiles of plasma and milk fat in lactating dairy cows. Journal of Dairy Science, 2012, 95, 3149-3165.	1.4	25
156	Sulphur levels in saliva as an estimation of sulphur status in cattle: a validation study. Archives of Animal Nutrition, 2012, 66, 507-513.	0.9	2
157	Ruminal pH regulation and nutritional consequences of low pH. Animal Feed Science and Technology, 2012, 172, 22-33.	1.1	230
158	Variation in rumen fermentation and the rumen wall during the transition period in dairy cows. Animal Feed Science and Technology, 2012, 172, 80-94.	1.1	47
159	Short communication: Assessing urea transport from milk to blood in dairy cows. Journal of Dairy Science, 2012, 95, 6536-6541.	1.4	7
160	Effect of sodium chloride intake on urine volume, urinary urea excretion, and milk urea concentration in lactating dairy cattle. Journal of Dairy Science, 2012, 95, 7288-7298.	1.4	47
161	Update of the Dutch protein evaluation system for ruminants: the DVE/OEB₂₀₁₀system. Journal of Agricultural Science, 2011, 149, 351-367.	0.6	122
162	Relationships between methane production and milk fatty acid profiles in dairy cattle. Animal Feed Science and Technology, 2011, 166-167, 590-595.	1.1	110

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163	A model of enteric fermentation in dairy cows to estimate methane emission for the Dutch National Inventory Report using the IPCC Tier 3 approach. Animal Feed Science and Technology, 2011, 166-167, 603-618.	1.1	91
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