Ermias Kebreab

List of Publications by Year in Descending Order

212 papers	6,658 citations	46 h-index	73 g-index
224 ext. papers	8,024 ext. citations	3.1 avg, IF	5.8 L-index

#	Paper	IF	Citations
212	Evaluating growth response of broiler chickens fed diets supplemented with synthetic DL-methionine or DL-hydroxy methionine: a meta-analysis.. *Poultry Science*, **2022**, 101, 101762	3.9	0
211	Enteric methane mitigation interventions.. *Translational Animal Science*, **2022**, 6, txac041	1.4	2
210	Prediction of enteric methane production and yield in dairy cattle using a Latin America and Caribbean database.. *Science of the Total Environment*, **2022**, 153982	10.2	1
209	Full adoption of the most effective strategies to mitigate methane emissions by ruminants can help meet the 1.5 ℃ target by 2030 but not 2050.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119, e2111294119	11.5	5
208	Cross-talk between NOTCH2 and BMP4/SMAD signaling pathways in bovine follicular granulosa cells.. *Theriogenology*, **2022**, 187, 74-81	2.8	0
207	Symposium review: Development of a funding program to support research on enteric methane mitigation from ruminants. *Journal of Dairy Science*, **2022**,	4	2
206	Red seaweed (Asparagopsis taxiformis) supplementation reduces enteric methane by over 80 percent in beef steers. *PLoS ONE*, **2021**, 16, e0247820	3.7	48
205	The Ruminant Farm Systems Animal Module: A Biophysical Description of Animal Management. *Animals*, **2021**, 11,	3.1	2
204	Livestock sustainability research in Africa with a focus on the environment. *Animal Frontiers*, **2021**, 11, 47-56	5.5	3
203	Quantitative joint evaluation of sheep enteric methane emissions and faecal dry matter and nitrogen excretion. *Agriculture, Ecosystems and Environment*, **2021**, 305, 107116	5.7	0
202	Assessing the multiple resource use associated with pig feed consumption in the European Union. *Science of the Total Environment*, **2021**, 759, 144306	10.2	9
201	Effects of red macroalgae supplementation on the shelf life of fresh whole muscle beef. *Translational Animal Science*, **2021**, 5, txab056	1.4	0
200	Inhibited Methanogenesis in the Rumen of Cattle: Microbial Metabolism in Response to Supplemental 3-Nitrooxypropanol and Nitrate. *Frontiers in Microbiology*, **2021**, 12, 705613	5.7	1
199	Current state of enteric methane and the carbon footprint of beef and dairy cattle in the United States. *Animal Frontiers*, **2021**, 11, 57-68	5.5	6
198	A life cycle assessment of the environmental impacts of cattle feedlot finishing rations. *International Journal of Life Cycle Assessment*, **2021**, 26, 1779-1793	4.6	1
197	Effects of Notch2 on proliferation, apoptosis and steroidogenesis in bovine luteinized granulosa cells. *Theriogenology*, **2021**, 171, 55-63	2.8	2
196	A mechanistic thermal balance model of dairy cattle. *Biosystems Engineering*, **2021**, 209, 256-270	4.8	0

195	Maintenance energy requirement and efficiency of utilisation of metabolisable energy for milk production of Bos taurus □Bos indicus crossbred tropical dairy cows: a meta-analysis. *Animal Production Science*, **2021**, 61, 1338	1.4	
194	Feed additives as a strategic approach to reduce enteric methane production in cattle: modes of action, effectiveness and safety. *Animal Production Science*, **2021**,	1.4	19
193	A life cycle analysis (LCA) primer for the agricultural community. *Agronomy Journal*, **2020**, 112, 3788-3807	2.2	10
192	Improving adoption of technologies and interventions for increasing supply of quality livestock feed in low- and middle-income countries. *Global Food Security*, **2020**, 26, 100372	8.3	15
191	Potential to reduce greenhouse gas emissions through different dairy cattle systems in subtropical regions. *PLoS ONE*, **2020**, 15, e0234687	3.7	6
190	Genotype effects on energy and protein requirements in growing male goats. *Animal*, **2020**, 14, s323-s331	3.1	
189	Greenhouse gas, water, and land footprint per unit of production of the California dairy industry over 50 years. *Journal of Dairy Science*, **2020**, 103, 3760-3773	4	12
188	H NMR-based metabolomics study of breast meat from Pekin and Linwu duck of different ages and relation to meat quality. *Food Research International*, **2020**, 133, 109126	7	10
187	MILK Symposium review: Sustainability of dairy production and consumption in low-income countries with emphasis on productivity and environmental impact. *Journal of Dairy Science*, **2020**, 103, 9791-9802	4	12
186	Effects of FOXO1 on the proliferation and cell cycle-, apoptosis- and steroidogenesis-related genes expression in sheep granulosa cells. *Animal Reproduction Science*, **2020**, 221, 106604	2.1	3
185	Antimethanogenic effects of nitrate supplementation in cattle: A meta-analysis. *Journal of Dairy Science*, **2020**, 103, 11375-11385	4	6
184	Net reductions in greenhouse gas emissions from feed additive use in California dairy cattle. *PLoS ONE*, **2020**, 15, e0234289	3.7	1
183	Key Considerations for the Use of Seaweed to Reduce Enteric Methane Emissions From Cattle. *Frontiers in Veterinary Science*, **2020**, 7, 597430	3.1	17
182	Effect of Mootral-a garlic- and citrus-extract-based feed additive-on enteric methane emissions in feedlot cattle. *Translational Animal Science*, **2019**, 3, 1383-1388	1.4	11
181	Beef production simulation of nitrate and lipid supplements for pasture and rangeland fed enterprises. *Agricultural Systems*, **2019**, 170, 19-27	6.1	
180	Prediction of enteric methane production, yield and intensity of beef cattle using an intercontinental database. *Agriculture, Ecosystems and Environment*, **2019**, 283, 106575	5.7	25
179	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	3	9
178	Inclusion of Asparagopsis armata in lactating dairy cows□diet reduces enteric methane emission by over 50 percent. *Journal of Cleaner Production*, **2019**, 234, 132-138	10.3	71

177	Effects of dietary grape seed polyphenols supplementation during late gestation and lactation on antioxidant status in serum and immunoglobulin content in colostrum of multiparous sows1. *Journal of Animal Science*, **2019**, 97, 2515-2523	0.7	9
176	A new modeling environment for integrated dairy system management. *Animal Frontiers*, **2019**, 9, 25-32	5.5	7
175	Exogenous β-mannanase supplementation improved immunological and metabolic responses in lactating dairy cows. *Journal of Dairy Science*, **2019**, 102, 4198-4204	4	1
174	Phosphorus utilization in broilers fed with diets supplemented with different feed ingredients. *Scientia Agricola*, **2019**, 76, 18-23	2.5	1
173	Individual milk fatty acids are potential predictors of enteric methane emissions from dairy cows fed a wide range of diets: Approach by meta-analysis. *Journal of Dairy Science*, **2019**, 102, 10616-10631	4	8
172	Carbon and blue water footprints of California sheep production. *Journal of Animal Science*, **2019**, 97, 945-961	0.7	10
171	Prediction of enteric methane production, yield, and intensity in dairy cattle using an intercontinental database. *Global Change Biology*, **2018**, 24, 3368-3389	11.4	92
170	Land-use change emissions from soybean feed embodied in Brazilian pork and poultry meat. *Journal of Cleaner Production*, **2018**, 172, 2646-2654	10.3	22
169	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	4	43
168	Animal nutrition strategies to reduce greenhouse gas emissions in dairy cattle. *Acta Universitaria*, **2018**, 28, 34-41	1	2
167	Partitioning the efficiency of utilization of amino acids in growing broilers: Multiple linear regression and multivariate approaches. *PLoS ONE*, **2018**, 13, e0208488	3.7	6
166	Ammonia Emissions from Dairy Lagoons in the Western U.S.. *Transactions of the ASABE*, **2018**, 61, 1001-1015	0.9	4
165	Social and ecological analysis of commercial integrated crop livestock systems: Current knowledge and remaining uncertainty. *Agricultural Systems*, **2017**, 155, 136-146	6.1	60
164	Methane emissions from dairy lagoons in the western United States. *Journal of Dairy Science*, **2017**, 100, 6785-6803	4	15
163	Effects of diet and manure storage method on carbon and nitrogen dynamics during storage and plant nitrogen uptake. *Agriculture, Ecosystems and Environment*, **2017**, 250, 51-58	5.7	3
162	Estimating the energetic cost of feeding excess dietary nitrogen to dairy cows. *Journal of Dairy Science*, **2017**, 100, 7116-7126	4	27
161	Relationships between postruminal casein infusion and milk production, and concentrations of plasma amino acids and blood urea in dairy cows: A multilevel mixed-effects meta-analysis. *Journal of Dairy Science*, **2017**, 100, 8053-8071	4	18
160	Effect of dietary phytase supplementation on greenhouse gas emissions from soil after swine manure application. *Journal of Cleaner Production*, **2017**, 166, 1122-1130	10.3	9

159	Exogenous β-mannanase improves feed conversion efficiency and reduces somatic cell count in dairy cattle. *Journal of Dairy Science*, **2017**, 100, 244-252	4	10
158	Review of research to inform California's climate scoping plan: Agriculture and working lands. *California Agriculture*, **2017**, 71, 160-168	1.1	3
157	Phosphorus Utilization in Animal Agriculture **2017**, 123-131		
156	Methane and nitrous oxide emissions from Canadian dairy farms and mitigation options: An updated review. *Canadian Journal of Animal Science*, **2016**, 96, 306-331	0.9	25
155	Impacts of dietary forage and crude protein levels on the shedding of Escherichia coli O157:H7 and Listeria in dairy cattle feces. *Livestock Science*, **2016**, 194, 17-22	1.7	7
154	Mitigation of enteric methane emissions from global livestock systems through nutrition strategies. *Climatic Change*, **2016**, 137, 467-480	4.5	28
153	Short communication: Evaluation of nitrogen excretion equations from cattle. *Journal of Dairy Science*, **2016**, 99, 7669-7678	4	16
152	Technical note: Bayesian calibration of dynamic ruminant nutrition models. *Journal of Dairy Science*, **2016**, 99, 6362-6370	4	5
151	Review of current in vivo measurement techniques for quantifying enteric methane emission from ruminants. *Animal Feed Science and Technology*, **2016**, 219, 13-30	3	80
150	Prediction of drinking water intake by dairy cows. *Journal of Dairy Science*, **2016**, 99, 7191-7205	4	19
149	Models for predicting enteric methane emissions from dairy cows in North America, Europe, and Australia and New Zealand. *Global Change Biology*, **2016**, 22, 3039-56	11.4	61
148	Design, implementation and interpretation of in vitro batch culture experiments to assess enteric methane mitigation in ruminants□ review. *Animal Feed Science and Technology*, **2016**, 216, 1-18	3	69
147	Casein infusion rate influences feed intake differently depending on metabolizable protein balance in dairy cows: A multilevel meta-analysis. *Journal of Dairy Science*, **2016**, 99, 2748-2761	4	11
146	Prediction of phosphorus output in manure and milk by lactating dairy cows. *Journal of Dairy Science*, **2016**, 99, 771-82	4	9
145	Effect of calving interval and parity on milk yield per feeding day in Danish commercial dairy herds. *Journal of Dairy Science*, **2016**, 99, 621-33	4	15
144	Nutritional and Environmental Effects on Ammonia Emissions from Dairy Cattle Housing: A Meta-Analysis. *Journal of Environmental Quality*, **2016**, 45, 1123-32	3.4	20
143	Thermodynamic Driving Force of Hydrogen on Rumen Microbial Metabolism: A Theoretical Investigation. *PLoS ONE*, **2016**, 11, e0161362	3.7	29
142	Environmental impact of using specialty feed ingredients in swine and poultry production: A life cycle assessment. *Journal of Animal Science*, **2016**, 94, 2664-81	0.7	49

141	Prediction and evaluation of enteric methane emissions from lactating dairy cows using different levels of covariate information. *Animal Production Science*, **2016**, 56, 557	1.4	10
140	Effect of dietary crude protein and forage contents on enteric methane emissions and nitrogen excretion from dairy cows simultaneously. *Animal Production Science*, **2016**, 56, 312	1.4	25
139	Evaluation of greenhouse gas emissions from hog manure application in a Canadian cow□alf production system using whole-farm models. *Animal Production Science*, **2016**, 56, 1722	1.4	3
138	On the analysis of Canadian Holstein dairy cow lactation curves using standard growth functions. *Journal of Dairy Science*, **2015**, 98, 2701-12	4	20
137	Predicting nitrogen excretion from cattle. *Journal of Dairy Science*, **2015**, 98, 3025-35	4	35
136	Estimating enteric methane emissions from Chilean beef fattening systems using a mechanistic model. *Journal of Agricultural Science*, **2015**, 153, 114-123	1	1
135	Impact of nutrition and salinity changes on biological performances of green and white sturgeon. *PLoS ONE*, **2015**, 10, e0122029	3.7	9
134	Determination of protein and amino acid requirements of lactating sows using a population-based factorial approach. *Animal*, **2015**, 9, 1319-28	3.1	9
133	Modeling Greenhouse Gas Emissions from Enteric Fermentation. *Advances in Agricultural Systems Modeling*, **2015**, 173-195	0.3	4
132	A dynamic growth model for prediction of nutrient partitioning and manure production in growing-finishing pigs: Model development and evaluation. *Journal of Animal Science*, **2015**, 93, 1061-73	0.7	0
131	Multivariate and univariate analysis of energy balance data from lactating dairy cows. *Journal of Dairy Science*, **2015**, 98, 4012-29	4	40
130	Modeling the trade-off between diet costs and methane emissions: A goal programming approach. *Journal of Dairy Science*, **2015**, 98, 5557-71	4	22
129	Quantifying body water kinetics and fecal and urinary water output from lactating Holstein dairy cows. *Journal of Dairy Science*, **2014**, 97, 6177-95	4	19
128	Climate-smart agriculture global research agenda: scientific basis for action. *Agriculture and Food Security*, **2014**, 3,	3.1	121
127	Energy and nutrient deposition and excretion in the reproducing sow: model development and evaluation. *Journal of Animal Science*, **2014**, 92, 2458-72	0.7	13
126	Effects of phytase supplementation on phosphorus retention in broilers and layers: a meta-analysis. *Poultry Science*, **2014**, 93, 1981-92	3.9	30
125	Bayesian analysis of energy balance data from growing cattle using parametric and non-parametric modelling. *Animal Production Science*, **2014**, 54, 2068	1.4	5
124	Effects of diet and exercise interventions on diabetes risk factors in adults without diabetes: meta-analyses of controlled trials. *Diabetology and Metabolic Syndrome*, **2014**, 6, 127	5.6	10

123	Development of mathematical models to predict volume and nutrient composition of fresh manure from lactating Holstein cows. *Animal Production Science*, **2014**, 54, 1927	1.4	9
122	Nitrous Oxide Emissions from a Clay Soil Receiving Granular Urea Formulations and Dairy Manure. *Agronomy Journal*, **2014**, 106, 732-744	2.2	51
121	Livestock methane emissions in the United States. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E1320	11.5	16
120	Prediction of nitrogen use in dairy cattle: a multivariate Bayesian approach. *Animal Production Science*, **2014**, 54, 1918	1.4	4
119	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	0.9	8
118	Prediction of enteric methane emissions from cattle. *Global Change Biology*, **2014**, 20, 2140-8	11.4	93
117	Interpreting experimental data on egg production--applications of dynamic differential equations. *Poultry Science*, **2013**, 92, 2498-508	3.9	
116	Invited review: Sustainability of the US dairy industry. *Journal of Dairy Science*, **2013**, 96, 5405-25	4	128
115	Meta-analysis of factors that affect the utilization efficiency of phosphorus in lactating dairy cows. *Journal of Dairy Science*, **2013**, 96, 3936-49	4	12
114	A mathematical model for determining age-specific diabetes incidence and prevalence using body mass index. *Annals of Epidemiology*, **2013**, 23, 248-54	6.4	9
113	Anti-methanogenic effects of monensin in dairy and beef cattle: a meta-analysis. *Journal of Dairy Science*, **2013**, 96, 5161-73	4	61
112	Special topics--Mitigation of methane and nitrous oxide emissions from animal operations: III. A review of animal management mitigation options. *Journal of Animal Science*, **2013**, 91, 5095-113	0.7	106
111	Special topics--Mitigation of methane and nitrous oxide emissions from animal operations: I. A review of enteric methane mitigation options. *Journal of Animal Science*, **2013**, 91, 5045-69	0.7	456
110	Feed management practices to reduce manure phosphorus excretion in dairy cattle. *Advances in Animal Biosciences*, **2013**, 4, 37-41	0.3	10
109	Technical options for the mitigation of direct methane and nitrous oxide emissions from livestock: a review. *Animal*, **2013**, 7 Suppl 2, 220-34	3.1	154
108	Calcium and phosphorus utilization in growing sheep supplemented with dicalcium phosphate. *Journal of Agricultural Science*, **2013**, 151, 424-433	1	4
107	Germination Ecophysiology **2013**, 195-219		6
106	Effect of high-sugar grasses on methane emissions simulated using a dynamic model. *Journal of Dairy Science*, **2012**, 95, 272-85	4	42

105	Ruminal pH regulation and nutritional consequences of low pH. *Animal Feed Science and Technology* , **2012**, 172, 22-33	3	170
104	Animal production for efficient phosphate utilization: from optimized feed to high efficiency livestock. *Current Opinion in Biotechnology*, **2012**, 23, 872-7	11.4	52
103	Technological innovations in animal production related to environmental sustainability. *Revista Brasileira De Saude E Producao Animal*, **2012**, 13, 923-937	0.8	
102	Predicting milk yield and composition in lactating sows: a Bayesian approach. *Journal of Animal Science*, **2012**, 90, 2285-98	0.7	77
101	Application of the law of diminishing returns to partitioning metabolizable energy and crude protein intake between maintenance and growth in egg-type pullets. *Journal of Applied Poultry Research*, **2012**, 21, 540-547	2	5
100	Quantifying the effect of monensin dose on the rumen volatile fatty acid profile in high-grain-fed beef cattle. *Journal of Animal Science*, **2012**, 90, 2717-26	0.7	51
99	Bayesian simultaneous equation models for the analysis of energy intake and partitioning in growing pigs. *Journal of Agricultural Science*, **2012**, 150, 764-774	1	6
98	Bioperformance evaluation of various summer pasture and winter feeding strategies for cow-calf production. *Canadian Journal of Animal Science*, **2012**, 92, 89-102	0.9	7
97	Agroecology: A Review from a Global-Change Perspective. *Annual Review of Environment and Resources*, **2011**, 36, 193-222	17.2	152
96	Rumen stoichiometric models and their contribution and challenges in predicting enteric methane production. *Animal Feed Science and Technology*, **2011**, 166-167, 761-778	3	46
95	Predictions of enteric methane emissions for various summer pasture and winter feeding strategies for cow calf production. *Animal Feed Science and Technology*, **2011**, 166-167, 678-687	3	11
94	A Bayesian approach to analyze energy balance data from lactating dairy cows. *Journal of Dairy Science*, **2011**, 94, 2520-31	4	11
93	Evaluation of models to predict the stoichiometry of volatile fatty acid profiles in rumen fluid of lactating Holstein cows. *Journal of Dairy Science*, **2011**, 94, 3063-80	4	50
92	The effect of high-sugar grass on predicted nitrogen excretion and milk yield simulated using a dynamic model. *Journal of Dairy Science*, **2011**, 94, 3105-18	4	29
91	Short communication: effects of supplementation with pomegranate seed pulp on concentrations of conjugated linoleic acid and punicic acid in goat milk. *Journal of Dairy Science*, **2011**, 94, 4075-80	4	38
90	Modeling the efficiency of phosphorus utilization in growing pigs. *Journal of Animal Science*, **2011**, 89, 2774-81	0.7	7
89	Application of the law of diminishing returns for partitioning metabolizable energy and crude protein intake between maintenance and growth in growing male and female broiler breeder pullets. *Journal of Agricultural Science*, **2011**, 149, 385-394	1	8
88	Estimation of enteric methane emissions trends (1990–2008) from Manitoba beef cattle using empirical and mechanistic models. *Canadian Journal of Animal Science*, **2011**, 91, 305-321	0.9	11

87	Beneficial management practices and mitigation of greenhouse gas emissions in the agriculture of the Canadian Prairie: a review. *Agronomy for Sustainable Development*, **2011**, 31, 433-451	6.8	36
86	Calcium and phosphorus dynamics in commercial laying hens housed in conventional or enriched cage systems. *Poultry Science*, **2011**, 90, 2383-96	3.9	25
85	An extended model of phosphorus metabolism in growing ruminants. *Journal of Animal Science*, **2011**, 89, 4151-62	0.7	3
84	Feedlot efficiency implications on greenhouse gas emissions and sustainability. *Journal of Animal Science*, **2011**, 89, 2643-56	0.7	37
83	Production performance and nitrogen flow of Shaver White layers housed in enriched or conventional cage systems. *Poultry Science*, **2011**, 90, 543-54	3.9	15
82	Estimating digestible methionine requirements for laying hens using multivariate nonlinear mixed effect models. *Poultry Science*, **2011**, 90, 1496-507	3.9	13
81	Evaluation of enteric methane prediction equations for dairy cows used in whole farm models. *Global Change Biology*, **2010**, 16, 3246-3256	11.4	90
80	A multivariate nonlinear mixed effects method for analyzing energy partitioning in growing pigs. *Journal of Animal Science*, **2010**, 88, 2361-72	0.7	13
79	A multilevel nonlinear mixed-effects approach to model growth in pigs. *Journal of Animal Science*, **2010**, 88, 638-49	0.7	43
78	Flexible alternatives to the Gompertz equation for describing growth with age in turkey hens. *Poultry Science*, **2010**, 89, 371-8	3.9	28
77	A review of mathematical functions for the analysis of growth in poultry. *World's Poultry Science Journal*, **2010**, 66, 227-240	3	38
76	Evaluation of a mechanistic lactation model using cow, goat and sheep data. *Journal of Agricultural Science*, **2010**, 148, 249-262	1	13
75	Application of a kinetic model to describe phosphorus metabolism in pigs fed a diet with a microbial phytase. *Journal of Agricultural Science*, **2010**, 148, 277-286	1	6
74	Simulating the effects of grassland management and grass ensiling on methane emission from lactating cows. *Journal of Agricultural Science*, **2010**, 148, 55-72	1	37
73	A mechanistic model for simulating methane emissions from unstirred liquid manure storages. *Canadian Journal of Soil Science*, **2010**, 90, 507-516	1.4	3
72	Impact of dietary manipulation on nutrient flows and greenhouse gas emissions in cattle. *Revista Brasileira De Zootecnia*, **2010**, 39, 458-464	1.2	11
71	Modeling methane production from beef cattle using linear and nonlinear approaches. *Journal of Animal Science*, **2009**, 87, 1334-45	0.7	62
70	Cranial dimensions and forces of biting in the domestic dog. *Journal of Anatomy*, **2009**, 214, 362-73	2.9	64

69	Estimating the Energetic Contribution of Polar Bear (Ursus maritimus) Summer Diets to the Total Energy Budget. *Journal of Mammalogy*, **2009**, 90, 585-593	1.8	27
68	Development and evaluation of a dynamic model of calcium and phosphorus flows in layers. *Poultry Science*, **2009**, 88, 680-9	3.9	28
67	Rumen phosphorus metabolism in sheep. *Journal of Agricultural Science*, **2009**, 147, 391-398	1	6
66	Application of the law of diminishing returns to estimate maintenance requirement for amino acids and their efficiency of utilization for accretion in young chicks. *Journal of Agricultural Science*, **2009**, 147, 383-390	1	8
65	Impairments in pyridoxine-dependent sulphur amino acid metabolism are highly sensitive to the degree of vitamin B6 deficiency and repletion in the pig. *Animal*, **2009**, 3, 826-37	3.1	17
64	A model on biological flow of phosphorus in growing pigs. *Arquivo Brasileiro De Medicina Veterinaria E Zootecnia*, **2009**, 61, 691-697	0.3	8
63	Calibration of estimated biting forces in domestic canids: comparison of post-mortem and in vivo measurements. *Journal of Anatomy*, **2008**, 212, 769-80	2.9	54
62	Aspects of rumen microbiology central to mechanistic modelling of methane production in cattle. *Journal of Agricultural Science*, **2008**, 146, 213-233	1	142
61	Effect of heat processing on ruminal degradability and intestinal disappearance of nitrogen and amino acids in Iranian whole soybean. *Livestock Science*, **2008**, 113, 43-51	1.7	21
60	Modelling the implications of feeding strategy on rumen fermentation and functioning of the rumen wall. *Animal Feed Science and Technology*, **2008**, 143, 3-26	3	139
59	Application and comparison of two models to study effects of calcium sources in sheep. *Animal Feed Science and Technology*, **2008**, 143, 89-103	3	3
58	Comparison of energy evaluation systems and a mechanistic model for milk production by dairy cattle offered fresh grass-based diets. *Animal Feed Science and Technology*, **2008**, 143, 203-219	3	13
57	A comparison of the Schumacher with other functions for describing growth in pigs. *Animal Feed Science and Technology*, **2008**, 143, 314-327	3	17
56	Effects of different levels of an enzyme mixture on in vitro gas production parameters of contrasting forages. *Animal Feed Science and Technology*, **2008**, 146, 289-301	3	24
55	Phosphorus utilization and environmental and economic implications of reducing phosphorus pollution from Ontario dairy cows. *Journal of Dairy Science*, **2008**, 91, 241-6	4	13
54	Ruminal temperature may aid in the detection of subacute ruminal acidosis. *Journal of Dairy Science* , **2008**, 91, 202-7	4	57
53	A model of phosphorus digestion and metabolism in the lactating dairy cow. *Journal of Dairy Science*, **2008**, 91, 2021-32	4	23
52	Modelling the lactation curve of dairy cows using the differentials of growth functions. *Journal of Agricultural Science*, **2008**, 146, 633-641	1	19

51	Farming systems methodology for efficient resource management at the farm level: a review from an Indian perspective. *Journal of Agricultural Science*, **2008**, 146, 493-505	1	11
50	A comparative evaluation of functions for partitioning nitrogen and amino acid intake between maintenance and growth in broilers. *Journal of Agricultural Science*, **2008**, 146, 163-170	1	12
49	Model for estimating enteric methane emissions from United States dairy and feedlot cattle. *Journal of Animal Science*, **2008**, 86, 2738-48	0.7	109
48	Comparative evaluation of mathematical functions to describe growth and efficiency of phosphorus utilization in growing pigs. *Journal of Animal Science*, **2007**, 85, 2498-507	0.7	28
47	Meta-analysis of phosphorus balance data from growing pigs. *Journal of Animal Science*, **2007**, 85, 1953-61	0.7	19
46	Past peak lactational performance of Iranian Holstein cows fed raw or roasted whole soybeans. *Canadian Journal of Animal Science*, **2007**, 87, 441-447	0.9	2
45	Long-term effects of feeding diets without mineral phosphorus supplementation on the performance and phosphorus excretion in high-yielding dairy cows. *Canadian Journal of Animal Science*, **2007**, 87, 639-646	0.9	9
44	Predicting the profile of nutrients available for absorption: from nutrient requirement to animal response and environmental impact. *Animal*, **2007**, 1, 99-111	3.1	52
43	Phosphorus kinetics in lambs fed different levels of dicalcium phosphate. *Journal of Agricultural Science*, **2007**, 145, 509-516	1	7
42	Effect of raw or roasted whole soybeans on early lactational performance and ruminal and blood metabolites in Iranian cows. *Journal of Agricultural Science*, **2007**, 145, 529-537	1	3
41	Some methodological and analytical considerations regarding application of the gas production technique. *Animal Feed Science and Technology*, **2007**, 135, 139-156	3	57
40	A mathematical approach to predicting biological values from ruminal pH measurements. *Journal of Dairy Science*, **2007**, 90, 3777-85	4	43
39	Effect of supplementing myristic acid in dairy cow rations on ruminal methanogenesis and fatty acid profile in milk. *Journal of Dairy Science*, **2007**, 90, 1851-8	4	64
38	Prediction of methane production from dairy and beef cattle. *Journal of Dairy Science*, **2007**, 90, 3456-66	4	233
37	Long-term effects of feeding monensin on methane production in lactating dairy cows. *Journal of Dairy Science*, **2007**, 90, 1781-8	4	101
36	Long-term effects of feeding monensin on milk fatty acid composition in lactating dairy cows. *Journal of Dairy Science*, **2007**, 90, 5126-33	4	19
35	Methane and nitrous oxide emissions from Canadian animal agriculture: A review. *Canadian Journal of Animal Science*, **2006**, 86, 135-157	0.9	147
34	Modeling small-scale dairy farms in central Mexico using multi-criteria programming. *Journal of Dairy Science*, **2006**, 89, 1662-72	4	17

33	Evaluation of models to describe ruminal degradation kinetics from in situ ruminal incubation of whole soybeans. *Journal of Dairy Science*, **2006**, 89, 3087-95	4	10
32	A revised model for studying phosphorus and calcium kinetics in growing sheep. *Journal of Animal Science*, **2006**, 84, 2787-94	0.7	19
31	Estimation of the stoichiometry of volatile fatty acid production in the rumen of lactating cows. *Journal of Theoretical Biology*, **2006**, 238, 36-51	2.3	129
30	A general compartmental model for interpreting gas production profiles. *Animal Feed Science and Technology*, **2005**, 123-124, 473-485	3	14
29	Application of the gas production technique to feed evaluation systems for ruminants. *Animal Feed Science and Technology*, **2005**, 123-124, 561-578	3	54
28	Simulation of milk production by dairy cows fed sugarcane top-based diets with locally available supplements under Indian conditions. *Journal of Agricultural Science*, **2005**, 143, 217-229	1	3
27	Effects of phosphorus intake on phosphorus flow in growing pigs: application and comparison of two models. *Journal of Theoretical Biology*, **2005**, 236, 115-25	2.3	3
26	Effects of contrasting forage diets on phosphorus utilisation in lactating dairy cows. *Livestock Science*, **2005**, 93, 125-135		15
25	Potential Cost and Environmental Impact of Feeding High-Oil Corn to Poultry in Brazil. *Journal of Applied Poultry Research*, **2005**, 14, 463-475	2	3
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