Tommy M Boland

List of Publications by Year
in descending order

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104	2,861	212478	232693
papers	citations	28 h-index	48 g-index

108	108	108	2199
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	How does maternal genetic merit and country of origin impact lamb performance pre- and post-weaning?. Small Ruminant Research, 2022, 209, 106642.	0.6	3
2	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
3	Effect of Supplementing Grass Silage-Based Diets with Concentrate Carbohydrate Sources with Different Fermentation Profiles on N Metabolism of Beef Heifers Fed to Maintenance. Ruminants, 2022, 2, 188-200.	0.4	0
4	Effect of Chitosan Inclusion and Dietary Crude Protein Level on Nutrient Intake and Digestibility, Ruminal Fermentation, and N Excretion in Beef Heifers Offered a Grass Silage Based Diet. Animals, 2021, 11, 771.	1.0	13
5	The impact of maternal genetic merit and country of origin on ewe reproductive performance, lambing performance and ewe survival. Translational Animal Science, 2021, 5, txab070.	0.4	7
6	Investigation of intra-day variability of gaseous measurements in sheep using portable accumulation chambers. Journal of Animal Science, 2021, 99, .	0.2	6
7	Dry Matter Intake and In Vivo Digestibility of Grass-Only and Grass-White Clover in Individually Housed Sheep in Spring, Summer and Autumn. Animals, 2021, 11, 306.	1.0	6
8	Repeatability of gaseous measurements across consecutive days in sheep using Portable accumulation chambers. Journal of Animal Science, 2021, 99, .	0.2	4
9	The impact of genetic merit on ewe performance and efficiency parameters. Journal of Animal Science, 2021, 99, .	0.2	2
10	Taking the steps toward sustainable livestock: our multidisciplinary global farm platform journey. Animal Frontiers, 2021, 11, 52-58.	0.8	10
11	Replacing Barley and Soybean Meal With By-products, in a Pasture Based Diet, Alters Daily Methane Output and the Rumen Microbial Community in vitro Using the Rumen Simulation Technique (RUSITEC). Frontiers in Microbiology, 2020, 11, 1614.	1.5	8
12	Examining the Effects of Whole Crop Wheat Silage on Ewe Performance during Late Gestation Compared to Traditional Grass Silage across Three Prolific Breed Types. Animals, 2020, 10, 1554.	1.0	3
13	Feed Intake, Methane Emissions, Milk Production and Rumen Methanogen Populations of Grazing Dairy Cows Supplemented with Various C 18 Fatty Acid Sources. Animals, 2020, 10, 2380.	1.0	9
14	The effect of grazing versus cutting on dry matter production of multispecies and perennial ryegrassâ€•only swards. Grass and Forage Science, 2019, 74, 437-449.	1.2	15
15	An investigation into the factors associated with ewe colostrum production. Small Ruminant Research, 2019, 178, 55-62.	0.6	10
16	Predicting the dry matter intake of grazing dairy cows using infrared reflectance spectroscopy analysis. Journal of Dairy Science, 2019, 102, 8907-8918.	1.4	28
17	The effect of spring grass availability and grazing rotation length on the production and quality of herbage and milk in early spring. Journal of Agricultural Science, 2019, 157, 434-448.	0.6	11
18	Effects of fertiliser nitrogen rate to spring grass on apparent digestibility, nitrogen balance, ruminal fermentation and microbial nitrogen production in beef cattle and in vitro rumen fermentation and methane output. Animal Feed Science and Technology, 2019, 254, 114198.	1.1	10

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19	Digestion and nitrogen metabolism in beef cattle and in vitro rumen fermentation of autumn grass differing in fertilizer nitrogen application rate. Grass and Forage Science, 2019, 74, 535-547.	1.2	5
20	164 The effect of grass silage compared to whole crop wheat silage on colostrum yield, lamb birth weight and ewe performance during late gestation. Journal of Animal Science, 2019, 97, 172-173.	0.2	0
21	206 Quantifying the effect of phenotypic factors on pedigree lamb performance using the Irish national database; Sheep Ireland. Journal of Animal Science, 2019, 97, 38-39.	0.2	0
22	413 Effect of chitosan inclusion and dietary crude protein level on rumen fermentation in beef heifers fed a total mixed ration. Journal of Animal Science, 2019, 97, 166-167.	0.2	0
23	The effect of by-product inclusion and concentrate feeding rate on milk production and composition, pasture dry matter intake, and nitrogen excretion of mid-late lactation spring-calving cows grazing a perennial ryegrass-based pasture. Journal of Dairy Science, 2019, 102, 1247-1256.	1.4	8
24	Pasture allowance, duration, and stage of lactationâ€"Effects on early and total lactation animal performance. Journal of Dairy Science, 2019, 102, 8986-8998.	1.4	5
25	Symposium review: Uncertainties in enteric methane inventories, measurement techniques, and prediction models. Journal of Dairy Science, 2018, 101, 6655-6674.	1.4	103
26	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
27	Evaluation of the effects of ewe prolificacy potential and stocking rate on herbage production, utilization, quality and sward morphology in a temperate grazing system. Grass and Forage Science, 2018, 73, 247-256.	1.2	11
28	Effects of harvesting perennial ryegrass at different levels of herbage mass on voluntary intake and inÂvivo digestibility in sheep. Grass and Forage Science, 2018, 73, 553-561.	1.2	10
29	Assessment of RNA Stability in Postmortem Tissue from New-Born Lambs. Animal Biotechnology, 2018, 29, 269-275.	0.7	3
30	The effect of increasing pasture species on herbage production, chemical composition and utilization under intensive sheep grazing. Grass and Forage Science, 2018, 73, 852-864.	1.2	27
31	Effects of autumn and spring defoliation management on the dryâ€matter yield and herbage quality of perennial ryegrass swards throughout the year. Grass and Forage Science, 2017, 72, 38-49.	1.2	17
32	The effect of by-product inclusion level on milk production, nutrient digestibility and excretion, and rumen fermentation parameters in lactating dairy cows offered a pasture-based diet. Journal of Dairy Science, 2017, 100, 1055-1062.	1.4	17
33	A survey of management practices and flock performance and their association with flock size and ewe breed type on Irish sheep farms. Journal of Agricultural Science, 2017, 155, 1332-1341.	0.6	17
34	Impact of concentrate supplementation during early lactation on the performance of grass fed, twin suckling ewes and their progeny. Livestock Science, 2017, 202, 150-158.	0.6	5
35	Linseed Oil Supplementation of Lambsâ€™ Diet in Early Life Leads to Persistent Changes in Rumen Microbiome Structure. Frontiers in Microbiology, 2017, 8, 1656.	1.5	49
36	Comparison of energy rationing systems for late gestation ewes: Impacts on ewe and lamb performance1. Journal of Animal Science, 2016, 94, 3441-3456.	0.2	17

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37	Iodine supplementation of the pregnant dam alters intestinal gene expression and immunoglobulin uptake in the newborn lamb. Animal, 2016, 10, 598-606.	1.3	8
38	An examination of two concentrate allocation strategies which are based on the early lactation milk yield of autumn calving Holstein Friesian cows. Animal, 2016, 10, 796-804.	1.3	3
39	Description and validation of the Teagasc Lamb Production Model. Agricultural Systems, 2016, 148, 124-134.	3.2	24
40	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
41	Using post-grazing sward height to impose dietary restrictions of varying duration in early lactation: its effects on spring-calving dairy cow production. Animal, 2015, 9, 592-603.	1.3	5
42	Altering ewe nutrition in late gestation: II. The impact on fetal development and offspring performance1. Journal of Animal Science, 2015, 93, 4873-4882.	0.2	19
43	Altering ewe nutrition in late gestation: I. The impact on pre- and postpartum ewe performance1. Journal of Animal Science, 2015, 93, 4860-4872.	0.2	26
44	A comparison of two enzymatic in vitro methods to predict in vivo organic matter digestibility of perennial ryegrass. Livestock Science, 2015, 177, 33-42.	0.6	4
45	The effect of concentrate feeding amount and feeding strategy on milk production, dry matter intake, and energy partitioning of autumn-calving Holstein-Friesian cows. Journal of Dairy Science, 2015, 98, 338-348.	1.4	21
46	Does postâ€grazing sward height influence sward characteristics, seasonal herbage dryâ€matter production and herbage quality?. Grass and Forage Science, 2015, 70, 130-143.	1.2	11
47	The variation in morphology of perennial ryegrass cultivars throughout the grazing season and effects on organic matter digestibility. Grass and Forage Science, 2015, 70, 19-29.	1.2	49
48	A modified sulphur hexafluoride tracer technique enables accurate determination of enteric methane emissions from ruminants. Animal Feed Science and Technology, 2014, 197, 47-63.	1.1	77
49	Adaptation and evaluation of the GrazeIn model of grass dry matter intake and milk yield prediction for grazing dairy cows. Animal, 2014, 8, 596-609.	1.3	3
50	Effect of pre-grazing herbage mass on dairy cow performance, grass dry matter production and output from perennial ryegrass (Lolium perenne L.) pastures. Animal, 2014, 8, 141-151.	1.3	20
51	Short-term response in milk production, dry matter intake, and grazing behavior of dairy cows to changes in postgrazing sward height. Journal of Dairy Science, 2014, 97, 3028-3041.	1.4	10
52	Gastrointestinal tract size, total-tract digestibility, and rumen microflora in different dairy cow genotypes. Journal of Dairy Science, 2014, 97, 3906-3917.	1.4	54
53	Temperature, but not submersion or orientation, influences the rate of sulphur hexafluoride release from permeation tubes used for estimation of ruminant methane emissions. Animal Feed Science and Technology, 2014, 194, 71-80.	1.1	8
54	Reducing in vitro rumen methanogenesis for two contrasting diets using a series of inclusion rates of different additives. Animal Production Science, 2014, 54, 141.	0.6	24

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55	In vitro rumen methane output of grasses and grass silages differing in fermentation characteristics using the gasâ€production technique (<scp>GPT</scp>). Grass and Forage Science, 2013, 68, 228-244.	1.2	14
56	Post-grazing sward height imposed during the first 10 weeks of lactation: Influence on early and total lactation dairy cow production, and spring and annual sward characteristics. Livestock Science, 2013, 157, 299-311.	0.6	34
57	Declining sulphur hexafluoride permeability of polytetrafluoroethylene membranes causes overestimation of calculated ruminant methane emissions using the tracer technique. Animal Feed Science and Technology, 2013, 183, 86-95.	1.1	23
58	Responses of anaerobic rumen fungal diversity (phylum Neocallimastigomycota) to changes in bovine diet. Journal of Applied Microbiology, 2013, 114, 626-635.	1.4	40
59	Evaluation of the <scp>G</scp>raze<scp>I</scp>n model of grass dryâ€matter intake and milk production prediction for dairy cows in temperate grassâ€based production systems. 1â€“<scp>S</scp>ward characteristics and grazing management factors. Grass and Forage Science, 2013, 68, 504-523.	1.2	20
60	The effect of pasture pregrazing herbage mass on methane emissions, ruminal fermentation, and average daily gain of grazing beef heifers1. Journal of Animal Science, 2013, 91, 3867-3874.	0.2	26
61	Evaluation of the GrazeIn model of grass dryâ€matter intake and milk production prediction for dairy cows in temperate grassâ€based production systems. 2 â€“ Animal characteristics. Grass and Forage Science, 2013, 68, 524-536.	1.2	7
62	Effect of perennial ryegrass (Lolium perenne L.) cultivars on the milk yield of grazing dairy cows. Animal, 2013, 7, 410-421.	1.3	40
63	Predicting grass dry matter intake, milk yield and milk fat and protein yield of spring calving grazing dairy cows during the grazing season. Animal, 2013, 7, 1379-1389.	1.3	9
64	Direct and carryover effect of post-grazing sward height on total lactation dairy cow performance. Animal, 2013, 7, 1390-1400.	1.3	19
65	The effect of grazing season length on nitrogen utilization efficiency and nitrogen balance in spring-calving dairy production systems. Journal of Agricultural Science, 2012, 150, 630-643.	0.6	8
66	In vitro rumen methane output of perennial ryegrass varieties and perennial grass species harvested throughout the growing season. Grass and Forage Science, 2012, 67, 280-298.	1.2	7
67	Effect of Lolium perenne sward density on productivity under simulated and actual cattle grazing. Grass and Forage Science, 2012, 67, 526-534.	1.2	15
68	The in vitro rumen methane output of perennial grass species and white clover varieties, and associative effects for their binary mixtures, evaluated using a batch-culture technique. Animal Production Science, 2012, 52, 1077.	0.6	14
69	In vitro rumen methane output of forb species sampled in spring and summer. Agricultural and Food Science, 2012, 21, 83-90.	0.3	3
70	A model of nitrogen efficiency in contrasting grass-based dairy systems. Journal of Dairy Science, 2011, 94, 1032-1044.	1.4	39
71	The effect of benzoic acid concentration on nitrogen metabolism, manure ammonia and odour emissions in finishing pigs. Animal Feed Science and Technology, 2011, 163, 194-199.	1.1	28
72	A review of whole farm systems models of greenhouse gas emissions from beef and dairy cattle production systems. Animal Feed Science and Technology, 2011, 166-167, 29-45.	1.1	213

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73	A simple method for pre-calibration storage of sulphur hexafluoride permeation tubes. Animal Feed Science and Technology, 2011, 166-167, 198-200.	1.1	8
74	Modifications of a gas production technique for assessing in vitro rumen methane production from feedstuffs. Animal Feed Science and Technology, 2011, 166-167, 163-174.	1.1	28
75	In vitro rumen methane output of perennial ryegrass samples prepared by freeze drying or thermal drying (40Â°C). Animal Feed Science and Technology, 2011, 166-167, 175-182.	1.1	19
76	Impacts of herbage mass and sward allowance of perennial ryegrass sampled throughout the growing season on in vitro rumen methane production. Animal Feed Science and Technology, 2011, 166-167, 405-411.	1.1	15
77	In vitro rumen methane output of red clover and perennial ryegrass assayed using the gas production technique (GPT). Animal Feed Science and Technology, 2011, 168, 152-164.	1.1	43
78	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
79	The effect of dietary concentrate and soya oil inclusion on microbial diversity in the rumen of cattle. Journal of Applied Microbiology, 2011, 111, 1426-1435.	1.4	33
80	A survey analysis of grassland dairy farming in Ireland, investigating grassland management, technology adoption and sward renewal. Grass and Forage Science, 2011, 66, 251-264.	1.2	78
81	Whole-farm systems modelling of greenhouse gas emissions from pastoral suckler beef cow production systems. Agriculture, Ecosystems and Environment, 2011, 142, 222-230.	2.5	69
82	Repeatability of feed efficiency, carcass ultrasound, feeding behavior, and blood metabolic variables in finishing heifers divergently selected for residual feed intake1. Journal of Animal Science, 2010, 88, 3214-3225.	0.2	106
83	The effects of autumn closing date on sward leaf area index and herbage mass during the winter period. Grass and Forage Science, 2010, 65, 200-211.	1.2	18
84	Effect of herbage mass and allowance on sward characteristics, milk production, intake and rumen volatile fatty acid concentration. Grass and Forage Science, 2010, 65, 335-347.	1.2	13
85	Methane emissions, feed intake, performance, digestibility, and rumen fermentation of finishing beef cattle offered whole-crop wheat silages differing in grain content1. Journal of Animal Science, 2010, 88, 2703-2716.	0.2	74
86	Methane emissions, feed intake, and performance of finishing beef cattle offered maize silages harvested at 4 different stages of maturity1. Journal of Animal Science, 2010, 88, 1479-1491.	0.2	44
87	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
88	Rumen fermentation, microbial protein synthesis, and nutrient flow to the omasum in cattle offered corn silage, grass silage, or whole-crop wheat1. Journal of Animal Science, 2009, 87, 658-668.	0.2	42
89	Fatty acid composition and nutritive value of twelve cultivars of perennial ryegrass. Grass and Forage Science, 2009, 64, 219-226.	1.2	35
90	Effect of sward dry matter digestibility on methane production, ruminal fermentation, and microbial populations of zero-grazed beef cattle. Journal of Animal Science, 2009, 87, 3342-3350.	0.2	66

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91	Intake, digestibility and rumen characteristics in cattle offered whole-crop wheat or barley silages of contrasting grain to straw ratios. Animal Feed Science and Technology, 2009, 148, 192-213.	1.1	20
92	Effect of DL-malic acid supplementation on feed intake, methane emission, and rumen fermentation in beef cattle. Journal of Animal Science, 2009, 87, 1048-1057.	0.2	62
93	Effect of pregrazing herbage mass and pasture allowance on the lactation performance of Holstein-Friesian dairy cows. Journal of Dairy Science, 2009, 92, 414-422.	1.4	51
94	Effect of dl-malic acid supplementation on feed intake, methane emissions, and performance of lactating dairy cows at pasture. Journal of Dairy Science, 2009, 92, 3258-3264.	1.4	21
95	Fatty acid intake and milk fatty acid composition of Holstein dairy cows under different grazing strategies: Herbage mass and daily herbage allowance. Journal of Dairy Science, 2009, 92, 5212-5223.	1.4	11
96	Intake, rumen fermentation, degradability and digestion kinetics in beef cattle offered autumn grass herbage differing in regrowth interval. Grass and Forage Science, 2008, 63, 369-379.	1.2	16
97	Intake, rumen fermentation and nutrient flow to the omasum in beef cattle fed grass silage fortified with sucrose and/or supplemented with concentrate. Animal Feed Science and Technology, 2008, 144, 23-43.	1.1	32
98	Intake, digestibility, rumen fermentation and performance of beef cattle fed diets based on whole-crop wheat or barley harvested at two cutting heights relative to maize silage or ad libitum concentrates. Animal Feed Science and Technology, 2008, 144, 257-278.	1.1	32
99	Effect of grass regrowth interval on intake, rumen digestion and nutrient flow to the omasum in beef cattle. Animal Feed Science and Technology, 2008, 146, 21-41.	1.1	22
100	The Effect of Herbage Allowance and Concentrate Supplementation on Milk Production Performance and Dry Matter Intake of Spring-Calving Dairy Cows in Early Lactation. Journal of Dairy Science, 2008, 91, 1258-1269.	1.4	74
101	Lamb serum vitamin E and immunoglobulin G concentrations in response to various maternal mineral and iodine supplementation regimens. Animal Science, 2006, 82, 319-325.	1.3	20
102	The effects of mineral supplementation to ewes in late pregnancy on colostrum yield and immunoglobulin G absorption in their lambs. Livestock Science, 2005, 97, 141-150.	1.2	23
103	The effect of timing of mineral supplementation of the ewe diet in late pregnancy on immunoglobulin G absorption by the lamb. Animal Science, 2005, 80, 193-200.	1.3	9
104	The effect of varying levels of mineral and iodine supplementation to ewes during late pregnancy on serum immunoglobulin G concentrations in their progeny. Animal Science, 2005, 80, 209-218.	1.3	19