

Peter J Moate

List of Publications by Year in descending order

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85
papers

4,202
citations

126858

33
h-index

118793

62
g-index

85
all docs

85
docs citations

85
times ranked

4355
citing authors

#	ARTICLE	IF	CITATIONS
1	BOARD-INVITED REVIEW: Recent advances in biohydrogenation of unsaturated fatty acids within the rumen microbial ecosystem ¹ . <i>Journal of Animal Science</i> , 2008, 86, 397-412.	0.2	574
2	MINMOD Millennium: A Computer Program to Calculate Glucose Effectiveness and Insulin Sensitivity from the Frequently Sampled Intravenous Glucose Tolerance Test. <i>Diabetes Technology and Therapeutics</i> , 2003, 5, 1003-1015.	2.4	372
3	An inhibitor persistently decreased enteric methane emission from dairy cows with no negative effect on milk production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10663-10668.	3.3	301
4	Prediction of enteric methane production, yield, and intensity in dairy cattle using an intercontinental database. <i>Global Change Biology</i> , 2018, 24, 3368-3389.	4.2	166
5	Grape marc reduces methane emissions when fed to dairy cows. <i>Journal of Dairy Science</i> , 2014, 97, 5073-5087.	1.4	132
6	cis-9, trans-11 Conjugated Linoleic Acid Is Synthesized Directly from Vaccenic Acid in Lactating Dairy Cattle. <i>Journal of Nutrition</i> , 2006, 136, 570-575.	1.3	130
7	WinSAAM: a windows-based compartmental modeling system. <i>Metabolism: Clinical and Experimental</i> , 2003, 52, 1153-1166.	1.5	110
8	Metagenomic Predictions: From Microbiome to Complex Health and Environmental Phenotypes in Humans and Cattle. <i>PLoS ONE</i> , 2013, 8, e73056.	1.1	103
9	Background matters with the SF6 tracer method for estimating enteric methane emissions from dairy cows: A critical evaluation of the SF6 procedure. <i>Animal Feed Science and Technology</i> , 2011, 170, 265-276.	1.1	84
10	Milk Fatty Acids. I. Variation in the Concentration of Individual Fatty Acids in Bovine Milk. <i>Journal of Dairy Science</i> , 2007, 90, 4730-4739.	1.4	79
11	Effects of feeding algal meal high in docosahexaenoic acid on feed intake, milk production, and methane emissions in dairy cows. <i>Journal of Dairy Science</i> , 2013, 96, 3177-3188.	1.4	79
12	A modified sulphur hexafluoride tracer technique enables accurate determination of enteric methane emissions from ruminants. <i>Animal Feed Science and Technology</i> , 2014, 197, 47-63.	1.1	77
13	The rate of de novo galactose synthesis in patients with galactose-1-phosphate uridylyltransferase deficiency. <i>Molecular Genetics and Metabolism</i> , 2004, 81, 22-30.	0.5	75
14	High throughput whole rumen metagenome profiling using untargeted massively parallel sequencing. <i>BMC Genetics</i> , 2012, 13, 53.	2.7	68
15	Pharmacokinetic profile and behavioral effects of gabapentin in the horse. <i>Journal of Veterinary Pharmacology and Therapeutics</i> , 2010, 33, 485-494.	0.6	60
16	<i>In vitro</i> screening of selected feed additives, plant essential oils and plant extracts for rumen methane mitigation. <i>Journal of the Science of Food and Agriculture</i> , 2014, 94, 1191-1196.	1.7	60
17	Proanthocyanidins (condensed tannin) destabilise plant protein foams in a dose dependent manner. <i>Australian Journal of Agricultural Research</i> , 1995, 46, 1101.	1.5	59
18	A model to describe ruminal metabolism and intestinal absorption of long chain fatty acids. <i>Animal Feed Science and Technology</i> , 2004, 112, 79-105.	1.1	58

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19	Dry matter intake, nutrient selection and milk production of dairy cows grazing rainfed perennial pastures at different herbage allowances in spring. <i>Australian Journal of Experimental Agriculture</i> , 1999, 39, 923.	1.0	57
20	Global Survey of the Bovine Salivary Proteome: Integrating Multidimensional Prefractionation, Targeted, and GlycoCapture Strategies. <i>Journal of Proteome Research</i> , 2011, 10, 5059-5069.	1.8	55
21	Investigating the effect of two methane-mitigating diets on the rumen microbiome using massively parallel sequencing. <i>Journal of Dairy Science</i> , 2013, 96, 6030-6046.	1.4	54
22	Pharmacodynamic effects and pharmacokinetic profile of a long-term continuous rate infusion of racemic ketamine in healthy conscious horses. <i>Journal of Veterinary Pharmacology and Therapeutics</i> , 2006, 29, 477-488.	0.6	52
23	Milk Bottom-Up Proteomics: Method Optimization. <i>Frontiers in Genetics</i> , 2015, 6, 360.	1.1	52
24	Metagenomics of rumen bacteriophage from thirteen lactating dairy cattle. <i>BMC Microbiology</i> , 2013, 13, 242.	1.3	51
25	Rumen gases and bloat in grazing dairy cows. <i>Journal of Agricultural Science</i> , 1997, 129, 459-469.	0.6	47
26	Comprehensive polar lipid identification and quantification in milk by liquid chromatography-mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2015, 978-979, 95-102.	1.2	46
27	Pharmacokinetics of fentanyl delivered transdermally in healthy adult horses ? variability among horses and its clinical implications. <i>Journal of Veterinary Pharmacology and Therapeutics</i> , 2006, 29, 539-546.	0.6	45
28	Reducing the carbon footprint of Australian milk production by mitigation of enteric methane emissions. <i>Animal Production Science</i> , 2016, 56, 1017.	0.6	42
29	A modified logistic model to describe gadolinium kinetics in breast tumors. <i>Magnetic Resonance Imaging</i> , 2004, 22, 467-473.	1.0	41
30	The Pharmacokinetics of Esmolol in Pediatric Subjects with Supraventricular Arrhythmias. <i>Pediatric Cardiology</i> , 2006, 27, 420-427.	0.6	39
31	Simple Liquid Chromatography-Mass Spectrometry Method for Quantification of Major Free Oligosaccharides in Bovine Milk. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 11568-11574.	2.4	38
32	Estimation of the content of fat and parenchyma in breast tissue using MRI T1 histograms and phantoms. <i>Magnetic Resonance Imaging</i> , 2005, 23, 591-599.	1.0	37
33	Effects of wild-type, AR1 and AR37 endophyte-infected perennial ryegrass on dairy production in Victoria, Australia. <i>Animal Production Science</i> , 2012, 52, 1117.	0.6	36
34	Volatile Fatty Acids in Ruminal Fluid Can Be Used to Predict Methane Yield of Dairy Cows. <i>Animals</i> , 2019, 9, 1006.	1.0	35
35	High frame-rate simultaneous bilateral breast DCE-MRI. <i>Magnetic Resonance in Medicine</i> , 2007, 57, 220-225.	1.9	34
36	A novel minimal model to describe NEFA kinetics following an intravenous glucose challenge. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 294, R1140-R1147.	0.9	33

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37	More frequent allocation of herbage does not improve the milk production of dairy cows in early lactation. <i>Australian Journal of Experimental Agriculture</i> , 2001, 41, 593.	1.0	32
38	Kinetics of Ruminant Lipolysis of Triacylglycerol and Biohydrogenation of Long-Chain Fatty Acids: New Insights from Old Data. <i>Journal of Dairy Science</i> , 2008, 91, 731-742.	1.4	31
39	Modelling the Effect of Diet Composition on Enteric Methane Emissions across Sheep, Beef Cattle and Dairy Cows. <i>Animals</i> , 2016, 6, 54.	1.0	31
40	Milk Fatty Acids II: Prediction of the Production of Individual Fatty Acids in Bovine Milk. <i>Journal of Dairy Science</i> , 2008, 91, 1175-1188.	1.4	30
41	Modeling circadian rhythms of food intake by means of parametric deconvolution: results from studies of the night eating syndrome. <i>American Journal of Clinical Nutrition</i> , 2008, 87, 1672-1677.	2.2	30
42	Pharmacokinetics of dexamethasone with pharmacokinetic/pharmacodynamic model of the effect of dexamethasone on endogenous hydrocortisone and cortisone in the horse. <i>Journal of Veterinary Pharmacology and Therapeutics</i> , 2005, 28, 71-80.	0.6	29
43	Effects of dietary cottonseed oil and tannin supplements on protein and fatty acid composition of bovine milk. <i>Journal of Dairy Research</i> , 2014, 81, 183-192.	0.7	28
44	Energy partitioning in herbage-fed dairy cows offered supplementary grain during an extended lactation. <i>Journal of Dairy Science</i> , 2013, 96, 484-494.	1.4	27
45	NEFA minimal model parameters estimated from the oral glucose tolerance test and the meal tolerance test. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 295, R395-R403.	0.9	26
46	Variations in the dietary cation-anion difference and the acid-base balance of dairy cows on a pasture-based diet in south-eastern Australia. <i>Grass and Forage Science</i> , 2000, 55, 26-36.	1.2	25
47	Pharmacokinetics of methylprednisolone acetate after intra-articular administration and its effect on endogenous hydrocortisone and cortisone secretion in horses. <i>American Journal of Veterinary Research</i> , 2006, 67, 654-662.	0.3	25
48	Pulmonary gas exchange in anaesthetised horses mechanically ventilated with oxygen or a helium/oxygen mixture. <i>Equine Veterinary Journal</i> , 2009, 41, 747-752.	0.9	25
49	Milk production and composition, and methane emissions from dairy cows fed lucerne hay with forage brassica or chicory. <i>Animal Production Science</i> , 2016, 56, 304.	0.6	25
50	Pharmacokinetics of imipenem-cilastatin following intravenous administration in healthy adult horses. <i>Journal of Veterinary Pharmacology and Therapeutics</i> , 2005, 28, 355-361.	0.6	24
51	Pharmacokinetics and disposition of clenbuterol in the horse. <i>Journal of Veterinary Pharmacology and Therapeutics</i> , 2004, 27, 71-77.	0.6	23
52	Declining sulphur hexafluoride permeability of polytetrafluoroethylene membranes causes overestimation of calculated ruminant methane emissions using the tracer technique. <i>Animal Feed Science and Technology</i> , 2013, 183, 86-95.	1.1	23
53	Methane emissions of dairy cows cannot be predicted by the concentrations of C8:0 and total C18 fatty acids in milk. <i>Animal Production Science</i> , 2014, 54, 1757.	0.6	23
54	Plasma Etoposide Catechol Increases in Pediatric Patients Undergoing Multiple-Day Chemotherapy with Etoposide. <i>Clinical Cancer Research</i> , 2004, 10, 2977-2985.	3.2	22

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55	Response of plasma glucose, insulin, and nonesterified fatty acids to intravenous glucose tolerance tests in dairy cows during a 670-day lactation. <i>Journal of Dairy Science</i> , 2015, 98, 179-189.	1.4	22
56	Evaluation of the performance of existing mathematical models predicting enteric methane emissions from ruminants: Animal categories and dietary mitigation strategies. <i>Animal Feed Science and Technology</i> , 2019, 255, 114207.	1.1	21
57	Effects of Feeding either Red or White Grape Marc on Milk Production and Methane Emissions from Early-Lactation Dairy Cows. <i>Animals</i> , 2020, 10, 976.	1.0	21
58	A partial life cycle assessment of the greenhouse gas mitigation potential of feeding 3-nitrooxypropanol and nitrate to cattle. <i>Agricultural Systems</i> , 2019, 169, 14-23.	3.2	20
59	Individual milk fatty acids are potential predictors of enteric methane emissions from dairy cows fed a wide range of diets: Approach by meta-analysis. <i>Journal of Dairy Science</i> , 2019, 102, 10616-10631.	1.4	18
60	Cefotaxime kinetics in plasma and synovial fluid following intravenous administration in horses. <i>Journal of Veterinary Pharmacology and Therapeutics</i> , 2004, 27, 293-298.	0.6	17
61	Reducing methane on-farm by feeding diets high in fat may not always reduce life cycle greenhouse gas emissions. <i>International Journal of Life Cycle Assessment</i> , 2014, 19, 69-78.	2.2	17
62	Influence of proportion of wheat in a pasture-based diet on milk yield, methane emissions, methane yield, and ruminal protozoa of dairy cows. <i>Journal of Dairy Science</i> , 2020, 103, 2373-2386.	1.4	17
63	Turnips and protein supplements for lactating dairy cows. <i>Australian Journal of Experimental Agriculture</i> , 1999, 39, 389.	1.0	15
64	A novel minimal model to describe non-esterified fatty acid kinetics in Holstein dairy cows. <i>Journal of Dairy Research</i> , 2008, 75, 13-18.	0.7	15
65	Short communication: Comparison of the GreenFeed system with the sulfur hexafluoride tracer technique for measuring enteric methane emissions from dairy cows. <i>Journal of Dairy Science</i> , 2016, 99, 5461-5465.	1.4	15
66	Identification and quantification of triacylglycerols containing n-3 long-chain polyunsaturated fatty acids in bovine milk. <i>Journal of Dairy Science</i> , 2015, 98, 8473-8485.	1.4	13
67	The Pharmacokinetics of Hemoglobin-Based Oxygen Carrier Hemoglobin Glutamer-200 Bovine in the Horse. <i>Anesthesia and Analgesia</i> , 2005, 100, 1570-1575.	1.1	12
68	Influence of dietary docosahexaenoic acid supplementation on the overall rumen microbiota of dairy cows and linkages with production parameters. <i>Canadian Journal of Microbiology</i> , 2014, 60, 267-275.	0.8	12
69	In vitro fermentability and methane production of some alternative forages in Australia. <i>Animal Production Science</i> , 2016, 56, 641.	0.6	12
70	Dietary Fat and Betaine Supplements Offered to Lactating Cows Affect Dry Matter Intake, Milk Production and Body Temperature Responses to an Acute Heat Challenge. <i>Animals</i> , 2021, 11, 3110.	1.0	10
71	Evaluation of low cost in-line milk samplers for estimating individual cow somatic cell counts. <i>Journal of Dairy Research</i> , 1997, 64, 13-22.	0.7	9
72	A numerical deconvolution method to estimate C-peptide secretion in humans after an intravenous glucose tolerance test. <i>Metabolism: Clinical and Experimental</i> , 2009, 58, 891-900.	1.5	9

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73	Michaelis-Menten kinetics predict the rate of SF6 release from permeation tubes used to estimate methane emissions from ruminants. <i>Animal Feed Science and Technology</i> , 2015, 200, 47-56.	1.1	9
74	Temperature, but not submersion or orientation, influences the rate of sulphur hexafluoride release from permeation tubes used for estimation of ruminant methane emissions. <i>Animal Feed Science and Technology</i> , 2014, 194, 71-80.	1.1	8
75	Measurement of Enteric Methane Emissions by the SF6 Technique Is Not Affected by Ambient Weather Conditions. <i>Animals</i> , 2021, 11, 528.	1.0	8
76	AKA-Glucose: A Program for Kinetic and Epidemiological Analysis of Frequently Sampled Intravenous Glucose Tolerance Test Data Using Database Technology. <i>Diabetes Technology and Therapeutics</i> , 2005, 7, 298-307.	2.4	7
77	Dietary wheat and reduced methane yield are linked to rumen microbiome changes in dairy cows. <i>PLoS ONE</i> , 2022, 17, e0268157.	1.1	7
78	Comparison of enantiomers of organic acids for their effects on methane production in vitro. <i>Animal Production Science</i> , 2014, 54, 1345.	0.6	6
79	Evaluation of a compartmental model to describe non-esterified fatty acid kinetics in Holstein dairy cows. <i>Journal of Dairy Research</i> , 2007, 74, 430-437.	0.7	5
80	Mathematical formulae for accurate estimation of in vitro CH4 production from vented bottles. <i>Animal Production Science</i> , 2016, 56, 244.	0.6	5
81	Mordant factors that affect the fluorescence and counting of somatic cells by instruments. <i>Journal of Dairy Research</i> , 1995, 62, 373-394.	0.7	4
82	The effect of diet of the donor cows on in vitro measurements of methane production from wheat and corn incubated in various forage-to-grain ratios. <i>Journal of the Science of Food and Agriculture</i> , 2019, 99, 3451-3458.	1.7	4
83	AKA-TPG: A Program for Kinetic and Epidemiological Analysis of Data from Labeled Glucose Investigations Using the Two-Pool Model and Database Technology. <i>Diabetes Technology and Therapeutics</i> , 2007, 9, 99-108.	2.4	2
84	Ten day composite milk samples give accurate somatic cell counts. <i>Journal of Dairy Research</i> , 1996, 63, 475-478.	0.7	1
85	Economic Threshold Analysis of Supplementing Dairy Cow Diets with Betaine and Fat during a Heat Challenge: A Pre- and Post-Experimental Comparison. <i>Animals</i> , 2022, 12, 92.	1.0	1