

Barry Bradford

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

128
papers

2,782
citations

30
h-index

49
g-index

146
ext. papers

3,406
ext. citations

3.2
avg, IF

5.72
L-index

#	Paper	IF	Citations
128	Board Invited Review: The hepatic oxidation theory of the control of feed intake and its application to ruminants. <i>Journal of Animal Science</i> , 2009 , 87, 3317-34	0.7	343
127	Invited review: Inflammation during the transition to lactation: New adventures with an old flame. <i>Journal of Dairy Science</i> , 2015 , 98, 6631-50	4	203
126	Strong relationships between mediators of the acute phase response and fatty liver in dairy cows. <i>Canadian Journal of Animal Science</i> , 2005 , 85, 165-175	0.9	116
125	The cow as a model to study food intake regulation. <i>Annual Review of Nutrition</i> , 2005 , 25, 523-47	9.9	109
124	332 Young Scholar Presentation: regulation of immune signaling by extracellular vesicles. <i>Journal of Animal Science</i> , 2019 , 97, 132-133	0.7	78
123	67 Immunometabolism [Emerging concepts and potential applications in livestock. <i>Journal of Animal Science</i> , 2019 , 97, 101-101	0.7	78
122	PSI-11 Anti-inflammatory treatment modifies epigenetics changes to muscle tissue caused by altered nutrient demand in early lactation dairy cows. <i>Journal of Animal Science</i> , 2019 , 97, 244-245	0.7	78
121	Daily injection of tumor necrosis factor- α increases hepatic triglycerides and alters transcript abundance of metabolic genes in lactating dairy cattle. <i>Journal of Nutrition</i> , 2009 , 139, 1451-6	4.1	72
120	Holsteins favor heifers, not bulls: biased milk production programmed during pregnancy as a function of fetal sex. <i>PLoS ONE</i> , 2014 , 9, e86169	3.7	69
119	Anti-inflammatory salicylate treatment alters the metabolic adaptations to lactation in dairy cattle. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013 , 305, R110-7	3.2	65
118	Dietary unsaturated fatty acids increase plasma glucagon-like peptide-1 and cholecystokinin and may decrease premeal ghrelin in lactating dairy cows. <i>Journal of Dairy Science</i> , 2008 , 91, 1443-50	4	59
117	Invited review: Practical feeding management recommendations to mitigate the risk of subacute ruminal acidosis in dairy cattle. <i>Journal of Dairy Science</i> , 2018 , 101, 872-888	4	58
116	Effects of encapsulated niacin on metabolism and production of periparturient dairy cows. <i>Journal of Dairy Science</i> , 2011 , 94, 5090-104	4	56
115	Invited review: Recommendations for reporting intervention studies on reproductive performance in dairy cattle: Improving design, analysis, and interpretation of research on reproduction. <i>Journal of Dairy Science</i> , 2016 , 99, 1-17	4	54
114	Analysis of rumen microbial populations in lactating dairy cattle fed diets varying in carbohydrate profiles and <i>Saccharomyces cerevisiae</i> fermentation product. <i>Journal of Dairy Science</i> , 2013 , 96, 5872-81 ⁴		51
113	Dietary molasses increases ruminal pH and enhances ruminal biohydrogenation during milk fat depression. <i>Journal of Dairy Science</i> , 2011 , 94, 3995-4004	4	50
112	Negative energy balance increases periprandial ghrelin and growth hormone concentrations in lactating dairy cows. <i>Domestic Animal Endocrinology</i> , 2008 , 34, 196-203	2.3	50

111	Hot topic: Early postpartum treatment of commercial dairy cows with nonsteroidal antiinflammatory drugs increases whole-lactation milk yield. <i>Journal of Dairy Science</i> , 2016 , 99, 672-9	4	46
110	Impact of oral meloxicam on circulating physiological biomarkers of stress and inflammation in beef steers after long-distance transportation. <i>Journal of Animal Science</i> , 2014 , 92, 498-510	0.7	46
109	Plant flavonoids to improve productivity of ruminants A review. <i>Animal Feed Science and Technology</i> , 2019 , 251, 21-36	3	45
108	TNF α altered inflammatory responses, impaired health and productivity, but did not affect glucose or lipid metabolism in early-lactation dairy cows. <i>PLoS ONE</i> , 2013 , 8, e80316	3.7	45
107	Milk fat responses to a change in diet fermentability vary by production level in dairy cattle. <i>Journal of Dairy Science</i> , 2004 , 87, 3800-7	4	45
106	Effects of monensin on metabolic parameters, feeding behavior, and productivity of transition dairy cows. <i>Journal of Dairy Science</i> , 2012 , 95, 1323-36	4	42
105	Sodium salicylate treatment in early lactation increases whole-lactation milk and milk fat yield in mature dairy cows. <i>Journal of Dairy Science</i> , 2013 , 96, 7709-18	4	41
104	Invited review: strategies for promoting productivity and health of dairy cattle by feeding nonforage fiber sources. <i>Journal of Dairy Science</i> , 2012 , 95, 4735-4746	4	40
103	Effects of adjustable and stationary fans with misters on core body temperature and lying behavior of lactating dairy cows in a semiarid climate. <i>Journal of Dairy Science</i> , 2013 , 96, 4738-50	4	39
102	Response of milk fatty acid composition to dietary supplementation of soy oil, conjugated linoleic acid, or both. <i>Journal of Dairy Science</i> , 2008 , 91, 260-70	4	39
101	Phlorizin administration increases hepatic gluconeogenic enzyme mRNA abundance but not feed intake in late-lactation dairy cows. <i>Journal of Nutrition</i> , 2005 , 135, 2206-11	4.1	38
100	Depression in feed intake by a highly fermentable diet is related to plasma insulin concentration and insulin response to glucose infusion. <i>Journal of Dairy Science</i> , 2007 , 90, 3838-45	4	34
99	An unusual distribution of the niacin receptor in cattle. <i>Journal of Dairy Science</i> , 2011 , 94, 4962-7	4	31
98	Yeast product supplementation modulated feeding behavior and metabolism in transition dairy cows. <i>Journal of Dairy Science</i> , 2015 , 98, 532-40	4	26
97	Yeast product supplementation modulated humoral and mucosal immunity and uterine inflammatory signals in transition dairy cows. <i>Journal of Dairy Science</i> , 2015 , 98, 3236-46	4	25
96	Technical note: validation of an ELISA for measurement of tumor necrosis factor alpha in bovine plasma. <i>Journal of Dairy Science</i> , 2011 , 94, 3504-9	4	24
95	Effects of prepartum 2,4-thiazolidinedione on insulin sensitivity, plasma concentrations of tumor necrosis factor- α and leptin, and adipose tissue gene expression. <i>Journal of Dairy Science</i> , 2011 , 94, 5523-32	4	23
94	Tissue expression of angiotensin-like protein 4 in cattle. <i>Journal of Animal Science</i> , 2010 , 88, 124-30	0.7	23

93	Toll-like receptor 4 signaling is required for induction of gluconeogenic gene expression by palmitate in human hepatic carcinoma cells. <i>Journal of Nutritional Biochemistry</i> , 2013 , 24, 1499-507	6.3	22
92	Effects of feeding increasing levels of wet corn gluten feed on production and ruminal fermentation in lactating dairy cows. <i>Journal of Dairy Science</i> , 2010 , 93, 5329-37	4	20
91	Effects of crude glycerin on milk composition, nutrient digestibility and ruminal fermentation of dairy cows fed corn silage-based diets. <i>Animal Feed Science and Technology</i> , 2016 , 212, 136-142	3	18
90	Control of food intake by metabolism of fuels: a comparison across species. <i>Proceedings of the Nutrition Society</i> , 2012 , 71, 401-9	2.9	18
89	The effect of leptin and resveratrol on JAK/STAT pathways and Sirt-1 gene expression in the renal tissue of ischemia/reperfusion induced rats. <i>Bratislava Medical Journal</i> , 2017 , 118, 443-448	1.7	16
88	Propionate is not an important regulator of plasma leptin concentration in dairy cattle. <i>Domestic Animal Endocrinology</i> , 2006 , 30, 65-75	2.3	16
87	Propionate challenge tests have limited value for investigating bovine metabolism. <i>Journal of Nutrition</i> , 2006 , 136, 1915-20	4.1	14
86	High-Throughput Production of Chromium(III) Complexes for Antibody Immobilization. <i>Analytical Chemistry</i> , 2016 , 88, 10102-10110	7.8	14
85	Review: Following the smoke signals: inflammatory signaling in metabolic homeostasis and homeorhesis in dairy cattle. <i>Animal</i> , 2020 , 14, s144-s154	3.1	13
84	Invited Review : Ruminal microbes, microbial products, and systemic inflammation 1,2 Presented as a part of the ARPAS Symposium: Understanding Inflammation and Inflammatory Biomarkers to Improve Animal Performance at the ADSA/SAS Joint Annual Meeting, Salt Lake City, Utah, July 2016. <i>Proceedings of the Nutrition Society</i> , 2016 , 75, 17366-17366		13
83	Effects of supplemental chromium propionate and rumen-protected amino acids on productivity, diet digestibility, and energy balance of peak-lactation dairy cattle. <i>Journal of Dairy Science</i> , 2014 , 97, 3815-21	4	13
82	Phlorizin induces lipolysis and alters meal patterns in both early- and late-lactation dairy cows. <i>Journal of Dairy Science</i> , 2007 , 90, 1810-5	4	13
81	The P2Y2 receptor mediates uptake of matrix-retained and aggregated low density lipoprotein in primary vascular smooth muscle cells. <i>Atherosclerosis</i> , 2016 , 252, 128-135	3.1	12
80	Continuous low-dose infusion of tumor necrosis factor alpha in adipose tissue elevates adipose tissue interleukin 10 abundance and fails to alter metabolism in lactating dairy cows. <i>Journal of Dairy Science</i> , 2014 , 97, 4897-906	4	12
79	Effects of wet corn gluten feed on ruminal pH and productivity of lactating dairy cattle fed diets with sufficient physically effective fiber. <i>Journal of Dairy Science</i> , 2012 , 95, 5213-5220	4	12
78	Choline Regulates the Function of Bovine Immune Cells and Alters the mRNA Abundance of Enzymes and Receptors Involved in Its Metabolism. <i>Frontiers in Immunology</i> , 2018 , 9, 2448	8.4	12
77	Short communication: Effects of molasses products on productivity and milk fatty acid profile of cows fed diets high in dried distillers grains with solubles. <i>Journal of Dairy Science</i> , 2014 , 97, 3860-5	4	11
76	Effects of dietary amylase and sucrose on productivity of cows fed low-starch diets. <i>Journal of Dairy Science</i> , 2014 , 97, 4464-70	4	11

75	Viable cell yield from active dry yeast products and effects of storage temperature and diluent on yeast cell viability. <i>Journal of Dairy Science</i> , 2011 , 94, 526-31	4	11
74	Effects of sodium salicylate on glucose kinetics and insulin signaling in postpartum dairy cows. <i>Journal of Dairy Science</i> , 2019 , 102, 1617-1629	4	11
73	Effects of early postpartum sodium salicylate treatment on long-term milk, intake, and blood parameters of dairy cows. <i>Journal of Dairy Science</i> , 2018 , 101, 1437-1447	4	11
72	RNA interference-based technology: what role in animal agriculture?. <i>Animal Production Science</i> , 2017 , 57, 1	1.4	10
71	Short communication: Effect of cross ventilation with or without evaporative pads on core body temperature and resting time of lactating cows. <i>Journal of Dairy Science</i> , 2016 , 99, 1495-1500	4	10
70	Phlorizin administration does not attenuate hypophagia induced by intraruminal propionate infusion in lactating dairy cattle. <i>Journal of Nutrition</i> , 2007 , 137, 326-30	4.1	10
69	Proteomic analysis reveals greater abundance of complement and inflammatory proteins in subcutaneous adipose tissue from postpartum cows treated with sodium salicylate. <i>Journal of Proteomics</i> , 2019 , 204, 103399	3.9	9
68	Effect of <i>Saccharomyces cerevisiae</i> fermentation product on feed intake parameters, lactation performance, and metabolism of transition dairy cattle. <i>Journal of Dairy Science</i> , 2019 , 102, 8092-8107	4	9
67	Short communication: Supplementing lysine and methionine in a lactation diet containing a high concentration of wet corn gluten feed did not alter milk protein yield. <i>Journal of Dairy Science</i> , 2013 , 96, 5300-5	4	9
66	Effects of supplemental chromium propionate and rumen-protected amino acids on nutrient metabolism, neutrophil activation, and adipocyte size in dairy cows during peak lactation. <i>Journal of Dairy Science</i> , 2014 , 97, 3822-31	4	9
65	Effects of Pharmacological Amounts of Nicotinic Acid on Lipolysis and Feed Intake in Cattle. <i>International Journal of Dairy Science</i> , 2011 , 6, 134-141	0.7	9
64	Effects of varying rates of tallgrass prairie hay and wet corn gluten feed on productivity of lactating dairy cows. <i>Journal of Dairy Science</i> , 2012 , 95, 842-9	4	8
63	Availability to lactating dairy cows of methionine added to soy lecithins and mixed with a mechanically extracted soybean meal. <i>Journal of Dairy Science</i> , 2013 , 96, 3064-74	4	8
62	Control of eating by hepatic oxidation of fatty acids. A note of caution. <i>Appetite</i> , 2009 , 53, 272-3; author reply 274-6	4.5	8
61	Short communication: Rate of propionate infusion within meals does not influence feeding behavior. <i>Journal of Dairy Science</i> , 2007 , 90, 2305-8	4	8
60	Effects of prepartum dietary cation-anion difference and acidified coproducts on dry matter intake, serum calcium, and performance of dairy cows. <i>Journal of Animal Science</i> , 2014 , 92, 666-75	0.7	7
59	Bovine hepatic and adipose retinol-binding protein gene expression and relationship with tumor necrosis factor- α . <i>Journal of Dairy Science</i> , 2012 , 95, 7097-104	4	7
58	Effects of a molasses-coated cottonseed product on diet digestibility, performance, and milk fatty acid profile of lactating dairy cattle. <i>Journal of Dairy Science</i> , 2010 , 93, 3128-35	4	7

57	Effects of alfalfa hay inclusion rate on productivity of lactating dairy cattle fed wet corn gluten feed-based diets. <i>Journal of Dairy Science</i> , 2009 , 92, 3510-6	4	7
56	Dietary supplementation of <i>Scutellaria baicalensis</i> extract during early lactation decreases milk somatic cells and increases whole lactation milk yield in dairy cattle. <i>PLoS ONE</i> , 2019 , 14, e0210744	3.7	6
55	Effect of complementation of cattle cooling systems with feedline soakers on lactating dairy cows in a desert environment. <i>Journal of Dairy Science</i> , 2011 , 94, 1026-31	4	6
54	Effects of running time of a cattle-cooling system on core body temperature of cows on dairy farms in an arid environment. <i>Journal of Dairy Science</i> , 2010 , 93, 4949-54	4	6
53	Feeding Dairy Cows With Leftovers and the Variation in Recovery of Human-Edible Nutrients in Milk. <i>Frontiers in Sustainable Food Systems</i> , 2019 , 3,	4.8	6
52	Short communication: Sodium salicylate negatively affects rumen fermentation in vitro and in situ. <i>Journal of Dairy Science</i> , 2017 , 100, 1935-1939	4	5
51	Effects of fat supplementation to diets high in nonforage fiber on production responses of midlactation dairy cows. <i>Journal of Dairy Science</i> , 2018 , 101, 6066-6073	4	5
50	Managing complexity: Dealing with systemic crosstalk in bovine physiology. <i>Journal of Dairy Science</i> , 2016 , 99, 4983-4996	4	5
49	Periparturient alterations of calcitonin gene-related peptide and minerals in dairy cows affected by milk fever. <i>Veterinary Clinical Pathology</i> , 2013 , 42, 70-7	1	5
48	Effects of urea formaldehyde condensation polymer treatment of flaxseed on ruminal digestion and lactation in dairy cows. <i>Journal of Dairy Science</i> , 2013 , 96, 3907-15	4	5
47	Associations between body condition score at parturition and microRNA profile in colostrum of dairy cows as evaluated by paired mapping programs. <i>Journal of Dairy Science</i> , 2019 , 102, 11609-11621	4	5
46	Productivity of lactating dairy cows fed diets with teff hay as the sole forage. <i>Journal of Dairy Science</i> , 2018 , 101, 5984-5990	4	4
45	A comparison of the effects of 2 cattle-cooling systems on dairy cows in a desert environment. <i>Journal of Dairy Science</i> , 2010 , 93, 4955-60	4	4
44	Reference data based insights expand understanding of human metabolomes		4
43	A supplement containing multiple types of gluconeogenic substrates alters intake but not productivity of heat-stressed Afshari lambs. <i>Journal of Animal Science</i> , 2016 , 94, 2497-505	0.7	3
42	Restricted nutrient intake does not alter serum-mediated measures of implant response in cell culture. <i>Journal of Animal Science and Biotechnology</i> , 2013 , 4, 45	6	3
41	Utilization of by-product and co-product feeds		3
40	Characterization of the liver proteome in dairy cows experiencing negative energy balance at early lactation. <i>Journal of Proteomics</i> , 2021 , 246, 104308	3.9	3

39	Invited review: Mechanisms of hypophagia during disease. <i>Journal of Dairy Science</i> , 2021 , 104, 9418-9436		3
38	Comparison of ruminal digestibility of <i>Origanum onites</i> L. leaves in dairy buffalo and cows. <i>Tropical Animal Health and Production</i> , 2020 , 52, 2063-2071	1.7	2
37	Effects of TNF receptor blockade on in vitro cell survival and response to negative energy balance in dairy cattle. <i>Journal of Animal Science and Biotechnology</i> , 2018 , 9, 6	6	2
36	Effects of central and peripheral administration of an acute-phase protein, α_1 -acid-glycoprotein, on feed intake and rectal temperature in sheep. <i>Journal of Animal Science</i> , 2019 , 97, 4783-4791	0.7	2
35	Do biological and management reasons for a short or long dry period induce the same effects on dairy cattle productivity?. <i>Journal of Dairy Science</i> , 2020 , 103, 11857-11875	4	2
34	Beta-Hydroxybutyrate Alters the mRNA Cytokine Profile from Mouse Macrophages Challenged with <i>Streptococcus uberis</i> . <i>Kansas Agricultural Experiment Station Research Reports</i> , 2019 , 5,	1	2
33	Development of an macrophage screening system on the immunomodulating effects of feed components. <i>Journal of Animal Science and Biotechnology</i> , 2020 , 11, 89	6	2
32	First postpartum ovulation, metabolites and hormones in follicular fluid and blood in transition dairy cows supplemented with a <i>Saccharomyces cerevisiae</i> fermentation product. <i>Theriogenology</i> , 2021 , 164, 12-21	2.8	2
31	Intergenerational cycle of disease: Maternal mastitis is associated with poorer daughter performance in dairy cattle. <i>Journal of Dairy Science</i> , 2021 , 104, 4537-4548	4	2
30	Effects of a high-protein corn product compared with soy and canola protein sources on nutrient digestibility and production responses in mid-lactation dairy cows. <i>Journal of Dairy Science</i> , 2020 , 103, 6233-6243	4	1
29	Postpartum meloxicam administration alters plasma haptoglobin, polyunsaturated fatty acid, and oxylipid concentrations in postpartum ewes. <i>Journal of Animal Science and Biotechnology</i> , 2020 , 11, 68	6	1
28	Relative bioavailability of carnitine delivered by ruminal or abomasal infusion or by encapsulation in dairy cattle. <i>Journal of Dairy Science</i> , 2018 , 101, 2060-2071	4	1
27	406 Can We Quantify the Impact of Inflammation and Immune Activation on Nutrient Use and Partitioning?.. <i>Journal of Animal Science</i> , 2018 , 96, 218-218	0.7	1
26	Proteome dataset of subcutaneous adipose tissue from postpartum cows treated with sodium salicylate. <i>Data in Brief</i> , 2019 , 26, 104567	1.2	1
25	Diet starch concentration and starch fermentability affect markers of inflammatory response and oxidant status in dairy cows during the early postpartum period. <i>Journal of Dairy Science</i> , 2020 , 103, 3523-367	4	1
24	Effects of milk feeding strategies on short- and long-term productivity of Holstein heifers. <i>Journal of Dairy Science</i> , 2021 , 104, 4303-4316	4	1
23	Diverging in vitro inflammatory responses toward <i>Streptococcus uberis</i> in mouse macrophages either preconditioned or continuously treated with β -hydroxybutyrate. <i>JDS Communications</i> , 2021 , 2, 142-147	1.4	1
22	1581 Relative bioavailability of l-carnitine delivered by ruminal or abomasal infusion or by encapsulation in dairy cattle. <i>Journal of Animal Science</i> , 2016 , 94, 768-769	0.7	1

21	Physiologic responses to feeding rumen-protected glucose to lactating dairy cows. <i>Animal Reproduction Science</i> , 2020 , 216, 106346	2.1	1
20	Acute-phase protein β -acid glycoprotein is negatively associated with feed intake in postpartum dairy cows. <i>Journal of Dairy Science</i> , 2021 , 104, 806-817	4	1
19	Effects of cultivar and harvest days after planting on dry matter yield and nutritive value of teff. <i>Journal of Animal Science and Technology</i> , 2021 , 63, 510-519	1.6	0
18	Connecting Metabolism to Mastitis: Hyperketonemia Impaired Mammary Gland Defenses During a Challenge in Dairy Cattle. <i>Frontiers in Immunology</i> , 2021 , 12, 700278	8.4	0
17	Relative availability of metabolizable methionine from 2 ruminally protected sources of methionine fed to lactating dairy cattle. <i>Journal of Dairy Science</i> , 2021 , 104, 1811-1822	4	0
16	High-grain diets suppress ruminal tissue abundance of angiotensin-like protein 4 in cattle. <i>Journal of Animal Science</i> , 2014 , 92, 4077-85	0.7	
15	Erratum to Effects of a molasses-coated cottonseed product on diet digestibility, performance, and milk fatty acid profile of lactating dairy cattle (<i>J. Dairy Sci.</i> 93:3128-3135). <i>Journal of Dairy Science</i> , 2011 , 94, 536	4	
14	246 Effect of increasing levels of dietary starch on equine cecal microbiota. <i>Journal of Animal Science</i> , 2020 , 98, 21-21	0.7	
13	PSI-1 Effects of choline on immune cell function in growing cattle supplemented with guanidinoacetic acid and creatine. <i>Journal of Animal Science</i> , 2020 , 98, 227-228	0.7	
12	Immunologic Disorders 2020 , 1717-1763.e11		
11	Proteome dataset of liver from dairy cows experiencing negative or positive energy balance at early lactation. <i>Data in Brief</i> , 2021 , 39, 107517	1.2	
10	1329 Effects of dietary fat source on performance of lactating dairy cows fed a pre-mixed concentrate. <i>Journal of Animal Science</i> , 2016 , 94, 641-641	0.7	
9	1108 Proteomic analysis reveals increased abundance of inflammation-related proteins in adipose tissues from postpartum dairy cows treated with sodium salicylate. <i>Journal of Animal Science</i> , 2016 , 94, 531-531	0.7	
8	Nutrition, Digestion and Absorption: Nutritional and Immunological Interactions 2020 , 427-427		
7	Sodium salicylate reduced mRNA abundance of hypoxia-associated genes in MAC-T cells. <i>JDS Communications</i> , 2021 , 2, 159-164	1.4	
6	1575 Relative availability for lactating dairy cattle of methionine from two sources of ruminally protected methionine. <i>Journal of Animal Science</i> , 2016 , 94, 765-765	0.7	
5	1248 The influence of genetic potential on lactation curve and survival response of commercial dairy cattle to early lactation non-steroidal antiinflammatory (NSAID) drug administration. <i>Journal of Animal Science</i> , 2016 , 94, 601-602	0.7	
4	1107 Early postpartum administration of sodium salicylate to multiparous dairy cattle is associated with alterations in feeding behavior up to 120 d in milk. <i>Journal of Animal Science</i> , 2016 , 94, 531-531	0.7	

- 3 Dietary Zinc-Amino Acid Complex Does Not Affect Markers of Mammary Epithelial Integrity or Heat Stability of Milk in Mid-Lactating Cows. *Biological Trace Element Research*, **2019**, 190, 349-357 4.5
- 2 Effects of sodium salicylate and time postpartum on mammary tissue proliferation, gene transcript profile, and DNA methylation. *Journal of Dairy Science*, **2021**, 104, 11259-11276 4
- 1 Feeding a branded, modified wet corn gluten feed to lactating dairy cows: A meta-regression approach. *Applied Animal Science*, **2021**, 37, 559-573 1.2