Juan J Loor

List of Publications by Year
in descending order

476 papers	17,384 citations	17429 63 h-index	29127 104 g-index
486 all docs	486 docs citations	486 times ranked	9812 citing authors

#	Article	IF	Citations
1	Gene networks driving bovine milk fat synthesis during the lactation cycle. BMC Genomics, 2008, 9, 366.	1.2	626
2	Regulation of energy metabolism by long-chain fatty acids. Progress in Lipid Research, 2014, 53, 124-144.	5.3	545
3	Identification of a missense mutation in the bovine ABCG2 gene with a major effect on the QTL on chromosome 6 affecting milk yield and composition in Holstein cattle. Genome Research, 2005, 15, 936-944.	2.4	335
4	Nutrition-induced ketosis alters metabolic and signaling gene networks in liver of periparturient dairy cows. Physiological Genomics, 2007, 32, 105-116.	1.0	292
5	Gene Networks Driving Bovine Mammary Protein Synthesis during the Lactation cycle. Bioinformatics and Biology Insights, 2011, 5, BBI.S7003.	1.0	283
6	Identification of reference genes for quantitative real-time PCR in the bovine mammary gland during the lactation cycle. Physiological Genomics, 2007, 29, 312-319.	1.0	272
7	Peroxisome proliferator-activated receptor-Î³ activation and long-chain fatty acids alter lipogenic gene networks in bovine mammary epithelial cells to various extents. Journal of Dairy Science, 2009, 92, 4276-4289.	1.4	245
8	Relationship Among Trans and Conjugated Fatty Acids and Bovine Milk Fat Yield Due to Dietary Concentrate and Linseed Oil. Journal of Dairy Science, 2005, 88, 726-740.	1.4	241
9	Biohydrogenation, Duodenal Flow, and Intestinal Digestibility of Trans Fatty Acids and Conjugated Linoleic Acids in Response to Dietary Forage:Concentrate Ratio and Linseed Oil in Dairy Cows. Journal of Dairy Science, 2004, 87, 2472-2485.	1.4	233
10	Physiological and pathological adaptations in dairy cows that may increase susceptibility to periparturient diseases and disorders. Italian Journal of Animal Science, 2005, 4, 323-344.	0.8	219
11	Temporal gene expression profiling of liver from periparturient dairy cows reveals complex adaptive mechanisms in hepatic function. Physiological Genomics, 2005, 23, 217-226.	1.0	198
12	ACSL1, AGPAT6, FABP3, LPIN1, and SLC27A6 Are the Most Abundant Isoforms in Bovine Mammary Tissue and Their Expression Is Affected by Stage of Lactation3. Journal of Nutrition, 2008, 138, 1019-1024.	1.3	191
13	Plane of nutrition prepartum alters hepatic gene expression and function in dairy cows as assessed by longitudinal transcript and metabolic profiling. Physiological Genomics, 2006, 27, 29-41.	1.0	173
14	Supplemental Smartamine M or MetaSmart during the transition period benefits postpartal cow performance and blood neutrophil function. Journal of Dairy Science, 2013, 96, 6248-6263.	1.4	170
15	High-throughput Methods Redefine the Rumen Microbiome and Its Relationship with Nutrition and Metabolism. Bioinformatics and Biology Insights, 2014, 8, BBI.S15389.	1.0	170
16	Effect of Linseed Oil Supplementation on Ruminal Digestion in Dairy Cows Fed Diets with Different Forage:Concentrate Ratios. Journal of Dairy Science, 2003, 86, 3999-4007.	1.4	141
17	Old and New Stories: Revelations from Functional Analysis of the Bovine Mammary Transcriptome during the Lactation Cycle. PLoS ONE, 2012, 7, e33268.	1.1	136
18	Functional Role of PPARs in Ruminants: Potential Targets for Fine-Tuning Metabolism during Growth and Lactation. PPAR Research, 2013, 2013, 1-28.	1.1	136

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19	Biomarkers of inflammation, metabolism, and oxidative stress in blood, liver, and milk reveal a better immunometabolic status in peripartal cows supplemented with Smartamine M or MetaSmart. Journal of Dairy Science, 2014, 97, 7437-7450.	1.4	134
20	Induction of Subacute Ruminal Acidosis Affects the Ruminal Microbiome and Epithelium. Frontiers in Microbiology, 2016, 7, 701.	1.5	131
21	Better postpartal performance in dairy cows supplemented with rumen-protected methionine compared with choline during the peripartal period. Journal of Dairy Science, 2016, 99, 8716-8732.	1.4	125
22	Exogenous Conjugated Linoleic Acid Isomers Reduce Bovine Milk Fat Concentration and Yield by Inhibiting De Novo Fatty Acid Synthesis. Journal of Nutrition, 1998, 128, 2411-2419.	1.3	121
23	Soybean oil and linseed oil supplementation affect profiles of ruminal microorganisms in dairy cows. Animal, 2009, 3, 1562-1569.	1.3	119
24	MicroRNA expression patterns in the bovine mammary gland are affected by stage of lactation. Journal of Dairy Science, 2012, 95, 6529-6535.	1.4	119
25	Housekeeping Gene Expression in Bovine Liver is Affected by Physiological State, Feed Intake, and Dietary Treatment. Journal of Dairy Science, 2007, 90, 2246-2252.	1.4	117
26	Review: Enhancing gastrointestinal health in dairy cows. Animal, 2018, 12, s399-s418.	1.3	116
27	Rumen-protected methionine compared with rumen-protected choline improves immunometabolic status in dairy cows during the peripartal period. Journal of Dairy Science, 2016, 99, 8956-8969.	1.4	112
28	Systems Physiology in Dairy Cattle: Nutritional Genomics and Beyond. Annual Review of Animal Biosciences, 2013, 1, 365-392.	3.6	111
29	Gene network and pathway analysis of bovine mammary tissue challenged with Streptococcus uberis reveals induction of cell proliferation and inhibition of PPARÎ³ signaling as potential mechanism for the negative relationships between immune response and lipid metabolism. BMC Genomics, 2009, 10, 542.	1.2	110
30	Nutritional management of the transition cow in the 21st century â€“ a paradigm shift in thinking. Animal Production Science, 2013, 53, 1000.	0.6	107
31	Ethyl-cellulose rumen-protected methionine enhances performance during the periparturient period and early lactation in Holstein dairy cows. Journal of Dairy Science, 2017, 100, 7455-7467.	1.4	107
32	High-Concentrate Diets and Polyunsaturated Oils Alter Trans and Conjugated Isomers in Bovine Rumen, Blood, and Milk. Journal of Dairy Science, 2005, 88, 3986-3999.	1.4	106
33	Adipogenic and energy metabolism gene networks in longissimus lumborum during rapid post-weaning growth in Angus and Angus Ã— Simmental cattle fed high-starch or low-starch diets. BMC Genomics, 2009, 10, 142.	1.2	105
34	Transcriptome profiling of the small intestinal epithelium in germfree versus conventional piglets. BMC Genomics, 2007, 8, 215.	1.2	104
35	Genomics of metabolic adaptations in the peripartal cow. Animal, 2010, 4, 1110-1139.	1.3	103
36	Reduced Fatty Acid Synthesis and Desaturation Due to Exogenous trans10, cis12-CLA in Cows Fed Oleic or Linoleic Oil. Journal of Dairy Science, 2003, 86, 1354-1369.	1.4	99

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37	Blood immunometabolic indices and polymorphonuclear neutrophil function in peripartum dairy cows are altered by level of dietary energy prepartum. Journal of Dairy Science, 2012, 95, 1749-1758.	1.4	97
38	Intestinal flow and digestibility of trans fatty acids and conjugated linoleic acids (CLA) in dairy cows fed a high-concentrate diet supplemented with fish oil, linseed oil, or sunflower oil. Animal Feed Science and Technology, 2005, 119, 203-225.	1.1	90
39	Overfeeding a moderate energy diet prepartum does not impair bovine subcutaneous adipose tissue insulin signal transduction and induces marked changes in peripartal gene network expression. Journal of Dairy Science, 2012, 95, 4333-4351.	1.4	90
40	Role of metabolic and cellular proliferation genes in ruminal development in response to enhanced plane of nutrition in neonatal Holstein calves. Journal of Dairy Science, 2012, 95, 1807-1820.	1.4	88
41	A Novel Dynamic Impact Approach (DIA) for Functional Analysis of Time-Course Omics Studies: Validation Using the Bovine Mammary Transcriptome. PLoS ONE, 2012, 7, e32455.	1.1	88
42	Effects of ruminal or duodenal supply of fish oil on milk fat secretion and profiles of trans-fatty acids and conjugated linoleic acid isomers in dairy cows fed maize silage. Animal Feed Science and Technology, 2005, 119, 227-246.	1.1	87
43	Dietary-induced negative energy balance has minimal effects on innate immunity during a Streptococcus uberis mastitis challenge in dairy cows during midlactation. Journal of Dairy Science, 2009, 92, 4301-4316.	1.4	87
44	Ethyl-cellulose rumen-protected methionine alleviates inflammation and oxidative stress and improves neutrophil function during the periparturient period and early lactation in Holstein dairy cows. Journal of Dairy Science, 2018, 101, 480-490.	1.4	87
45	RNA-Seq reveals 10 novel promising candidate genes affecting milk protein concentration in the Chinese Holstein population. Scientific Reports, 2016, 6, 26813.	1.6	85
46	Liver lipid content and inflammometabolic indices in peripartal dairy cows are altered in response to prepartal energy intake and postpartal intramammary inflammatory challenge. Journal of Dairy Science, 2013, 96, 918-935.	1.4	84
47	Maternal rumen-protected methionine supplementation and its effect on blood and liver biomarkers of energy metabolism, inflammation, and oxidative stress in neonatal Holstein calves. Journal of Dairy Science, 2016, 99, 6753-6763.	1.4	84
48	Identification of internal control genes for quantitative polymerase chain reaction in mammary tissue of lactating cows receiving lipid supplements. Journal of Dairy Science, 2009, 92, 2007-2019.	1.4	82
49	Bioinformatics analysis of microRNA and putative target genes in bovine mammary tissue infected with Streptococcus uberis. Journal of Dairy Science, 2012, 95, 6397-6408.	1.4	82
50	Prepartum dietary energy intake alters adipose tissue transcriptome profiles during the periparturient period in Holstein dairy cows. Journal of Animal Science and Biotechnology, 2020, 11, 1.	2.1	80
51	Fine metabolic regulation in ruminants via nutrientâ€“gene interactions: saturated long-chain fatty acids increase expression of genes involved in lipid metabolism and immune response partly through PPAR-Î± activation. British Journal of Nutrition, 2012, 107, 179-191.	1.2	77
52	Acylâ€CoA synthetase shortâ€chain family member 2 (ACSS2) is regulated by SREBPâ€1 and plays a role in fatty acid synthesis in caprine mammary epithelial cells. Journal of Cellular Physiology, 2018, 233, 1005-1016.	2.0	77
53	Milk fat depression induced by dietary marine algae in dairy ewes: Persistency of milk fatty acid composition and animal performance responses. Journal of Dairy Science, 2013, 96, 524-532.	1.4	76
54	Assessing and Managing Body Condition Score for the Prevention of Metabolic Disease in Dairy Cows. Veterinary Clinics of North America - Food Animal Practice, 2013, 29, 323-336.	0.5	76

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55	Body condition score at calving affects systemic and hepatic transcriptome indicators of inflammation and nutrient metabolism in grazing dairy cows. Journal of Dairy Science, 2015, 98, 1019-1032.	1.4	74
56	Genes regulating lipid and protein metabolism are highly expressed in mammary gland of lactating dairy goats. Functional and Integrative Genomics, 2015, 15, 309-321.	1.4	74
57	Effects of precalving body condition score and prepartum feeding level on production, reproduction, and health parameters in pasture-based transition dairy cows. Journal of Dairy Science, 2015, 98, 7164-7182.	1.4	74
58	Smartamine M and MetaSmart supplementation during the peripartal period alter hepatic expression of gene networks in 1-carbon metabolism, inflammation, oxidative stress, and the growth hormoneâ€“insulin-like growth factor 1 axis pathways. Journal of Dairy Science, 2014, 97, 7451-7464.	1.4	72
59	Change in subcutaneous adipose tissue metabolism and gene network expression during the transition period in dairy cows, including differences due to sire genetic merit. Journal of Dairy Science, 2013, 96, 2171-2182.	1.4	71
60	Abundance of ruminal bacteria, epithelial gene expression, and systemic biomarkers of metabolism and inflammation are altered during the peripartal period in dairy cows. Journal of Dairy Science, 2015, 98, 8940-8951.	1.4	71
61	In Vitro Culture and Characterization of a Mammary Epithelial Cell Line from Chinese Holstein Dairy Cow. PLoS ONE, 2009, 4, e7636.	1.1	70
62	Calving body condition score affects indicators of health in grazing dairy cows. Journal of Dairy Science, 2013, 96, 5811-5825.	1.4	69
63	Cyanidinâ€3â€Oâ€glucoside improves nonâ€alcoholic fatty liver disease by promoting PINK1â€mediated mitophagy in mice. British Journal of Pharmacology, 2020, 177, 3591-3607.	2.7	68
64	miR-148a and miR-17â€“5p synergistically regulate milk TAG synthesis via PPARGC1A and PPARA in goat mammary epithelial cells. RNA Biology, 2017, 14, 326-338.	1.5	67
65	Maternal consumption of organic trace minerals alters calf systemic and neutrophil mRNA and microRNA indicators of inflammation and oxidative stress. Journal of Dairy Science, 2015, 98, 7717-7729.	1.4	66
66	SCD1 Alters Long-Chain Fatty Acid (LCFA) Composition and Its Expression Is Directly Regulated by SREBP-1 and PPARÎ³ 1 in Dairy Goat Mammary Cells. Journal of Cellular Physiology, 2017, 232, 635-649.	2.0	66
67	Hepatic Activity and Transcription of Betaine-Homocysteine Methyltransferase, Methionine Synthase, and Cystathionine Synthase in Periparturient Dairy Cows Are Altered to Different Extents by Supply of Methionine and Choline. Journal of Nutrition, 2017, 147, 11-19.	1.3	66
68	Peroxisome proliferator-activated receptor-Î³ stimulates the synthesis of monounsaturated fatty acids in dairy goat mammary epithelial cells via the control of stearoyl-coenzyme A desaturase. Journal of Dairy Science, 2013, 96, 7844-7853.	1.4	65
69	Tans18:1 and 18:2 Isomers in Blood Plasma and Milk Fat of Grazing Cows Fed a Grain Supplement Containing Solvent-Extracted or Mechanically Extracted Soybean Meal. Journal of Dairy Science, 2002, 85, 1197-1207.	1.4	64
70	Functional Adaptations of the Transcriptome to Mastitis-Causing Pathogens: The Mammary Gland and Beyond. Journal of Mammary Gland Biology and Neoplasia, 2011, 16, 305-322.	1.0	64
71	Methionine and Choline Supply during the Periparturient Period Alter Plasma Amino Acid and One-Carbon Metabolism Profiles to Various Extents: Potential Role in Hepatic Metabolism and Antioxidant Status. Nutrients, 2017, 9, 10.	1.7	64
72	Greater expression of TLR2, TLR4, and IL6 due to negative energy balance is associated with lower expression of HLA-DRA and HLA-A in bovine blood neutrophils after intramammary mastitis challenge with Streptococcus uberis. Functional and Integrative Genomics, 2010, 10, 53-61.	1.4	63

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73	Nutrient digestion, biohydrogenation, and fatty acid profiles in blood plasma and milk fat from lactating Holstein cows fed canola oil or canolamide. Animal Feed Science and Technology, 2002, 97, 65-82.	1.1	62
74	Dietary impacts on rumen microbiota in beef and dairy production. Animal Frontiers, 2016, 6, 22-29.	0.8	62
75	Ratio of lysine to methionine alters expression of genes involved in milk protein transcription and translation and mTOR phosphorylation in bovine mammary cells. Physiological Genomics, 2014, 46, 268-275.	1.0	61
76	Visceral adipose tissue mass in nonlactating dairy cows fed diets differing in energy density1. Journal of Dairy Science, 2014, 97, 3420-3430.	1.4	61
77	MicroRNA Bta-miR-181a regulates the biosynthesis of bovine milk fat by targeting ACSL1. Journal of Dairy Science, 2016, 99, 3916-3924.	1.4	59
78	Trans10,cis12â€“18:2 Is a More Potent Inhibitor of De Novo Fatty Acid Synthesis and Desaturation than cis9,trans11â€“18:2 in the Mammary Gland of Lactating Mice. Journal of Nutrition, 2004, 134, 1362-1368.	1.3	58
79	Linking Peripartal Dynamics of Ruminal Microbiota to Dietary Changes and Production Parameters. Frontiers in Microbiology, 2017, 7, 2143.	1.5	58
80	Mammary gene expression profiles during an intramammary challenge reveal potential mechanisms linking negative energy balance with impaired immune response. Physiological Genomics, 2010, 41, 161-170.	1.0	56
81	Gut response induced by weaning in piglet features marked changes in immune and inflammatory response. Functional and Integrative Genomics, 2014, 14, 657-671.	1.4	56
82	Effects of Dietary <scp>l</scp>-Arginine and N-Carbamylglutamate Supplementation on Intestinal Integrity, Immune Function, and Oxidative Status in Intrauterine-Growth-Retarded Suckling Lambs. Journal of Agricultural and Food Chemistry, 2018, 66, 4145-4154.	2.4	56
83	Biohydrogenation of unsaturated fatty acids in continuous culture fermenters during digestion of orchardgrass or red clover with three levels of ground corn supplementation. Journal of Animal Science, 2003, 81, 1611-1627.	0.2	55
84	Adipose tissue depots of Holstein cows are immune responsive: Inflammatory gene expression in vitro. Domestic Animal Endocrinology, 2010, 38, 168-178.	0.8	54
85	iTRAQ-proteomics and bioinformatics analyses of mammary tissue from cows with clinical mastitis due to natural infection with Staphylococci aureus. BMC Genomics, 2014, 15, 839.	1.2	54
86	Circulating amino acids in blood plasma during the peripartal period in dairy cows with different liver functionality index. Journal of Dairy Science, 2016, 99, 2257-2267.	1.4	53
87	MiRâ€145 Regulates Lipogenesis in Goat Mammary Cells Via Targeting INSIG1 and Epigenetic Regulation of Lipidâ€Related Genes. Journal of Cellular Physiology, 2017, 232, 1030-1040.	2.0	53
88	A 7872 cDNA microarray and its use in bovine functional genomics. Veterinary Immunology and Immunopathology, 2005, 105, 235-245.	0.5	52
89	Functional welfare â€“ using biochemical and molecular technologies to understand better the welfare state of peripartal dairy cattle. Animal Production Science, 2013, 53, 931.	0.6	52
90	Fertility and the transition dairy cow. Reproduction, Fertility and Development, 2018, 30, 85.	0.1	52

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91	MicroRNA-106b Regulates Milk Fat Metabolism via ATP Binding Cassette Subfamily A Member 1 (ABCA1) in Bovine Mammary Epithelial Cells. Journal of Agricultural and Food Chemistry, 2019, 67, 3981-3990.	2.4	51
92	Characterization of 18:1 and 18:2 isomers produced during microbial biohydrogenation of unsaturated fatty acids from canola and soya bean oil in the rumen of lactating cows. Journal of Animal Physiology and Animal Nutrition, 2002, 86, 422-432.	1.0	50
93	Short communication: Endoplasmic reticulum stress gene network expression in bovine mammary tissue during the lactation cycle. Journal of Dairy Science, 2012, 95, 2562-2566.	1.4	50
94	Residual feed intake in beef cattle and its association with carcass traits, ruminal solid-fraction bacteria, and epithelium gene expression. Journal of Animal Science and Biotechnology, 2018, 9, 67.	2.1	50
95	TRIENNIAL LACTATION SYMPOSIUM: Nutrigenomics in dairy cows: Nutrients, transcription factors, and techniques1,2. Journal of Animal Science, 2015, 93, 5531-5553.	0.2	50
96	Fatty acid-induced endoplasmic reticulum stress promoted lipid accumulation in calf hepatocytes, and endoplasmic reticulum stress existed in the liver of severe fatty liver cows. Journal of Dairy Science, 2019, 102, 7359-7370.	1.4	49
97	Sustained upregulation of stearoyl-CoA desaturase in bovine mammary tissue with contrasting changes in milk fat synthesis and lipogenic gene networks caused by lipid supplements. Functional and Integrative Genomics, 2010, 10, 561-575.	1.4	48
98	Placentome Nutrient Transporters and Mammalian Target of Rapamycin Signaling Proteins Are Altered by the Methionine Supply during Late Gestation in Dairy Cows and Are Associated with Newborn Birth Weight. Journal of Nutrition, 2017, 147, 1640-1647.	1.3	48
99	Varying the ratio of Lys:Met while maintaining the ratios of Thr:Phe, Lys:Thr, Lys:His, and Lys:Val alters mammary cellular metabolites, mammalian target of rapamycin signaling, and gene transcription. Journal of Dairy Science, 2018, 101, 1708-1718.	1.4	48
100	High-starch diets induce precocious adipogenic gene network up-regulation in longissimus lumborum of early-weaned Angus cattle. British Journal of Nutrition, 2010, 103, 953-963.	1.2	47
101	Expression of Metabolic, Tissue Remodeling, Oxidative Stress, and Inflammatory Pathways in Mammary Tissue during Involution in Lactating Dairy Cows. Bioinformatics and Biology Insights, 2010, 4, BBI.S5850.	1.0	47
102	Requirement for digestible calcium by eleven- to twenty-fiveâ€“kilogram pigs as determined by growth performance, bone ash concentration, calcium and phosphorus balances, and expression of genes involved in transport of calcium in intestinal and kidney cells. Journal of Animal Science, 2016, 94, 3321.	0.2	47
103	Supplementation with rumen-protected methionine or choline during the transition period influences whole-blood immune response in periparturient dairy cows. Journal of Dairy Science, 2017, 100, 3958-3968.	1.4	47
104	Application of Top-Down and Bottom-up Systems Approaches in Ruminant Physiology and Metabolism. Current Genomics, 2012, 13, 379-394.	0.7	46
105	MicroRNA-26a/b and their host genes synergistically regulate triacylglycerol synthesis by targeting theINSIG1gene. RNA Biology, 2016, 13, 500-510.	1.5	46
106	Adipose tissue lipogenic gene networks due to lipid feeding and milk fat depression in lactating cows. Journal of Dairy Science, 2009, 92, 4290-4300.	1.4	45
107	Glucose transporter and hypoxia-associated gene expression in the mammary gland of transition dairy cattle. Journal of Dairy Science, 2011, 94, 2912-2922.	1.4	45
108	Effect of the level of maternal energy intake prepartum on immunometabolic markers, polymorphonuclear leukocyte function, and neutrophil gene network expression in neonatal Holstein heifer calves. Journal of Dairy Science, 2013, 96, 3573-3587.	1.4	45

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109	Parturition in dairy cows temporarily alters the expression of genes in circulating neutrophils. Journal of Dairy Science, 2016, 99, 6470-6483.	1.4	45
110	Amino acids and the regulation of oxidative stress and immune function in dairy cattle. Journal of Animal Science, 2020, 98, S175-S193.	0.2	45
111	Effects of Arginine Concentration on the In Vitro Expression of Casein and mTOR Pathway Related Genes in Mammary Epithelial Cells from Dairy Cattle. PLoS ONE, 2014, 9, e95985.	1.1	45
112	Dietary lipid during the transition period to manipulate subcutaneous adipose tissue peroxisome proliferator-activated receptor-Î³ co-regulator and target gene expression. Journal of Dairy Science, 2011, 94, 5913-5925.	1.4	44
113	Enhanced supply of methionine or arginine alters mechanistic target of rapamycin signaling proteins, messenger RNA, and microRNA abundance in heat-stressed bovine mammary epithelial cells in vitro. Journal of Dairy Science, 2019, 102, 2469-2480.	1.4	44
114	Supplemental methionine, choline, or taurine alter in vitro gene network expression of polymorphonuclear leukocytes from neonatal Holstein calves. Journal of Dairy Science, 2017, 100, 3155-3165.	1.4	43
115	Effect of dietary starch level and high rumen-undegradable protein on endocrine-metabolic status, milk yield, and milk composition in dairy cows during early and late lactation. Journal of Dairy Science, 2014, 97, 7788-7803.	1.4	42
116	Hepatic global DNA and peroxisome proliferator-activated receptor alpha promoter methylation are altered in peripartal dairy cows fed rumen-protected methionine. Journal of Dairy Science, 2016, 99, 234-244.	1.4	42
117	Innate immune responses induced by lipopolysaccharide and lipoteichoic acid in primary goat mammary epithelial cells. Journal of Animal Science and Biotechnology, 2017, 8, 29.	2.1	42
118	Hepatic Metabolic, Inflammatory, and Stress-Related Gene Expression in Growing Mice Consuming a Low Dose ofTrans-10,cis-12-Conjugated Linoleic Acid. Journal of Lipids, 2012, 2012, 1-10.	1.9	41
119	miR-30e-5p and miR-15a Synergistically Regulate Fatty Acid Metabolism in Goat Mammary Epithelial Cells via LRP6 and YAP1. International Journal of Molecular Sciences, 2016, 17, 1909.	1.8	41
120	Body condition score and plane of nutrition prepartum affect adipose tissue transcriptome regulators of metabolism and inflammation in grazing dairy cows during the transition period. Journal of Dairy Science, 2016, 99, 758-770.	1.4	41
121	Methionine and valine activate the mammalian target of rapamycin complex 1 pathway through heterodimeric amino acid taste receptor (TAS1R1/TAS1R3) and intracellular Ca2+ in bovine mammary epithelial cells. Journal of Dairy Science, 2018, 101, 11354-11363.	1.4	41
122	Residual feed intake divergence during the preweaning period is associated with unique hindgut microbiome and metabolome profiles in neonatal Holstein heifer calves. Journal of Animal Science and Biotechnology, 2020, 11, 13.	2.1	41
123	Long-chain fatty acid effects on peroxisome proliferator-activated receptor-Î±-regulated genes in Madin-Darby bovine kidney cells: Optimization of culture conditions using palmitate. Journal of Dairy Science, 2009, 92, 2027-2037.	1.4	40
124	Feed restriction, but not l-carnitine infusion, alters the liver transcriptome by inhibiting sterol synthesis and mitochondrial oxidative phosphorylation and increasing gluconeogenesis in mid-lactation dairy cows. Journal of Dairy Science, 2013, 96, 2201-2213.	1.4	40
125	Central Role of the PPARÎ³ Gene Network in Coordinating Beef Cattle Intramuscular Adipogenesis in Response to Weaning Age and Nutrition. Gene Regulation and Systems Biology, 2014, 8, GRSB.S11782.	2.3	40
126	Inflammation- and lipid metabolism-related gene network expression in visceral and subcutaneous adipose depots of Holstein cows. Journal of Dairy Science, 2014, 97, 3441-3448.	1.4	40

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127	Supplementing Zn, Mn, and Cu from amino acid complexes and Co from cobalt glucoheptonate during the peripartal period benefits postpartal cow performance and blood neutrophil function. Journal of Dairy Science, 2016, 99, 1868-1883.	1.4	40
128	Prepartal standing behavior as a parameter for early detection of postpartal subclinical ketosis associated with inflammation and liver function biomarkers in peripartal dairy cows. Journal of Dairy Science, 2018, 101, 8224-8235.	1.4	40
129	Maternal supply of methionine during late pregnancy is associated with changes in immune function and abundance of microRNA and mRNA in Holstein calf polymorphonuclear leukocytes. Journal of Dairy Science, 2018, 101, 8146-8158.	1.4	40
130	Effects of dietarycis9,trans11â€“18: 2,trans10,cis12â€“18: 2, or vaccenic acid (trans11â€“18: 1) during lactation on body composition, tissue fatty acid profiles, and litter growth in mice. British Journal of Nutrition, 2003, 90, 1039-1048.	1.2	39
131	Internal Controls for Quantitative Polymerase Chain Reaction of Swine Mammary Glands During Pregnancy and Lactation. Journal of Dairy Science, 2008, 91, 3057-3066.	1.4	39
132	Maternal supplementation with rumen-protected methionine increases prepartal plasma methionine concentration and alters hepatic mRNA abundance of 1-carbon, methionine, and transsulfuration pathways in neonatal Holstein calves. Journal of Dairy Science, 2017, 100, 3209-3219.	1.4	39
133	Fatty acid elongase 6 plays a role in the synthesis of long-chain fatty acids in goat mammary epithelial cells. Journal of Dairy Science, 2017, 100, 4987-4995.	1.4	39
134	What Are Omics Sciences?. , 2017, , 1-7.		39
135	MiR-16a Regulates Milk Fat Metabolism by Targeting Large Tumor Suppressor Kinase 1 (LATS1) in Bovine Mammary Epithelial Cells. Journal of Agricultural and Food Chemistry, 2019, 67, 11167-11178.	2.4	39
136	Influence of the concentration of dietary digestible calcium on growth performance, bone mineralization, plasma calcium, and abundance of genes involved in intestinal absorption of calcium in pigs from 11 to 22â€‰kg fed diets with different concentrations of digestible phosphorus. Journal of Animal Science and Biotechnology, 2019, 10, 47.	2.1	39
137	Methionine and choline supply during the peripartal period alter polymorphonuclear leukocyte immune response and immunometabolic gene expression in Holstein cows. Journal of Dairy Science, 2018, 101, 10374-10382.	1.4	38
138	Supply of Methionine During Late-Pregnancy Alters Fecal Microbiota and Metabolome in Neonatal Dairy Calves Without Changes in Daily Feed Intake. Frontiers in Microbiology, 2019, 10, 2159.	1.5	38
139	Methionine and arginine supplementation alter inflammatory and oxidative stress responses during lipopolysaccharide challenge in bovine mammary epithelial cells in vitro. Journal of Dairy Science, 2020, 103, 676-689.	1.4	36
140	Integrative Analyses of Hepatic Differentially Expressed Genes and Blood Biomarkers during the Peripartal Period between Dairy Cows Overfed or Restricted-Fed Energy Prepartum. PLoS ONE, 2014, 9, e99757.	1.1	36
141	Alterations in blood plasma and milk fatty acid profiles of lactating Holstein cows in response to ruminal infusion of a conjugated linoleic acid mixture. Animal Research, 2001, 50, 463-476.	0.6	35
142	Grazing allowance after the morning or afternoon milking for lactating cows fed a total mixed ration (TMR) enhances trans11-18:1 and cis9,trans11-18:2 (rumenic acid) in milk fat to different extents. Animal Feed Science and Technology, 2003, 109, 105-119.	1.1	35
143	Insulin Sensitivity in Adipose and Skeletal Muscle Tissue of Dairy Cows in Response to Dietary Energy Level and 2,4-Thiazolidinedione (TZD). PLoS ONE, 2015, 10, e0142633.	1.1	35
144	Hepatic metabolomics and transcriptomics to study susceptibility to ketosis in response to prepartal nutritional management. Journal of Animal Science and Biotechnology, 2019, 10, 96.	2.1	35

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145	Potential of Mulberry Leaf Biomass and Its Flavonoids to Improve Production and Health in Ruminants: Mechanistic Insights and Prospects. Animals, 2020, 10, 2076.	1.0	35
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