Matthew C Lucy

List of Publications by Year
in descending order

115 papers	5,906 citations	71102 41 h-index	74163 75 g-index
115 all docs	115 docs citations	115 times ranked	3318 citing authors

#	Article	IF	Citations
1	Reproductive Loss in High-Producing Dairy Cattle: Where Will It End?. Journal of Dairy Science, 2001, 84, 1277-1293.	3.4	1,049
2	Invited Review: New Perspectives on the Roles of Nutrition and Metabolic Priorities in the Subfertility of High-Producing Dairy Cows. Journal of Dairy Science, 2007, 90, 4022-4032.	3.4	246
3	Insulin restores GH responsiveness during lactation-induced negative energy balance in dairy cattle: effects on expression of IGF-I and GH receptor 1A. Journal of Endocrinology, 2003, 176, 205-217.	2.6	225
4	Effects of Controlled Heat Stress on Ovarian Function of Dairy Cattle. 1. Lactating Cows. Journal of Dairy Science, 1998, 81, 2124-2131.	3.4	191
5	Regulation of Ovarian Follicular Growth by Somatotropin and Insulin-Like Growth Factors in Cattle. Journal of Dairy Science, 2000, 83, 1635-1647.	3.4	191
6	Regulation of Interferon-Stimulated Genes in Peripheral Blood Leukocytes in Pregnant and Bred, Nonpregnant Dairy Cows. Journal of Dairy Science, 2007, 90, 274-280.	3.4	181
7	Follicular Function in Lactating Dairy Cows Treated with Sustained-Release Bovine Somatotropin. Journal of Dairy Science, 1997, 80, 273-285.	3.4	177
8	Functional Differences in the Growth Hormone and Insulinâ€like Growth Factor Axis in Cattle and Pigs: Implications for Postâ€partum Nutrition and Reproduction. Reproduction in Domestic Animals, 2008, 43, 31-39.	1.4	153
9	Measurement of interferon-tau (IFN-Ï„) stimulated gene expression in blood leukocytes for pregnancy diagnosis within 18â€“20d after insemination in dairy cattle. Animal Reproduction Science, 2010, 121, 24-33.	1.5	141
10	Somatotropic axis components and nutrient partitioning in genetically diverse dairy cows managed under different feed allowances in a pasture system. Journal of Dairy Science, 2009, 92, 526-539.	3.4	123
11	Changes in the Somatotrophic Axis Associated with the Initiation of Lactation. Journal of Dairy Science, 2001, 84, E113-E119.	3.4	113
12	Concentrations of nonesterified fatty acids and glucose in blood of periparturient dairy cows are indicative of pregnancy success at first insemination. Journal of Dairy Science, 2013, 96, 181-188.	3.4	105
13	Effects of Recombinant Bovine Somatotropin (Sometribove) on Ovarian Function in Lactating and Nonlactating Dairy Cows. Journal of Dairy Science, 1993, 76, 1002-1013.	3.4	104
14	Effects of Controlled Heat Stress on Ovarian Function of Dairy Cattle. 2. Heifers. Journal of Dairy Science, 1998, 81, 2132-2138.	3.4	104
15	Hot topic: 16S rRNA gene sequencing reveals the microbiome of the virgin and pregnant bovine uterus. Journal of Dairy Science, 2017, 100, 4953-4960.	3.4	100
16	Immunohistochemical and Nucleic Acid Analysis of Somatotropin Receptor Populations in the Bovine Ovary. Biology of Reproduction, 1993, 48, 1219-1227.	2.7	95
17	Effects of Growth Hormone and Pregnancy on Expression of Growth Hormone Receptor, Insulin-Like Growth Factor-I, and Insulin-Like Growth Factor Binding Protein-2 and -3 Genes in Bovine Uterus, Ovary, and Oviduct1. Biology of Reproduction, 1996, 55, 996-1002.	2.7	95
18	Gonadotropin-Releasing Hormone at Estrus: Luteinizing Hormone, Estradiol, and Progesterone during the Periestrual and Postinsemination Periods in Dairy Cattle1. Biology of Reproduction, 1986, 35, 300-311.	2.7	87

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19	Invited review: Recommendations for reporting intervention studies on reproductive performance in dairy cattle: Improving design, analysis, and interpretation of research on reproduction. Journal of Dairy Science, 2016, 99, 1-17.	3.4	85
20	Variants of the 5â€²-untranslated region of the bovine growth hormone receptor mRNA: isolation, expression and effects on translational efficiency. Gene, 2001, 265, 45-53.	2.2	83
21	Heat stress in pregnant sows: Thermal responses and subsequent performance of sows and their offspring. Molecular Reproduction and Development, 2017, 84, 946-956.	2.0	82
22	Effects of administering progesterone at selected intervals after insemination of synchronized heifers on pregnancy rates and resynchronization of returns to service. Theriogenology, 1996, 46, 1117-1130.	2.1	69
23	Follicular Dominance in Cattle Is Associated With Divergent Patterns of Ovarian Gene Expression for Insulin-Like Growth Factor (IGF)-I, IGF-II, and IGF Binding Protein-2 in Dominant and Subordinate Follicles. Domestic Animal Endocrinology, 1998, 15, 55-63.	1.6	69
24	Messenger Ribonucleic Acid for Insulin-Like Growth Factors-I and -II, Insulin-Like Growth Factor-Binding Protein-2, Gonadotropin Receptors, and Steroidogenic Enzymes in Porcine Follicles1. Biology of Reproduction, 1996, 55, 1045-1054.	2.7	64
25	Endocrine and metabolic mechanisms linking postpartum glucose with early embryonic and foetal development in dairy cows. Animal, 2014, 8, 82-90.	3.3	64
26	Cytokines from the pig conceptus: roles in conceptus development in pigs. Journal of Animal Science and Biotechnology, 2014, 5, 51.	5.3	64
27	Growth and the Initiation of Steroidogenesis in Porcine Follicles Are Associated with Unique Patterns of Gene Expression for Individual Componentsof the Ovarian Insulin-Like Growth Factor System1. Biology of Reproduction, 2000, 63, 942-952.	2.7	62
28	Follicular dynamics, plasma metabolites, hormones and insulin-like growth factor I (IGF-I) in lactating cows with positive or negative energy balance during the preovulatory period. Reproduction, Nutrition, Development, 1992, 32, 331-341.	1.9	57
29	The use of hormonal treatments to improve the reproductive performance of lactating dairy cows in feedlot or pasture-based management systems. Animal Reproduction Science, 2004, 82-83, 495-512.	1.5	57
30	Activation of the transcription factor, nuclear factor kappa-B, during the estrous cycle and early pregnancy in the pig. Reproductive Biology and Endocrinology, 2010, 8, 39.	3.3	57
31	Plasma Hormones and Expression of Growth Hormone Receptor and Insulin-Like Growth Factor-I mRNA in Hepatic Tissue of Periparturient Dairy Cows. Journal of Dairy Science, 2003, 86, 3920-3926.	3.4	56
32	Gestational Heat Stress Alters Postnatal Offspring Body Composition Indices and Metabolic Parameters in Pigs. PLoS ONE, 2014, 9, e110859.	2.5	56
33	Expression of Somatotropin Receptor Messenger Ribonucleic Acid in Bovine Tissues. Journal of Dairy Science, 1998, 81, 1889-1895.	3.4	55
34	Isolation and Characterization of a Novel Promoter for the Bovine Growth Hormone Receptor Gene. Journal of Biological Chemistry, 1999, 274, 7893-7900.	3.4	52
35	Controlling First Service and Calving Interval by Prostaglandin F2Î±, Gonadotropin-Releasing Hormone, and Timed Insemination. Journal of Dairy Science, 1986, 69, 2186-2194.	3.4	48
36	Growth Hormone Receptor, Insulin-Like Growth Factor (IGF)-1, and IGF-Binding Protein-2 Expression in the Reproductive Tissues of Early Postpartum Dairy Cows. Journal of Dairy Science, 2008, 91, 1802-1813.	3.4	47

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37	Effects of somatotropin on the conceptus, uterus, and ovary during maternal recognition of pregnancy in cattle. Domestic Animal Endocrinology, 1995, 12, 73-82.	1.6	46
38	Plasma gh, igf-i, and conception rate in cattle treated with low doses of recombinant bovine gh. Theriogenology, 1999, 51, 1285-1296.	2.1	46
39	Fertility in high-producing dairy cows: Reasons for decline and corrective strategies for sustainable improvement. Reproduction in Domestic Ruminants, 2007, 6, 237-254.	0.1	46
40	Extended function of the corpus luteum and earlier development of the second follicular wave in heifers treated with bovine somatotropin. Theriogenology, 1994, 41, 561-572.	2.1	43
41	Growth Hormone (GH) Binding and Expression of GH Receptor 1A mRNA in Hepatic Tissue of Periparturient Dairy Cows. Journal of Dairy Science, 2003, 86, 3933-3940.	3.4	43
42	Symposium review: Selection for fertility in the modern dairy cowâ€"Current status and future direction for genetic selection. Journal of Dairy Science, 2019, 102, 3706-3721.	3.4	43
43	Partial Feed Restriction Decreases Growth Hormone Receptor 1A mRNA Expression in Postpartum Dairy Cows. Journal of Dairy Science, 2006, 89, 611-619.	3.4	41
44	Luteinization of porcine preovulatory follicles leads to systematic changes in follicular gene expression. Reproduction, 2006, 132, 133-145.	2.6	40
45	Activation of the Transcription Factor Nuclear Factor-Kappa B in Uterine Luminal Epithelial Cells by Interleukin 1 Beta 2: A Novel Interleukin 1 Expressed by the Elongating Pig Conceptus1. Biology of Reproduction, 2015, 92, 107.	2.7	40
46	Rapid conceptus elongation in the pig: An interleukin 1 beta 2 and estrogenâ€regulated phenomenon. Molecular Reproduction and Development, 2017, 84, 760-774.	2.0	40
47	Growth hormone regulation of follicular growth. Reproduction, Fertility and Development, 2012, 24, 19.	0.4	39
48	Technical note: A rapid enzyme-linked immunosorbent assay blood test for pregnancy in dairy and beef cattle. Journal of Dairy Science, 2009, 92, 3819-3824.	3.4	37
49	Developmental changes in thermoprotective actions of insulin-like growth factor-1 on the preimplantation bovine embryo. Molecular and Cellular Endocrinology, 2011, 332, 170-179.	3.2	37
50	Uterine and Hepatic Gene Expression in Relation to Days Postpartum, Estrus, and Pregnancy in Postpartum Dairy Cows. Journal of Dairy Science, 2008, 91, 140-150.	3.4	35
51	Pregnancy development from day 28 to 42 of gestation in postpartum Holstein cows that were either milked (lactating) or not milked (not lactating) after calving. Reproduction, 2012, 143, 699-711.	2.6	34
52	Somatotropic axis and concentrate supplementation in grazing dairy cows of genetically diverse origin. Journal of Dairy Science, 2011, 94, 303-315.	3.4	33
53	Ultrasonic identification of follicular populations and return to estrus in early postpartum dairy cows given intravaginal progesterone for 15 days. Theriogenology, 1990, 34, 325-340.	2.1	32
54	Messenger ribonucleic acid expression for growth hormone receptor, luteinizing hormone receptor, and steroidogenic enzymes during the estrous cycle and pregnancy in porcine and bovine corpora lutea. Domestic Animal Endocrinology, 1996, 13, 431-444.	1.6	32

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55	Expression of Growth Hormone Receptor 1A mRNA is Decreased in Dairy Cows but not in Beef Cows at Parturition. Journal of Dairy Science, 2005, 88, 1370-1377.	3.4	32
56	Short communication: Glucose infusion into early postpartum cows defines an upper physiological set point for blood glucose and causes rapid and reversible changes in blood hormones and metabolites. Journal of Dairy Science, 2013, 96, 5762-5768.	3.4	29
57	Uterine Progesterone Receptor Expression, Conceptus Development, and Ovarian Function in Pigs Treated with RU 486 During Early Pregnancy1. Biology of Reproduction, 2011, 84, 130-139.	2.7	26
58	Stress, strain, and pregnancy outcome in postpartum cows. Animal Reproduction, 2019, 16, 455-464.	1.0	26
59	Expression of alternate growth hormone receptor messenger rna in ovary and uterus of cattle. Domestic Animal Endocrinology, 1996, 13, 421-430.	1.6	25
60	A novel phenotype for Laron dwarfism in miniature Bos indicus cattle suggests that the expression of growth hormone receptor 1A in liver is required for normal growthâ˜†. Domestic Animal Endocrinology, 1999, 17, 421-437.	1.6	25
61	Effect of recombinant bovine somatotropin on superovulatory response and recipient pregnancy rates in a commercial embryo transfer program. Theriogenology, 2003, 59, 1919-1928.	2.1	23
62	Effect of manipulating progesterone before timed artificial insemination on reproductive and endocrine parameters in seasonal-calving, pasture-based Holstein-Friesian cows. Journal of Dairy Science, 2016, 99, 6780-6792.	3.4	23
63	Reduced Insulin-Like Growth Factor-I after Acute Feed Restriction in Lactating Dairy Cows is Independent of Changes in Growth Hormone Receptor 1A mRNA. Journal of Dairy Science, 2002, 85, 748-754.	3.4	22
64	Expression analysis of key somatotropic axis and liporegulatory genes in ghrelin- and obestatin-infused dairy cows. Domestic Animal Endocrinology, 2010, 39, 76-83.	1.6	20
65	Short communication: Glucose and fructose concentrations and expression of glucose transporters in 4- to 6-week pregnancies collected from Holstein cows that were either lactating or not lactating. Journal of Dairy Science, 2012, 95, 5095-5101.	3.4	19
66	Comparison of innate immune responses and somatotropic axis components of Holstein and MontbÃ©liarde-sired crossbred dairy cows during the transition period. Journal of Dairy Science, 2013, 96, 3588-3598.	3.4	18
67	The effect of exogenous glucose infusion on early embryonic development in lactating dairy cows. Journal of Dairy Science, 2018, 101, 11285-11296.	3.4	18
68	Expression of Growth Hormone Receptor 1A Messenger Ribonucleic Acid in Liver of Dairy Cows During Lactation and After Administration of Recombinant Bovine Somatotropin. Journal of Dairy Science, 1999, 82, 1910-1916.	3.4	17
69	A miniature condition in Brahman cattle is associated with a single nucleotide mutation within the growth hormone gene. Domestic Animal Endocrinology, 2009, 37, 104-111.	1.6	17
70	Technical note: Validation of a chemical pregnancy test in dairy cows that uses whole blood, shortened incubation times, and visual readout. Journal of Dairy Science, 2016, 99, 7634-7641.	3.4	17
71	Lymphocytic foci in the endometrium of pregnant dairy cows: Characterization and association with reduced placental weight and embryonic loss. Theriogenology, 2016, 86, 1711-1719.	2.1	16
72	Hot topic: Successful fixed-time insemination within 21 d after first insemination by combining chemical pregnancy diagnosis on d 18 with a rapid resynchronization program. Journal of Dairy Science, 2010, 93, 5668-5672.	3.4	15

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73	Short communication: Genetic differences between New Zealand and North American dairy cows alter milk production and gluconeogenic enzyme expression. Journal of Dairy Science, 2012, 95, 455-459.	3.4	14
74	Concurrent and long-term associations between the endometrial microbiota and endometrial transcriptome in postpartum dairy cows. BMC Genomics, 2019, 20, 405.	2.8	13
75	Conceptus interferon gamma is essential for establishment of pregnancy in the pig. Biology of Reproduction, 2021, 105, 1577-1590.	2.7	13
76	Growth of the conceptus from day 33 to 45 of pregnancy is minimally associated with concurrent hormonal or metabolic status in postpartum dairy cows. Animal Reproduction Science, 2016, 168, 10-18.	1.5	12
77	Synchronisation of oestrus in dairy cows using prostaglandin F2Î±, gonadotrophin-releasing hormone, and oestradiol cypionate. Animal Reproduction Science, 2003, 76, 163-176.	1.5	11
78	Timed Artificial Insemination of Two Consecutive Services in Dairy Cows Using Prostaglandin F2 and Gonadotropin-Releasing Hormone. Journal of Dairy Science, 2007, 90, 691-698.	3.4	11
79	Evaluation and mitigation of the effects of in utero heat stress on piglet growth performance, postabsorptive metabolism, and stress response following weaning and transport. Journal of Animal Science, 2020, 98, .	0.5	11
80	The transcriptome of the endometrium and placenta is associated with pregnancy development but not lactation status in dairy cowsâ€,â€¡. Biology of Reproduction, 2017, 97, 18-31.	2.7	10
81	In utero heat stress causes reduced testicular area at puberty, reduced total sperm production, and increased sperm abnormalities in boars. Animal Reproduction Science, 2018, 192, 126-135.	1.5	9
82	In utero heat stress alters the postnatal innate immune response of pigs. Journal of Animal Science, 2020, 98, .	0.5	9
83	Non-lactational traits of importance in dairy cows and applications for emerging biotechnologies. New Zealand Veterinary Journal, 2005, 53, 406-415.	0.9	8
84	Evaluating the Effects of In Utero Heat Stress on Piglet Physiology and Behavior Following Weaning and Transport. Animals, 2019, 9, 191.	2.3	8
85	Short communication: Growth hormone receptor expression in two dairy breeds during the periparturient period. Journal of Dairy Science, 2009, 92, 2706-2710.	3.4	7
86	Effect of different gonadorelin (GnRH) products used for the first or resynchronized timed artificial insemination on pregnancy rates in postpartum dairy cows. Theriogenology, 2015, 84, 504-508.	2.1	7
87	Scanning electron microscopy of the surface epithelium of the bovine endometrium. Journal of Dairy Science, 2020, 103, 12083-12090.	3.4	7
88	Effect of growth hormone administration to mature miniature Brahman cattle treated with or without insulin on circulating concentrations of insulin-like growth factor-I and other metabolic hormones and metabolites. Domestic Animal Endocrinology, 2011, 41, 1-13.	1.6	6
89	Gene expression in liver and adipose tissue is altered during and after temporary changes to postpartum milking frequency. Journal of Dairy Science, 2014, 97, 2701-2717.	3.4	6
90	Short communication: Test for nonpregnancy in dairy cows based on plasma progesterone concentrations before and after timed artificial insemination. Journal of Dairy Science, 2016, 99, 5858-5865.	3.4	6

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91	Ovarian function and the establishment and maintenance of pregnancy in dairy cows with and without evidence of postpartum uterine disease. Journal of Dairy Science, 2020, 103, 10715-10727.	3.4	6
92	Reproduction in grazing dairy cows treated with 14-day controlled internal drug release for presynchronization before timed artificial insemination compared with artificial insemination after observed estrus. Journal of Dairy Science, 2013, 96, 300-306.	3.4	5
93	Short communication: Presynchronization for timed artificial insemination in grazing dairy cows by using progesterone for 14 days with or without prostaglandin F2Î± at the time of progesterone withdrawal. Journal of Dairy Science, 2012, 95, 5102-5108.	3.4	4
94	Reproduction and reproductive tract morphology of male and female pigs whose mothers were heat stressed during the second month of gestation. Journal of Animal Science, 2020, 98, .	0.5	3
95	Reproductive physiology of swine. , 2020, , 263-281.		3
96	Characterizing the postnatal hypothalamicâ€“pituitaryâ€“adrenal axis response of in utero heat stressed pigs at 10 and 15Âweeks of age. Scientific Reports, 2021, 11, 22527.	3.3	3
97	Luteal function, largest follicle, and fertility in postpartum dairy cows treated with 14dCIDR-PGF2Î± versus 2xPGF2Î±-Ovsynch for timed AI. Theriogenology, 2013, 80, 903-913.	2.1	2
98	Growth of the conceptus from days 33 to 45 of pregnancy is similar for heifers and lactating cows and not associated with circulating glucose, insulin, IGF1 or progesterone concentrations. Animal Reproduction Science, 2020, 216, 106463.	1.5	2
99	Estimates of intra- and interclass correlation coefficients for rump touches and the number of steps during estrus in postpartum cows. Journal of Dairy Science, 2021, 104, 2318-2333.	3.4	2
100	Short communication: Simultaneous measurements of estrus behavior and plasma concentrations of estradiol during estrus in lactating and nonlactating dairy cows. Journal of Dairy Science, 2021, 104, 2445-2454.	3.4	2
101	Stress in Dairy Animals | Management Induced Stress in Dairy Cattle: Effects on Reproduction. , 2011, , 575-581.		1
102	Stress in Dairy Animalsâ€”Management Induced Stress in Dairy Cattle: Effects onÂReproduction â˜†. , 2016, , .		1
103	Journal of Dairy Science Volume 100 Special Issue: Summary. Journal of Dairy Science, 2017, 100, 10445-10446.	3.4	1
104	Reproductive performance of early- and late-calving dairy cows artificially inseminated after ovulation synchronization and estrous resynchronization or artificially inseminated after observed estrus. JDS Communications, 2021, 2, 80-85.	1.5	1
105	STRESS, MANAGEMENT INDUCED, IN DAIRY CATTLE | Effects on Reproduction. , 2002, , 2611-2618.		0
106	Effects of Nutrition on Reproduction in Dairy Cattle. , 2007, , 442-450.		0
107	Journal of Dairy ScienceÂ® 2014 Editorial Report. Journal of Dairy Science, 2015, 98, 2075-2078.	3.4	0
108	Journal of Dairy ScienceÂ® 2015 Editorial Report. Journal of Dairy Science, 2016, 99, 2431-2434.	3.4	0

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109	Journal of Dairy ScienceÂ® 2016 Editorial Report. Journal of Dairy Science, 2017, 100, 2417-2420.	3.4	0
110	Pig. , 2018, , 641-649.		0
111	Journal of Dairy ScienceÂ® 2017 Editorial Report. Journal of Dairy Science, 2018, 101, 3717-3721.	3.4	0
112	Journal of Dairy ScienceÂ® 2018 Editorial Report. Journal of Dairy Science, 2019, 102, 2821-2824.	3.4	0
113	Management Induced Stress in Dairy Cattle: Effects on Reproduction. , 2022, , 913-919.		0
114	OESTRUS CYCLES | Postpartum Cyclicity. , 2002, , 2157-2163.		0
115	Erratum to â€œReproductive performance of early- and late-calving dairy cows artificially inseminated after ovulation synchronization and estrous resynchronization or artificially inseminated after observed estrusâ€•(JDS Commun. 2:80â€“85). JDS Communications, 2022, 3, 165.	1.5	0