Tim A Mcallister

List of Publications by Year
in descending order

728	28,734	8755 75	13771 129
papers	citations	h-index	g-index

748	748	748	19123
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Greenhouse gas mitigation in agriculture. Philosophical Transactions of the Royal Society B: Biological Sciences, 2008, 363, 789-813.	4.0	1,739
2	Nutritional management for enteric methane abatement: a review. Australian Journal of Experimental Agriculture, 2008, 48, 21.	1.0	797
3	Silage review: Recent advances and future uses of silage additives. Journal of Dairy Science, 2018, 101, 3980-4000.	3.4	517
4	Microbial attachment and feed digestion in the rumen. Journal of Animal Science, 1994, 72, 3004-3018.	0.5	461
5	Policy and technological constraints to implementation of greenhouse gas mitigation options in agriculture. Agriculture, Ecosystems and Environment, 2007, 118, 6-28.	5.3	459
6	A review of plant-derived essential oils in ruminant nutrition and production. Animal Feed Science and Technology, 2008, 145, 209-228.	2.2	396
7	Redirecting rumen fermentation to reduce methanogenesis. Australian Journal of Experimental Agriculture, 2008, 48, 7.	1.0	350
8	Characterization of the Core Rumen Microbiome in Cattle during Transition from Forage to Concentrate as Well as during and after an Acidotic Challenge. PLoS ONE, 2013, 8, e83424.	2.5	330
9	Life cycle assessment of greenhouse gas emissions from beef production in western Canada: A case study. Agricultural Systems, 2010, 103, 371-379.	6.1	299
10	Anaerobic fungi (phylumNeocallimastigomycota): advances in understanding their taxonomy, life cycle, ecology, role and biotechnological potential. FEMS Microbiology Ecology, 2014, 90, 1-17.	2.7	298
11	Review: Ammonia emissions from dairy farms and beef feedlots. Canadian Journal of Animal Science, 2011, 91, 1-35.	1.5	296
12	Use of condensed tannin extract from quebracho trees to reduce methane emissions from cattle1. Journal of Animal Science, 2007, 85, 1990-1996.	0.5	292
13	Addressing Global Ruminant Agricultural Challenges Through Understanding the Rumen Microbiome: Past, Present, and Future. Frontiers in Microbiology, 2018, 9, 2161.	3.5	255
14	Dietary, environmental and microbiological aspects of methane production in ruminants. Canadian Journal of Animal Science, 1996, 76, 231-243.	1.5	243
15	A review of the effects of forage condensed tannins on ruminal fermentation and bloat in grazing cattle. Canadian Journal of Plant Science, 2000, 80, 469-485.	0.9	228
16	Update on Cryptosporidium and Giardia infections in cattle. Trends in Parasitology, 2004, 20, 185-191.	3.3	220
17	Effect of the protein matrix on the digestion of cereal grains by ruminal microorganisms. Journal of Animal Science, 1993, 71, 205-212.	0.5	200
18	Effect of Yucca schidigera on ruminal fermentation and nutrient digestion in heifers.. Journal of Animal Science, 1999, 77, 2554.	0.5	196

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19	Changes in the Rumen Epimural Bacterial Diversity of Beef Cattle as Affected by Diet and Induced Ruminal Acidosis. Applied and Environmental Microbiology, 2013, 79, 3744-3755.	3.1	185
20	Distribution of sulfamethazine, chlortetracycline and tylosin in manure and soil of Canadian feedlots after subtherapeutic use in cattle. Environmental Pollution, 2008, 156, 1243-1251.	7.5	184
21	Impact of sequencing depth on the characterization of the microbiome and resistome. Scientific Reports, 2018, 8, 5890.	3.3	174
22	Digestion, Ruminal Fermentation, Ciliate Protozoal Populations, and Milk Production from Dairy Cows Fed Cinnamaldehyde, Quebracho Condensed Tannin, or Yucca schidigera Saponin Extracts. Journal of Dairy Science, 2008, 91, 4765-4777.	3.4	172
23	Review: The use of direct fed microbials to mitigate pathogens and enhance production in cattle. Canadian Journal of Animal Science, 2011, 91, 193-211.	1.5	170
24	Giardia Cyst and Cryptosporidium Oocyst Survival in Water, Soil, and Cattle Feces. Journal of Environmental Quality, 1999, 28, 1991-1996.	2.0	166
25	Effects of Garlic and Juniper Berry Essential Oils on Ruminal Fermentation and on the Site and Extent of Digestion in Lactating Cows. Journal of Dairy Science, 2007, 90, 5671-5681.	3.4	157
26	Feeding saponin-containing Yucca schidigera and Quillaja saponaria to decrease enteric methane production in dairy cows. Journal of Dairy Science, 2009, 92, 2809-2821.	3.4	155
27	Pathogens of Bovine Respiratory Disease in North American Feedlots Conferring Multidrug Resistance via Integrative Conjugative Elements. Journal of Clinical Microbiology, 2014, 52, 438-448.	3.9	145
28	Effect of Subtherapeutic Administration of Antibiotics on the Prevalence of Antibiotic-Resistant Escherichia coli Bacteria in Feedlot Cattle. Applied and Environmental Microbiology, 2008, 74, 4405-4416.	3.1	140
29	Effects of Condensed Tannins on Endoglucanase Activity and Filter Paper Digestion by Fibrobacter succinogenes S85. Applied and Environmental Microbiology, 1993, 59, 2132-2138.	3.1	135
30	Silage review: Unique challenges of silages made in hot and cold regions. Journal of Dairy Science, 2018, 101, 4001-4019.	3.4	132
31	Fate of Coliform Bacteria in Composted Beef Cattle Feedlot Manure. Journal of Environmental Quality, 2003, 32, 1508-1515.	2.0	130
32	Resistome diversity in cattle and the environment decreases during beef production. ELife, 2016, 5, e13195.	6.0	126
33	Synergy Between Ruminal Fibrolytic Enzymes and Enzymes from Trichoderma Longibrachiatum. Journal of Dairy Science, 2000, 83, 1310-1321.	3.4	125
34	Effects of Yucca schidigera extract on fermentation and degradation of steroidal saponins in the rumen simulation technique (RUSITEC). Animal Feed Science and Technology, 1998, 74, 143-153.	2.2	124
35	Survey of hormone activities in municipal biosolids and animal manures. Environmental Toxicology, 2004, 19, 216-225.	4.0	121
36	Rumen Microbes, Enzymes and Feed Digestion-A Review. Asian-Australasian Journal of Animal Sciences, 2002, 15, 1659-1676.	2.4	121

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37	Antimicrobial usage and resistance in beef production. Journal of Animal Science and Biotechnology, 2016, 7, 68.	5.3	120
38	Bacterial and fungal core microbiomes associated with small grain silages during ensiling and aerobic spoilage. BMC Microbiology, 2017, 17, 50.	3.3	116
39	Snapshot of the Eukaryotic Gene Expression in Muskoxen Rumenâ€"A Metatranscriptomic Approach. PLoS ONE, 2011, 6, e20521.	2.5	113
40	Characterization of the resistome in manure, soil and wastewater from dairy and beef production systems. Scientific Reports, 2016, 6, 24645.	3.3	112
41	Silage review: Using molecular approaches to define the microbial ecology of silage. Journal of Dairy Science, 2018, 101, 4060-4074.	3.4	112
42	Prevalence and infection pattern of naturally acquired giardiasis and cryptosporidiosis in range beef calves and their dams. Veterinary Parasitology, 2003, 114, 113-122.	1.8	111
43	Lipid-induced depression of methane production and digestibility in the artificial rumen system (RUSITEC). Canadian Journal of Animal Science, 1997, 77, 269-278.	1.5	110
44	Oral Delivery Systems for Encapsulated Bacteriophages Targeted at O157:H7 in Feedlot Cattle. Journal of Food Protection, 2010, 73, 1304-1312.	1.7	110
45	Surveillance of Enterococcus spp. reveals distinct species and antimicrobial resistance diversity across a One-Health continuum. Scientific Reports, 2020, 10, 3937.	3.3	109
46	Evidence of Increased Diversity of Methanogenic Archaea with Plant Extract Supplementation. Microbial Ecology, 2008, 56, 234-242.	2.8	107
47	EFFECT OF RUMINAL MICROBIAL COLONIZATION ON CEREAL GRAIN DIGESTION. Canadian Journal of Animal Science, 1990, 70, 571-579.	1.5	104
48	Characterization of Condensed Tannins Purified From Legume Forages: Chromophore Production, Protein Precipitation, and Inhibitory Effects on Cellulose Digestion. Journal of Chemical Ecology, 2005, 31, 2049-2068.	1.8	104
49	Effects of phlorotannins from Ascophyllum nodosum (brown seaweed) on in vitro ruminal digestion of mixed forage or barley grain. Animal Feed Science and Technology, 2008, 145, 375-395.	2.2	104
50	Bioaugmentation with an anaerobic fungus in a two-stage process for biohydrogen and biogas production using corn silage and cattail. Bioresource Technology, 2015, 185, 79-88.	9.6	104
51	Effects of mastication on digestion of whole cereal grains by cattle2. Journal of Animal Science, 1994, 72, 236-246.	0.5	103
52	Characterization of rumen bacterial diversity and fermentation parameters in concentrate fed cattle with and without forage. Journal of Applied Microbiology, 2012, 112, 1152-1162.	3.1	101
53	Effect of a fibrolytic enzyme preparation from Trichoderma longibrachiatum on the rumen microbial population of dairy cows. Canadian Journal of Microbiology, 2002, 48, 14-20.	1.7	99
54	Effects of essential oils and their components on in vitro rumen microbial fermentation. Canadian Journal of Animal Science, 2007, 87, 413-419.	1.5	99

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55	BOARD-INVITED REVIEW: Opportunities and challenges in using exogenous enzymes to improve ruminant production. Journal of Animal Science, 2014, 92, 427-442.	0.5	99
56	Effect of an inoculant and hydrolytic enzymes on fermentation and nutritive value of whole crop barley silage. Animal Feed Science and Technology, 2004, 117, 317-330.	2.2	98
57	Chitosanâ^'Alginate Microcapsules for Oral Delivery of Egg Yolk Immunoglobulin (IgY). Journal of Agricultural and Food Chemistry, 2007, 55, 2911-2917.	5.2	94
58	Effects of essential oils on proteolytic, deaminative and methanogenic activities of mixed ruminal bacteria. Canadian Journal of Animal Science, 2008, 88, 117-122.	1.5	93
59	Life-cycle assessment of greenhouse gas emissions from dairy production in Eastern Canada: A case study. Journal of Dairy Science, 2012, 95, 5164-5175.	3.4	92
60	A proposed approach to estimate and reduce net greenhouse gas emissions from whole farms. Canadian Journal of Soil Science, 2006, 86, 401-418.	1.2	91
61	Pain mitigation after band castration of beef calves and its effects on performance, behavior, Escherichia coli, and salivary cortisol1. Journal of Animal Science, 2010, 88, 802-810.	0.5	91
62	Methane Production of Different Forages in In vitro Ruminal Fermentation. Asian-Australasian Journal of Animal Sciences, 2012, 25, 86-91.	2.4	90
63	Sensitivity of Escherichia coli to Seaweed (Ascophyllum nodosum) Phlorotannins and Terrestrial Tannins. Asian-Australasian Journal of Animal Sciences, 2009, 22, 238-245.	2.4	90
64	Effects of carvacrol and cinnamaldehyde on intake, rumen fermentation, growth performance, and carcass characteristics of growing lambs. Animal Feed Science and Technology, 2008, 145, 396-408.	2.2	89
65	Effect of exogenous enzymes on digestibility of barley silage and growth performance of feedlot cattle. Canadian Journal of Animal Science, 1999, 79, 353-360.	1.5	88
66	The nasopharyngeal microbiota of feedlot cattle that develop bovine respiratory disease. Veterinary Microbiology, 2015, 180, 90-95.	1.9	88
67	Inoculants for alfalfa silage: Effects on aerobic stability, digestibility and the growth performance of feedlot steers. Livestock Science, 1998, 53, 171-181.	1.2	87
68	Oral and Rectal Administration of Bacteriophages for Control of Escherichia coli O157:H7 in Feedlot Cattle. Journal of Food Protection, 2009, 72, 241-250.	1.7	87
69	A review of bloat in feedlot cattle.. Journal of Animal Science, 1998, 76, 299.	0.5	86
70	Effects of fungal enzyme preparations on hydrolysis and subsequent degradation of alfalfa hay fiber by mixed rumen microorganisms in vitro. Animal Feed Science and Technology, 2000, 88, 153-170.	2.2	86
71	Effect of pasture type (alfalfa vs. grass) on methane and carbon dioxide production by yearling beef heifers. Canadian Journal of Animal Science, 2006, 86, 409-418.	1.5	84
72	Reducing Methane Emissions from Ruminant Animals. Journal of Applied Animal Research, 1998, 14, 1-28.	1.2	83

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73	The scope for manipulating the polyunsaturated fatty acid content of beef: a review. Journal of Animal Science and Biotechnology, 2015, 6, 29.	5.3	83
74	Comparative genomics of Enterococcus spp. isolated from bovine feces. BMC Microbiology, 2017, 17, 52.	3.3	83
75	Assessment of the Effects of Cinnamon Leaf Oil on Rumen Microbial Fermentation Using Two Continuous Culture Systems. Journal of Dairy Science, 2007, 90, 2315-2328.	3.4	81
76	Effect of sainfoin on in vitro digestion of fresh alfalfa and bloat in steers. Canadian Journal of Animal Science, 1999, 79, 203-212.	1.5	79
77	Relationship between rumen methanogens and methane production in dairy cows fed diets supplemented with a feed enzyme additive. Journal of Applied Microbiology, 2011, 111, 1148-1158.	3.1	79
78	Perspectives on Super-Shedding ofEscherichia coliO157:H7 by Cattle. Foodborne Pathogens and Disease, 2015, 12, 89-103.	1.8	78
79	Assessment of the Sulfur Hexafluoride (SF6) Tracer Technique for Measuring Enteric Methane Emissions from Cattle. Journal of Environmental Quality, 2006, 35, 1686-1691.	2.0	77
80	Diversity of Rumen Bacteria in Canadian Cervids. PLoS ONE, 2014, 9, e89682.	2.5	77
81	MicroRNAs in bovine adipogenesis: genomic context, expression and function. BMC Genomics, 2014, 15, 137.	2.8	77
82	Effect of dried distillersâ€™ grains from wheat on diet digestibility and performance of feedlot cattle. Canadian Journal of Animal Science, 2008, 88, 659-665.	1.5	75
83	Farm Fairs and Petting Zoos: A Review of Animal Contact as a Source of Zoonotic Enteric Disease. Foodborne Pathogens and Disease, 2017, 14, 59-73.	1.8	75
84	Evaluation of several potential bioactive agents for reducing protozoal activity in vitro. Animal Feed Science and Technology, 2003, 105, 163-184.	2.2	72
85	Genetic characterization and antimicrobial susceptibility of Mannheimia haemolytica isolated from the nasopharynx of feedlot cattle. Veterinary Microbiology, 2011, 149, 390-398.	1.9	71
86	Effect of subtherapeutic vs. therapeutic administration of macrolides on antimicrobial resistance in Mannheimia haemolytica and enterococci isolated from beef cattle. Frontiers in Microbiology, 2013, 4, 133.	3.5	71
87	Physical and Chemical Changes during Composting of Wood Chipâ€“Bedded and Strawâ€Bedded Beef Cattle Feedlot Manure. Journal of Environmental Quality, 2008, 37, 725-735.	2.0	70
88	Longitudinal characterization of antimicrobial resistance genes in feces shed from cattle fed different subtherapeutic antibiotics. BMC Microbiology, 2011, 11, 19.	3.3	70
89	Effects of feeding flaxseed or sunflower-seed in high-forage diets on beef production, quality and fatty acid composition. Meat Science, 2013, 95, 98-109.	5.5	70
90	Effects of vitamin E and flaxseed on rumen-derived fatty acid intermediates in beef intramuscular fat. Meat Science, 2011, 88, 434-440.	5.5	69

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91	The effects of feeding flaxseed to beef cows given forage based diets on fatty acids of longissimus thoracis muscle and backfat. Meat Science, 2011, 89, 469-477.	5.5	69
92	Escherichia coli O157:H7 Excretion by Commercial Feedlot Cattle Fed Either Barley- or Corn-Based Finishing Diets. Journal of Food Protection, 2004, 67, 666-671.	1.7	68
93	Selected Antimicrobial Resistance during Composting of Manure from Cattle Administered Subâ€Therapeutic Antimicrobials. Journal of Environmental Quality, 2009, 38, 567-575.	2.0	68
94	Effect of condensed tannins from birdsfoot trefoil on endoglucanase activity and the digestion of cellulose filter paper by ruminal fungi. Canadian Journal of Microbiology, 1994, 40, 298-305.	1.7	67
95	Microbial strategies in the ruminal digestion of cereal grains. Animal Feed Science and Technology, 1996, 62, 29-36.	2.2	67
96	Enhancing pasture productivity with alfalfa: A review. Canadian Journal of Plant Science, 2000, 80, 513-519.	0.9	67
97	Effect of full-fat hemp seed on performance and tissue fatty acids of feedlot cattle. Canadian Journal of Animal Science, 2005, 85, 223-230.	1.5	67
98	A Biosecure Composting System for Disposal of Cattle Carcasses and Manure Following Infectious Disease Outbreak. Journal of Environmental Quality, 2009, 38, 437-450.	2.0	67
99	Repeated inoculation of cattle rumen with bison rumen contents alters the rumen microbiome and improves nitrogen digestibility in cattle. Scientific Reports, 2017, 7, 1276.	3.3	67
100	Effect of dietary or abomasal supplementation of exogenous polysaccharide-degrading enzymes on rumen fermentation and nutrient digestibility.. Journal of Animal Science, 1998, 76, 3146.	0.5	66
101	Effects of variety on chemical composition,in situ nutrient disappearance andin vitro gas production of spineless cacti. Journal of the Science of Food and Agriculture, 2003, 83, 440-445.	3.5	66
102	Condensed Tannins in Sainfoin: Composition, Concentration, and Effects on Nutritive and Feeding Value of Sainfoin Forage. Crop Science, 2015, 55, 13-22.	1.8	66
103	Intake, digestibility and aerobic stability of barley silage inoculated with mixtures of Lactobacillus plantarum and Enterococcus faecium. Canadian Journal of Animal Science, 1995, 75, 425-432.	1.5	65
104	Effects of Subtherapeutic Administration of Antimicrobial Agents to Beef Cattle on the Prevalence of Antimicrobial Resistance in Campylobacter jejuni and Campylobacter hyointestinalis. Applied and Environmental Microbiology, 2005, 71, 3872-3881.	3.1	65
105	Effect of bacteriophage DC22 on Escherichia coli O157:H7 in an artificial rumen system (Rusitec) and inoculated sheep. Animal Research, 2003, 52, 89-101.	0.6	64
106	Prolonged Survival of Campylobacter Species in Bovine Manure Compost. Applied and Environmental Microbiology, 2010, 76, 1110-1119.	3.1	64
107	Comparison of the fermentation characteristics, aerobic stability and nutritive value of barley and corn silages ensiled with or without a mixed bacterial inoculant. Canadian Journal of Animal Science, 2011, 91, 133-146.	1.5	64
108	A fibrolytic enzyme additive for lactating Holstein cow diets: Ruminal fermentation, rumen microbial populations, and enteric methane emissions. Journal of Dairy Science, 2012, 95, 1419-1427.	3.4	64

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109	Genomic, Proteomic and Physiological Characterization of a T5-like Bacteriophage for Control of Shiga Toxin-Producing Escherichia coli O157:H7. PLoS ONE, 2012, 7, e34585.	2.5	64
110	In vitro effects of phlorotannins from Ascophyllum nodosum (brown seaweed) on rumen bacterial populations and fermentation. Journal of the Science of Food and Agriculture, 2009, 89, 2252-2260.	3.5	63
111	Further development of sample preparation and detection methods for O157 and the top 6 non-O157 STEC serogroups in cattle feces. Journal of Microbiological Methods, 2014, 105, 22-30.	1.6	63
112	Digestion of Barley, Maize, and Wheat by Selected Species of Ruminal Bacteria. Applied and Environmental Microbiology, 1990, 56, 3146-3153.	3.1	62
113	Host range and lytic capability of four bacteriophages against bovine and clinical human isolates of Shiga toxin-producingEscherichia coliO157:H7. Journal of Applied Microbiology, 2009, 107, 646-656.	3.1	61
114	Evidence of Naturalized Stress-Tolerant Strains of Escherichia coli in Municipal Wastewater Treatment Plants. Applied and Environmental Microbiology, 2016, 82, 5505-5518.	3.1	61
115	Long-Haul Transport and Lack of Preconditioning Increases Fecal Shedding of Escherichia coli and Escherichia coli O157:H7 by Calves. Journal of Food Protection, 2004, 67, 672-678.	1.7	60
116	Inactivation ofGiardiaCysts andCryptosporidiumOocysts in Beef Feedlot Manure By Thermophilic Windrow Composting. Compost Science and Utilization, 2004, 12, 235-241.	1.2	60
117	Farm-to-fork characterization of Escherichia coli associated with feedlot cattle with a known history of antimicrobial use. International Journal of Food Microbiology, 2010, 137, 40-48.	4.7	60
118	A third-generation esterase inoculant alters fermentation pattern and improves aerobic stability of barley silage and the efficiency of body weight gain of growing feedlot cattle1. Journal of Animal Science, 2012, 90, 1541-1552.	0.5	60
119	Beef quality attributes as affected by increasing the intramuscular levels of vitamin E and omega-3 fatty acids. Meat Science, 2012, 90, 764-769.	5.5	60
120	Cloning and identification of novel hydrolase genes from a dairy cow rumen metagenomic library and characterization of a cellulase gene. BMC Research Notes, 2012, 5, 566.	1.4	60
121	Effects of increasing concentrations of glycerol in concentrate diets on nutrient digestibility, methane emissions, growth, fatty acid profiles, and carcass traits of lambs1. Journal of Animal Science, 2013, 91, 829-837.	0.5	60
122	Validation of a radio frequency identification system for monitoring the feeding patterns of feedlot cattle. Livestock Science, 1999, 60, 27-31.	1.2	59
123	Structures of free-living and protozoa-associated methanogen communities in the bovine rumen differ according to comparative analysis of 16S rRNA and mcrA genes. Microbiology (United Kingdom), 2012, 158, 1808-1817.	1.8	59
124	Frothy bloat in ruminants: Cause, occurrence, and mitigation strategies. Animal Feed Science and Technology, 2012, 172, 103-114.	2.2	59
125	Application of Transcriptomics to Compare the Carbohydrate Active Enzymes That Are Expressed by Diverse Genera of Anaerobic Fungi to Degrade Plant Cell Wall Carbohydrates. Frontiers in Microbiology, 2018, 9, 1581.	3.5	58
126	Characterization of the Microbial Resistome in Conventional and â€œRaised Without Antibioticsâ€•Beef and Dairy Production Systems. Frontiers in Microbiology, 2019, 10, 1980.	3.5	58

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127	Effects of Tween 60 and Tween 80 on Protease Activity, Thiol Group Reactivity, Protein Adsorption, and Cellulose Degradation by Rumen Microbial Enzymes. Journal of Dairy Science, 2000, 83, 536-542.	3.4	57
128	Anti-Escherichia coli O157:H7 Properties of Purple Prairie Clover and Sainfoin Condensed Tannins. Molecules, 2013, 18, 2183-2199.	3.8	57
129	Antimicrobial Susceptibility of Bacteria That Cause Bovine Respiratory Disease Complex in Alberta, Canada. Frontiers in Veterinary Science, 2017, 4, 207.	2.2	57
130	Antimicrobial Resistance in Escherichia coli Recovered from Feedlot Cattle and Associations with Antimicrobial Use. PLoS ONE, 2015, 10, e0143995.	2.5	57
131	Detection of Transgenic and Endogenous Plant DNA in Digesta and Tissues of Sheep and Pigs Fed Roundup Ready Canola Meal. Journal of Agricultural and Food Chemistry, 2006, 54, 1699-1709.	5.2	56
132	Mannheimia haemolytica in Feedlot Cattle: Prevalence of Recovery and Associations with Antimicrobial Use, Resistance, and Health Outcomes. Journal of Veterinary Internal Medicine, 2015, 29, 705-713.	1.6	56
133	Influence of Season and Feedlot Location on Prevalence and Virulence Factors of Seven Serogroups of Escherichia coli in Feces of Western-Canadian Slaughter Cattle. PLoS ONE, 2016, 11, e0159866.	2.5	56
134	Biofilm Formation, Virulence Gene Profiles, and Antimicrobial Resistance of Nine Serogroups of Non-O157 Shiga Toxinâ€“ProducingEscherichia coli. Foodborne Pathogens and Disease, 2016, 13, 316-324.	1.8	56
135	Relationships between bunk attendance, intake and performance of steers and heifers on varying feeding regimes. Applied Animal Behaviour Science, 2002, 76, 179-188.	1.9	55
136	A review of the detection and fate of novel plant molecules derived from biotechnology in livestock production. Animal Feed Science and Technology, 2007, 133, 31-62.	2.2	55
137	Diversity and Distribution of Commensal Fecal Escherichia coli Bacteria in Beef Cattle Administered Selected Subtherapeutic Antimicrobials in a Feedlot Setting. Applied and Environmental Microbiology, 2008, 74, 6178-6186.	3.1	55
138	Four Escherichia coli O157:H7 Phages: A New Bacteriophage Genus and Taxonomic Classification of T1-Like Phages. PLoS ONE, 2014, 9, e100426.	2.5	55
139	Anaerobic digestion of chicken feather with swine manure or slaughterhouse sludge for biogas production. Waste Management, 2012, 32, 404-409.	7.4	54
140	Effect of silica on the colonization of rice straw by ruminal bacteria. Animal Feed Science and Technology, 1997, 65, 165-181.	2.2	53
141	Bedding and Seasonal Effects on Chemical and Bacterial Properties of Feedlot Cattle Manure. Journal of Environmental Quality, 2003, 32, 1887-1894.	2.0	53
142	Ecology of Escherichia coli O157:H7 in Commercial Dairies in Southern Alberta. Journal of Dairy Science, 2005, 88, 4441-4451.	3.4	53
143	Comparison of alfalfa and mixed alfalfa-sainfoin pastures for grazing cattle: Effects on incidence of bloat, ruminal fermentation, and feed intake. Canadian Journal of Animal Science, 2006, 86, 383-392.	1.5	53
144	Perineal swabs reveal effect of super shedders on the transmission of Escherichia coli O157:H7 in commercial feedlots1. Journal of Animal Science, 2009, 87, 4151-4160.	0.5	53

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145	Association analyses of single nucleotide polymorphisms in bovine stearoylâ€CoA desaturase and fatty acid synthase genes with fatty acid composition in commercial crossâ€bred beef steers. Animal Genetics, 2012, 43, 93-97.	1.7	53
146	Mining the rumen for fibrolytic feed enzymes. Animal Frontiers, 2016, 6, 20-26.	1.7	53
147	Impacts of Cereal Ergot in Food Animal Production. Frontiers in Veterinary Science, 2016, 3, 15.	2.2	53
148	SalmoFreshâ„¢ effectiveness in controlling Salmonella on romaine lettuce, mung bean sprouts and seeds. International Journal of Food Microbiology, 2019, 305, 108250.	4.7	53
149	RUMINANT NUTRITION SYMPOSIUM: Use of genomics and transcriptomics to identify strategies to lower ruminal methanogenesis1,2,3. Journal of Animal Science, 2015, 93, 1431-1449.	0.5	52
150	Diversity of CTX-M-positive Escherichia coli recovered from animals in Canada. Veterinary Microbiology, 2019, 231, 71-75.	1.9	52
151	Condensed tannin concentrations found in vegetative and mature forage legumes grown in western Canada. Canadian Journal of Plant Science, 2011, 91, 669-675.	0.9	51
152	Identity and diversity of archaeal communities during anaerobic co-digestion of chicken feathers and other animal wastes. Bioresource Technology, 2012, 110, 111-119.	9.6	51
153	Effect of in-feed administration and withdrawal of tylosin phosphate on antibiotic resistance in enterococci isolated from feedlot steers. Frontiers in Microbiology, 2015, 6, 483.	3.5	51
154	Effect of dietary sunflower oil and vitamin E on Beef cattle performance, carcass characteristics and meat quality. Canadian Journal of Animal Science, 2003, 83, 53-66.	1.5	50
155	Molecular, Biochemical and Genetic Characteristics of BSE in Canada. PLoS ONE, 2010, 5, e10638.	2.5	50
156	Substitution of wheat dried distillers grains with solubles for barley grain or barley silage in feedlot cattle diets: Intake, digestibility, and ruminal fermentation1. Journal of Animal Science, 2011, 89, 2491-2501.	0.5	50
157	Plant-based solutions for veterinary immunotherapeutics and prophylactics. Veterinary Research, 2014, 45, 117.	3.0	50
158	Dietary manipulation to increase conjugated linoleic acids and other desirable fatty acids in beef: A review. Canadian Journal of Animal Science, 2003, 83, 673-685.	1.5	48
159	Feeding behavior and ruminal acidosis in beef cattle offered a total mixed ration or dietary components separately1. Journal of Animal Science, 2011, 89, 520-530.	0.5	48
160	Effect of Environmental Factors and Influence of Rumen and Hindgut Biogeography on Bacterial Communities in Steers. Applied and Environmental Microbiology, 2011, 77, 258-268.	3.1	48
161	Stability of exogenous polysaccharide-degrading enzymes in the rumen. Animal Feed Science and Technology, 1998, 76, 161-168.	2.2	47
162	Effect of supplementing corn- or barley-based feedlot diets with canola oil on faecal shedding of Escherichia coli O157:H7 by steers. Journal of Applied Microbiology, 2005, 98, 464-475.	3.1	47

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163	Effects of pre-haul management and transport duration on beef calf performance and welfare. Applied Animal Behaviour Science, 2007, 108, 12-30.	1.9	47
164	Veterinary Antimicrobials in Feedlot Manure: Dissipation during Composting and Effects on Composting Processes. Journal of Environmental Quality, 2011, 40, 188-198.	2.0	47
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