Zhongtang Yu

List of Publications by Year in Descending Order

192 papers	10,250 citations	54 h-index	96 g-index
209 ext. papers	12,732 ext. citations	5.3 avg, IF	6.72 L-index

#	Paper	IF	Citations
192	Considerations and best practices in animal science 16S ribosomal RNA gene sequencing microbiome studies.. *Journal of Animal Science*, **2022**, 100,	0.7	3
191	Genomic Insights into the Distribution of Peptidases and Proteolytic Capacity among and Species.. *Microbiology Spectrum*, **2022**, e0218521	8.9	0
190	Full adoption of the most effective strategies to mitigate methane emissions by ruminants can help meet the 1.5 °C target by 2030 but not 2050.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119, e2111294119	11.5	5
189	Weaning Age Affects the Development of the Ruminal Bacterial and Archaeal Community in Hu Lambs During Early Life. *Frontiers in Microbiology*, **2021**, 12, 636865	5.7	1
188	Holstein and Jersey Steers Differ in Rumen Microbiota and Enteric Methane Emissions Even Fed the Same Total Mixed Ration. *Frontiers in Microbiology*, **2021**, 12, 601061	5.7	2
187	The macronuclear genome of anaerobic ciliate Entodinium caudatum reveals its biological features adapted to the distinct rumen environment. *Genomics*, **2021**, 113, 1416-1427	4.3	3
186	Enhanced CH4 Production from Corn Stover by Simultaneous Lime Treatment. *Journal of Biobased Materials and Bioenergy*, **2021**, 15, 323-333	1.4	
185	Ruminal microbiota-host interaction and its effect on nutrient metabolism. *Animal Nutrition*, **2021**, 7, 49-55	4.8	12
184	Supplementation with sodium butyrate improves growth and antioxidant function in dairy calves before weaning. *Journal of Animal Science and Biotechnology*, **2021**, 12, 2	6	7
183	Mucolytic bacteria: prevalence in various pathological diseases. *World Journal of Microbiology and Biotechnology*, **2021**, 37, 176	4.4	2
182	Assessment of veterinary antibiotics from animal manure-amended soil to growing alfalfa, alfalfa silage, and milk. *Ecotoxicology and Environmental Safety*, **2021**, 224, 112699	7	1
181	The microbiome driving anaerobic digestion and microbial analysis. *Advances in Bioenergy*, **2020**, 5, 1-61	3.9	24
180	Extending Burk Dehority's Perspectives on the Role of Ciliate Protozoa in the Rumen. *Frontiers in Microbiology*, **2020**, 11, 123	5.7	10
179	Effects of repeated oral inoculation of artificially fed lambs with lyophilized rumen fluid on growth performance, rumen fermentation, microbial population and organ development. *Animal Feed Science and Technology*, **2020**, 264, 114465	3	5
178	Inhibition of methanogenesis by nitrate, with or without defaunation, in continuous culture. *Journal of Dairy Science*, **2020**, 103, 7124-7140	4	5
177	Repeated Inoculation of Young Calves With Rumen Microbiota Does Not Significantly Modulate the Rumen Prokaryotic Microbiota Consistently but Decreases Diarrhea. *Frontiers in Microbiology*, **2020**, 11, 1403	5.7	8
176	Dietary energy sources and levels shift the multi-kingdom microbiota and functions in the rumen of lactating dairy cows. *Journal of Animal Science and Biotechnology*, **2020**, 11, 66	6	6

175	Epigallocatechin gallate but not catechin prevents nonalcoholic steatohepatitis in mice similar to green tea extract while differentially affecting the gut microbiota. *Journal of Nutritional Biochemistry*, **2020**, 84, 108455	6.3	24
174	Repeated inoculation with fresh rumen fluid before or during weaning modulates the microbiota composition and co-occurrence of the rumen and colon of lambs. *BMC Microbiology*, **2020**, 20, 29	4.5	18
173	Intestinal-level anti-inflammatory bioactivities of catechin-rich green tea: Rationale, design, and methods of a double-blind, randomized, placebo-controlled crossover trial in metabolic syndrome and healthy adults. *Contemporary Clinical Trials Communications*, **2020**, 17, 100495	1.8	18
172	Giant milkweed (Calotropis gigantea): A new plant resource to inhibit protozoa and decrease ammoniagenesis of rumen microbiota in vitro without impairing fermentation. *Science of the Total Environment*, **2020**, 743, 140665	10.2	4
171	Catechin Bioavailability Is Reduced in Obese Persons Without Altering Gut Microbial-Derived Valerolactones Following Consumption of a Green Tea Extract Confection. *Current Developments in Nutrition*, **2020**, 4, 468-468	0.4	78
170	Effects of dietary replacement of soybean meal with dried distillers grains with solubles on the microbiota occupying different ecological niches in the rumen of growing Hu lambs. *Journal of Animal Science and Biotechnology*, **2020**, 11, 93	6	3
169	Effects of Incremental Urea Supplementation on Rumen Fermentation, Nutrient Digestion, Plasma Metabolites, and Growth Performance in Fattening Lambs. *Animals*, **2019**, 9,	3.1	12
168	Dietary Bioactive Lipid Compounds Rich in Menthol Alter Interactions Among Members of Ruminal Microbiota in Sheep. *Frontiers in Microbiology*, **2019**, 10, 2038	5.7	13
167	Hepatoprotection by Green Tea Extract Along the Gut-liver Axis in Mice with Nonalcoholic Steatohepatitis Is Mediated by Epigallocatechin Gallate but Not Catechin (OR34-03-19). *Current Developments in Nutrition*, **2019**, 3,	0.4	78
166	Weaning Ages Do Not Affect the Overall Growth or Carcass Traits of Hu Sheep. *Animals*, **2019**, 9,	3.1	2
165	Prediction of enteric methane production, yield and intensity of beef cattle using an intercontinental database. *Agriculture, Ecosystems and Environment*, **2019**, 283, 106575	5.7	25
164	Evaluation of the performance of existing mathematical models predicting enteric methane emissions from ruminants: Animal categories and dietary mitigation strategies. *Animal Feed Science and Technology*, **2019**, 255, 114207	3	9
163	Specific inhibitors of lysozyme and peptidases inhibit the growth of the rumen protozoan Entodinium caudatum without decreasing feed digestion or fermentation in vitro. *Journal of Applied Microbiology*, **2019**, 127, 670-682	4.7	7
162	Ferric citrate, nitrate, saponin and their combinations affect in vitro ruminal fermentation, production of sulphide and methane and abundance of select microbial populations. *Journal of Applied Microbiology*, **2019**, 127, 150-158	4.7	4
161	Invited review: Nitrogen in ruminant nutrition: A review of measurement techniques. *Journal of Dairy Science*, **2019**, 102, 5811-5852	4	56
160	Green tea extract prevents obesity in male mice by alleviating gut dysbiosis in association with improved intestinal barrier function that limits endotoxin translocation and adipose inflammation. *Journal of Nutritional Biochemistry*, **2019**, 67, 78-89	6.3	59
159	Rumen fermentation and microbial community composition influenced by live Enterococcus faecium supplementation. *AMB Express*, **2019**, 9, 123	4.1	15
158	Amish (Rural) vs. non-Amish (Urban) Infant Fecal Microbiotas Are Highly Diverse and Their Transplantation Lead to Differences in Mucosal Immune Maturation in a Humanized Germfree Piglet Model. *Frontiers in Immunology*, **2019**, 10, 1509	8.4	17

157	Inhibition of Rumen Protozoa by Specific Inhibitors of Lysozyme and Peptidases. *Frontiers in Microbiology*, **2019**, 10, 2822	5.7	4
156	The transcriptome of the rumen ciliate Entodinium caudatum reveals some of its metabolic features. *BMC Genomics*, **2019**, 20, 1008	4.5	10
155	Dietary leucine supplementation enhances the health of early weaned Hu lambs. *Animal Feed Science and Technology*, **2019**, 247, 248-254	3	3
154	Effects of dietary protein sources and nisin on rumen fermentation, nutrient digestion, plasma metabolites, nitrogen utilization, and growth performance in growing lambs. *Journal of Animal Science*, **2018**, 96, 1929-1938	0.7	6
153	A phylogenetic census of global diversity of gut anaerobic fungi and a new taxonomic framework. *Fungal Diversity*, **2018**, 89, 253-266	17.6	24
152	Symposium review: Uncertainties in enteric methane inventories, measurement techniques, and prediction models. *Journal of Dairy Science*, **2018**, 101, 6655-6674	4	56
151	Prediction of enteric methane production, yield, and intensity in dairy cattle using an intercontinental database. *Global Change Biology*, **2018**, 24, 3368-3389	11.4	92
150	Steam explosion enhances digestibility and fermentation of corn stover by facilitating ruminal microbial colonization. *Bioresource Technology*, **2018**, 253, 244-251	11	39
149	Comparative Analysis of the Microbiota Between Sheep Rumen and Rabbit Cecum Provides New Insight Into Their Differential Methane Production. *Frontiers in Microbiology*, **2018**, 9, 575	5.7	20
148	Decolorization of Reactive Black 5 and Reactive Blue 4 Dyes in Microbial Fuel Cells. *Applied Biochemistry and Biotechnology*, **2018**, 186, 1017-1033	3.2	12
147	Microbial Communities in Sand Bioreactors Treating High Salt Content Food Industry Wastewater. *Proceedings of the Water Environment Federation*, **2018**, 2018, 1169-1176		
146	Short communication: Does early-life administration of a Megasphaera elsdenii probiotic affect long-term establishment of the organism in the rumen and alter rumen metabolism in the dairy calf?. *Journal of Dairy Science*, **2018**, 101, 1747-1751	4	8
145	Draft Macronuclear Genome Sequence of the Ruminal Ciliate Entodinium caudatum. *Microbiology Resource Announcements*, **2018**, 7,	1.3	7
144	Do Ruminal Ciliates Select Their Preys and Prokaryotic Symbionts?. *Frontiers in Microbiology*, **2018**, 9, 1710	5.7	23
143	Aerobic cultivation of anaerobic rumen protozoa, Entodinium caudatum and Epidinium caudatum. *Journal of Microbiological Methods*, **2018**, 152, 186-193	2.8	9
142	Insights into the Populations of Proteolytic and Amino Acid-Fermenting Bacteria from Microbiota Analysis Using In Vitro Enrichment Cultures. *Current Microbiology*, **2018**, 75, 1543-1550	2.4	5
141	Simultaneous Power Generation and Desalination of Microbial Desalination Cells Using Nannochloropsis salina (Marine Algae) Versus Potassium Ferricyanide as Catholytes. *Environmental Engineering Science*, **2017**, 34, 185-196	2	14
140	Sustainable power generation from bacterio-algal microbial fuel cells (MFCs): An overview. *Renewable and Sustainable Energy Reviews*, **2017**, 73, 75-84	16.2	81

139	Methanol Production from Biogas with a Thermotolerant Methanotrophic Consortium Isolated from an Anaerobic Digestion System. *Energy & Fuels*, **2017**, 31, 2970-2975	4.1	17
138	Development and evaluation of a trickle bed bioreactor for enhanced mass transfer and methanol production from biogas. *Biochemical Engineering Journal*, **2017**, 122, 103-114	4.2	24
137	Rumen methanogens and mitigation of methane emission by anti-methanogenic compounds and substances. *Journal of Animal Science and Biotechnology*, **2017**, 8, 13	6	160
136	Association of aqueous hydrogen concentration with methane production in continuous cultures modulated to vary pH and solids passage rate. *Journal of Dairy Science*, **2017**, 100, 5378-5389	4	8
135	Functional display of amylase on yeast surface from Rhizopus oryzae as a novel enzyme delivery method. *Food Biotechnology*, **2017**, 31, 233-244	2.2	3
134	Sequential batch thermophilic solid-state anaerobic digestion of lignocellulosic biomass via recirculating digestate as inoculum - Part II: Microbial diversity and succession. *Bioresource Technology*, **2017**, 241, 1027-1035	11	37
133	Characterization and performance of anodic mixed culture biofilms in submersed microbial fuel cells. *Bioelectrochemistry*, **2017**, 113, 79-84	5.6	26
132	Monensin and Nisin Affect Rumen Fermentation and Microbiota Differently. *Frontiers in Microbiology*, **2017**, 8, 1111	5.7	31
131	Inhibition of the Rumen Ciliate by Antibiotics. *Frontiers in Microbiology*, **2017**, 8, 1189	5.7	11
130	Metagenomic investigation of gastrointestinal microbiome in cattle. *Asian-Australasian Journal of Animal Sciences*, **2017**, 30, 1515-1528	2.4	18
129	System Performance and Microbial Communities of Anaerobic Digestion Systems Fed Dairy Manure. *Environmental Engineering Science*, **2016**, 33, 986-995	2	1
128	Gut dysbiosis impairs recovery after spinal cord injury. *Journal of Experimental Medicine*, **2016**, 213, 2603-2620	12.2	154
127	Dietary supplementation of Rosmarinus officinalis L. leaves in sheep affects the abundance of rumen methanogens and other microbial populations. *Journal of Animal Science and Biotechnology*, **2016**, 7, 27	6	17
126	Review of current in vivo measurement techniques for quantifying enteric methane emission from ruminants. *Animal Feed Science and Technology*, **2016**, 219, 13-30	3	80
125	Critical evaluation of essential oils as rumen modifiers in ruminant nutrition: A review. *Science of the Total Environment*, **2016**, 545-546, 556-68	10.2	91
124	Biological conversion of biogas to methanol using methanotrophs isolated from solid-state anaerobic digestate. *Bioresource Technology*, **2016**, 201, 50-7	11	78
123	Evaluation of different essential oils in modulating methane and ammonia production, rumen fermentation, and rumen bacteria in vitro. *Animal Feed Science and Technology*, **2016**, 215, 25-36	3	42
122	Evaluation of ferric oxide and ferric citrate for their effects on fermentation, production of sulfide and methane, and abundance of select microbial populations using in vitro rumen cultures. *Bioresource Technology*, **2016**, 211, 603-9	11	7

121	Design, implementation and interpretation of in vitro batch culture experiments to assess enteric methane mitigation in ruminants□ review. *Animal Feed Science and Technology*, **2016**, 216, 1-18	3	69
120	Impact of different ratios of feedstock to liquid anaerobic digestion effluent on the performance and microbiome of solid-state anaerobic digesters digesting corn stover. *Bioresource Technology*, **2016**, 200, 744-52	11	38
119	Volume ratios between the thermophilic and the mesophilic digesters of a temperature-phased anaerobic digestion system affect their performance and microbial communities. *New Biotechnology*, **2016**, 33, 245-54	6.4	8
118	The Bacteriomes of Ileal Mucosa and Cecal Content of Broiler Chickens and Turkeys as Revealed by Metagenomic Analysis. *International Journal of Microbiology*, **2016**, 2016, 4320412	3.6	11
117	Intestinal Microbiota of Broiler Chickens As Affected by Litter Management Regimens. *Frontiers in Microbiology*, **2016**, 7, 593	5.7	74
116	The Microbiota of Recreational Freshwaters and the Implications for Environmental and Public Health. *Frontiers in Microbiology*, **2016**, 7, 1826	5.7	33
115	High-Performing Windowfarm Hydroponic System: Transcriptomes of Fresh Produce and Microbial Communities in Response to Beneficial Bacterial Treatment. *Molecular Plant-Microbe Interactions*, **2016**, 29, 965-976	3.6	6
114	Effects of different sources of physically effective fiber on rumen microbial populations. *Animal*, **2016**, 10, 410-7	3.1	4
113	Relative importance of Microcystis abundance and diversity in determining microcystin dynamics in Lake Erie coastal wetland and downstream beach water. *Journal of Applied Microbiology*, **2016**, 120, 138-51	4.7	20
112	Isolation of a methanotroph from a hydrogen sulfide-rich anaerobic digester for methanol production from biogas. *Process Biochemistry*, **2016**, 51, 838-844	4.8	31
111	Prevalence and diversity of Shiga toxin genes in Canada geese and water in western Lake Erie Region. *Journal of Great Lakes Research*, **2016**, 42, 476-481	3	6
110	Medicinal herbs as a potential strategy to decrease methane production by rumen microbiota: a systematic evaluation with a focus on Perilla frutescens seed extract. *Applied Microbiology and Biotechnology*, **2016**, 100, 9757-9771	5.7	9
109	Comparison of the microbial communities in solid-state anaerobic digestion (SS-AD) reactors operated at mesophilic and thermophilic temperatures. *Applied Microbiology and Biotechnology*, **2015**, 99, 969-80	5.7	90
108	Yeast with surface displayed xylanase as a new dual purpose delivery vehicle of xylanase and yeast. *Animal Feed Science and Technology*, **2015**, 208, 44-52	3	7
107	Fermentative metabolism of an anaerobic, thermophilic consortium on plant polymers and commercial paper samples. *Biomass and Bioenergy*, **2015**, 75, 11-22	5.3	3
106	Functional phylotyping approach for assessing intraspecific diversity of Ruminococcus albus within the rumen microbiome. *FEMS Microbiology Letters*, **2015**, 362, 1-10	2.9	8
105	Effect of organic loading on the microbiota in a temperature-phased anaerobic digestion (TPAD) system co-digesting dairy manure and waste whey. *Applied Microbiology and Biotechnology*, **2015**, 99, 8777-92	5.7	8
104	RUMINANT NUTRITION SYMPOSIUM: How to use data on the rumen microbiome to improve our understanding of ruminant nutrition. *Journal of Animal Science*, **2015**, 93, 1450-70	0.7	52

103	Effects of garlic oil, nitrate, saponin and their combinations supplemented to different substrates on in vitro fermentation, ruminal methanogenesis, and abundance and diversity of microbial populations. *Journal of Applied Microbiology*, **2015**, 119, 127-38	4.7	25
102	Changes in diversity of cultured bacteria resistant to erythromycin and tetracycline in swine manure during simulated composting and lagoon storage. *Letters in Applied Microbiology*, **2015**, 61, 245-51	2.9	19
101	Essential oils affect populations of some rumen bacteria in vitro as revealed by microarray (RumenBactArray) analysis. *Frontiers in Microbiology*, **2015**, 6, 297	5.7	49
100	Effects of Adaptation of In vitro Rumen Culture to Garlic Oil, Nitrate, and Saponin and Their Combinations on Methanogenesis, Fermentation, and Abundances and Diversity of Microbial Populations. *Frontiers in Microbiology*, **2015**, 6, 1434	5.7	24
99	Effect of pH buffering capacity and sources of dietary sulfur on rumen fermentation, sulfide production, methane production, sulfate reducing bacteria, and total Archaea in in vitro rumen cultures. *Bioresource Technology*, **2015**, 186, 25-33	11	13
98	Reducing microbial ureolytic activity in the rumen by immunization against urease therein. *BMC Veterinary Research*, **2015**, 11, 94	2.7	13
97	Construction and evaluation of a genetic construct for specific detection and measurement of propionate by whole-cell bacteria. *Biotechnology and Bioengineering*, **2015**, 112, 280-7	4.9	3
96	Effects of microbial and non-microbial factors of liquid anaerobic digestion effluent as inoculum on solid-state anaerobic digestion of corn stover. *Bioresource Technology*, **2014**, 157, 188-96	11	62
95	Spatial and temporal variations of microbial community in a mixed plug-flow loop reactor fed with dairy manure. *Microbial Biotechnology*, **2014**, 7, 332-46	6.3	41
94	Prebiotic Oligosaccharides: Comparative Evaluation Using In Vitro Cultures of InfantsSFecal Microbiomes. *Applied and Environmental Microbiology*, **2014**, 80, 7388-97	4.8	21
93	Investigation of ruminal bacterial diversity in dairy cattle fed supplementary monensin alone and in combination with fat, using pyrosequencing analysis. *Canadian Journal of Microbiology*, **2014**, 60, 65-71	3.2	15
92	Biological conversion of methane to liquid fuels: status and opportunities. *Biotechnology Advances*, **2014**, 32, 1460-75	17.8	92
91	Effect of haylage and monensin supplementation on ruminal bacterial communities of feedlot cattle. *Current Microbiology*, **2014**, 69, 169-75	2.4	8
90	Variations in 16S rRNA-based microbiome profiling between pyrosequencing runs and between pyrosequencing facilities. *Journal of Microbiology*, **2014**, 52, 355-65	3	25
89	Exposure to a social stressor disrupts the community structure of the colonic mucosa-associated microbiota. *BMC Microbiology*, **2014**, 14, 189	4.5	203
88	Intestinal microbiome of poultry and its interaction with host and diet. *Gut Microbes*, **2014**, 5, 108-19	8.8	363
87	Development of a phylogenetic microarray for comprehensive analysis of ruminal bacterial communities. *Journal of Applied Microbiology*, **2014**, 117, 949-60	4.7	8
86	The structures of the colonic mucosa-associated and luminal microbial communities are distinct and differentially affected by a prolonged murine stressor. *Gut Microbes*, **2014**, 5, 748-60	8.8	66

85	Combinations of nitrate, saponin, and sulfate additively reduce methane production by rumen cultures in vitro while not adversely affecting feed digestion, fermentation or microbial communities. *Bioresource Technology*, **2014**, 155, 129-35	11	46
84	Silage quality and preservation of Urtica cannabina ensiled alone and with additive treatment. *Grass and Forage Science*, **2014**, 69, 405-414	2.3	18
83	Effects of vanillin, quillaja saponin, and essential oils on in vitro fermentation and protein-degrading microorganisms of the rumen. *Applied Microbiology and Biotechnology*, **2014**, 98, 897-905	3.7	63
82	Feedstocks affect the diversity and distribution of propionate CoA-transferase genes (pct) in anaerobic digesters. *Microbial Ecology*, **2013**, 66, 351-62	4.4	6
81	Effects of coconut and fish oils on ruminal methanogenesis, fermentation, and abundance and diversity of microbial populations in vitro. *Journal of Dairy Science*, **2013**, 96, 1782-92	4	53
80	Isolation and characterization of two thermophilic cellulolytic strains of Clostridium thermocellum from a compost sample. *Journal of Applied Microbiology*, **2013**, 114, 1001-7	4.7	18
79	Evaluation of system performances and microbial communities of two temperature-phased anaerobic digestion systems treating dairy manure. *Bioresource Technology*, **2013**, 143, 431-8	11	16
78	Effective reduction of enteric methane production by a combination of nitrate and saponin without adverse effect on feed degradability, fermentation, or bacterial and archaeal communities of the rumen. *Bioresource Technology*, **2013**, 148, 352-60	11	55
77	Effects of gas composition in headspace and bicarbonate concentrations in media on gas and methane production, degradability, and rumen fermentation using in vitro gas production techniques. *Journal of Dairy Science*, **2013**, 96, 4592-600	4	25
76	Comparison of different liquid anaerobic digestion effluents as inocula and nitrogen sources for solid-state batch anaerobic digestion of corn stover. *Waste Management*, **2013**, 33, 26-32	8.6	90
75	Reactor performance and microbial community dynamics during solid-state anaerobic digestion of corn stover at mesophilic and thermophilic conditions. *Bioresource Technology*, **2013**, 136, 574-81	11	108
74	Bacterial census of poultry intestinal microbiome. *Poultry Science*, **2013**, 92, 671-83	3.9	245
73	Evaluation of system performance and microbial communities of a temperature-phased anaerobic digestion system treating dairy manure: thermophilic digester operated at acidic pH. *Bioresource Technology*, **2013**, 142, 625-32	11	19
72	Abundance of pathogens in the gut and litter of broiler chickens as affected by bacitracin and litter management. *Veterinary Microbiology*, **2013**, 166, 595-601	3.3	16
71	Suppression of methanogenesis in cellulose-fed microbial fuel cells in relation to performance, metabolite formation, and microbial population. *Bioresource Technology*, **2013**, 129, 281-8	11	61
70	Metagenomic insights into the carbohydrate-active enzymes carried by the microorganisms adhering to solid digesta in the rumen of cows. *PLoS ONE*, **2013**, 8, e78507	3.7	68
69	Effects of nitrate on methane production, fermentation, and microbial populations in in vitro ruminal cultures. *Bioresource Technology*, **2012**, 103, 173-9	11	50
68	Hydrogen and volatile fatty acid production during fermentation of cellulosic substrates by a thermophilic consortium at 50 and 60 °C. *Bioresource Technology*, **2012**, 104, 424-31	11	27

67	Shifts in microbial community structure of granular and liquid biomass in response to changes to infeed and digester design in anaerobic digesters receiving food-processing wastes. *Bioresource Technology*, **2012**, 107, 135-43	11	40
66	Estrogen status alters tissue distribution and metabolism of selenium in female rats. *Journal of Nutritional Biochemistry*, **2012**, 23, 532-8	6.3	30
65	Persistence of resistance to erythromycin and tetracycline in swine manure during simulated composting and lagoon treatments. *Microbial Ecology*, **2012**, 63, 32-40	4.4	60
64	Effects of quillaja and yucca saponins on communities and select populations of rumen bacteria and archaea, and fermentation in vitro. *Journal of Applied Microbiology*, **2012**, 113, 1329-40	4.7	37
63	Quantitative comparisons of select cultured and uncultured microbial populations in the rumen of cattle fed different diets. *Journal of Animal Science and Biotechnology*, **2012**, 3, 28	6	17
62	Effects of essential oils on methane production and fermentation by, and abundance and diversity of, rumen microbial populations. *Applied and Environmental Microbiology*, **2012**, 78, 4271-80	4.8	183
61	Quantitative analysis of intestinal bacterial populations from term infants fed formula supplemented with fructo-oligosaccharides. *Journal of Pediatric Gastroenterology and Nutrition*, **2012**, 55, 314-20	2.8	18
60	Sequence-Based Characterization of Microbiomes by Serial Analysis of Ribosomal Sequence Tags (SARST) **2011**, 265-273		0
59	Evaluation of different partial 16S rRNA gene sequence regions for phylogenetic analysis of microbiomes. *Journal of Microbiological Methods*, **2011**, 84, 81-7	2.8	224
58	Manipulation of rumen fermentation and ecology of swamp buffalo by coconut oil and garlic powder supplementation. *Livestock Science*, **2011**, 135, 84-92	1.7	47
57	Effect of ruminal pulse dose of polyunsaturated fatty acids on ruminal microbial populations and duodenal flow and milk profiles of fatty acids. *Journal of Dairy Science*, **2011**, 94, 2977-85	4	6
56	Status of the phylogenetic diversity census of ruminal microbiomes. *FEMS Microbiology Ecology*, **2011**, 76, 49-63	4.3	226
55	Phylogenetic diversity of bacterial communities in bovine rumen as affected by diets and microenvironments. *Folia Microbiologica*, **2011**, 56, 453-8	2.8	29
54	A meta-analysis of the microbial diversity observed in anaerobic digesters. *Bioresource Technology*, **2011**, 102, 3730-9	11	328
53	Effect of external resistance on bacterial diversity and metabolism in cellulose-fed microbial fuel cells. *Bioresource Technology*, **2011**, 102, 278-83	11	137
52	Effects of methanogenic inhibitors on methane production and abundances of methanogens and cellulolytic bacteria in in vitro ruminal cultures. *Applied and Environmental Microbiology*, **2011**, 77, 2634-9	4.8	96
51	Populations of select cultured and uncultured bacteria in the rumen of sheep and the effect of diets and ruminal fractions. *International Journal of Microbiology*, **2011**, 2011, 750613	3.6	43
50	Interrelations between the microbiotas in the litter and in the intestines of commercial broiler chickens. *Applied and Environmental Microbiology*, **2010**, 76, 6572-82	4.8	106

49	Novel glycoside hydrolases identified by screening a Chinese Holstein dairy cow rumen-derived metagenome library. *Applied and Environmental Microbiology*, **2010**, 76, 6701-5	4.8	41
48	Production of Methane Biogas as Fuel Through Anaerobic Digestion **2010**, 105-127		12
47	Occurrence and persistence of erythromycin resistance genes (erm) and tetracycline resistance genes (tet) in waste treatment systems on swine farms. *Microbial Ecology*, **2010**, 60, 479-86	4.4	68
46	Dysbiosis of fecal microbiota in Crohn's disease patients as revealed by a custom phylogenetic microarray. *Inflammatory Bowel Diseases*, **2010**, 16, 2034-42	4.5	250
45	Putting microbes to work in sequence: recent advances in temperature-phased anaerobic digestion processes. *Bioresource Technology*, **2010**, 101, 9409-14	11	98
44	An efficient RNA extraction method for estimating gut microbial diversity by polymerase chain reaction. *Current Microbiology*, **2009**, 58, 464-71	2.4	37
43	Dynamics of bacterial community in solid-state fermented feed revealed by 16S rRNA. *Letters in Applied Microbiology*, **2009**, 49, 166-72	2.9	15
42	Investigating unsaturated fat, monensin, or bromoethanesulfonate in continuous cultures retaining ruminal protozoa. II. Interaction of treatment and presence of protozoa on prokaryotic communities. *Journal of Dairy Science*, **2009**, 92, 3861-73	4	23
41	Selected antimicrobial resistance during composting of manure from cattle administered sub-therapeutic antimicrobials. *Journal of Environmental Quality*, **2009**, 38, 567-75	3.4	60
40	Evaluations of different hypervariable regions of archaeal 16S rRNA genes in profiling of methanogens by Archaea-specific PCR and denaturing gradient gel electrophoresis. *Applied and Environmental Microbiology*, **2008**, 74, 889-93	4.8	125
39	Cell surface enzyme attachment is mediated by family 37 carbohydrate-binding modules, unique to Ruminococcus albus. *Journal of Bacteriology*, **2008**, 190, 8220-2	3.5	41
38	Linking rumen function to animal response by application of metagenomics techniques. *Australian Journal of Experimental Agriculture*, **2008**, 48, 711		13
37	Technical note: Occurrence in fecal microbiota of genes conferring resistance to both macrolide-lincosamide-streptogramin B and tetracyclines concomitant with feeding of beef cattle with tylosin. *Journal of Animal Science*, **2008**, 86, 2385-91	0.7	26
36	Electricity generation from cellulose by rumen microorganisms in microbial fuel cells. *Biotechnology and Bioengineering*, **2007**, 97, 1398-407	4.9	188
35	Development and application of real-time PCR assays for quantification of erm genes conferring resistance to macrolides-lincosamides-streptogramin B in livestock manure and manure management systems. *Applied and Environmental Microbiology*, **2007**, 73, 4407-16	4.8	192
34	Quantitative assessment of the tetracycline resistance gene pool in cheese samples by real-time TaqMan PCR. *Applied and Environmental Microbiology*, **2007**, 73, 1676-7	4.8	23
33	Ruminal nitrogen metabolism: perspectives for integration of microbiology and nutrition for dairy. *Journal of Dairy Science*, **2007**, 90 Suppl 1, E1-16	4	152
32	Assessment of ruminal bacterial populations and protozoal generation time in cows fed different methionine sources. *Journal of Dairy Science*, **2007**, 90, 798-809	4	32

31	Application of Recent DNA/RNA-based Techniques in Rumen Ecology. *Asian-Australasian Journal of Animal Sciences*, **2007**, 20, 283-294	2.4	28
30	Improved serial analysis of V1 ribosomal sequence tags (SARST-V1) provides a rapid, comprehensive, sequence-based characterization of bacterial diversity and community composition. *Environmental Microbiology*, **2006**, 8, 603-11	5.2	39
29	Evaluation of a real-time PCR assay quantifying the ruminal pool size and duodenal flow of protozoal nitrogen. *Journal of Dairy Science*, **2005**, 88, 2083-95	4	65
28	Novel microbial diversity adherent to plant biomass in the herbivore gastrointestinal tract, as revealed by ribosomal intergenic spacer analysis and rrs gene sequencing. *Environmental Microbiology*, **2005**, 7, 530-43	5.2	141
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