Zhongtang Yu

List of Publications by Citations

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

#	Paper	IF	Citations
192	Improved extraction of PCR-quality community DNA from digesta and fecal samples. *BioTechniques*, **2004**, 36, 808-12	2.5	990
191	Comparisons of different hypervariable regions of rrs genes for use in fingerprinting of microbial communities by PCR-denaturing gradient gel electrophoresis. *Applied and Environmental Microbiology*, **2004**, 70, 4800-6	4.8	387
190	Intestinal microbiome of poultry and its interaction with host and diet. *Gut Microbes*, **2014**, 5, 108-19	8.8	363
189	A meta-analysis of the microbial diversity observed in anaerobic digesters. *Bioresource Technology*, **2011**, 102, 3730-9	11	328
188	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
187	Bacterial census of poultry intestinal microbiome. *Poultry Science*, **2013**, 92, 671-83	3.9	245
186	Development of an assay to quantify rumen ciliate protozoal biomass in cows using real-time PCR. *Journal of Nutrition*, **2004**, 134, 3378-84	4.1	245
185	Status of the phylogenetic diversity census of ruminal microbiomes. *FEMS Microbiology Ecology*, **2011**, 76, 49-63	4.3	226
184	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
183	Exposure to a social stressor disrupts the community structure of the colonic mucosa-associated microbiota. *BMC Microbiology*, **2014**, 14, 189	4.5	203
182	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
181	Degradation of polycyclic aromatic hydrocarbons at low temperature under aerobic and nitrate-reducing conditions in enrichment cultures from northern soils. *Applied and Environmental Microbiology*, **2003**, 69, 275-84	4.8	189
180	Electricity generation from cellulose by rumen microorganisms in microbial fuel cells. *Biotechnology and Bioengineering*, **2007**, 97, 1398-407	4.9	188
179	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
178	Rumen methanogens and mitigation of methane emission by anti-methanogenic compounds and substances. *Journal of Animal Science and Biotechnology*, **2017**, 8, 13	6	160
177	Gut dysbiosis impairs recovery after spinal cord injury. *Journal of Experimental Medicine*, **2016**, 213, 2603-2620	12.6	154
176	Ruminal nitrogen metabolism: perspectives for integration of microbiology and nutrition for dairy. *Journal of Dairy Science*, **2007**, 90 Suppl 1, E1-16	4	152

175	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
174	Development and application of real-time PCR assays for quantification of genes encoding tetracycline resistance. *Applied and Environmental Microbiology*, **2005**, 71, 6926-33	4.8	140
173	Effect of external resistance on bacterial diversity and metabolism in cellulose-fed microbial fuel cells. *Bioresource Technology*, **2011**, 102, 278-83	11	137
172	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
171	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
170	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
169	Putting microbes to work in sequence: recent advances in temperature-phased anaerobic digestion processes. *Bioresource Technology*, **2010**, 101, 9409-14	11	98
168	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
167	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
166	Biological conversion of methane to liquid fuels: status and opportunities. *Biotechnology Advances*, **2014**, 32, 1460-75	17.8	92
165	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
164	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
163	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
162	Killing two birds with one stone: simultaneous extraction of DNA and RNA from activated sludge biomass. *Canadian Journal of Microbiology*, **1999**, 45, 269-272	3.2	88
161	Sustainable power generation from bacterio-algal microbial fuel cells (MFCs): An overview. *Renewable and Sustainable Energy Reviews*, **2017**, 73, 75-84	16.2	81
160	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
159	Bacterial diversity and community structure in an aerated lagoon revealed by ribosomal intergenic spacer analyses and 16S ribosomal DNA sequencing. *Applied and Environmental Microbiology*, **2001**, 67, 1565-74	4.8	80
158	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

157	Biological conversion of biogas to methanol using methanotrophs isolated from solid-state anaerobic digestate. *Bioresource Technology*, **2016**, 201, 50-7	11	78
156	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
155	Intestinal Microbiota of Broiler Chickens As Affected by Litter Management Regimens. *Frontiers in Microbiology*, **2016**, 7, 593	5.7	74
154	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
153	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
152	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
151	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
150	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
149	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	5.7	63
148	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
147	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
146	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
145	Selected antimicrobial resistance during composting of manure from cattle administered sub-therapeutic antimicrobials. *Journal of Environmental Quality*, **2009**, 38, 567-75	3.4	60
144	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
143	Invited review: Nitrogen in ruminant nutrition: A review of measurement techniques. *Journal of Dairy Science*, **2019**, 102, 5811-5852	4	56
142	Symposium review: Uncertainties in enteric methane inventories, measurement techniques, and prediction models. *Journal of Dairy Science*, **2018**, 101, 6655-6674	4	56
141	Stability of the bacterial community in a pulp mill effluent treatment system during normal operation and a system shutdown. *Water Research*, **2003**, 37, 4873-84	12.5	56
140	Recent advances in understanding resin acid biodegradation: microbial diversity and metabolism. *Archives of Microbiology*, **1999**, 172, 131-8	3	56

139	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
138	Role of interferon-gamma in immunity to herpes simplex virus. *Journal of Leukocyte Biology*, **1996**, 60, 528-32	6.5	54
137	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
136	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
135	Effects of nitrate on methane production, fermentation, and microbial populations in in vitro ruminal cultures. *Bioresource Technology*, **2012**, 103, 173-9	11	50
134	Serial analysis of ribosomal sequence tags (SARST): a high-throughput method for profiling complex microbial communities. *Environmental Microbiology*, **2004**, 6, 131-44	5.2	50
133	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
132	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
131	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
130	Bioaugmentation with the resin acid-degrading bacterium Zoogloea resiniphila DhA-35 to counteract pH stress in an aerated lagoon treating pulp and paper mill effluent. *Water Research*, **2002**, 36, 2793-801	12.5	46
129	Bioaugmentation with resin-acid-degrading bacteria enhances resin acid removal in sequencing batch reactors treating pulp mill effluents. *Water Research*, **2001**, 35, 883-90	12.5	45
128	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
127	Technical note: Specific PCR amplification of protozoal 18S rDNA sequences from DNA extracted from ruminal samples of cows. *Journal of Animal Science*, **2003**, 81, 812-5	0.7	43
126	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
125	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
124	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
123	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
122	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

121	Steam explosion enhances digestibility and fermentation of corn stover by facilitating ruminal microbial colonization. *Bioresource Technology*, **2018**, 253, 244-251	11	39
120	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
119	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
118	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
117	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
116	An efficient RNA extraction method for estimating gut microbial diversity by polymerase chain reaction. *Current Microbiology*, **2009**, 58, 464-71	2.4	37
115	The Microbiota of Recreational Freshwaters and the Implications for Environmental and Public Health. *Frontiers in Microbiology*, **2016**, 7, 1826	5.7	33
114	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
113	DNA-based and culture-based characterization of a hydrocarbon-degrading consortium enriched from Arctic soil. *Canadian Journal of Microbiology*, **2001**, 47, 1107-15	3.2	32
112	Monensin and Nisin Affect Rumen Fermentation and Microbiota Differently. *Frontiers in Microbiology*, **2017**, 8, 1111	5.7	31
111	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
110	Estrogen status alters tissue distribution and metabolism of selenium in female rats. *Journal of Nutritional Biochemistry*, **2012**, 23, 532-8	6.3	30
109	Inhibition of methanogenesis by C1- and C2-polychlorinated aliphatic hydrocarbons. *Environmental Toxicology and Chemistry*, **2000**, 19, 2212-2217	3.8	30
108	Isolation and characterization of thermophilic bacteria capable of degrading dehydroabietic acid. *Canadian Journal of Microbiology*, **1999**, 45, 513-9	3.2	30
107	Phylogenetic diversity of bacterial communities in bovine rumen as affected by diets and microenvironments. *Folia Microbiologica*, **2011**, 56, 453-8	2.8	29
106	Monitoring the Size and Metabolic Activity of the Bacterial Community during Biostimulation of Fuel-Contaminated Soil using Competitive PCR and RT-PCR. *Microbial Ecology*, **2001**, 42, 267-273	4.4	28
105	Apparent contradiction: psychrotolerant bacteria from hydrocarbon-contaminated arctic tundra soils that degrade diterpenoids synthesized by trees. *Applied and Environmental Microbiology*, **2000**, 66, 5148-54	4.8	28
104	Application of Recent DNA/RNA-based Techniques in Rumen Ecology. *Asian-Australasian Journal of Animal Sciences*, **2007**, 20, 283-294	2.4	28

103	Hydrogen and volatile fatty acid production during fermentation of cellulosic substrates by a thermophilic consortium at 50 and 60 ℃. *Bioresource Technology*, **2012**, 104, 424-31	11	27
102	Characterization and performance of anodic mixed culture biofilms in submersed microbial fuel cells. *Bioelectrochemistry*, **2017**, 113, 79-84	5.6	26
101	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
100	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
99	Variations in 16S rRNA-based microbiome profiling between pyrosequencing runs and between pyrosequencing facilities. *Journal of Microbiology*, **2014**, 52, 355-65	3	25
98	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
97	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
96	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
95	The microbiome driving anaerobic digestion and microbial analysis. *Advances in Bioenergy*, **2020**, 5, 1-61	3.9	24
94	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
93	A phylogenetic census of global diversity of gut anaerobic fungi and a new taxonomic framework. *Fungal Diversity*, **2018**, 89, 253-266	17.6	24
92	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
91	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
90	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
89	Do Ruminal Ciliates Select Their Preys and Prokaryotic Symbionts?. *Frontiers in Microbiology*, **2018**, 9, 1710	5.7	23
88	Prebiotic Oligosaccharides: Comparative Evaluation Using In Vitro Cultures of InfantsSFecal Microbiomes. *Applied and Environmental Microbiology*, **2014**, 80, 7388-97	4.8	21
87	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
86	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

85	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
84	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
83	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
82	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
81	Silage quality and preservation of Urtica cannabina ensiled alone and with additive treatment. *Grass and Forage Science*, **2014**, 69, 405-414	2.3	18
80	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
79	Metagenomic investigation of gastrointestinal microbiome in cattle. *Asian-Australasian Journal of Animal Sciences*, **2017**, 30, 1515-1528	2.4	18
78	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
77	Methanol Production from Biogas with a Thermotolerant Methanotrophic Consortium Isolated from an Anaerobic Digestion System. *Energy & Fuels*, **2017**, 31, 2970-2975	4.1	17
76	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
75	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
74	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
73	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
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	Occurrence of Two Resin Acid-Degrading Bacteria and a Gene Encoding Resin Acid Biodegradation in Pulp and Paper Mill Effluent Biotreatment Systems Assayed by PCR. *Microbial Ecology*, **1999**, 38, 114-125	4.4	16
70	Rumen fermentation and microbial community composition influenced by live Enterococcus faecium supplementation. *AMB Express*, **2019**, 9, 123	4.1	15
69	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
68	Dynamics of bacterial community in solid-state fermented feed revealed by 16S rRNA. *Letters in Applied Microbiology*, **2009**, 49, 166-72	2.9	15

67	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
66	Chloroform dechlorination by a wastewater methanogenic consortium and cell extracts of Methanosarcina barkeri. *Water Research*, **1997**, 31, 1879-1886	12.5	14
65	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
64	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
63	Reducing microbial ureolytic activity in the rumen by immunization against urease therein. *BMC Veterinary Research*, **2015**, 11, 94	2.7	13
62	Linking rumen function to animal response by application of metagenomics techniques. *Australian Journal of Experimental Agriculture*, **2008**, 48, 711		13
61	Effects of Incremental Urea Supplementation on Rumen Fermentation, Nutrient Digestion, Plasma Metabolites, and Growth Performance in Fattening Lambs. *Animals*, **2019**, 9,	3.1	12
60	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
59	Production and Utilization of Methane Biogas as Renewable Fuel403-433		12
58	Production of Methane Biogas as Fuel Through Anaerobic Digestion **2010**, 105-127		12
57	Ruminal microbiota-host interaction and its effect on nutrient metabolism. *Animal Nutrition*, **2021**, 7, 49-55	4.8	12
56	Inhibition of the Rumen Ciliate by Antibiotics. *Frontiers in Microbiology*, **2017**, 8, 1189	5.7	11
55	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
54	Nucleic acid extraction, oligonucleotide probes and PCR methods **2005**, 81-104		11
53	Extending Burk Dehority's Perspectives on the Role of Ciliate Protozoa in the Rumen. *Frontiers in Microbiology*, **2020**, 11, 123	5.7	10
52	The transcriptome of the rumen ciliate Entodinium caudatum reveals some of its metabolic features. *BMC Genomics*, **2019**, 20, 1008	4.5	10
51	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
50	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

49	Aerobic cultivation of anaerobic rumen protozoa, Entodinium caudatum and Epidinium caudatum. *Journal of Microbiological Methods*, **2018**, 152, 186-193	2.8	9
48	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
47	Functional phylotyping approach for assessing intraspecific diversity of Ruminococcus albus within the rumen microbiome. *FEMS Microbiology Letters*, **2015**, 362, 1-10	2.9	8
46	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
45	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
44	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
43	Effect of haylage and monensin supplementation on ruminal bacterial communities of feedlot cattle. *Current Microbiology*, **2014**, 69, 169-75	2.4	8
42	Development of a phylogenetic microarray for comprehensive analysis of ruminal bacterial communities. *Journal of Applied Microbiology*, **2014**, 117, 949-60	4.7	8
41	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
40	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
39	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
38	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
37	Lessons learned from Sphingomonas species that degrade abietane triterpenoids. *Journal of Industrial Microbiology and Biotechnology*, **1999**, 23, 374-379	4.2	7
36	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
35	Draft Macronuclear Genome Sequence of the Ruminal Ciliate Entodinium caudatum. *Microbiology Resource Announcements*, **2018**, 7,	1.3	7
34	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
33	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
32	Feedstocks affect the diversity and distribution of propionate CoA-transferase genes (pct) in anaerobic digesters. *Microbial Ecology*, **2013**, 66, 351-62	4.4	6

31	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
30	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
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