

Zhongtang Yu

List of Publications by Year in descending order

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Version: 2024-02-01

202
papers

14,230
citations

23879

60
h-index

26792

111
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211
all docs

211
docs citations

211
times ranked

14810
citing authors

#	ARTICLE	IF	CITATIONS
1	Considerations and best practices in animal science 16S ribosomal RNA gene sequencing microbiome studies. <i>Journal of Animal Science</i> , 2022, 100, .	0.2	36
2	Genomic Insights into the Distribution of Peptidases and Proteolytic Capacity among <i>Prevotella</i> and <i>Paraprevotella</i> Species. <i>Microbiology Spectrum</i> , 2022, 10, e0218521.	1.2	10
3	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. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2111294119.	3.3	77
4	Heat stress impacts the multi-domain ruminal microbiota and some of the functional features independent of its effect on feed intake in lactating dairy cows. <i>Journal of Animal Science and Biotechnology</i> , 2022, 13, .	2.1	3
5	Ruminal microbiota–host interaction and its effect on nutrient metabolism. <i>Animal Nutrition</i> , 2021, 7, 49-55.	2.1	43
6	Supplementation with sodium butyrate improves growth and antioxidant function in dairy calves before weaning. <i>Journal of Animal Science and Biotechnology</i> , 2021, 12, 2.	2.1	27
7	Weaning Age Affects the Development of the Ruminal Bacterial and Archaeal Community in Hu Lambs During Early Life. <i>Frontiers in Microbiology</i> , 2021, 12, 636865.	1.5	10
8	Holstein and Jersey Steers Differ in Rumen Microbiota and Enteric Methane Emissions Even Fed the Same Total Mixed Ration. <i>Frontiers in Microbiology</i> , 2021, 12, 601061.	1.5	18
9	Seasonal Influence on Rumen Microbiota, Rumen Fermentation, and Enteric Methane Emissions of Holstein and Jersey Steers under the Same Total Mixed Ration. <i>Animals</i> , 2021, 11, 1184.	1.0	11
10	The macronuclear genome of anaerobic ciliate <i>Entodinium caudatum</i> reveals its biological features adapted to the distinct rumen environment. <i>Genomics</i> , 2021, 113, 1416-1427.	1.3	20
11	Enhanced CH ₄ Production from Corn Stover by Simultaneous Lime Treatment. <i>Journal of Biobased Materials and Bioenergy</i> , 2021, 15, 323-333.	0.1	0
12	Mucolytic bacteria: prevalence in various pathological diseases. <i>World Journal of Microbiology and Biotechnology</i> , 2021, 37, 176.	1.7	9
13	Assessment of veterinary antibiotics from animal manure-amended soil to growing alfalfa, alfalfa silage, and milk. <i>Ecotoxicology and Environmental Safety</i> , 2021, 224, 112699.	2.9	10
14	Identification of Bioactive Phytochemicals from Six Plants: Mechanistic Insights into the Inhibition of Rumen Protozoa, Ammoniogenesis, and Î±-Glucosidase. <i>Biology</i> , 2021, 10, 1055.	1.3	9
15	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. <i>Contemporary Clinical Trials Communications</i> , 2020, 17, 100495.	0.5	32
16	Giant milkweed (<i>Calotropis gigantea</i>): A new plant resource to inhibit protozoa and decrease ammoniogenesis of rumen microbiota in vitro without impairing fermentation. <i>Science of the Total Environment</i> , 2020, 743, 140665.	3.9	13
17	Catechin Bioavailability Is Reduced in Obese Persons Without Altering Gut Microbial-Derived Valerolactones Following Consumption of a Green Tea Extract Confection. <i>Current Developments in Nutrition</i> , 2020, 4, nzaa045_101.	0.1	0
18	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. <i>Journal of Animal Science and Biotechnology</i> , 2020, 11, 93.	2.1	7

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19	The microbiome driving anaerobic digestion and microbial analysis. <i>Advances in Bioenergy</i> , 2020, 5, 1-61.	0.5	50
20	Extending Burk Dehority's Perspectives on the Role of Ciliate Protozoa in the Rumen. <i>Frontiers in Microbiology</i> , 2020, 11, 123.	1.5	26
21	Effects of repeated oral inoculation of artificially fed lambs with lyophilized rumen fluid on growth performance, rumen fermentation, microbial population and organ development. <i>Animal Feed Science and Technology</i> , 2020, 264, 114465.	1.1	18
22	Inhibition of methanogenesis by nitrate, with or without defaunation, in continuous culture. <i>Journal of Dairy Science</i> , 2020, 103, 7124-7140.	1.4	12
23	Repeated Inoculation of Young Calves With Rumen Microbiota Does Not Significantly Modulate the Rumen Prokaryotic Microbiota Consistently but Decreases Diarrhea. <i>Frontiers in Microbiology</i> , 2020, 11, 1403.	1.5	20
24	Dietary energy sources and levels shift the multi-kingdom microbiota and functions in the rumen of lactating dairy cows. <i>Journal of Animal Science and Biotechnology</i> , 2020, 11, 66.	2.1	24
25	Epigallocatechin gallate but not catechin prevents nonalcoholic steatohepatitis in mice similar to green tea extract while differentially affecting the gut microbiota. <i>Journal of Nutritional Biochemistry</i> , 2020, 84, 108455.	1.9	52
26	Repeated inoculation with fresh rumen fluid before or during weaning modulates the microbiota composition and co-occurrence of the rumen and colon of lambs. <i>BMC Microbiology</i> , 2020, 20, 29.	1.3	41
27	Rumen fermentation and microbial community composition influenced by live <i>Enterococcus faecium</i> supplementation. <i>AMB Express</i> , 2019, 9, 123.	1.4	26
28	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. <i>Frontiers in Immunology</i> , 2019, 10, 1509.	2.2	31
29	Effects of Incremental Urea Supplementation on Rumen Fermentation, Nutrient Digestion, Plasma Metabolites, and Growth Performance in Fattening Lambs. <i>Animals</i> , 2019, 9, 652.	1.0	39
30	Dietary Bioactive Lipid Compounds Rich in Menthol Alter Interactions Among Members of Ruminal Microbiota in Sheep. <i>Frontiers in Microbiology</i> , 2019, 10, 2038.	1.5	18
31	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). <i>Current Developments in Nutrition</i> , 2019, 3, nzz031.OR34-03-19.	0.1	0
32	Weaning Ages Do Not Affect the Overall Growth or Carcass Traits of Hu Sheep. <i>Animals</i> , 2019, 9, 356.	1.0	4
33	Prediction of enteric methane production, yield and intensity of beef cattle using an intercontinental database. <i>Agriculture, Ecosystems and Environment</i> , 2019, 283, 106575.	2.5	57
34	Evaluation of the performance of existing mathematical models predicting enteric methane emissions from ruminants: Animal categories and dietary mitigation strategies. <i>Animal Feed Science and Technology</i> , 2019, 255, 114207.	1.1	21
35	Specific inhibitors of lysozyme and peptidases inhibit the growth of the rumen protozoan <i>Entodinium caudatum</i> without decreasing feed digestion or fermentation <i>in vitro</i> . <i>Journal of Applied Microbiology</i> , 2019, 127, 670-682.	1.4	15
36	Ferric citrate, nitrate, saponin and their combinations affect <i>in vitro</i> ruminal fermentation, production of sulphide and methane and abundance of select microbial populations. <i>Journal of Applied Microbiology</i> , 2019, 127, 150-158.	1.4	10

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37	Invited review: Nitrogen in ruminant nutrition: A review of measurement techniques. <i>Journal of Dairy Science</i> , 2019, 102, 5811-5852.	1.4	120
38	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. <i>Journal of Nutritional Biochemistry</i> , 2019, 67, 78-89.	1.9	104
39	Inhibition of Rumen Protozoa by Specific Inhibitors of Lysozyme and Peptidases in vitro. <i>Frontiers in Microbiology</i> , 2019, 10, 2822.	1.5	9
40	The transcriptome of the rumen ciliate <i>Entodinium caudatum</i> reveals some of its metabolic features. <i>BMC Genomics</i> , 2019, 20, 1008.	1.2	22
41	Dietary leucine supplementation enhances the health of early weaned Hu lambs. <i>Animal Feed Science and Technology</i> , 2019, 247, 248-254.	1.1	7
42	Genetics and other factors affecting intestinal microbiota and function in poultry. <i>Burleigh Dodds Series in Agricultural Science</i> , 2019, , 165-188.	0.1	0
43	Effects of dietary protein sources and nisin on rumen fermentation, nutrient digestion, plasma metabolites, nitrogen utilization, and growth performance in growing lambs1. <i>Journal of Animal Science</i> , 2018, 96, 1929-1938.	0.2	16
44	A phylogenetic census of global diversity of gut anaerobic fungi and a new taxonomic framework. <i>Fungal Diversity</i> , 2018, 89, 253-266.	4.7	43
45	Symposium review: Uncertainties in enteric methane inventories, measurement techniques, and prediction models. <i>Journal of Dairy Science</i> , 2018, 101, 6655-6674.	1.4	103
46	Prediction of enteric methane production, yield, and intensity in dairy cattle using an intercontinental database. <i>Global Change Biology</i> , 2018, 24, 3368-3389.	4.2	166
47	Steam explosion enhances digestibility and fermentation of corn stover by facilitating ruminal microbial colonization. <i>Bioresource Technology</i> , 2018, 253, 244-251.	4.8	62
48	Short communication: Does early-life administration of a <i>Megasphaera elsdenii</i> probiotic affect long-term establishment of the organism in the rumen and alter rumen metabolism in the dairy calf?. <i>Journal of Dairy Science</i> , 2018, 101, 1747-1751.	1.4	13
49	Draft Macronuclear Genome Sequence of the Ruminal Ciliate <i>Entodinium caudatum</i> . <i>Microbiology Resource Announcements</i> , 2018, 7, .	0.3	18
50	Do Ruminal Ciliates Select Their Preys and Prokaryotic Symbionts?. <i>Frontiers in Microbiology</i> , 2018, 9, 1710.	1.5	47
51	Aerobic cultivation of anaerobic rumen protozoa, <i>Entodinium caudatum</i> and <i>Epidinium caudatum</i> . <i>Journal of Microbiological Methods</i> , 2018, 152, 186-193.	0.7	15
52	Insights into the Populations of Proteolytic and Amino Acid-Fermenting Bacteria from Microbiota Analysis Using In Vitro Enrichment Cultures. <i>Current Microbiology</i> , 2018, 75, 1543-1550.	1.0	7
53	Comparative Analysis of the Microbiota Between Sheep Rumen and Rabbit Cecum Provides New Insight Into Their Differential Methane Production. <i>Frontiers in Microbiology</i> , 2018, 9, 575.	1.5	42
54	Decolorization of Reactive Black 5 and Reactive Blue 4 Dyes in Microbial Fuel Cells. <i>Applied Biochemistry and Biotechnology</i> , 2018, 186, 1017-1033.	1.4	13

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55	Microbial Communities in Sand Bioreactors Treating High Salt Content Food Industry Wastewater. Proceedings of the Water Environment Federation, 2018, 2018, 1169-1176.	0.0	0
56	Simultaneous Power Generation and Desalination of Microbial Desalination Cells Using <i>Nannochloropsis salina</i> (Marine Algae) Versus Potassium Ferricyanide as Catholytes. Environmental Engineering Science, 2017, 34, 185-196.	0.8	20
57	Sustainable power generation from bacterio-algal microbial fuel cells (MFCs): An overview. Renewable and Sustainable Energy Reviews, 2017, 73, 75-84.	8.2	118
58	Methanol Production from Biogas with a Thermotolerant Methanotrophic Consortium Isolated from an Anaerobic Digestion System. Energy & Fuels, 2017, 31, 2970-2975.	2.5	28
59	Development and evaluation of a trickle bed bioreactor for enhanced mass transfer and methanol production from biogas. Biochemical Engineering Journal, 2017, 122, 103-114.	1.8	31
60	Rumen methanogens and mitigation of methane emission by anti-methanogenic compounds and substances. Journal of Animal Science and Biotechnology, 2017, 8, 13.	2.1	293
61	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.	1.4	14
62	Draft Genome Sequence of <i>Methylocaldum</i> sp. SAD2, a Methanotrophic Strain That Can Convert Raw Biogas to Methanol in the Presence of Hydrogen Sulfide. Genome Announcements, 2017, 5, .	0.8	0
63	Draft Genome Sequence of <i>Methylocaldum</i> sp. Strain 14B, an Obligate Hydrogen Sulfide-Tolerant Methanotrophic Strain That Can Convert Biogas to Methanol. Genome Announcements, 2017, 5, .	0.8	1
64	Functional display of amylase on yeast surface from <i>Rhizopus oryzae</i> as a novel enzyme delivery method. Food Biotechnology, 2017, 31, 233-244.	0.6	4
65	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.	4.8	47
66	Characterization and performance of anodic mixed culture biofilms in submersed microbial fuel cells. Bioelectrochemistry, 2017, 113, 79-84.	2.4	38
67	Monensin and Nisin Affect Rumen Fermentation and Microbiota Differently In Vitro. Frontiers in Microbiology, 2017, 8, 1111.	1.5	63
68	Inhibition of the Rumen Ciliate <i>Entodinium caudatum</i> by Antibiotics. Frontiers in Microbiology, 2017, 8, 1189.	1.5	24
69	Invited Review Metagenomic investigation of gastrointestinal microbiome in cattle. Asian-Australasian Journal of Animal Sciences, 2017, 30, 1515-1528.	2.4	41
70	P7007 Targeted IGF1 promoter modification in mice using small intestine-specific regulatory element binding sites. Journal of Animal Science, 2016, 94, 179-179.	0.2	0
71	1613 Inhibition of methanogenesis by nitrate, with or without defaunation, in continuous culture. Journal of Animal Science, 2016, 94, 785-785.	0.2	0
72	The Bacteriomes of Ileal Mucosa and Cecal Content of Broiler Chickens and Turkeys as Revealed by Metagenomic Analysis. International Journal of Microbiology, 2016, 2016, 1-12.	0.9	14

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73	Intestinal Microbiota of Broiler Chickens As Affected by Litter Management Regimens. <i>Frontiers in Microbiology</i> , 2016, 7, 593.	1.5	109
74	The Microbiota of Recreational Freshwaters and the Implications for Environmental and Public Health. <i>Frontiers in Microbiology</i> , 2016, 7, 1826.	1.5	70
75	1617 Effect of dietary energy source and level on rumen bacteria community in lactating dairy cows. <i>Journal of Animal Science</i> , 2016, 94, 787-787.	0.2	0
76	High-Performing Windowfarm Hydroponic System: Transcriptomes of Fresh Produce and Microbial Communities in Response to Beneficial Bacterial Treatment. <i>Molecular Plant-Microbe Interactions</i> , 2016, 29, 965-976.	1.4	9
77	Effects of different sources of physically effective fiber on rumen microbial populations. <i>Animal</i> , 2016, 10, 410-417.	1.3	5
78	Relative importance of <i>Microcystis</i> abundance and diversity in determining microcystin dynamics in Lake Erie coastal wetland and downstream beach water. <i>Journal of Applied Microbiology</i> , 2016, 120, 138-151.	1.4	26
79	Isolation of a methanotroph from a hydrogen sulfide-rich anaerobic digester for methanol production from biogas. <i>Process Biochemistry</i> , 2016, 51, 838-844.	1.8	51
80	Prevalence and diversity of Shiga toxin genes in Canada geese and water in western Lake Erie Region. <i>Journal of Great Lakes Research</i> , 2016, 42, 476-481.	0.8	6
81	Medicinal herbs as a potential strategy to decrease methane production by rumen microbiota: a systematic evaluation with a focus on <i>Perilla frutescens</i> seed extract. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 9757-9771.	1.7	12
82	System Performance and Microbial Communities of Anaerobic Digestion Systems Fed Dairy Manure. <i>Environmental Engineering Science</i> , 2016, 33, 986-995.	0.8	1
83	Gut dysbiosis impairs recovery after spinal cord injury. <i>Journal of Experimental Medicine</i> , 2016, 213, 2603-2620.	4.2	236
84	Dietary supplementation of <i>Rosmarinus officinalis</i> L. leaves in sheep affects the abundance of rumen methanogens and other microbial populations. <i>Journal of Animal Science and Biotechnology</i> , 2016, 7, 27.	2.1	30
85	Review of current in vivo measurement techniques for quantifying enteric methane emission from ruminants. <i>Animal Feed Science and Technology</i> , 2016, 219, 13-30.	1.1	120
86	Critical evaluation of essential oils as rumen modifiers in ruminant nutrition: A review. <i>Science of the Total Environment</i> , 2016, 545-546, 556-568.	3.9	171
87	Biological conversion of biogas to methanol using methanotrophs isolated from solid-state anaerobic digestate. <i>Bioresource Technology</i> , 2016, 201, 50-57.	4.8	107
88	Evaluation of different essential oils in modulating methane and ammonia production, rumen fermentation, and rumen bacteria in vitro. <i>Animal Feed Science and Technology</i> , 2016, 215, 25-36.	1.1	75
89	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. <i>Bioresource Technology</i> , 2016, 211, 603-609.	4.8	8
90	Design, implementation and interpretation of in vitro batch culture experiments to assess enteric methane mitigation in ruminants—a review. <i>Animal Feed Science and Technology</i> , 2016, 216, 1-18.	1.1	114

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91	Impact of different ratios of feedstock to liquid anaerobic digestion effluent on the performance and microbiome of solid-state anaerobic digesters digesting corn stover. <i>Bioresource Technology</i> , 2016, 200, 744-752.	4.8	47
92	Volume ratios between the thermophilic and the mesophilic digesters of a temperature-phased anaerobic digestion system affect their performance and microbial communities. <i>New Biotechnology</i> , 2016, 33, 245-254.	2.4	11
93	RUMINANT NUTRITION SYMPOSIUM: How to use data on the rumen microbiome to improve our understanding of ruminant nutrition ^{1,2} . <i>Journal of Animal Science</i> , 2015, 93, 1450-1470.	0.2	80
94	Effects of garlic oil, nitrate, saponin and their combinations supplemented to different substrates on <i>in vitro</i> fermentation, ruminal methanogenesis, and abundance and diversity of microbial populations. <i>Journal of Applied Microbiology</i> , 2015, 119, 127-138.	1.4	45
95	Changes in diversity of cultured bacteria resistant to erythromycin and tetracycline in swine manure during simulated composting and lagoon storage. <i>Letters in Applied Microbiology</i> , 2015, 61, 245-251.	1.0	26
96	Essential oils affect populations of some rumen bacteria <i>in vitro</i> as revealed by microarray (RumenBactArray) analysis. <i>Frontiers in Microbiology</i> , 2015, 6, 297.	1.5	84
97	Effects of Adaptation of <i>In vitro</i> Rumen Culture to Garlic Oil, Nitrate, and Saponin and Their Combinations on Methanogenesis, Fermentation, and Abundances and Diversity of Microbial Populations. <i>Frontiers in Microbiology</i> , 2015, 6, 1434.	1.5	58
98	Effect of pH buffering capacity and sources of dietary sulfur on rumen fermentation, sulfide production, methane production, sulfate reducing bacteria, and total Archaea in <i>in vitro</i> rumen cultures. <i>Bioresource Technology</i> , 2015, 186, 25-33.	4.8	24
99	Reducing microbial ureolytic activity in the rumen by immunization against urease therein. <i>BMC Veterinary Research</i> , 2015, 11, 94.	0.7	17
100	Construction and evaluation of a genetic construct for specific detection and measurement of propionate by whole-cell bacteria. <i>Biotechnology and Bioengineering</i> , 2015, 112, 280-287.	1.7	4
101	Comparison of the microbial communities in solid-state anaerobic digestion (SS-AD) reactors operated at mesophilic and thermophilic temperatures. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 969-980.	1.7	104
102	Yeast with surface displayed xylanase as a new dual purpose delivery vehicle of xylanase and yeast. <i>Animal Feed Science and Technology</i> , 2015, 208, 44-52.	1.1	9
103	Fermentative metabolism of an anaerobic, thermophilic consortium on plant polymers and commercial paper samples. <i>Biomass and Bioenergy</i> , 2015, 75, 11-22.	2.9	3
104	Functional phylotyping approach for assessing intraspecific diversity of <i>Ruminococcus albus</i> within the rumen microbiome. <i>FEMS Microbiology Letters</i> , 2015, 362, 1-10.	0.7	12
105	Effect of organic loading on the microbiota in a temperature-phased anaerobic digestion (TPAD) system co-digesting dairy manure and waste whey. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 8777-8792.	1.7	9
106	Exposure to a social stressor disrupts the community structure of the colonic mucosa-associated microbiota. <i>BMC Microbiology</i> , 2014, 14, 189.	1.3	292
107	Intestinal microbiome of poultry and its interaction with host and diet. <i>Gut Microbes</i> , 2014, 5, 108-119.	4.3	586
108	Development of a phylogenetic microarray for comprehensive analysis of ruminal bacterial communities. <i>Journal of Applied Microbiology</i> , 2014, 117, 949-960.	1.4	8

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109	The structures of the colonic mucosa-associated and luminal microbial communities are distinct and differentially affected by a prolonged murine stressor. <i>Gut Microbes</i> , 2014, 5, 748-760.	4.3	91
110	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. <i>Bioresource Technology</i> , 2014, 155, 129-135.	4.8	73
111	Silage quality and preservation of <i>Urtica cannabina</i> ensiled alone and with additive treatment. <i>Grass and Forage Science</i> , 2014, 69, 405-414.	1.2	23
112	Effects of vanillin, quillaja saponin, and essential oils on in vitro fermentation and protein-degrading microorganisms of the rumen. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 897-905.	1.7	93
113	Effects of microbial and non-microbial factors of liquid anaerobic digestion effluent as inoculum on solid-state anaerobic digestion of corn stover. <i>Bioresource Technology</i> , 2014, 157, 188-196.	4.8	72
114	Spatial and temporal variations of microbial community in a mixed plug-flow loop reactor fed with dairy manure. <i>Microbial Biotechnology</i> , 2014, 7, 332-346.	2.0	60
115	Prebiotic Oligosaccharides: Comparative Evaluation Using <i>In Vitro</i> Cultures of Infants' Fecal Microbiomes. <i>Applied and Environmental Microbiology</i> , 2014, 80, 7388-7397.	1.4	27
116	Investigation of ruminal bacterial diversity in dairy cattle fed supplementary monensin alone and in combination with fat, using pyrosequencing analysis. <i>Canadian Journal of Microbiology</i> , 2014, 60, 65-71.	0.8	22
117	Biological conversion of methane to liquid fuels: Status and opportunities. <i>Biotechnology Advances</i> , 2014, 32, 1460-1475.	6.0	123
118	Effect of Haylage and Monensin Supplementation on Ruminal Bacterial Communities of Feedlot Cattle. <i>Current Microbiology</i> , 2014, 69, 169-175.	1.0	13
119	Variations in 16S rRNA-based microbiome profiling between pyrosequencing runs and between pyrosequencing facilities. <i>Journal of Microbiology</i> , 2014, 52, 355-365.	1.3	33
120	Feedstocks Affect the Diversity and Distribution of Propionate CoA-Transferase Genes (pct) in Anaerobic Digesters. <i>Microbial Ecology</i> , 2013, 66, 351-362.	1.4	8
121	Effects of coconut and fish oils on ruminal methanogenesis, fermentation, and abundance and diversity of microbial populations in vitro. <i>Journal of Dairy Science</i> , 2013, 96, 1782-1792.	1.4	70
122	Isolation and characterization of two thermophilic cellulolytic strains of <i>Clostridium thermocellum</i> from a compost sample. <i>Journal of Applied Microbiology</i> , 2013, 114, 1001-1007.	1.4	23
123	Evaluation of system performances and microbial communities of two temperature-phased anaerobic digestion systems treating dairy manure. <i>Bioresource Technology</i> , 2013, 143, 431-438.	4.8	20
124	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. <i>Bioresource Technology</i> , 2013, 148, 352-360.	4.8	65
125	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. <i>Journal of Dairy Science</i> , 2013, 96, 4592-4600.	1.4	37
126	Comparison of different liquid anaerobic digestion effluents as inocula and nitrogen sources for solid-state batch anaerobic digestion of corn stover. <i>Waste Management</i> , 2013, 33, 26-32.	3.7	109

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127	Reactor performance and microbial community dynamics during solid-state anaerobic digestion of corn stover at mesophilic and thermophilic conditions. <i>Bioresource Technology</i> , 2013, 136, 574-581.	4.8	116
128	Bacterial census of poultry intestinal microbiome. <i>Poultry Science</i> , 2013, 92, 671-683.	1.5	375
129	Evaluation of system performance and microbial communities of a temperature-phased anaerobic digestion system treating dairy manure: Thermophilic digester operated at acidic pH. <i>Bioresource Technology</i> , 2013, 142, 625-632.	4.8	19
130	Abundance of pathogens in the gut and litter of broiler chickens as affected by bacitracin and litter management. <i>Veterinary Microbiology</i> , 2013, 166, 595-601.	0.8	24
131	Suppression of methanogenesis in cellulose-fed microbial fuel cells in relation to performance, metabolite formation, and microbial population. <i>Bioresource Technology</i> , 2013, 129, 281-288.	4.8	77
132	Metagenomic Insights into the Carbohydrate-Active Enzymes Carried by the Microorganisms Adhering to Solid Digesta in the Rumen of Cows. <i>PLoS ONE</i> , 2013, 8, e78507.	1.1	123
133	Terrestrial Vertebrate Animal Metagenomics, Domesticated Caprinae. , 2013, , 1-13.		0
134	Quantitative Analysis of Intestinal Bacterial Populations From Term Infants Fed Formula Supplemented With Fructo-oligosaccharides. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2012, 55, 314-320.	0.9	21
135	Effects of quillaja and yucca saponins on communities and select populations of rumen bacteria and archaea, and fermentation in vitro. <i>Journal of Applied Microbiology</i> , 2012, 113, 1329-1340.	1.4	54
136	Quantitative comparisons of select cultured and uncultured microbial populations in the rumen of cattle fed different diets. <i>Journal of Animal Science and Biotechnology</i> , 2012, 3, 28.	2.1	22
137	Effects of Essential Oils on Methane Production and Fermentation by, and Abundance and Diversity of, Rumen Microbial Populations. <i>Applied and Environmental Microbiology</i> , 2012, 78, 4271-4280.	1.4	279
138	Antimicrobial Resistance Arising from Food-Animal Productions and Its Mitigation. , 2012, , .		1
139	Effects of nitrate on methane production, fermentation, and microbial populations in in vitro ruminal cultures. <i>Bioresource Technology</i> , 2012, 103, 173-179.	4.8	68
140	Hydrogen and volatile fatty acid production during fermentation of cellulosic substrates by a thermophilic consortium at 50 and 60°C. <i>Bioresource Technology</i> , 2012, 104, 424-431.	4.8	27
141	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. <i>Bioresource Technology</i> , 2012, 107, 135-143.	4.8	44
142	Estrogen status alters tissue distribution and metabolism of selenium in female rats. <i>Journal of Nutritional Biochemistry</i> , 2012, 23, 532-538.	1.9	34
143	Persistence of Resistance to Erythromycin and Tetracycline in Swine Manure During Simulated Composting and Lagoon Treatments. <i>Microbial Ecology</i> , 2012, 63, 32-40.	1.4	74
144	Evaluation of different partial 16S rRNA gene sequence regions for phylogenetic analysis of microbiomes. <i>Journal of Microbiological Methods</i> , 2011, 84, 81-87.	0.7	274

#	ARTICLE	IF	CITATIONS
145	Manipulation of rumen fermentation and ecology of swamp buffalo by coconut oil and garlic powder supplementation. <i>Livestock Science</i> , 2011, 135, 84-92.	0.6	72
146	Effect of ruminal pulse dose of polyunsaturated fatty acids on ruminal microbial populations and duodenal flow and milk profiles of fatty acids. <i>Journal of Dairy Science</i> , 2011, 94, 2977-2985.	1.4	7
147	Status of the phylogenetic diversity census of ruminal microbiomes. <i>FEMS Microbiology Ecology</i> , 2011, 76, 49-63.	1.3	323
148	Phylogenetic diversity of bacterial communities in bovine rumen as affected by diets and microenvironments. <i>Folia Microbiologica</i> , 2011, 56, 453-458.	1.1	41
149	A meta-analysis of the microbial diversity observed in anaerobic digesters. <i>Bioresource Technology</i> , 2011, 102, 3730-3739.	4.8	411
150	Effect of external resistance on bacterial diversity and metabolism in cellulose-fed microbial fuel cells. <i>Bioresource Technology</i> , 2011, 102, 278-283.	4.8	161
151	Effects of Methanogenic Inhibitors on Methane Production and Abundances of Methanogens and Cellulolytic Bacteria in <i>In Vitro</i> Ruminal Cultures. <i>Applied and Environmental Microbiology</i> , 2011, 77, 2634-2639.	1.4	124
152	Populations of Select Cultured and Uncultured Bacteria in the Rumen of Sheep and the Effect of Diets and Ruminal Fractions. <i>International Journal of Microbiology</i> , 2011, 2011, 1-8.	0.9	49
153	Production of Methane Biogas as Fuel Through Anaerobic Digestion. , 2010, , 105-127.		16
154	Occurrence and Persistence of Erythromycin Resistance Genes (<i>erm</i>) and Tetracycline Resistance Genes (<i>tet</i>) in Waste Treatment Systems on Swine Farms. <i>Microbial Ecology</i> , 2010, 60, 479-486.	1.4	86
155	Dysbiosis of fecal microbiota in Crohn's disease patients as revealed by a custom phylogenetic microarray. <i>Inflammatory Bowel Diseases</i> , 2010, 16, 2034-2042.	0.9	314
156	Putting microbes to work in sequence: Recent advances in temperature-phased anaerobic digestion processes. <i>Bioresource Technology</i> , 2010, 101, 9409-9414.	4.8	120
157	Interrelations between the Microbiotas in the Litter and in the Intestines of Commercial Broiler Chickens. <i>Applied and Environmental Microbiology</i> , 2010, 76, 6572-6582.	1.4	157
158	Novel Glycoside Hydrolases Identified by Screening a Chinese Holstein Dairy Cow Rumen-Derived Metagenome Library. <i>Applied and Environmental Microbiology</i> , 2010, 76, 6701-6705.	1.4	45
159	Selected Antimicrobial Resistance during Composting of Manure from Cattle Administered Sub-therapeutic Antimicrobials. <i>Journal of Environmental Quality</i> , 2009, 38, 567-575.	1.0	68
160	An Efficient RNA Extraction Method for Estimating Gut Microbial Diversity by Polymerase Chain Reaction. <i>Current Microbiology</i> , 2009, 58, 464-471.	1.0	47
161	Dynamics of bacterial community in solid-state fermented feed revealed by 16S rRNA. <i>Letters in Applied Microbiology</i> , 2009, 49, 166-172.	1.0	18
162	Investigating unsaturated fat, monensin, or bromoethanesulfonate in continuous cultures retaining ruminal protozoa. II. Interaction of treatment and presence of protozoa on prokaryotic communities. <i>Journal of Dairy Science</i> , 2009, 92, 3861-3873.	1.4	30

#	ARTICLE	IF	CITATIONS
163	Evaluations of Different Hypervariable Regions of Archaeal 16S rRNA Genes in Profiling of Methanogens by <i>Archaea</i>-Specific PCR and Denaturing Gradient Gel Electrophoresis. Applied and Environmental Microbiology, 2008, 74, 889-893.	1.4	137
164	Cell Surface Enzyme Attachment Is Mediated by Family 37 Carbohydrate-Binding Modules, Unique to <i>Ruminococcus albus</i>. Journal of Bacteriology, 2008, 190, 8220-8222.	1.0	48
165	Linking rumen function to animal response by application of metagenomics techniques. Australian Journal of Experimental Agriculture, 2008, 48, 711.	1.0	15
166	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 tylosin1. Journal of Animal Science, 2008, 86, 2385-2391.	0.2	41
167	Section 3 update: SARST, Serial Analysis of Ribosomal Sequence Tags. , 2008, , 2445-2470.		0
168	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, 4407-4416.	1.4	228
169	Quantitative Assessment of the Tetracycline Resistance Gene Pool in Cheese Samples by Real-Time TaqMan PCR. Applied and Environmental Microbiology, 2007, 73, 1676-1677.	1.4	30
170	Ruminal Nitrogen Metabolism: Perspectives for Integration of Microbiology and Nutrition for Dairy. Journal of Dairy Science, 2007, 90, E1-E16.	1.4	204
171	Assessment of Ruminal Bacterial Populations and Protozoal Generation Time in Cows Fed Different Methionine Sources. Journal of Dairy Science, 2007, 90, 798-809.	1.4	37
172	Electricity generation from cellulose by rumen microorganisms in microbial fuel cells. Biotechnology and Bioengineering, 2007, 97, 1398-1407.	1.7	213
173	Application of Recent DNA/RNA-based Techniques in Rumen Ecology. Asian-Australasian Journal of Animal Sciences, 2007, 20, 283-294.	2.4	36
174	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, 603-611.	1.8	43
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, 530-543.	1.8	164
176	Development and Application of Real-Time PCR Assays for Quantification of Genes Encoding Tetracycline Resistance. Applied and Environmental Microbiology, 2005, 71, 6926-6933.	1.4	161
177	Evaluation of a Real-Time PCR Assay Quantifying the Ruminal Pool Size and Duodenal Flow of Protozoal Nitrogen. Journal of Dairy Science, 2005, 88, 2083-2095.	1.4	75
178	Nucleic acid extraction, oligonucleotide probes and PCR methods. , 2005, , 81-104.		14
179	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, 4800-4806.	1.4	436
180	Development of an Assay to Quantify Rumen Ciliate Protozoal Biomass in Cows Using Real-Time PCR. Journal of Nutrition, 2004, 134, 3378-3384.	1.3	327

#	ARTICLE	IF	CITATIONS
181	Improved extraction of PCR-quality community DNA from digesta and fecal samples. <i>BioTechniques</i> , 2004, 36, 808-812.	0.8	1,342
182	Serial analysis of ribosomal sequence tags (SARST): a high-throughput method for profiling complex microbial communities. <i>Environmental Microbiology</i> , 2003, 6, 131-144.	1.8	57
183	Stability of the bacterial community in a pulp mill effluent treatment system during normal operation and a system shutdown. <i>Water Research</i> , 2003, 37, 4873-4884.	5.3	60
184	Degradation of Polycyclic Aromatic Hydrocarbons at Low Temperature under Aerobic and Nitrate-Reducing Conditions in Enrichment Cultures from Northern Soils. <i>Applied and Environmental Microbiology</i> , 2003, 69, 275-284.	1.4	229
185	Technical note: Specific PCR amplification of protozoal 18S rDNA sequences from DNA extracted from ruminal samples of cows ¹ . <i>Journal of Animal Science</i> , 2003, 81, 812-815.	0.2	54
186	Bioaugmentation with the resin acid-degrading bacterium <i>Zoogloea resiniphila</i> DhA-35 to counteract pH stress in an aerated lagoon treating pulp and paper mill effluent. <i>Water Research</i> , 2002, 36, 2793-2801.	5.3	52
187	Bioaugmentation with resin-acid-degrading bacteria enhances resin acid removal in sequencing batch reactors treating pulp mill effluents. <i>Water Research</i> , 2001, 35, 883-890.	5.3	48
188	DNA-based and culture-based characterization of a hydrocarbon-degrading consortium enriched from Arctic soil. <i>Canadian Journal of Microbiology</i> , 2001, 47, 1107-1115.	0.8	37
189	Monitoring the Size and Metabolic Activity of the Bacterial Community during Biostimulation of Fuel-Contaminated Soil using Competitive PCR and RT-PCR. <i>Microbial Ecology</i> , 2001, 42, 267-273.	1.4	32
190	Bacterial Diversity and Community Structure in an Aerated Lagoon Revealed by Ribosomal Intergenic Spacer Analyses and 16S Ribosomal DNA Sequencing. <i>Applied and Environmental Microbiology</i> , 2001, 67, 1565-1574.	1.4	86
191	Inhibition of methanogenesis by C ₁ and C ₂ polychlorinated aliphatic hydrocarbons. <i>Environmental Toxicology and Chemistry</i> , 2000, 19, 2212-2217.	2.2	36
192	Dechlorination of polychlorinated methanes by a sequential methanogenic-denitrifying bioreactor system. <i>Applied Microbiology and Biotechnology</i> , 2000, 53, 484-489.	1.7	6
193	Apparent Contradiction: Psychrotolerant Bacteria from Hydrocarbon-Contaminated Arctic Tundra Soils That Degrade Diterpenoids Synthesized by Trees. <i>Applied and Environmental Microbiology</i> , 2000, 66, 5148-5154.	1.4	38
194	Lessons learned from <i>Sphingomonas</i> species that degrade abietane triterpenoids. <i>Journal of Industrial Microbiology and Biotechnology</i> , 1999, 23, 374-379.	1.4	10
195	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. <i>Microbial Ecology</i> , 1999, 38, 114-125.	1.4	20
196	Recent advances in understanding resin acid biodegradation: microbial diversity and metabolism. <i>Archives of Microbiology</i> , 1999, 172, 131-138.	1.0	66
197	Biochemistry and ecology of resin acid biodegradation in pulp and paper mill effluent treatment systems. <i>Water Science and Technology</i> , 1999, 40, 273.	1.2	5
198	Isolation and characterization of thermophilic bacteria capable of degrading dehydroabiatic acid. <i>Canadian Journal of Microbiology</i> , 1999, 45, 513-519.	0.8	33

#	ARTICLE	IF	CITATIONS
199	Killing two birds with one stone: simultaneous extraction of DNA and RNA from activated sludge biomass. <i>Canadian Journal of Microbiology</i> , 1999, 45, 269-272.	0.8	103
200	Chloroform dechlorination by a wastewater methanogenic consortium and cell extracts of <i>Methanosarcina barkeri</i> . <i>Water Research</i> , 1997, 31, 1879-1886.	5.3	14
201	Role of interferon- β in immunity to herpes simplex virus. <i>Journal of Leukocyte Biology</i> , 1996, 60, 528-532.	1.5	58
202	The Gut Microbiome: Current Understanding and Future Perspectives. , 0, , 19-40.		2