

# Wenzhu Z Yang

## List of Publications by Year in descending order

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86  
papers

1,547  
citations

361388

20  
h-index

361001

35  
g-index

90  
all docs

90  
docs citations

90  
times ranked

1357  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synergy Between Ruminant Fibrolytic Enzymes and Enzymes from <i>Trichoderma Longibrachiatum</i> . <i>Journal of Dairy Science</i> , 2000, 83, 1310-1321.	3.4	125
2	Characterization of rumen bacterial diversity and fermentation parameters in concentrate fed cattle with and without forage. <i>Journal of Applied Microbiology</i> , 2012, 112, 1152-1162.	3.1	101
3	Effect of a fibrolytic enzyme preparation from <i>Trichoderma longibrachiatum</i> on the rumen microbial population of dairy cows. <i>Canadian Journal of Microbiology</i> , 2002, 48, 14-20.	1.7	99
4	Effects of essential oils on proteolytic, deaminative and methanogenic activities of mixed ruminal bacteria. <i>Canadian Journal of Animal Science</i> , 2008, 88, 117-122.	1.5	93
5	Antibiotic treatment in feedlot cattle: a longitudinal study of the effect of oxytetracycline and tulathromycin on the fecal and nasopharyngeal microbiota. <i>Microbiome</i> , 2019, 7, 86.	11.1	69
6	Repeated inoculation of cattle rumen with bison rumen contents alters the rumen microbiome and improves nitrogen digestibility in cattle. <i>Scientific Reports</i> , 2017, 7, 1276.	3.3	67
7	Resistance of feed enzymes to proteolytic inactivation by rumen microorganisms and gastrointestinal proteases.. <i>Journal of Animal Science</i> , 2001, 79, 1621.	0.5	55
8	Effects of brewersâ€™ spent grain protein hydrolysates on gas production, ruminal fermentation characteristics, microbial protein synthesis and microbial community in an artificial rumen fed a high grain diet. <i>Journal of Animal Science and Biotechnology</i> , 2021, 12, 1.	5.3	54
9	Substitution of wheat dried distillers grains with solubles for barley grain or barley silage in feedlot cattle diets: Intake, digestibility, and ruminal fermentation1. <i>Journal of Animal Science</i> , 2011, 89, 2491-2501.	0.5	50
10	Wheat distillers grains in feedlot cattle diets: Feeding behavior, growth performance, carcass characteristics, and blood metabolites1,2. <i>Journal of Animal Science</i> , 2012, 90, 1301-1310.	0.5	46
11	Comparison of wheat or corn dried distillers grains with solubles on rumen fermentation and nutrient digestibility by feedlot heifers1. <i>Journal of Animal Science</i> , 2012, 90, 1291-1300.	0.5	44
12	Effect of engineered biocarbon on rumen fermentation, microbial protein synthesis, and methane production in an artificial rumen (RUSITEC) fed a high forage diet1. <i>Journal of Animal Science</i> , 2018, 96, 3121-3130.	0.5	39
13	Effects of isobutyrate on rumen fermentation, urinary excretion of purine derivatives and digestibility in steers. <i>Archives of Animal Nutrition</i> , 2008, 62, 377-388.	1.8	37
14	Effect of fibrolytic enzymes on lactational performance, feeding behavior, and digestibility in high-producing dairy cows fed a barley silageâ€‘based diet. <i>Journal of Dairy Science</i> , 2018, 101, 7971-7979.	3.4	34
15	Using ruminally protected and nonprotected active dried yeast as alternatives to antibiotics in finishing beef steers: growth performance, carcass traits, blood metabolites, and fecal <i>Escherichia coli</i> 1. <i>Journal of Animal Science</i> , 2018, 96, 4385-4397.	0.5	31
16	Influence of yeast culture and feed antibiotics on ruminal fermentation and site and extent of digestion in beef heifers fed high grain rations1. <i>Journal of Animal Science</i> , 2018, 96, 3916-3927.	0.5	30
17	Ruminal in vitro gas production, dry matter digestibility, methane abatement potential, and fatty acid biohydrogenation of six species of microalgae. <i>Canadian Journal of Animal Science</i> , 2016, 96, 354-363.	1.5	26
18	New recombinant fibrolytic enzymes for improved in vitro ruminal fiber degradability of barley straw1. <i>Journal of Animal Science</i> , 2018, 96, 3928-3942.	0.5	24

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19	Using a fibrolytic enzyme in barley-based diets containing wheat dried distillers grains with solubles: Ruminant fermentation, digestibility, and growth performance of feedlot steers <sup>1</sup> . <i>Journal of Animal Science</i> , 2014, 92, 3978-3987.	0.5	23
20	Quality and precision processing of barley grain affected intake and digestibility of dry matter in feedlot steers. <i>Canadian Journal of Animal Science</i> , 2013, 93, 251-260.	1.5	22
21	Feeding diets varying in forage proportion and particle length to lactating dairy cows: I. Effects on ruminal pH and fermentation, microbial protein synthesis, digestibility, and milk production. <i>Journal of Dairy Science</i> , 2020, 103, 4340-4354.	3.4	22
22	Synergism of Cattle and Bison Inoculum on Ruminal Fermentation and Select Bacterial Communities in an Artificial Rumen (Rusitec) Fed a Barley Straw Based Diet. <i>Frontiers in Microbiology</i> , 2016, 7, 2032.	3.5	20
23	Ruminally protected and unprotected <i>Saccharomyces cerevisiae</i> fermentation products as alternatives to antibiotics in finishing beef steers <sup>1</sup> . <i>Journal of Animal Science</i> , 2019, 97, 4323-4333.	0.5	20
24	Impact of hard vs. soft wheat and monensin level on rumen acidosis in feedlot heifers <sup>1</sup> . <i>Journal of Animal Science</i> , 2014, 92, 5088-5098.	0.5	19
25	Development of antioxidant peptides from brewers'™ spent grain proteins. <i>LWT - Food Science and Technology</i> , 2022, 158, 113162.	5.2	18
26	Recombinant fibrolytic feed enzymes and ammonia fibre expansion (AFEX) pretreatment of crop residues to improve fibre degradability in cattle. <i>Animal Feed Science and Technology</i> , 2019, 256, 114260.	2.2	17
27	Effect of starch content and processing method on in situ ruminal and in vitro intestinal digestion of barley grain in beef heifers. <i>Animal Feed Science and Technology</i> , 2016, 216, 121-128.	2.2	16
28	Feed nutritional value of brewers'™ spent grain residue resulting from protease aided protein removal. <i>Journal of Animal Science and Biotechnology</i> , 2019, 10, 78.	5.3	16
29	Effects of bulk density, precision processing and processing index on in vitro ruminal fermentation of dry-rolled barley grain. <i>Animal Feed Science and Technology</i> , 2014, 195, 28-37.	2.2	15
30	Effect of wheat dried distillers grains with solubles and fibrolytic enzymes on ruminal fermentation, digestibility, growth performance, and feeding behavior of beef cattle. <i>Journal of Animal Science</i> , 2015, 93, 1218.	0.5	15
31	Effects of volume weight, processing method and processing index of barley grain on in situ digestibility of dry matter and starch in beef heifers. <i>Animal Feed Science and Technology</i> , 2015, 199, 93-103.	2.2	14
32	Including essential oils in lactating dairy cow diets: effects on methane emissions. <i>Animal Production Science</i> , 2014, 54, 1215.	1.3	13
33	Effects of a recombinant fibrolytic enzyme on fiber digestion, ruminal fermentation, nitrogen balance, and total tract digestibility of heifers fed a high forage diet <sup>1</sup> . <i>Journal of Animal Science</i> , 2019, 97, 3578-3587.	0.5	13
34	Effect of exogenous fibrolytic enzymes and ammonia fiber expansion on the fermentation of wheat straw in an artificial rumen system (RUSITEC) <sup>1</sup> . <i>Journal of Animal Science</i> , 2019, 97, 3535-3549.	0.5	13
35	Effects of increasing levels of corn dried distillers grains with solubles and monensin on intake, digestion, and ruminal fermentation in beef heifers fed high-barley grain diets <sup>1</sup> . <i>Journal of Animal Science</i> , 2013, 91, 5390-5398.	0.5	12
36	In vitro ruminal fermentation of ground and dry-rolled barley grain differing in starch content. <i>Animal Feed Science and Technology</i> , 2015, 203, 88-94.	2.2	12

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37	Exploration of serum sensitive biomarkers of fatty liver in dairy cows. <i>Scientific Reports</i> , 2018, 8, 13574.	3.3	12
38	Use of naturally sourced feed additives (lactobacillus fermentation products and enzymes) in growing and finishing steers: Effects on performance, carcass characteristics and blood metabolites. <i>Animal Feed Science and Technology</i> , 2019, 254, 114190.	2.2	12
39	Diets varying in ratio of sweet sorghum silage to corn silage for lactating dairy cows: Feed intake, milk production, blood biochemistry, ruminal fermentation, and ruminal microbial community. <i>Journal of Dairy Science</i> , 2021, 104, 12600-12615.	3.4	12
40	Effects of wheat dried distillers' grains with solubles and cinnamaldehyde on in vitro fermentation and protein degradation using the Rusitec technique. <i>Archives of Animal Nutrition</i> , 2012, 66, 131-148.	1.8	11
41	Short Communication: Variation in response to processing, in vitro gas production and fermentation of western Canadian feed barley. <i>Canadian Journal of Animal Science</i> , 2014, 94, 725-729.	1.5	11
42	Development of NIRS calibrations to estimate fecal composition and nutrient digestibility in beef cattle. <i>Canadian Journal of Animal Science</i> , 0, , .	1.5	11
43	Screening of live yeast and yeast derivatives for their impact of strain and dose on in vitro ruminal fermentation and microbial profiles with varying media pH levels in high forage beef cattle diet. <i>Journal of the Science of Food and Agriculture</i> , 2019, 99, 6751-6760.	3.5	11
44	Fecal bacterial community of finishing beef steers fed ruminally protected and non-protected active dried yeast. <i>Journal of Animal Science</i> , 2020, 98, .	0.5	11
45	Impact of a phytogetic feed additive on growth performance, feed intake, and carcass traits of finishing steers. <i>Translational Animal Science</i> , 2019, 3, 1162-1172.	1.1	9
46	Effect of commercial slow-release urea product on in vitro rumen fermentation and ruminal microbial community using RUSITEC technique. <i>Journal of Animal Science and Biotechnology</i> , 2022, 13, 56.	5.3	9
47	Adjusting roller settings based on kernel size increased ruminal starch digestibility of dry-rolled barley grain in cattle. <i>Canadian Journal of Animal Science</i> , 2010, 90, 275-278.	1.5	8
48	Survival of <i>Escherichia coli</i> O157:H7 in ruminal or fecal contents incubated with corn or wheat dried distillers' grains with solubles. <i>Canadian Journal of Microbiology</i> , 2010, 56, 890-895.	1.7	8
49	Effect of silage source, physically effective neutral detergent fiber, and undigested neutral detergent fiber concentrations on performance and carcass characteristics of finishing steers. <i>Translational Animal Science</i> , 2021, 5, txa236.	1.1	8
50	Effects of grain source and monensin level on growth performance, carcass traits and fatty acid profile in feedlot beef steers. <i>Animal Feed Science and Technology</i> , 2014, 198, 141-150.	2.2	7
51	Effects of particle size of processed barley grain, enzyme addition and microwave treatment on in vitro disappearance and gas production for feedlot cattle. <i>Asian-Australasian Journal of Animal Sciences</i> , 2017, 30, 479-485.	2.4	7
52	Short communication: Ground corn steeped in citric acid modulates in vitro gas production kinetics, fermentation patterns and dry matter digestibility. <i>Animal Feed Science and Technology</i> , 2019, 247, 9-14.	2.2	7
53	Using exogenous enzymes to increase the rumen degradability of wheat dried distillers grains with solubles. <i>Archives of Animal Nutrition</i> , 2013, 67, 381-392.	1.8	6
54	Effect of low-oil corn dried distillers' grains with solubles on growth performance, carcass traits and beef fatty acid profile of feedlot cattle. <i>Canadian Journal of Animal Science</i> , 2014, 94, 343-347.	1.5	6

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55	Effects of barley type and processing method on rumen fermentation, dry matter disappearance and fermentation characteristics in batch cultures. <i>Animal Feed Science and Technology</i> , 2020, 269, 114625.	2.2	6
56	Processing index of barley grain and dietary undigested neutral detergent fiber concentration affected chewing behavior, ruminal pH, and total tract nutrient digestibility of heifers fed a high-grain diet. <i>Journal of Animal Science</i> , 2021, 99, .	0.5	5
57	Precision processing barley grain did not affect productivity of lactating dairy cows. <i>Canadian Journal of Animal Science</i> , 2013, 93, 261-268.	1.5	4
58	Effect of in vitro techniques and exogenous feed enzymes on feed digestion. <i>Animal Feed Science and Technology</i> , 2016, 213, 148-152.	2.2	4
59	Synthesis and characterization of calcium phosphorylated inulin complex as a new source of enriched calcium supplement with prebiotic effect in food. <i>Food Science and Technology</i> , 2019, 39, 237-244.	1.7	4
60	Inoculum source and transfer of rumen contents from bison to cattle improved in vitro gas production and feed digestibility, but not the responses to exogenous enzymes supplementation. <i>Animal Feed Science and Technology</i> , 2019, 248, 37-46.	2.2	4
61	Feeding diets varying in forage proportion and particle length to lactating dairy cows: II. Effects on duodenal flows and intestinal digestibility of amino acids. <i>Journal of Dairy Science</i> , 2020, 103, 4355-4366.	3.4	4
62	In vitro gas production and dry matter digestibility of malting barley grain sown with different seeding and nitrogen fertilization rates in Canada. <i>Animal Feed Science and Technology</i> , 2015, 199, 146-151.	2.2	3
63	Effect of Dried Distillers Grains With Solubles and Red Osier Dogwood Extract on Fermentation Pattern and Microbial Profiles of a High-Grain Diet in an Artificial Rumen System. <i>Frontiers in Veterinary Science</i> , 2021, 8, 644738.	2.2	3
64	Short Communication: The effect of seed hardness and malting characteristics on in situ dry matter digestibility of barley grain in beef heifers. <i>Canadian Journal of Animal Science</i> , 2015, 95, 299-303.	1.5	2
65	Comparison of barley silages with varying digestible fiber content to corn silage on rumen fermentation characteristics and microbial protein synthesis using RUSITEC. <i>Canadian Journal of Animal Science</i> , 2017, , .	1.5	2
66	Evaluation of Barley Silage with Varying Ruminal In Vitro Fiber Digestibility on Lactation Performance and Chewing Activity of Lactating Dairy Cows in Comparison with Corn Silage. <i>Canadian Journal of Animal Science</i> , 0, , .	1.5	2
67	Factors Affecting Rumen Fermentation Using Batch Culture Technique. , 0, , .		2
68	Quality Assessment of Feed Wheat in Ruminant Diets. , 0, , .		2
69	PSIX-12 Screening of peptides for their impact of protease, protease dose and peptide dose on in vitro rumen dry matter digestibility. <i>Journal of Animal Science</i> , 2019, 97, 398-399.	0.5	2
70	Effect of <i>Clostridium butyricum</i> Supplementation on in vitro Rumen Fermentation and Microbiota With High Grain Substrate Varying With Media pH Levels. <i>Frontiers in Microbiology</i> , 0, 13, .	3.5	2
71	PSII-16 Effect of red osier dogwood extract on in vitro digestibility and fermentation characteristics of high-grain diet. <i>Journal of Animal Science</i> , 2020, 98, 403-404.	0.5	1
72	Effect of Garlic Oil on Fatty Acid Accumulation and Glycerol-3-Phosphate Dehydrogenase Activity in Differentiating Adipocytes. <i>Asian-Australasian Journal of Animal Sciences</i> , 2009, 22, 1686-1692.	2.4	1

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73	PSX-B-10 Effect of undigested neutral detergent fiber concentration and forage inclusion rate on ruminal pH, reticular motility, and total tract permeability for finishing beef heifers. <i>Journal of Animal Science</i> , 2021, 99, 457-458.	0.5	1
74	PSXIV-11 Silage source, physically effective neutral detergent fiber, and undigested neutral detergent fiber concentrations affect eating behavior, ruminal pH and reticular motility of finishing heifers. <i>Journal of Animal Science</i> , 2021, 99, 476-477.	0.5	1
75	PSIX-11 Impact of a phytogenic feed additive on growth performance, feed intake and carcass traits of finishing steers. <i>Journal of Animal Science</i> , 2019, 97, 398-398.	0.5	0
76	412 Supplementation of high-grain diet with brewersâ€™ spent grain protein hydrolysates reduced protein degradability and methane production in Rusitec. <i>Journal of Animal Science</i> , 2019, 97, 169-169.	0.5	0
77	403 Using ruminally protected and unprotected <i>Saccharomyces cerevisiae</i> fermentation products as alternatives to antibiotics in finishing beef steers: growth performance and antimicrobial resistance. <i>Journal of Animal Science</i> , 2019, 97, 162-163.	0.5	0
78	Cloning, phylogenetic analysis, and postnatal expression of oligopeptide transporter PepT1 in gastrointestinal tract of kid goats receiving supplemental feed or pasture. <i>Canadian Journal of Animal Science</i> , 2020, 100, 605-614.	1.5	0
79	Effect of non-encapsulated and encapsulated active dried yeast on blood cell count, blood metabolites, and immune response of finishing beef heifers. <i>Canadian Journal of Animal Science</i> , 2021, 101, 390-394.	1.5	0
80	PSX-B-8 Effect of supplementing red osier dogwood extract on in vitro gas production, feed digestibility and fermentation characteristics of high-forage diet. <i>Journal of Animal Science</i> , 2021, 99, 458-458.	0.5	0
81	PSX-B-6 Effect of slow-release urea on gas production, fermentation characteristics, nutrient digestibility and microbial protein synthesis in an artificial rumen system. <i>Journal of Animal Science</i> , 2021, 99, 454-455.	0.5	0
82	PSXIV-14 Supplementation of high-grain diet with red osier dogwood affects in vitro digestibility and fermentation characteristics. <i>Journal of Animal Science</i> , 2021, 99, 477-477.	0.5	0
83	307 Effect of Feeding Distillers Grain from Wheat on Growth Performance of Growing and Finishing Beef Cattle. <i>Journal of Animal Science</i> , 2021, 99, 170-171.	0.5	0
84	PSXII-7 Supplementing beef cattle finishing diets with ruminal protected live yeast affected fatty acid profiles in meat. <i>Journal of Animal Science</i> , 2020, 98, 443-444.	0.5	0
85	200 Effects of grain processing and undegradable fiber on rumen pH and fermentation of cattle fed high grain diets. <i>Journal of Animal Science</i> , 2020, 98, 159-160.	0.5	0
86	PSV-12 Impact of grain processing and undegradable fiber on chewing behavior and feed sorting of finishing beef cattle. <i>Journal of Animal Science</i> , 2020, 98, 219-219.	0.5	0