

Zhixiong He

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

480
citations

687220

13
h-index

794469

19
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47
all docs

47
docs citations

47
times ranked

516
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.6	67
2	<i>In vitro</i> evaluation on neutral detergent fiber and cellulose digestion by post-ruminal microorganisms in goats. <i>Journal of the Science of Food and Agriculture</i> , 2014, 94, 1745-1752.	1.7	32
3	Influence of Oleic Acid on Rumen Fermentation and Fatty Acid Formation <i>In Vitro</i> . <i>PLoS ONE</i> , 2016, 11, e0156835.	1.1	29
4	Supplementation of <i>Lactobacillus plantarum</i> or <i>Macleaya cordata</i> Extract Alleviates Oxidative Damage Induced by Weaning in the Lower Gut of Young Goats. <i>Animals</i> , 2020, 10, 548.	1.0	28
5	Comparison of two live <i>Bacillus</i> species as feed additives for improving <i>in vitro</i> fermentation of cereal straws. <i>Animal Science Journal</i> , 2016, 87, 27-36.	0.6	22
6	Effects of Early Malnutrition on Mental System, Metabolic Syndrome, Immunity and the Gastrointestinal Tract. <i>Journal of Veterinary Medical Science</i> , 2009, 71, 1143-1150.	0.3	18
7	Ammonia and amino acids modulates enzymes associated with ammonia assimilation pathway by ruminal microbiota <i>in vitro</i> . <i>Livestock Science</i> , 2015, 178, 130-139.	0.6	18
8	Evaluation of Different Yeast Species for Improving <i>In vitro</i> Fermentation of Cereal Straws. <i>Asian-Australasian Journal of Animal Sciences</i> , 2016, 29, 230-240.	2.4	17
9	Changes of Intestinal Oxidative Stress, Inflammation, and Gene Expression in Neonatal Diarrhoea Kids. <i>Frontiers in Veterinary Science</i> , 2021, 8, 598691.	0.9	17
10	Effect of starch content and processing method on <i>in situ</i> ruminal and <i>in vitro</i> intestinal digestion of barley grain in beef heifers. <i>Animal Feed Science and Technology</i> , 2016, 216, 121-128.	1.1	16
11	Effects of <i>Momordica charantia</i> Saponins on <i>In vitro</i> Ruminal Fermentation and Microbial Population. <i>Asian-Australasian Journal of Animal Sciences</i> , 2016, 29, 500-508.	2.4	15
12	A mathematical model to describe the diurnal pattern of enteric methane emissions from non-lactating dairy cows post-feeding. <i>Animal Nutrition</i> , 2015, 1, 329-338.	2.1	14
13	Cloning, Phylogenetic Analysis, and Distribution of Free Fatty Acid Receptor GPR120 Expression along the Gastrointestinal Tract of Housing versus Grazing Kid Goats. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 2333-2341.	2.4	14
14	Low-protein diets supplemented with methionine and lysine alter the gut microbiota composition and improve the immune status of growing lambs. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 8393-8410.	1.7	14
15	Postnatal developmental changes of the small intestinal villus height, crypt depth and hexose transporter mRNA expression in supplemental feeding and grazing goats. <i>Small Ruminant Research</i> , 2016, 141, 106-112.	0.6	13
16	Effects of dietary cellulase and xylanase addition on digestion, rumen fermentation and methane emission in growing goats. <i>Archives of Animal Nutrition</i> , 2015, 69, 251-266.	0.9	12
17	Effects of dietary <i>Macleaya cordata</i> extract inclusion on transcriptomes and inflammatory response in the lower gut of early weaned goats. <i>Animal Feed Science and Technology</i> , 2021, 272, 114792.	1.1	11
18	Gastrointestinal Spatiotemporal mRNA Expression of Ghrelin vs Growth Hormone Receptor and New Growth Yield Machine Learning Model Based on Perturbation Theory. <i>Scientific Reports</i> , 2016, 6, 30174.	1.6	9

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19	Genome wide transcriptome analysis provides bases on colonic mucosal immune system development affected by colostrum feeding strategies in neonatal calves. <i>BMC Genomics</i> , 2018, 19, 635.	1.2	7
20	Effects of Maternal Undernutrition during Mid-Gestation on the Yield, Quality and Composition of Kid Meat Under an Extensive Management System. <i>Animals</i> , 2019, 9, 173.	1.0	7
21	Dietary Amylose/Amylopectin Ratio Modulates Cecal Microbiota and Metabolites in Weaned Goats. <i>Frontiers in Nutrition</i> , 2021, 8, 774766.	1.6	7
22	Supplementing Mannan Oligosaccharide Reduces the Passive Transfer of Immunoglobulin G and Improves Antioxidative Capacity, Immunity, and Intestinal Microbiota in Neonatal Goats. <i>Frontiers in Microbiology</i> , 2021, 12, 795081.	1.5	7
23	Effects of alkyl polyglycoside, a nonionic surfactant, and forage-to-concentrate ratio on rumen fermentation, amino acid composition of rumen content, bacteria and plasma in goats. <i>Archives of Animal Nutrition</i> , 2011, 65, 229-241.	0.9	6
24	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.	0.9	6
25	Inferring the Skeletal Muscle Developmental Changes of Grazing and Barn-Fed Goats from Gene Expression Data. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 6791-6800.	2.4	6
26	Expression of genes related to sweet taste receptors and monosaccharides transporters along the gastrointestinal tracts at different development stages in goats. <i>Livestock Science</i> , 2016, 188, 111-119.	0.6	6
27	Unchanged interleukin 6 level of protein and energy restricted goats during late gestation: the role of elevated blood nitric oxide. <i>Journal of Endocrinology</i> , 2012, 213, 59-65.	1.2	5
28	Replacing corn grain with corn gluten feed: Effects on the rumen microbial protein synthesis, functional bacterial groups and epithelial amino acid chemosensing in growing goats. <i>Animal Feed Science and Technology</i> , 2020, 270, 114684.	1.1	5
29	Transcriptome analysis reveals liver metabolism programming in kids from nutritional restricted goats during mid-gestation. <i>PeerJ</i> , 2021, 9, e10593.	0.9	5
30	Growth of Pancreas and Intestinal Enzyme Activities in Growing Goats: Influence of a Low-Protein Diet. <i>Agriculture (Switzerland)</i> , 2021, 11, 1155.	1.4	5
31	Lipid metabolism and m6A RNA methylation are altered in lambs supplemented rumen-protected methionine and lysine in a low-protein diet. <i>Journal of Animal Science and Biotechnology</i> , 2022, 13, .	2.1	5
32	Supplementation of increasing amounts of linoleic acid to <i>Leymus chinensis</i> decreases methane production and improves fatty acid composition in vitro. <i>European Journal of Lipid Science and Technology</i> , 2015, 117, 945-953.	1.0	4
33	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.	0.8	4
34	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.	1.1	4
35	Effects of maternal intake restriction during early pregnancy on fetal growth and bone metabolism in goats. <i>Small Ruminant Research</i> , 2020, 183, 106027.	0.6	4
36	Maternal intake restriction programs the energy metabolism, clock circadian regulator and mTOR signals in the skeletal muscles of goat offspring probably via the protein kinase A-cAMP-responsive element-binding proteins pathway. <i>Animal Nutrition</i> , 2021, 7, 1303-1314.	2.1	4

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37	Maternal undernutrition alters the skeletal muscle development and methylation of myogenic factors in goat offspring. <i>Animal Bioscience</i> , 2022, 35, 847-857.	0.8	4
38	Comparisons of Corn Stover Silages after Fresh- or Ripe-Corn Harvested: Effects on Digestibility and Rumen Fermentation in Growing Beef Cattle. <i>Animals</i> , 2022, 12, 1248.	1.0	3
39	Rumen-protected glucose supplementation in transition dairy cows shifts fermentation patterns and enhances mucosal immunity. <i>Animal Nutrition</i> , 2021, 7, 1182-1188.	2.1	2
40	Calcium Homeostasis and Bone Metabolism in Goats Fed a Low Protein Diet. <i>Frontiers in Veterinary Science</i> , 2021, 8, 829872.	0.9	2
41	Effects of ruminally degradable dietary protein level on nitrogen metabolism in wethers. <i>Small Ruminant Research</i> , 2012, 108, 59-66.	0.6	1
42	Carbon-13 stable isotope analysis reveals the existence but insignificance of ruminal methanogenic pathway from acetate in a batch culture system. <i>Animal Feed Science and Technology</i> , 2018, 246, 46-51.	1.1	1
43	Identification of coenzyme-binding proteins with machine learning algorithms. <i>Computational Biology and Chemistry</i> , 2019, 79, 185-192.	1.1	1
44	Transcriptome analysis revealed that delaying first colostrum feeding postponed ileum immune system development of neonatal calves. <i>Genomics</i> , 2021, 113, 4116-4125.	1.3	1
45	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.	0.7	0
46	Effects of substituting soybean meal with corn on immune function and gene expression of gut TLR4 pathway of growing goats. <i>PeerJ</i> , 2022, 10, e12910.	0.9	0