Xiangfang Zeng

List of Publications by Year
in descending order

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		136885	143943
71	3,466	32	57
papers	citations	h-index	g-index

72	72	72	4295
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Novel metabolic and physiological functions of branched chain amino acids: a review. Journal of Animal Science and Biotechnology, 2017, 8, 10.	2.1	380
2	Antimicrobial Peptides as Potential Alternatives to Antibiotics in Food Animal Industry. International Journal of Molecular Sciences, 2016, 17, 603.	1.8	259
3	Bridging intestinal immunity and gut microbiota by metabolites. Cellular and Molecular Life Sciences, 2019, 76, 3917-3937.	2.4	176
4	Lactobacillus reuteri I5007 modulates tight junction protein expression in IPEC-J2 cells with LPS stimulation and in newborn piglets under normal conditions. BMC Microbiology, 2015, 15, 32.	1.3	148
5	Study and use of the probiotic Lactobacillus reuteri in pigs: a review. Journal of Animal Science and Biotechnology, 2015, 6, 14.	2.1	147
6	Advances in low-protein diets for swine. Journal of Animal Science and Biotechnology, 2018, 9, 60.	2.1	147
7	Dietary Arginine Supplementation during Early Pregnancy Enhances Embryonic Survival in Rats. Journal of Nutrition, 2008, 138, 1421-1425.	1.3	115
8	Supplementation with branched-chain amino acids to a low-protein diet regulates intestinal expression of amino acid and peptide transporters in weanling pigs. Amino Acids, 2013, 45, 1191-1205.	1.2	114
9	The Use of Lactic Acid Bacteria as a Probiotic in Swine Diets. Pathogens, 2015, 4, 34-45.	1.2	111
10	Arginine enhances embryo implantation in rats through PI3K/PKB/mTOR/NO signaling pathway during early pregnancy. Reproduction, 2013, 145, 1-7.	1.1	108
11	Induction of Porcine Host Defense Peptide Gene Expression by Short-Chain Fatty Acids and Their Analogs. PLoS ONE, 2013, 8, e72922.	1.1	106
12	Lactobacillus reuteri I5007 Modulates Intestinal Host Defense Peptide Expression in the Model of IPEC-J2 Cells and Neonatal Piglets. Nutrients, 2017, 9, 559.	1.7	81
13	Microbial and metabolic alterations in gut microbiota of sows during pregnancy and lactation. FASEB Journal, 2019, 33, 4490-4501.	0.2	68
14	Optimal Dietary True Ileal Digestible Threonine for Supporting the Mucosal Barrier in Small Intestine of Weanling Pigs. Journal of Nutrition, 2010, 140, 981-986.	1.3	66
15	Protective Ability of Biogenic Antimicrobial Peptide Microcin J25 Against Enterotoxigenic Escherichia Coli-Induced Intestinal Epithelial Dysfunction and Inflammatory Responses IPEC-J2 Cells. Frontiers in Cellular and Infection Microbiology, 2018, 8, 242.	1.8	66
16	Use of the Antimicrobial Peptide Sublancin with Combined Antibacterial and Immunomodulatory Activities To Protect against Methicillin-Resistant Staphylococcus aureus Infection in Mice. Journal of Agricultural and Food Chemistry, 2017, 65, 8595-8605.	2.4	59
17	Functions of Macrophages in the Maintenance of Intestinal Homeostasis. Journal of Immunology Research, 2019, 2019, 1-8.	0.9	59
18	N-Carbamylglutamate Enhances Pregnancy Outcome in Rats through Activation of the PI3K/PKB/mTOR Signaling Pathway. PLoS ONE, 2012, 7, e41192.	1.1	58

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19	Core Altered Microorganisms in Colitis Mouse Model: A Comprehensive Time-Point and Fecal Microbiota Transplantation Analysis. Antibiotics, 2021, 10, 643.	1.5	54
20	Effect of Antimicrobial Peptide Microcin J25 on Growth Performance, Immune Regulation, and Intestinal Microbiota in Broiler Chickens Challenged with Escherichia coli and Salmonella. Animals, 2020, 10, 345.	1.0	53
21	Maternal milk and fecal microbes guide the spatiotemporal development of mucosa-associated microbiota and barrier function in the porcine neonatal gut. BMC Biology, 2019, 17, 106.	1.7	51
22	Lactobacillus reuteri Ameliorates Intestinal Inflammation and Modulates Gut Microbiota and Metabolic Disorders in Dextran Sulfate Sodium-Induced Colitis in Mice. Nutrients, 2020, 12, 2298.	1.7	50
23	Different Lipopolysaccharide Branched-Chain Amino Acids Modulate Porcine Intestinal Endogenous Î²-Defensin Expression through the Sirt1/ERK/90RSK Pathway. Journal of Agricultural and Food Chemistry, 2016, 64, 3371-3379.	2.4	49
24	Leucine stimulates ASCT2 amino acid transporter expression in porcine jejunal epithelial cell line (IPEC-J2) through PI3K/Akt/mTOR and ERK signaling pathways. Amino Acids, 2014, 46, 2633-2642.	1.2	47
25	Therapeutic administration of the recombinant antimicrobial peptide microcin J25 effectively enhances host defenses against gut inflammation and epithelial barrier injury induced by enterotoxigenic Escherichia coli infection. FASEB Journal, 2020, 34, 1018-1037.	0.2	45
26	Effects of dietary leucine supplementation in low crude protein diets on performance, nitrogen balance, wholeâ€body protein turnover, carcass characteristics and meat quality of finishing pigs. Animal Science Journal, 2016, 87, 911-920.	0.6	43
27	Effect of high fibre diets formulated with different fibrous ingredients on performance, nutrient digestibility and faecal microbiota of weaned piglets. Archives of Animal Nutrition, 2016, 70, 263-277.	0.9	42
28	Effects of isoleucine on glucose uptake through the enhancement of muscular membrane concentrations of GLUT1 and GLUT4 and intestinal membrane concentrations of Na⁺/glucose co-transporter 1 (SGLT-1) and GLUT2. British Journal of Nutrition, 2016, 116, 593-602.	1.2	41
29	A novel nanohybrid antimicrobial based on chitosan nanoparticles and antimicrobial peptide microcin J25 with low toxicity. Carbohydrate Polymers, 2021, 253, 117309.	5.1	38
30	Intestinal Microbiota Succession and Immunomodulatory Consequences after Introduction of Lactobacillus reuteri I5007 in Neonatal Piglets. PLoS ONE, 2015, 10, e0119505.	1.1	38
31	Prevention of Cyclophosphamide-Induced Immunosuppression in Mice with the Antimicrobial Peptide Sublancin. Journal of Immunology Research, 2018, 2018, 1-11.	0.9	34
32	Metabolic disorder of amino acids, fatty acids and purines reflects the decreases in oocyte quality and potential in sows. Journal of Proteomics, 2019, 200, 134-143.	1.2	34
33	A Comprehensive Antimicrobial Activity Evaluation of the Recombinant Microcin J25 Against the Foodborne Pathogens Salmonella and E. coli O157:H7 by Using a Matrix of Conditions. Frontiers in Microbiology, 2019, 10, 1954.	1.5	32
34	Advances in research on solid-state fermented feed and its utilization: The pioneer of private customization for intestinal microorganisms. Animal Nutrition, 2021, 7, 905-916.	2.1	32
35	Risks Related to High-Dosage Recombinant Antimicrobial Peptide Microcin J25 in Mice Model: Intestinal Microbiota, Intestinal Barrier Function, and Immune Regulation. Journal of Agricultural and Food Chemistry, 2018, 66, 11301-11310.	2.4	31
36	Recombinant antimicrobial peptide microcin J25 alleviates DSS-induced colitis via regulating intestinal barrier function and modifying gut microbiota. Biomedicine and Pharmacotherapy, 2021, 139, 111127.	2.5	28

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37	Leptin and leucine synergistically regulate protein metabolism in C2C12 myotubes and mouse skeletal muscles. British Journal of Nutrition, 2013, 110, 256-264.	1.2	25
38	Complete genome sequence of Lactobacillus reuteri I5007, a probiotic strain isolated from healthy piglet. Journal of Biotechnology, 2014, 179, 63-64.	1.9	25
39	Maternal short and medium chain fatty acids supply during early pregnancy improves embryo survival through enhancing progesterone synthesis in rats. Journal of Nutritional Biochemistry, 2019, 69, 98-107.	1.9	25
40	Dietary N-Carbamylglutamate Supplementation Boosts Intestinal Mucosal Immunity in Escherichia coli Challenged Piglets. PLoS ONE, 2013, 8, e66280.	1.1	24
41	Maternal N-Carbamylglutamate Supply during Early Pregnancy Enhanced Pregnancy Outcomes in Sows through Modulations of Targeted Genes and Metabolism Pathways. Journal of Agricultural and Food Chemistry, 2018, 66, 5845-5852.	2.4	23
42	Effect of antibiotic-free, low-protein diets with specific amino acid compositions on growth and intestinal flora in weaned pigs. Food and Function, 2020, 11, 493-507.	2.1	22
43	Mechanisms of lipid metabolism in uterine receptivity and embryo development. Trends in Endocrinology and Metabolism, 2021, 32, 1015-1030.	3.1	22
44	Maternal N-Carbamylglutamate Supplementation during Early Pregnancy Enhances Embryonic Survival and Development through Modulation of the Endometrial Proteome in Gilts. Journal of Nutrition, 2015, 145, 2212-2220.	1.3	20
45	Dietary N-Carbamylglutamate Supplementation in a Reduced Protein Diet Affects Carcass Traits and the Profile of Muscle Amino Acids and Fatty Acids in Finishing Pigs. Journal of Agricultural and Food Chemistry, 2017, 65, 5751-5758.	2.4	20
46	Enhancement of Macrophage Function by the Antimicrobial Peptide Sublancin Protects Mice from Methicillin-ResistantStaphylococcus aureus. Journal of Immunology Research, 2019, 2019, 1-13.	0.9	20
47	One Carbon Metabolism and Mammalian Pregnancy Outcomes. Molecular Nutrition and Food Research, 2021, 65, e2000734.	1.5	20
48	Valine Supplementation in a Reduced Protein Diet Regulates Growth Performance Partially through Modulation of Plasma Amino Acids Profile, Metabolic Responses, Endocrine, and Neural Factors in Piglets. Journal of Agricultural and Food Chemistry, 2018, 66, 3161-3168.	2.4	19
49	Dietary guanidinoacetic acid supplementation improved carcass characteristics, meat quality and muscle fibre traits in growingâ€“finishing gilts. Journal of Animal Physiology and Animal Nutrition, 2020, 104, 1454-1461.	1.0	19
50	Amino acids modulates the intestinal proteome associated with immune and stress response in weaning pig. Molecular Biology Reports, 2014, 41, 3611-3620.	1.0	18
51	Biosynthetic Microcin J25 Exerts Strong Antibacterial, Anti-Inflammatory Activities, Low Cytotoxicity Without Increasing Drug-Resistance to Bacteria Target. Frontiers in Immunology, 2022, 13, 811378.	2.2	17
52	Nutritional Status Impacts Epigenetic Regulation in Early Embryo Development: A Scoping Review. Advances in Nutrition, 2021, 12, 1877-1892.	2.9	16
53	Butyrate drives the acetylation of histone H3K9 to activate steroidogenesis through PPARÎ³ and PGC1Î± pathways in ovarian granulosa cells. FASEB Journal, 2021, 35, e21316.	0.2	15
54	Oral administration of N-carbamylglutamate might improve growth performance and intestinal function of suckling piglets. Livestock Science, 2015, 181, 242-248.	0.6	13

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55	Leucine Supplementation in a Chronically Protein-Restricted Diet Enhances Muscle Weight and Postprandial Protein Synthesis of Skeletal Muscle by Promoting the mTOR Pathway in Adult Rats. Engineering, 2017, 3, 760-765.	3.2	13
56	CBS and MAT2A improve methionineâ€mediated DNA synthesis through SAMTOR/mTORC1/S6K1/CAD pathway during embryo implantation. Cell Proliferation, 2021, 54, e12950.	2.4	13
57	Isoleucine attenuates infection induced byE. colichallenge through the modulation of intestinal endogenous antimicrobial peptide expression and the inhibition of the increase in plasma endotoxin and IL-6 in weaned pigs. Food and Function, 2019, 10, 3535-3542.	2.1	12
58	Effects of dietary crude protein level and N-carbamylglutamate supplementation on nutrient digestibility and digestive enzyme activity of jejunum in growing pigs. Journal of Animal Science, 2020, 98, .	0.2	9
59	Effects of Antimicrobial Peptide Microcin C7 on Growth Performance, Immune and Intestinal Barrier Functions, and Cecal Microbiota of Broilers. Frontiers in Veterinary Science, 2021, 8, 813629.	0.9	9
60	Effects of L-lysineÂ·H2SO4 product on the intestinal morphology and liver pathology using broiler model. Journal of Animal Science and Biotechnology, 2019, 10, 10.	2.1	8
61	Effect of maternal dietary starch-to-fat ratio and daily energy intake during late pregnancy on the performance and lipid metabolism of primiparous sows and newborn piglets. Journal of Animal Science, 2022, 100, .	0.2	5
62	Different dietary starch patterns in low-protein diets: effect on nitrogen efficiency, nutrient metabolism, and intestinal flora in growing pigs. Journal of Animal Science and Biotechnology, 2022, 13, .	2.1	4
63	Uterine Insulin Sensitivity Defects Induced Embryo Implantation Loss Associated with Mitochondrial Dysfunction-Triggered Oxidative Stress. Oxidative Medicine and Cellular Longevity, 2021, 2021, 1-18.	1.9	3
64	Exploration of the Potential for Efficient Fiber Degradation by Intestinal Microorganisms in Diqing Tibetan Pigs. Fermentation, 2021, 7, 275.	1.4	3
65	Effect of using cassava as an amylopectin source in low protein diets on growth performance, nitrogen efficiency and postprandial changes in plasma glucose and related hormones concentrations of growing pigs. Journal of Animal Science, 2021, , .	0.2	3
66	CRISPR/Cas9 mediated T7 RNA polymerase gene knock-in in E. coli BW25113 makes T7 expression system work efficiently. Journal of Biological Engineering, 2021, 15, 22.	2.0	2
67	A Novel miRNA Y-56 Targeting IGF-1R Mediates the Proliferation of Porcine Skeletal Muscle Satellite Cells Through AKT and ERK Pathways. Frontiers in Veterinary Science, 2022, 9, 754435.	0.9	2
68	Microbiota Transplantation in an Antibiotic-Induced Bacterial Depletion Mouse Model: Reproducible Establishment, Analysis, and Application. Microorganisms, 2022, 10, 902.	1.6	2
69	Compromised Hindgut Microbial Digestion, Rather Than Chemical Digestion in the Foregut, Leads to Decreased Nutrient Digestibility in Pigs Fed Low-Protein Diets. Nutrients, 2022, 14, 2793.	1.7	2
70	Estimation of the optimum standardized ileal digestible total sulfur amino acid to lysine ratio in late finishing gilts fed low protein diets supplemented with crystalline amino acids. Animal Science Journal, 2016, 87, 76-83.	0.6	1
71	Pea starch increases the dry matter flow at the distal ileum and reduces the amino acids digestibility in ileal digesta collected after 4 hours postprandial of pigs fed low-protein diets. Animal Bioscience, 2022, , .	0.8	0