

Kang Yao

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

88

papers

2,082

citations

23

h-index

43

g-index

93

ext. papers

2,828

ext. citations

4.7

avg, IF

5.08

L-index

#	Paper	IF	Citations
88	Supplementing L-leucine to a low-protein diet increases tissue protein synthesis in weanling pigs. <i>Amino Acids</i> , 2010 , 39, 1477-86	3.5	147
87	Inflammatory Links Between High Fat Diets and Diseases. <i>Frontiers in Immunology</i> , 2018 , 9, 2649	8.4	142
86	Antioxidant mechanism of tea polyphenols and its impact on health benefits. <i>Animal Nutrition</i> , 2020 , 6, 115-123	4.8	139
85	Myokines and adipokines: Involvement in the crosstalk between skeletal muscle and adipose tissue. <i>Cytokine and Growth Factor Reviews</i> , 2017 , 33, 73-82	17.9	139
84	Dietary L-arginine supplementation differentially regulates expression of lipid-metabolic genes in porcine adipose tissue and skeletal muscle. <i>Journal of Nutritional Biochemistry</i> , 2011 , 22, 441-5	6.3	134
83	The role of leucine and its metabolites in protein and energy metabolism. <i>Amino Acids</i> , 2016 , 48, 41-51	3.5	124
82	Impaired translation initiation activation and reduced protein synthesis in weaned piglets fed a low-protein diet. <i>Journal of Nutritional Biochemistry</i> , 2009 , 20, 544-52	6.3	90
81	Effects of dietary n-6:n-3 PUFA ratio on fatty acid composition, free amino acid profile and gene expression of transporters in finishing pigs. <i>British Journal of Nutrition</i> , 2015 , 113, 739-48	3.6	87
80	n-6:n-3 PUFA ratio is involved in regulating lipid metabolism and inflammation in pigs. <i>British Journal of Nutrition</i> , 2014 , 111, 445-51	3.6	71
79	Effects of β-ketoglutarate on energy status in the intestinal mucosa of weaned piglets chronically challenged with lipopolysaccharide. <i>British Journal of Nutrition</i> , 2011 , 106, 357-63	3.6	65
78	Leucine in Obesity: Therapeutic Prospects. <i>Trends in Pharmacological Sciences</i> , 2016 , 37, 714-727	13.2	48
77	Taurine is Involved in Energy Metabolism in Muscles, Adipose Tissue, and the Liver. <i>Molecular Nutrition and Food Research</i> , 2019 , 63, e1800536	5.9	48
76	Nutritional and regulatory roles of leucine in muscle growth and fat reduction. <i>Frontiers in Bioscience - Landmark</i> , 2015 , 20, 796-813	2.8	41
75	Oxidative stress, nutritional antioxidants and beyond. <i>Science China Life Sciences</i> , 2020 , 63, 866-874	8.5	40
74	Effects of supplementation with branched-chain amino acids to low-protein diets on expression of genes related to lipid metabolism in skeletal muscle of growing pigs. <i>Amino Acids</i> , 2016 , 48, 2131-44	3.5	37
73	β-Hydroxy-β-methylbutyrate, mitochondrial biogenesis, and skeletal muscle health. <i>Amino Acids</i> , 2016 , 48, 653-664	3.5	34
72	Dietary xylo-oligosaccharide improves intestinal functions in weaned piglets. <i>Food and Function</i> , 2019 , 10, 2701-2709	6.1	33

71	Gut microbiota mediates the protective effects of dietary β-hydroxy-β-methylbutyrate (HMB) against obesity induced by high-fat diets. <i>FASEB Journal</i> , 2019 , 33, 10019-10033	0.9	32
70	Key mediators of intracellular amino acids signaling to mTORC1 activation. <i>Amino Acids</i> , 2015 , 47, 857-67,5	3.5	31
69	Metabolic control of myofibers: promising therapeutic target for obesity and type 2 diabetes. <i>Obesity Reviews</i> , 2017 , 18, 647-659	10.6	29
68	Free Amino Acid Profile and Expression of Genes Implicated in Protein Metabolism in Skeletal Muscle of Growing Pigs Fed Low-Protein Diets Supplemented with Branched-Chain Amino Acids. <i>Journal of Agricultural and Food Chemistry</i> , 2016 , 64, 9390-9400	5.7	29
67	Effect of branched-chain amino acid ratio on the proliferation, differentiation, and expression levels of key regulators involved in protein metabolism of myocytes. <i>Nutrition</i> , 2017 , 36, 8-16	4.8	28
66	Oral administration of interferon tau enhances oxidation of energy substrates and reduces adiposity in Zucker diabetic fatty rats. <i>BioFactors</i> , 2013 , 39, 552-63	6.1	24
65	Effects of dietary protein restriction on muscle fiber characteristics and mTORC1 pathway in the skeletal muscle of growing-finishing pigs. <i>Journal of Animal Science and Biotechnology</i> , 2016 , 7, 47	6	22
64	Myokine interleukin-15 expression profile is different in suckling and weaning piglets. <i>Animal Nutrition</i> , 2015 , 1, 30-35	4.8	21
63	Effects of Low-Protein Diets Supplemented with Branched-Chain Amino Acid on Lipid Metabolism in White Adipose Tissue of Piglets. <i>Journal of Agricultural and Food Chemistry</i> , 2017 , 65, 2839-2848	5.7	19
62	Reduced dietary protein level influences the free amino acid and gene expression profiles of selected amino acid transporters in skeletal muscle of growing pigs. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2017 , 101, 96-104	2.6	18
61	Alteration of muscle fiber characteristics and the AMPK-SIRT1-PGC-1α axis in skeletal muscle of growing pigs fed low-protein diets with varying branched-chain amino acid ratios. <i>Oncotarget</i> , 2017 , 8, 107011-107021	3.3	18
60	Propionate alleviates high-fat diet-induced lipid dysmetabolism by modulating gut microbiota in mice. <i>Journal of Applied Microbiology</i> , 2019 , 127, 1546-1555	4.7	18
59	Protein-Restricted Diet Regulates Lipid and Energy Metabolism in Skeletal Muscle of Growing Pigs. <i>Journal of Agricultural and Food Chemistry</i> , 2016 , 64, 9412-9420	5.7	17
58	Alpha-ketoglutarate enhances milk protein synthesis by porcine mammary epithelial cells. <i>Amino Acids</i> , 2016 , 48, 2179-88	3.5	17
57	Low-protein diet improves meat quality of growing and finishing pigs through changing lipid metabolism, fiber characteristics, and free amino acid profile of the muscle. <i>Journal of Animal Science</i> , 2018 , 96, 3221-3232	0.7	17
56	Supplementation of branched-chain amino acids in protein-restricted diets modulates the expression levels of amino acid transporters and energy metabolism associated regulators in the adipose tissue of growing pigs. <i>Animal Nutrition</i> , 2016 , 2, 24-32	4.8	16
55	Leucine Supplementation: A Novel Strategy for Modulating Lipid Metabolism and Energy Homeostasis. <i>Nutrients</i> , 2020 , 12,	6.7	15
54	Mitochondrial pathway is involved in the protective effects of alpha-ketoglutarate on hydrogen peroxide induced damage to intestinal cells. <i>Oncotarget</i> , 2017 , 8, 74820-74835	3.3	15

53	Optimal branched-chain amino acid ratio improves cell proliferation and protein metabolism of porcine enterocytes in vivo and in vitro. <i>Nutrition</i> , 2018 , 54, 173-181	4.8	15
52	Dietary Supplementation With Leucine or in Combination With Arginine Decreases Body Fat Weight and Alters Gut Microbiota Composition in Finishing Pigs. <i>Frontiers in Microbiology</i> , 2019 , 10, 1767	5.7	14
51	β-Hydroxy-β-methyl Butyrate Is More Potent Than Leucine in Inhibiting Starvation-Induced Protein Degradation in C2C12 Myotubes. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 170-176	5.7	14
50	Branched-chain amino acid ratios modulate lipid metabolism in adipose tissues of growing pigs. <i>Journal of Functional Foods</i> , 2018 , 40, 614-624	5.1	13
49	β-Hydroxy-β-methyl butyrate promotes leucine metabolism and improves muscle fibre composition in growing pigs. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2018 , 102, 1328-1339	2.6	13
48	β-Hydroxy-β-methylbutyrate (HMB) improves mitochondrial function in myocytes through pathways involving PPAR α and CDK4. <i>Nutrition</i> , 2019 , 60, 217-226	4.8	12
47	Flavonoids from Mulberry Leaves Alleviate Lipid Dysmetabolism in High Fat Diet-Fed Mice: Involvement of Gut Microbiota. <i>Microorganisms</i> , 2020 , 8,	4.9	11
46	Gut microbiota and blood metabolomics in weaning multiparous sows: Associations with oestrous. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2020 , 104, 1155-1168	2.6	11
45	β-Hydroxy-β-methylbutyrate modulates lipid metabolism in adipose tissues of growing pigs. <i>Food and Function</i> , 2018 , 9, 4836-4846	6.1	11
44	Key factors involved in obesity development. <i>Eating and Weight Disorders</i> , 2018 , 23, 267-274	3.6	9
43	Beta-hydroxy beta-methyl butyrate decreases muscle protein degradation via increased Akt/FoxO3a signaling and mitochondrial biogenesis in weanling piglets after lipopolysaccharide challenge. <i>Food and Function</i> , 2019 , 10, 5152-5165	6.1	9
42	The Protein and Energy Metabolic Response of Skeletal Muscle to the Low-Protein Diets in Growing Pigs. <i>Journal of Agricultural and Food Chemistry</i> , 2017 , 65, 8544-8551	5.7	9
41	Dietary supplementation with the extract from <i>Eucommia ulmoides</i> leaves changed epithelial restitution and gut microbial community and composition of weanling piglets. <i>PLoS ONE</i> , 2019 , 14, e0223002	3.7	8
40	Dietary supplementation with betaine or glycine improves the carcass trait, meat quality and lipid metabolism of finishing mini-pigs. <i>Animal Nutrition</i> , 2021 , 7, 376-383	4.8	8
39	Effects of dietary branched-chain amino acid ratio on growth performance and serum amino acid pool of growing pigs ¹ . <i>Journal of Animal Science</i> , 2016 , 94, 129-134	0.7	8
38	β-Hydroxy-β-methyl butyrate, but not β-ketoisocaproate and excess leucine, stimulates skeletal muscle protein metabolism in growing pigs fed low-protein diets. <i>Journal of Functional Foods</i> , 2019 , 52, 34-42	5.1	8
37	Protective effects of taurine against muscle damage induced by diquat in 35 days weaned piglets. <i>Journal of Animal Science and Biotechnology</i> , 2020 , 11, 56	6	7
36	Oral administration of β-ketoglutarate enhances nitric oxide synthesis by endothelial cells and whole-body insulin sensitivity in diet-induced obese rats. <i>Experimental Biology and Medicine</i> , 2019 , 244, 1081-1088	3.7	7

35	Dietary supplementation with arginine and glutamic acid alters the expression of amino acid transporters in skeletal muscle of growing pigs. <i>Amino Acids</i> , 2019 , 51, 1081-1092	3.5	6
34	Leucine alone or in combination with glutamic acid, but not with arginine, increases biceps femoris muscle and alters muscle AA transport and concentrations in fattening pigs. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2019 , 103, 791-800	2.6	6
33	Dietary nutrient levels alter the metabolism of arginine family amino acids in the conceptus of Huanjiang mini-pigs. <i>Journal of the Science of Food and Agriculture</i> , 2019 , 99, 2132-2139	4.3	6
32	A selectively suppressing amino acid transporter: Sodium-coupled neutral amino acid transporter 2 inhibits cell growth and mammalian target of rapamycin complex 1 pathway in skeletal muscle cells. <i>Animal Nutrition</i> , 2020 , 6, 513-520	4.8	5
31	Branched-chain amino acid ratios in low-protein diets regulate the free amino acid profile and the expression of hepatic fatty acid metabolism-related genes in growing pigs. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2018 , 102, e43-e51	2.6	5
30	Dietary supplementation with <i>Lonicera macranthoides</i> leaf powder enhances growth performance and muscle growth of Chinese Tibetan pigs. <i>Livestock Science</i> , 2017 , 206, 1-8	1.7	4
29	Balanced Branched-Chain Amino Acids Modulate Meat Quality via Adjusting Muscle Fiber Type Conversion and Intramuscular Fat Deposition in Finishing Pigs.. <i>Journal of the Science of Food and Agriculture</i> , 2021 ,	4.3	4
28	Alterations of the Muscular Fatty Acid Composition and Serum Metabolome in Bama Xiang Mini-Pigs Exposed to Dietary Beta-Hydroxy Beta-Methyl Butyrate. <i>Animals</i> , 2021 , 11,	3.1	4
27	Different Proportions of Branched-Chain Amino Acids Modulate Lipid Metabolism in a Finishing Pig Model. <i>Journal of Agricultural and Food Chemistry</i> , 2021 , 69, 7037-7048	5.7	4
26	Negative effects on newborn piglets caused by excess dietary tryptophan in the morning in sows. <i>Journal of the Science of Food and Agriculture</i> , 2019 , 99, 3005-3016	4.3	4
25	Effects of Dietary Isomaltooligosaccharide Levels on the Gut Microbiota, Immune Function of Sows, and the Diarrhea Rate of Their Offspring. <i>Frontiers in Microbiology</i> , 2020 , 11, 588986	5.7	4
24	Extraction and identification of the chyme proteins in the digestive tract of growing pigs. <i>Science China Life Sciences</i> , 2018 , 61, 1396-1406	8.5	3
23	β-Ketoisocaproate and β-Hydroxy-β-methyl butyrate regulate fatty acid composition and lipid metabolism in skeletal muscle of growing pigs. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2019 , 103, 846-857	2.6	3
22	Roles of amino acid derivatives in the regulation of obesity. <i>Food and Function</i> , 2021 , 12, 6214-6225	6.1	3
21	Spatiotemporal Regulation and Functional Analysis of Circular RNAs in Skeletal Muscle and Subcutaneous Fat during Pig Growth. <i>Biology</i> , 2021 , 10,	4.9	3
20	L-Tryptophan activates the aryl hydrocarbon receptor and induces cell cycle arrest in porcine trophectoderm cells. <i>Theriogenology</i> , 2021 , 171, 137-146	2.8	3
19	Long-read assembly of the Chinese indigenous Ningxiang pig genome and identification of genetic variations in fat metabolism among different breeds. <i>Molecular Ecology Resources</i> , 2021 ,	8.4	2
18	Dietary β-Hydroxy-β-methylbutyrate improves intestinal function in weaned piglets after lipopolysaccharide challenge. <i>Nutrition</i> , 2020 , 78, 110839	4.8	2

17	Insight into Liver lncRNA and mRNA Profiling at Four Developmental Stages in Ningxiang Pig. <i>Biology</i> , 2021 , 10,	4.9	2
16	Dietary Supplementation With Promotes Growth and Gut Health of Weaned Piglets. <i>Frontiers in Veterinary Science</i> , 2020 , 7, 600772	3.1	2
15	Comparisons of carcass traits, meat quality, and serum metabolome between Shaziling and Yorkshire pigs.. <i>Animal Nutrition</i> , 2022 , 8, 125-134	4.8	2
14	Effects of Dietary Chlorogenic Acid Supplementation Derived from Hand-Mazz on Growth Performance, Free Amino Acid Profile, and Muscle Protein Synthesis in a Finishing Pig Model.. <i>Oxidative Medicine and Cellular Longevity</i> , 2022 , 2022, 6316611	6.7	2
13	The effects of dietary reduced mineral elements and coated cysteamine supplementation on bacterial diversity in the ileum of finishing pigs. <i>Animal Science Journal</i> , 2019 , 90, 1239-1247	1.8	1
12	Dietary beta-hydroxy-beta-methyl butyrate supplementation improves meat quality of Bama Xiang mini-pigs through manipulation of muscle fiber characteristics. <i>Journal of Functional Foods</i> , 2022 , 88, 104885	5.1	1
11	Suppression of protein degradation by leucine requires its conversion to β -hydroxy- β -methyl butyrate in C2C12 myotubes. <i>Aging</i> , 2019 , 11, 11922-11936	5.6	1
10	Is Leucine Restriction/Deprivation an Inducer of Adipose Browning? A Response to Jens Lund. <i>Trends in Pharmacological Sciences</i> , 2016 , 37, 807-808	13.2	1
9	HMB Improves Lipid Metabolism of Bama Xiang Mini-Pigs via Modulating the β -Acetic Acid-AMPK α Axis. <i>Frontiers in Microbiology</i> , 2021 , 12, 736997	5.7	1
8	Plant Extracts in Obesity: A Role of Gut Microbiota. <i>Frontiers in Nutrition</i> , 2021 , 8, 727951	6.2	1
7	Comparison of the Effects of Inorganic or Amino Acid-Chelated Zinc on Mouse Myoblast Growth and Growth Performance and Carcass Traits in Growing-Finishing Pigs.. <i>Frontiers in Nutrition</i> , 2022 , 9, 857393	6.2	1
6	Dietary addition of fermented sorghum distiller's dried grains with soluble improves carcass traits and meat quality in growing-finishing pigs.. <i>Tropical Animal Health and Production</i> , 2022 , 54, 97	1.7	0
5	Dietary Beta-Hydroxy Beta-Methyl Butyrate Supplementation Alleviates Liver Injury in Lipopolysaccharide-Challenged Piglets. <i>Oxidative Medicine and Cellular Longevity</i> , 2021 , 2021, 5546843	6.7	0
4	Changes in carcass traits, meat quality, muscle fiber characteristics, and liver function of finishing pigs fed high level of fish oil. <i>Canadian Journal of Animal Science</i> , 2021 , 101, 342-352	0.9	0
3	Integrated Analysis of Liver Transcriptome, miRNA, and Proteome of Chinese Indigenous Breed Ningxiang Pig in Three Developmental Stages Uncovers Significant miRNA-mRNA-Protein Networks in Lipid Metabolism. <i>Frontiers in Genetics</i> , 2021 , 12, 709521	4.5	0
2	Proteomic Analysis Reveals Cross-Talk of Adipocytes and Myotubes in Co-Culture. <i>FASEB Journal</i> , 2015 , 29, 742.5	0.9	
1	Dietary chicory powder supplementation affects growth performance, carcass traits, and muscular profiles of amino acids and fatty acids in growing-finishing Xiangcun Black pigs. <i>Journal of Applied Animal Research</i> , 2021 , 49, 46-52	1.7	