Kang Yao

List of Publications by Year
in descending order

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92 papers	3,448 citations	201385 27 h-index	155451 55 g-index
93 all docs	93 docs citations	93 times ranked	3838 citing authors

#	Article	IF	Citations
1	Antioxidant mechanism of tea polyphenols and its impact on health benefits. Animal Nutrition, 2020, 6, 115-123.	2.1	347
2	Inflammatory Links Between High Fat Diets and Diseases. Frontiers in Immunology, 2018, 9, 2649.	2.2	280
3	The role of leucine and its metabolites in protein and energy metabolism. Amino Acids, 2016, 48, 41-51.	1.2	209
4	Myokines and adipokines: Involvement in the crosstalk between skeletal muscle and adipose tissue. Cytokine and Growth Factor Reviews, 2017, 33, 73-82.	3.2	202
5	Supplementing l-leucine to a low-protein diet increases tissue protein synthesis in weanling pigs. Amino Acids, 2010, 39, 1477-1486.	1.2	166
6	Dietary l-arginine supplementation differentially regulates expression of lipid-metabolic genes in porcine adipose tissue and skeletal muscle. Journal of Nutritional Biochemistry, 2011, 22, 441-445.	1.9	160
7	Taurine is Involved in Energy Metabolism in Muscles, Adipose Tissue, and the Liver. Molecular Nutrition and Food Research, 2019, 63, e1800536.	1.5	121
8	Effects of dietaryn-6:n-3 PUFA ratio on fatty acid composition, free amino acid profile and gene expression of transporters in finishing pigs. British Journal of Nutrition, 2015, 113, 739-748.	1.2	111
9	Impaired translation initiation activation and reduced protein synthesis in weaned piglets fed a low-protein diet. Journal of Nutritional Biochemistry, 2009, 20, 544-552.	1.9	104
10	n-6:n-3 PUFA ratio is involved in regulating lipid metabolism and inflammation in pigs. British Journal of Nutrition, 2014, 111, 445-451.	1.2	99
11	Oxidative stress, nutritional antioxidants and beyond. Science China Life Sciences, 2020, 63, 866-874.	2.3	80
12	Effects of Î±-ketoglutarate on energy status in the intestinal mucosa of weaned piglets chronically challenged with lipopolysaccharide. British Journal of Nutrition, 2011, 106, 357-363.	1.2	79
13	Leucine in Obesity: Therapeutic Prospects. Trends in Pharmacological Sciences, 2016, 37, 714-727.	4.0	64
14	Dietary xylo-oligosaccharide improves intestinal functions in weaned piglets. Food and Function, 2019, 10, 2701-2709.	2.1	57
15	Metabolic control of myofibers: promising therapeutic target for obesity and type 2 diabetes. Obesity Reviews, 2017, 18, 647-659.	3.1	55
16	Gut microbiota mediates the protective effects of dietary Î²â€hydroxyâ€Î²â€methylbutyrate (HMB) against obesity induced by highâ€fat diets. FASEB Journal, 2019, 33, 10019-10033.	0.2	55
17	Nutritional and regulatory roles of leucine in muscle growth and fat reduction. Frontiers in Bioscience - Landmark, 2015, 20, 796-813.	3.0	53
18	Î²-Hydroxy-Î²-methylbutyrate, mitochondrial biogenesis, and skeletal muscle health. Amino Acids, 2016, 48, 653-664.	1.2	50

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19	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. Amino Acids, 2016, 48, 2131-2144.	1.2	49
20	Effect of branched-chain amino acid ratio on the proliferation, differentiation, and expression levels of key regulators involved in protein metabolism of myocytes. Nutrition, 2017, 36, 8-16.	1.1	41
21	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. Journal of Animal Science, 2018, 96, 3221-3232.	0.2	40
22	Leucine Supplementation: A Novel Strategy for Modulating Lipid Metabolism and Energy Homeostasis. Nutrients, 2020, 12, 1299.	1.7	38
23	Key mediators of intracellular amino acids signaling to mTORC1 activation. Amino Acids, 2015, 47, 857-867.	1.2	35
24	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. Journal of Agricultural and Food Chemistry, 2016, 64, 9390-9400.	2.4	33
25	Flavonoids from Mulberry Leaves Alleviate Lipid Dysmetabolism in High Fat Diet-Fed Mice: Involvement of Gut Microbiota. Microorganisms, 2020, 8, 860.	1.6	33
26	Propionate alleviates high-fat diet-induced lipid dysmetabolism by modulating gut microbiota in mice. Journal of Applied Microbiology, 2019, 127, 1546-1555.	1.4	31
27	Oral administration of interferon tau enhances oxidation of energy substrates and reduces adiposity in Zucker diabetic fatty rats. BioFactors, 2013, 39, 552-563.	2.6	29
28	Effects of dietary protein restriction on muscle fiber characteristics and mTORC1 pathway in the skeletal muscle of growing-finishing pigs. Journal of Animal Science and Biotechnology, 2016, 7, 47.	2.1	29
29	Different Proportions of Branched-Chain Amino Acids Modulate Lipid Metabolism in a Finishing Pig Model. Journal of Agricultural and Food Chemistry, 2021, 69, 7037-7048.	2.4	28
30	Dietary supplementation with betaine or glycine improves the carcass trait, meat quality and lipid metabolism of finishing mini-pigs. Animal Nutrition, 2021, 7, 376-383.	2.1	26
31	Effects of Low-Protein Diets Supplemented with Branched-Chain Amino Acid on Lipid Metabolism in White Adipose Tissue of Piglets. Journal of Agricultural and Food Chemistry, 2017, 65, 2839-2848.	2.4	25
32	Alteration of muscle fiber characteristics and the AMPK-SIRT1-PGC-1Î± axis in skeletal muscle of growing pigs fed low-protein diets with varying branched-chain amino acid ratios. Oncotarget, 2017, 8, 107011-107021.	0.8	25
33	Dietary Supplementation With Leucine or in Combination With Arginine Decreases Body Fat Weight and Alters Gut Microbiota Composition in Finishing Pigs. Frontiers in Microbiology, 2019, 10, 1767.	1.5	25
34	Myokine interleukin-15 expression profile is different in suckling and weaning piglets. Animal Nutrition, 2015, 1, 30-35.	2.1	24
35	Protein-Restricted Diet Regulates Lipid and Energy Metabolism in Skeletal Muscle of Growing Pigs. Journal of Agricultural and Food Chemistry, 2016, 64, 9412-9420.	2.4	24
36	Comparisons of carcass traits, meat quality, and serum metabolome between Shaziling and Yorkshire pigs. Animal Nutrition, 2022, 8, 125-134.	2.1	23

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37	Reduced dietary protein level influences the free amino acid and gene expression profiles of selected amino acid transceptors in skeletal muscle of growing pigs. Journal of Animal Physiology and Animal Nutrition, 2017, 101, 96-104.	1.0	22
38	Branched-chain amino acid ratios modulate lipid metabolism in adipose tissues of growing pigs. Journal of Functional Foods, 2018, 40, 614-624.	1.6	22
39	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. Animal Nutrition, 2016, 2, 24-32.	2.1	21
40	Î²-Hydroxy-Î²-methylbutyrate modulates lipid metabolism in adipose tissues of growing pigs. Food and Function, 2018, 9, 4836-4846.	2.1	21
41	Dietary supplementation with the extract from Eucommia ulmoides leaves changed epithelial restitution and gut microbial community and composition of weanling piglets. PLoS ONE, 2019, 14, e0223002.	1.1	21
42	Mitochondrial pathway is involved in the protective effects of alpha-ketoglutarate on hydrogen peroxide induced damage to intestinal cells. Oncotarget, 2017, 8, 74820-74835.	0.8	20
43	Optimal branched-chain amino acid ratio improves cell proliferation and protein metabolism of porcine enterocytesin vivo and in vitro. Nutrition, 2018, 54, 173-181.	1.1	20
44	Alpha-ketoglutarate enhances milk protein synthesis by porcine mammary epithelial cells. Amino Acids, 2016, 48, 2179-2188.	1.2	19
45	Î²-Hydroxy-Î²-methyl Butyrate Is More Potent Than Leucine in Inhibiting Starvation-Induced Protein Degradation in C2C12 Myotubes. Journal of Agricultural and Food Chemistry, 2018, 66, 170-176.	2.4	19
46	Î²â€hydroxyâ€Î²â€methyl butyrate promotes leucine metabolism and improves muscle fibre composition in growing pigs. Journal of Animal Physiology and Animal Nutrition, 2018, 102, 1328-1339.	1.0	18
47	Î²-hydroxy-Î²-methylbutyrate (HMB) improves mitochondrial function in myocytes through pathways involving PPARÎ²/Î´ and CDK4. Nutrition, 2019, 60, 217-226.	1.1	18
48	Effects of Dietary Isomaltooligosaccharide Levels on the Gut Microbiota, Immune Function of Sows, and the Diarrhea Rate of Their Offspring. Frontiers in Microbiology, 2020, 11, 588986.	1.5	18
49	Beta-hydroxy beta-methyl butyrate decreases muscle protein degradation via increased Akt/FoxO3a signaling and mitochondrial biogenesis in weanling piglets after lipopolysaccharide challenge. Food and Function, 2019, 10, 5152-5165.	2.1	16
50	Protective effects of taurine against muscle damage induced by diquat in 35â€‰days weaned piglets. Journal of Animal Science and Biotechnology, 2020, 11, 56.	2.1	16
51	Gut microbiota and blood metabolomics in weaning multiparous sows: Associations with oestrous. Journal of Animal Physiology and Animal Nutrition, 2020, 104, 1155-1168.	1.0	16
52	Balanced branchedâ€chain amino acids modulate meat quality by adjusting muscle fiber type conversion and intramuscular fat deposition in finishing pigs. Journal of the Science of Food and Agriculture, 2022, 102, 3796-3807.	1.7	16
53	Dietary Supplementation With Bacillus subtilis Promotes Growth and Gut Health of Weaned Piglets. Frontiers in Veterinary Science, 2020, 7, 600772.	0.9	15
54	The Protein and Energy Metabolic Response of Skeletal Muscle to the Low-Protein Diets in Growing Pigs. Journal of Agricultural and Food Chemistry, 2017, 65, 8544-8551.	2.4	14

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55	Key factors involved in obesity development. Eating and Weight Disorders, 2018, 23, 267-274.	1.2	14
56	Oral administration of Î±-ketoglutarate enhances nitric oxide synthesis by endothelial cells and whole-body insulin sensitivity in diet-induced obese rats. Experimental Biology and Medicine, 2019, 244, 1081-1088.	1.1	13
57	Dietary Î²-hydroxy-Î²-methylbutyrate improves intestinal function in weaned piglets after lipopolysaccharide challenge. Nutrition, 2020, 78, 110839.	1.1	13
58	Effects of dietary branched-chain amino acid ratio on growth performance and serum amino acid pool of growing pigs1. Journal of Animal Science, 2016, 94, 129-134.	0.2	12
59	Alterations of the Muscular Fatty Acid Composition and Serum Metabolome in Bama Xiang Mini-Pigs Exposed to Dietary Beta-Hydroxy Beta-Methyl Butyrate. Animals, 2021, 11, 1190.	1.0	12
60	Plant Extracts in Obesity: A Role of Gut Microbiota. Frontiers in Nutrition, 2021, 8, 727951.	1.6	12
61	Î²-hydroxy-Î²-methyl butyrate, but not Î±-ketoisocaproate and excess leucine, stimulates skeletal muscle protein metabolism in growing pigs fed low-protein diets. Journal of Functional Foods, 2019, 52, 34-42.	1.6	11
62	Branchedâ€chain amino acid ratios in lowâ€protein diets regulate the free amino acid profile and the expression of hepatic fatty acid metabolismâ€related genes in growing pigs. Journal of Animal Physiology and Animal Nutrition, 2018, 102, e43-e51.	1.0	10
63	Dietary supplementation with arginine and glutamic acid alters the expression of amino acid transporters in skeletal muscle of growing pigs. Amino Acids, 2019, 51, 1081-1092.	1.2	10
64	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. Journal of Animal Physiology and Animal Nutrition, 2019, 103, 791-800.	1.0	10
65	Dietary nutrient levels alter the metabolism of arginine family amino acids in the conceptus of Huanjiang miniâ€pigs. Journal of the Science of Food and Agriculture, 2019, 99, 2132-2139.	1.7	10
66	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. Animal Nutrition, 2020, 6, 513-520.	2.1	10
67	Î±â€Ketoisocaproate and Î²â€hydroxyâ€Î²â€methyl butyrate regulate fatty acid composition and lipid metabolism in skeletal muscle of growing pigs. Journal of Animal Physiology and Animal Nutrition, 2019, 103, 846-857.	1.0	9
68	Spatiotemporal Regulation and Functional Analysis of Circular RNAs in Skeletal Muscle and Subcutaneous Fat during Pig Growth. Biology, 2021, 10, 841.	1.3	9
69	Longâ€read assembly of the Chinese indigenous Ningxiang pig genome and identification of genetic variations in fat metabolism among different breeds. Molecular Ecology Resources, 2022, 22, 1508-1520.	2.2	9
70	HMB Improves Lipid Metabolism of Bama Xiang Mini-Pigs via Modulating the Bacteroidetes-Acetic Acid-AMPKÎ± Axis. Frontiers in Microbiology, 2021, 12, 736997.	1.5	8
71	Dietary Beta-Hydroxy-Beta-Methyl Butyrate Supplementation Inhibits Hepatic Fat Deposition via Regulating Gut Microbiota in Broiler Chickens. Microorganisms, 2022, 10, 169.	1.6	8
72	Negative effects on newborn piglets caused by excess dietary tryptophan in the morning in sows. Journal of the Science of Food and Agriculture, 2019, 99, 3005-3016.	1.7	7

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73	Integrated Analysis of lncRNA and mRNA in Subcutaneous Adipose Tissue of Ningxiang Pig. Biology, 2021, 10, 726.	1.3	7
74	Dietary supplementation with Lonicera macranthoides leaf powder enhances growth performance and muscle growth of Chinese Tibetan pigs. Livestock Science, 2017, 206, 1-8.	0.6	6
75	Roles of amino acid derivatives in the regulation of obesity. Food and Function, 2021, 12, 6214-6225.	2.1	6
76	Insight into Liver lncRNA and mRNA Profiling at Four Developmental Stages in Ningxiang Pig. Biology, 2021, 10, 310.	1.3	6
77	L-Tryptophan activates the aryl hydrocarbon receptor and induces cell cycle arrest in porcine trophectoderm cells. Theriogenology, 2021, 171, 137-146.	0.9	6
78	Effects of Dietary Tea Powder on the Growth Performance, Carcass Traits, and Meat Quality of Tibetan Pig Ã— Bama Miniature Pigs. Animals, 2021, 11, 3225.	1.0	6
79	Dietary addition of fermented sorghum distillerâ€™s dried grains with soluble improves carcass traits and meat quality in growing-finishing pigs. Tropical Animal Health and Production, 2022, 54, 97.	0.5	6
80	Comparison of the Effects of Inorganic or Amino Acid-Chelated Zinc on Mouse Myoblast Growth in vitro and Growth Performance and Carcass Traits in Growing-Finishing Pigs. Frontiers in Nutrition, 2022, 9, 857393.	1.6	6
81	Dietary beta-hydroxy-beta-methyl butyrate supplementation improves meat quality of Bama Xiang mini-pigs through manipulation of muscle fiber characteristics. Journal of Functional Foods, 2022, 88, 104885.	1.6	5
82	Extraction and identification of the chyme proteins in the digestive tract of growing pigs. Science China Life Sciences, 2018, 61, 1396-1406.	2.3	4
83	Effects of Dietary Chlorogenic Acid Supplementation Derived from Lonicera macranthoides Hand-Mazz on Growth Performance, Free Amino Acid Profile, and Muscle Protein Synthesis in a Finishing Pig Model. Oxidative Medicine and Cellular Longevity, 2022, 2022, 1-14.	1.9	4
84	Dietary Beta-Hydroxy Beta-Methyl Butyrate Supplementation Alleviates Liver Injury in Lipopolysaccharide-Challenged Piglets. Oxidative Medicine and Cellular Longevity, 2021, 2021, 1-9.	1.9	3
85	Changes in carcass traits, meat quality, muscle fiber characteristics, and liver function of finishing pigs fed high level of fish oil. Canadian Journal of Animal Science, 2021, 101, 342-352.	0.7	3
86	Integrated Analysis of Liver Transcriptome, miRNA, and Proteome of Chinese Indigenous Breed Ningxiang Pig in Three Developmental Stages Uncovers Significant miRNAâ€“mRNAâ€“Protein Networks in Lipid Metabolism. Frontiers in Genetics, 2021, 12, 709521.	1.1	3
87	Suppression of protein degradation by leucine requires its conversion to Î²-hydroxy-Î²-methyl butyrate in C2C12 myotubes. Aging, 2019, 11, 11922-11936.	1.4	3
88	The effects of dietary reduced mineral elements and coated cysteamine supplementation on bacterial diversity in the ileum of finishing pigs. Animal Science Journal, 2019, 90, 1239-1247.	0.6	2
89	Potential nutritional healthy-aging strategy: enhanced protein metabolism by balancing branched-chain amino acids in a finishing pig model. Food and Function, 2022, 13, 6217-6232.	2.1	2
90	Is Leucine Restriction/Deprivation an Inducer of Adipose Browning? A Response to Jens Lund. Trends in Pharmacological Sciences, 2016, 37, 807-808.	4.0	1

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91	Dietary chicory powder supplementation affects growth performance, carcass traits, and muscular profiles of amino acids and fatty acids in growing-finishing Xiangcun Black pigs. Journal of Applied Animal Research, 2021, 49, 46-52.	0.4	0
92	Proteomic Analysis Reveals Crossâ€Talk of Adipocytes and Myotubes in Coâ€Culture. FASEB Journal, 2015, 29, 742.5.	0.2	0