Fengna Li

List of Publications by Year
in descending order

87 papers	3,594 citations	159358 30 h-index	149479 56 g-index
89 all docs	89 docs citations	89 times ranked	4261 citing authors

#	Article	IF	Citations
1	Advanced single-cell pooled CRISPR screening identifies C19orf53 required for cell proliferation based on mTORC1 regulators. Cell Biology and Toxicology, 2022, 38, 43-68.	2.4	6
2	Fecal miR-142a-3p from dextran sulfate sodium-challenge recovered mice prevents colitis by promoting the growth of Lactobacillus reuteri. Molecular Therapy, 2022, 30, 388-399.	3.7	24
3	Comparisons of carcass traits, meat quality, and serum metabolome between Shaziling and Yorkshire pigs. Animal Nutrition, 2022, 8, 125-134.	2.1	23
4	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
5	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
6	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
7	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
8	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
9	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
10	Intestinal accumulation of microbiota-produced succinate caused by loss of microRNAs leads to diarrhea in weanling piglets. Gut Microbes, 2022, 14, .	4.3	21
11	Effectiveness and safety evaluation of graded levels of N-carbamylglutamate in growing-finishing pigs. Animal Nutrition, 2022, 10, 412-418.	2.1	2
12	The Effect of Dietary Leucine Supplementation on Antioxidant Capacity and Meat Quality of Finishing Pigs under Heat Stress. Antioxidants, 2022, 11, 1373.	2.2	8
13	Mulberry leaf powder regulates antioxidative capacity and lipid metabolism in finishing pigs. Animal Nutrition, 2021, 7, 421-429.	2.1	29
14	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
15	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
16	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
17	Serine-to-glycine ratios in low-protein diets regulate intramuscular fat by affecting lipid metabolism and myofiber type transition in the skeletal muscle of growing-finishing pigs. Animal Nutrition, 2021, 7, 384-392.	2.1	23
18	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

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19	Effect of Dietary Amylose/Amylopectin Ratio on Intestinal Health and Cecal Microbesâ€™ Profiles of Weaned Pigs Undergoing Feed Transition or Challenged With Escherichia coli Lipopolysaccharide. Frontiers in Microbiology, 2021, 12, 693839.	1.5	6
20	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
21	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
22	Effects of Different Supplemental Levels of Eucommia ulmoides Leaf Extract in the Diet on Carcass Traits and Lipid Metabolism in Growingâ€“Finishing Pigs. Frontiers in Veterinary Science, 2021, 8, 828165.	0.9	5
23	Oxidative stress, nutritional antioxidants and beyond. Science China Life Sciences, 2020, 63, 866-874.	2.3	80
24	Dietary Î²-hydroxy-Î²-methylbutyrate improves intestinal function in weaned piglets after lipopolysaccharide challenge. Nutrition, 2020, 78, 110839.	1.1	13
25	Effects of dietary gamma-aminobutyric acid supplementation on amino acid profile, intestinal immunity, and microbiota in ETEC-challenged piglets. Food and Function, 2020, 11, 9067-9074.	2.1	12
26	Leucine Supplementation: A Novel Strategy for Modulating Lipid Metabolism and Energy Homeostasis. Nutrients, 2020, 12, 1299.	1.7	38
27	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
28	Flavonoids from Mulberry Leaves Alleviate Lipid Dysmetabolism in High Fat Diet-Fed Mice: Involvement of Gut Microbiota. Microorganisms, 2020, 8, 860.	1.6	33
29	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
30	Antioxidant mechanism of tea polyphenols and its impact on health benefits. Animal Nutrition, 2020, 6, 115-123.	2.1	347
31	Branched-chain amino acids, especially of leucine and valine, mediate the protein restricted response in a piglet model. Food and Function, 2020, 11, 1304-1311.	2.1	27
32	Beta-hydroxy beta-methyl butyrate decreases muscle protein degradation <i>via</i> increased Akt/FoxO3a signaling and mitochondrial biogenesis in weanling piglets after lipopolysaccharide challenge. Food and Function, 2019, 10, 5152-5165.	2.1	16
33	Dietary mulberry leaf powder affects growth performance, carcass traits and meat quality in finishing pigs. Journal of Animal Physiology and Animal Nutrition, 2019, 103, 1934-1945.	1.0	29
34	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
35	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
36	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

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37	Dietary xylo-oligosaccharide improves intestinal functions in weaned piglets. Food and Function, 2019, 10, 2701-2709.	2.1	57
38	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
39	Oral Administration of <i>Lactobacillus delbrueckii</i> during the Suckling Phase Improves Antioxidant Activities and Immune Responses after the Weaning Event in a Piglet Model. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-10.	1.9	26
40	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
41	PSIII-11 Effect of dietary lactic acid bacteria level on reproductive performance and plasma indices in lactating sows. Journal of Animal Science, 2019, 97, 187-188.	0.2	0
42	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
43	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
44	Taurine is Involved in Energy Metabolism in Muscles, Adipose Tissue, and the Liver. Molecular Nutrition and Food Research, 2019, 63, e1800536.	1.5	121
45	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
46	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
47	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
48	Effects of dietary ramie powder at various levels on carcass traits and meat quality in finishing pigs. Meat Science, 2018, 143, 52-59.	2.7	44
49	Inflammatory Links Between High Fat Diets and Diseases. Frontiers in Immunology, 2018, 9, 2649.	2.2	280
50	Effects of dietary ramie powder at various levels on growth performance, antioxidative capacity and fatty acid profile of finishing pigs. Journal of Animal Physiology and Animal Nutrition, 2018, 103, 564-573.	1.0	9
51	Optimal branched-chain amino acid ratio improves cell proliferation and protein metabolism of porcine enterocytesin in vivo and in vitro. Nutrition, 2018, 54, 173-181.	1.1	20
52	Î²-Hydroxy-Î²-methylbutyrate modulates lipid metabolism in adipose tissues of growing pigs. Food and Function, 2018, 9, 4836-4846.	2.1	21
53	Metabolic control of myofibers: promising therapeutic target for obesity and type 2 diabetes. Obesity Reviews, 2017, 18, 647-659.	3.1	55
54	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

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55	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
56	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
57	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
58	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
59	Recent Advances in Understanding Amino Acid Sensing Mechanisms that Regulate mTORC1. International Journal of Molecular Sciences, 2016, 17, 1636.	1.8	79
60	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
61	Leucine in Obesity: Therapeutic Prospects. Trends in Pharmacological Sciences, 2016, 37, 714-727.	4.0	64
62	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
63	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
64	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
65	Dietary supplementation of Lonicera macranthoides leaf powder improves amino acid profiles in serum and longissimus thoracis muscle of growing-finishing pigs. Animal Nutrition, 2016, 2, 271-275.	2.1	12
66	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
67	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
68	Developmental changes in intercellular junctions and Kv channels in the intestine of piglets during the suckling and post-weaning periods. Journal of Animal Science and Biotechnology, 2016, 7, 4.	2.1	57
69	Î²-Hydroxy-Î²-methylbutyrate, mitochondrial biogenesis, and skeletal muscle health. Amino Acids, 2016, 48, 653-664.	1.2	50
70	The role of leucine and its metabolites in protein and energy metabolism. Amino Acids, 2016, 48, 41-51.	1.2	209
71	Myokine interleukin-15 expression profile is different in suckling and weaning piglets. Animal Nutrition, 2015, 1, 30-35.	2.1	24
72	Effects of dietary protein/energy ratio on growth performance, carcass trait, meat quality, and plasma metabolites in pigs of different genotypes. Journal of Animal Science and Biotechnology, 2015, 6, 36.	2.1	57

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73	Characterization and Regulation of the Amino Acid Transporter SNAT2 in the Small Intestine of Piglets. PLoS ONE, 2015, 10, e0128207.	1.1	20
74	Effects of dietary<i>n</i>-6:<i>n</i>-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
75	Dietary protein intake affects expression of genes for lipid metabolism in porcine skeletal muscle in a genotype-dependent manner. British Journal of Nutrition, 2015, 113, 1069-1077.	1.2	39
76	The profiles of mitochondrial respiration and glycolysis using extracellular flux analysis in porcine enterocyte IPEC-J2. Animal Nutrition, 2015, 1, 239-243.	2.1	35
77	Autophagy protects intestinal epithelial Cells against Deoxynivalenol toxicity by alleviating oxidative stress via IKK signaling pathway. Free Radical Biology and Medicine, 2015, 89, 944-951.	1.3	83
78	Methionine deficiency reduces autophagy and accelerates death in intestinal epithelial cells infected with enterotoxigenic Escherichia coli. Amino Acids, 2015, 47, 2199-2204.	1.2	28
79	Nutritional and regulatory roles of leucine in muscle growth and fat reduction. Frontiers in Bioscience - Landmark, 2015, 20, 796-813.	3.0	53
80	Proteomic Analysis Reveals Crossâ€Talk of Adipocytes and Myotubes in Coâ€Culture. FASEB Journal, 2015, 29, 742.5.	0.2	0
81	Protective effect of myokine IL-15 against H2O2-mediated oxidative stress in skeletal muscle cells. Molecular Biology Reports, 2014, 41, 7715-7722.	1.0	38
82	<i>n</i>-6:<i>n</i>-3 PUFA ratio is involved in regulating lipid metabolism and inflammation in pigs. British Journal of Nutrition, 2014, 111, 445-451.	1.2	99
83	Myokine IL-15 regulates the crosstalk of co-cultured porcine skeletal muscle satellite cells and preadipocytes. Molecular Biology Reports, 2014, 41, 7543-7553.	1.0	39
84	Enterotoxigenic Escherichia coli infection induces intestinal epithelial cell autophagy. Veterinary Microbiology, 2014, 171, 160-164.	0.8	38
85	Effect of L-arginine on HSP70 expression in liver in weanling piglets. BMC Veterinary Research, 2013, 9, 63.	0.7	29
86	Myostatin regulates preadipocyte differentiation and lipid metabolism of adipocyte via ERK1/2. Cell Biology International, 2011, 35, 1141-1146.	1.4	41
87	Leucine nutrition in animals and humans: mTOR signaling and beyond. Amino Acids, 2011, 41, 1185-1193.	1.2	209