

# Fengna Li

## List of Publications by Year in descending order

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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	Antioxidant mechanism of tea polyphenols and its impact on health benefits. <i>Animal Nutrition</i> , 2020, 6, 115-123.	2.1	347
2	Inflammatory Links Between High Fat Diets and Diseases. <i>Frontiers in Immunology</i> , 2018, 9, 2649.	2.2	280
3	Leucine nutrition in animals and humans: mTOR signaling and beyond. <i>Amino Acids</i> , 2011, 41, 1185-1193.	1.2	209
4	The role of leucine and its metabolites in protein and energy metabolism. <i>Amino Acids</i> , 2016, 48, 41-51.	1.2	209
5	Myokines and adipokines: Involvement in the crosstalk between skeletal muscle and adipose tissue. <i>Cytokine and Growth Factor Reviews</i> , 2017, 33, 73-82.	3.2	202
6	Taurine is Involved in Energy Metabolism in Muscles, Adipose Tissue, and the Liver. <i>Molecular Nutrition and Food Research</i> , 2019, 63, e1800536.	1.5	121
7	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, 739-748.	1.2	111
8	n-6:n-3 PUFA ratio is involved in regulating lipid metabolism and inflammation in pigs. <i>British Journal of Nutrition</i> , 2014, 111, 445-451.	1.2	99
9	Autophagy protects intestinal epithelial Cells against Deoxynivalenol toxicity by alleviating oxidative stress via IKK signaling pathway. <i>Free Radical Biology and Medicine</i> , 2015, 89, 944-951.	1.3	83
10	Oxidative stress, nutritional antioxidants and beyond. <i>Science China Life Sciences</i> , 2020, 63, 866-874.	2.3	80
11	Recent Advances in Understanding Amino Acid Sensing Mechanisms that Regulate mTORC1. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1636.	1.8	79
12	Leucine in Obesity: Therapeutic Prospects. <i>Trends in Pharmacological Sciences</i> , 2016, 37, 714-727.	4.0	64
13	Effects of dietary protein/energy ratio on growth performance, carcass trait, meat quality, and plasma metabolites in pigs of different genotypes. <i>Journal of Animal Science and Biotechnology</i> , 2015, 6, 36.	2.1	57
14	Developmental changes in intercellular junctions and Kv channels in the intestine of piglets during the suckling and post-weaning periods. <i>Journal of Animal Science and Biotechnology</i> , 2016, 7, 4.	2.1	57
15	Dietary xylo-oligosaccharide improves intestinal functions in weaned piglets. <i>Food and Function</i> , 2019, 10, 2701-2709.	2.1	57
16	Metabolic control of myofibers: promising therapeutic target for obesity and type 2 diabetes. <i>Obesity Reviews</i> , 2017, 18, 647-659.	3.1	55
17	Gut microbiota mediates the protective effects of dietary Î²-hydroxyÎ²-methylbutyrate (HMB) against obesity induced by high-fat diets. <i>FASEB Journal</i> , 2019, 33, 10019-10033.	0.2	55
18	Nutritional and regulatory roles of leucine in muscle growth and fat reduction. <i>Frontiers in Bioscience - Landmark</i> , 2015, 20, 796-813.	3.0	53

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19	$\beta$ -Hydroxy- $\beta$ -methylbutyrate, mitochondrial biogenesis, and skeletal muscle health. <i>Amino Acids</i> , 2016, 48, 653-664.	1.2	50
20	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, 2131-2144.	1.2	49
21	Effects of dietary ramie powder at various levels on carcass traits and meat quality in finishing pigs. <i>Meat Science</i> , 2018, 143, 52-59.	2.7	44
22	Myostatin regulates preadipocyte differentiation and lipid metabolism of adipocyte via ERK1/2. <i>Cell Biology International</i> , 2011, 35, 1141-1146.	1.4	41
23	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.	1.1	41
24	Myokine IL-15 regulates the crosstalk of co-cultured porcine skeletal muscle satellite cells and preadipocytes. <i>Molecular Biology Reports</i> , 2014, 41, 7543-7553.	1.0	39
25	Dietary protein intake affects expression of genes for lipid metabolism in porcine skeletal muscle in a genotype-dependent manner. <i>British Journal of Nutrition</i> , 2015, 113, 1069-1077.	1.2	39
26	Protective effect of myokine IL-15 against H <sub>2</sub> O <sub>2</sub> -mediated oxidative stress in skeletal muscle cells. <i>Molecular Biology Reports</i> , 2014, 41, 7715-7722.	1.0	38
27	Enterotoxigenic <i>Escherichia coli</i> infection induces intestinal epithelial cell autophagy. <i>Veterinary Microbiology</i> , 2014, 171, 160-164.	0.8	38
28	Leucine Supplementation: A Novel Strategy for Modulating Lipid Metabolism and Energy Homeostasis. <i>Nutrients</i> , 2020, 12, 1299.	1.7	38
29	The profiles of mitochondrial respiration and glycolysis using extracellular flux analysis in porcine enterocyte IPEC-J2. <i>Animal Nutrition</i> , 2015, 1, 239-243.	2.1	35
30	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.	2.4	33
31	Flavonoids from Mulberry Leaves Alleviate Lipid Dysmetabolism in High Fat Diet-Fed Mice: Involvement of Gut Microbiota. <i>Microorganisms</i> , 2020, 8, 860.	1.6	33
32	Effect of L-arginine on HSP70 expression in liver in weanling piglets. <i>BMC Veterinary Research</i> , 2013, 9, 63.	0.7	29
33	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.	2.1	29
34	Dietary mulberry leaf powder affects growth performance, carcass traits and meat quality in finishing pigs. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2019, 103, 1934-1945.	1.0	29
35	Mulberry leaf powder regulates antioxidative capacity and lipid metabolism in finishing pigs. <i>Animal Nutrition</i> , 2021, 7, 421-429.	2.1	29
36	Methionine deficiency reduces autophagy and accelerates death in intestinal epithelial cells infected with enterotoxigenic <i>Escherichia coli</i> . <i>Amino Acids</i> , 2015, 47, 2199-2204.	1.2	28

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37	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.	2.4	28
38	Branched-chain amino acids, especially of leucine and valine, mediate the protein restricted response in a piglet model. <i>Food and Function</i> , 2020, 11, 1304-1311.	2.1	27
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. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-10.	1.9	26
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.	2.1	26
41	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.	2.4	25
42	Alteration of muscle fiber characteristics and the AMPK-SIRT1-PGC-1 $\alpha$ 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.	0.8	25
43	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.	1.5	25
44	Myokine interleukin-15 expression profile is different in suckling and weaning piglets. <i>Animal Nutrition</i> , 2015, 1, 30-35.	2.1	24
45	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.	2.4	24
46	Fecal miR-142a-3p from dextran sulfate sodium-challenge recovered mice prevents colitis by promoting the growth of <i>Lactobacillus reuteri</i> . <i>Molecular Therapy</i> , 2022, 30, 388-399.	3.7	24
47	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. <i>Animal Nutrition</i> , 2021, 7, 384-392.	2.1	23
48	Comparisons of carcass traits, meat quality, and serum metabolome between Shaziling and Yorkshire pigs. <i>Animal Nutrition</i> , 2022, 8, 125-134.	2.1	23
49	Branched-chain amino acid ratios modulate lipid metabolism in adipose tissues of growing pigs. <i>Journal of Functional Foods</i> , 2018, 40, 614-624.	1.6	22
50	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.	2.1	21
51	$\beta$ -Hydroxy- $\beta$ -methylbutyrate modulates lipid metabolism in adipose tissues of growing pigs. <i>Food and Function</i> , 2018, 9, 4836-4846.	2.1	21
52	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.	1.1	21
53	Intestinal accumulation of microbiota-produced succinate caused by loss of microRNAs leads to diarrhea in weanling piglets. <i>Gut Microbes</i> , 2022, 14, .	4.3	21
54	Characterization and Regulation of the Amino Acid Transporter SNAT2 in the Small Intestine of Piglets. <i>PLoS ONE</i> , 2015, 10, e0128207.	1.1	20

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55	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.	1.1	20
56	$\beta$ -Hydroxy- $\beta$ -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.	2.4	19
57	$\beta$ -hydroxy- $\beta$ -methylbutyrate (HMB) improves mitochondrial function in myocytes through pathways involving PPAR $\alpha$ and CDK4. <i>Nutrition</i> , 2019, 60, 217-226.	1.1	18
58	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.	2.1	16
59	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.	2.1	16
60	Balanced branched-chain amino acids modulate meat quality by adjusting muscle fiber type conversion and intramuscular fat deposition in finishing pigs. <i>Journal of the Science of Food and Agriculture</i> , 2022, 102, 3796-3807.	1.7	16
61	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.	2.4	14
62	Dietary $\beta$ -hydroxy- $\beta$ -methylbutyrate improves intestinal function in weaned piglets after lipopolysaccharide challenge. <i>Nutrition</i> , 2020, 78, 110839.	1.1	13
63	Dietary supplementation of <i>Lonicera macranthoides</i> leaf powder improves amino acid profiles in serum and longissimus thoracis muscle of growing-finishing pigs. <i>Animal Nutrition</i> , 2016, 2, 271-275.	2.1	12
64	Effects of dietary gamma-aminobutyric acid supplementation on amino acid profile, intestinal immunity, and microbiota in ETEC-challenged piglets. <i>Food and Function</i> , 2020, 11, 9067-9074.	2.1	12
65	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, 1190.	1.0	12
66	$\beta$ -hydroxy- $\beta$ -methyl butyrate, but not $\beta$ -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.	1.6	11
67	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.	1.0	10
68	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.	2.1	10
69	Effects of dietary ramie powder at various levels on growth performance, antioxidative capacity and fatty acid profile of finishing pigs. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2018, 103, 564-573.	1.0	9
70	$\beta$ -Ketoisocaproate and $\beta$ -hydroxy- $\beta$ -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.	1.0	9
71	HMB Improves Lipid Metabolism of Bama Xiang Mini-Pigs via Modulating the Bacteroidetes-Acetic Acid-AMPK Axis. <i>Frontiers in Microbiology</i> , 2021, 12, 736997.	1.5	8
72	The Effect of Dietary Leucine Supplementation on Antioxidant Capacity and Meat Quality of Finishing Pigs under Heat Stress. <i>Antioxidants</i> , 2022, 11, 1373.	2.2	8

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73	Advanced single-cell pooled CRISPR screening identifies C19orf53 required for cell proliferation based on mTORC1 regulators. <i>Cell Biology and Toxicology</i> , 2022, 38, 43-68.	2.4	6
74	Effect of Dietary Amylose/Amylopectin Ratio on Intestinal Health and Cecal Microbesâ€™ Profiles of Weaned Pigs Undergoing Feed Transition or Challenged With <i>Escherichia coli</i> Lipopolysaccharide. <i>Frontiers in Microbiology</i> , 2021, 12, 693839.	1.5	6
75	Effects of Dietary Tea Powder on the Growth Performance, Carcass Traits, and Meat Quality of Tibetan Pig Æ— Bama Miniature Pigs. <i>Animals</i> , 2021, 11, 3225.	1.0	6
76	Dietary addition of fermented sorghum distillerâ€™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.	0.5	6
77	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. <i>Frontiers in Nutrition</i> , 2022, 9, 857393.	1.6	6
78	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.	1.6	5
79	Effects of Different Supplemental Levels of <i>Eucommia ulmoides</i> Leaf Extract in the Diet on Carcass Traits and Lipid Metabolism in Growingâ€™Finishing Pigs. <i>Frontiers in Veterinary Science</i> , 2021, 8, 828165.	0.9	5
80	Effects of Dietary Chlorogenic Acid Supplementation Derived from <i>Lonicera macranthoides</i> 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, 1-14.	1.9	4
81	Dietary Beta-Hydroxy Beta-Methyl Butyrate Supplementation Alleviates Liver Injury in Lipopolysaccharide-Challenged Piglets. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-9.	1.9	3
82	Suppression of protein degradation by leucine requires its conversion to Î²-hydroxy-Î²-methyl butyrate in C2C12 myotubes. <i>Aging</i> , 2019, 11, 11922-11936.	1.4	3
83	Potential nutritional healthy-aging strategy: enhanced protein metabolism by balancing branched-chain amino acids in a finishing pig model. <i>Food and Function</i> , 2022, 13, 6217-6232.	2.1	2
84	Effectiveness and safety evaluation of graded levels of N-carbamylglutamate in growing-finishing pigs. <i>Animal Nutrition</i> , 2022, 10, 412-418.	2.1	2
85	Is Leucine Restriction/Deprivation an Inducer of Adipose Browning? A Response to Jens Lund. <i>Trends in Pharmacological Sciences</i> , 2016, 37, 807-808.	4.0	1
86	PSIII-11 Effect of dietary lactic acid bacteria level on reproductive performance and plasma indices in lactating sows. <i>Journal of Animal Science</i> , 2019, 97, 187-188.	0.2	0
87	Proteomic Analysis Reveals Crossâ€™Talk of Adipocytes and Myotubes in Coâ€™Culture. <i>FASEB Journal</i> , 2015, 29, 742.5.	0.2	0