

# Gang Jia

## List of Publications by Year in descending order

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96  
papers

1,350  
citations

331670

21  
h-index

526287

27  
g-index

96  
all docs

96  
docs citations

96  
times ranked

1366  
citing authors

#	ARTICLE	IF	CITATIONS
1	Arginine promotes skeletal muscle fiber type transformation from fast-twitch to slow-twitch via Sirt1/AMPK pathway. <i>Journal of Nutritional Biochemistry</i> , 2018, 61, 155-162.	4.2	65
2	Arginine, N -carbamyglutamate, and glutamine exert protective effects against oxidative stress in rat intestine. <i>Animal Nutrition</i> , 2016, 2, 242-248.	5.1	41
3	Effects of spermine on the morphology, digestive enzyme activities, and antioxidant status of jejunum in suckling rats. <i>RSC Advances</i> , 2015, 5, 76607-76614.	3.6	39
4	Pancreatic atrophy caused by dietary selenium deficiency induces hypoinsulinemic hyperglycemia via global down-regulation of selenoprotein encoding genes in broilers. <i>PLoS ONE</i> , 2017, 12, e0182079.	2.5	36
5	New insights into the role of spermine in enhancing the antioxidant capacity of rat spleen and liver under oxidative stress. <i>Animal Nutrition</i> , 2017, 3, 85-90.	5.1	33
6	The protective effect of selenium from heat stress-induced porcine small intestinal epithelial cell line (IPEC-J2) injury is associated with regulation expression of selenoproteins. <i>British Journal of Nutrition</i> , 2019, 122, 1081-1090.	2.3	32
7	Changes in the metabolome of rats after exposure to arginine and N-carbamyglutamate in combination with diquat, a compound that causes oxidative stress, assessed by <sup>1</sup> H NMR spectroscopy. <i>Food and Function</i> , 2016, 7, 964-974.	4.6	31
8	Quercetin regulates skeletal muscle fiber type switching <i>via</i> adiponectin signaling. <i>Food and Function</i> , 2021, 12, 2693-2702.	4.6	31
9	Anti-fatigue effect of quercetin on enhancing muscle function and antioxidant capacity. <i>Journal of Food Biochemistry</i> , 2021, 45, e13968.	2.9	31
10	Microbiome of Total Versus Live Bacteria in the Gut of Rex Rabbits. <i>Frontiers in Microbiology</i> , 2018, 9, 733.	3.5	30
11	Spermine: new insights into the intestinal development and serum antioxidant status of suckling piglets. <i>RSC Advances</i> , 2016, 6, 31323-31335.	3.6	29
12	Arginine Promotes Slow Myosin Heavy Chain Expression via Akirin2 and the AMP-Activated Protein Kinase Signaling Pathway in Porcine Skeletal Muscle Satellite Cells. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 4734-4740.	5.2	29
13	Damage to the myogenic differentiation of C2C12 cells by heat stress is associated with up-regulation of several selenoproteins. <i>Scientific Reports</i> , 2018, 8, 10601.	3.3	25
14	Effect of Zinc Supplementation on Growth Performance, Intestinal Development, and Intestinal Barrier-Related Gene Expression in Pekin Ducks. <i>Biological Trace Element Research</i> , 2018, 183, 351-360.	3.5	24
15	The Effects of Glucagon-like Peptide-2 on the Tight Junction and Barrier Function in IPEC-J2 Cells through Phosphatidylinositol 3-kinase-“Protein Kinase B”-Mammalian Target of Rapamycin Signaling Pathway. <i>Asian-Australasian Journal of Animal Sciences</i> , 2016, 29, 731-738.	2.4	23
16	FTO Promotes Adipogenesis through Inhibition of the Wnt/ $\beta$ -catenin Signaling Pathway in Porcine Intramuscular Preadipocytes. <i>Animal Biotechnology</i> , 2017, 28, 268-274.	1.5	23
17	Effects of dietary leucine on antioxidant activity and expression of antioxidant and mitochondrial-related genes in longissimus dorsimuscle and liver of piglets. <i>Animal Science Journal</i> , 2019, 90, 990-998.	1.4	23
18	Leucine regulates slow-twitch muscle fibers expression and mitochondrial function by Sirt1/AMPK signaling in porcine skeletal muscle satellite cells. <i>Animal Science Journal</i> , 2019, 90, 255-263.	1.4	23

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19	Supranutritional dietary selenium induced hyperinsulinemia and dyslipidemia via affected expression of selenoprotein genes and insulin signal-related genes in broiler. <i>RSC Advances</i> , 2016, 6, 84990-84998.	3.6	22
20	Akirin2 regulates proliferation and differentiation of porcine skeletal muscle satellite cells via ERK1/2 and NFATc1 signaling pathways. <i>Scientific Reports</i> , 2017, 7, 45156.	3.3	22
21	Calcium-sensing receptor in nutrient sensing: an insight into the modulation of intestinal homeostasis. <i>British Journal of Nutrition</i> , 2018, 120, 881-890.	2.3	22
22	Role of Akirin in Skeletal Myogenesis. <i>International Journal of Molecular Sciences</i> , 2013, 14, 3817-3823.	4.1	21
23	Pea Fiber and Wheat Bran Fiber Show Distinct Metabolic Profiles in Rats as Investigated by a <sup>1</sup> H NMR-Based Metabolomic Approach. <i>PLoS ONE</i> , 2014, 9, e115561.	2.5	21
24	Effect of Glucagon-like Peptide 2 on Tight Junction in Jejunal Epithelium of Weaned Pigs through MAPK Signaling Pathway. <i>Asian-Australasian Journal of Animal Sciences</i> , 2014, 27, 733-742.	2.4	20
25	Expression of Selenoprotein Genes Is Affected by Heat Stress in IPEC-J2 Cells. <i>Biological Trace Element Research</i> , 2016, 172, 354-360.	3.5	20
26	Effects of Dietary Zinc on Carcass Traits, Meat Quality, Antioxidant Status, and Tissue Zinc Accumulation of Pekin Ducks. <i>Biological Trace Element Research</i> , 2019, 190, 187-196.	3.5	20
27	Tryptophan Ameliorates Barrier Integrity and Alleviates the Inflammatory Response to Enterotoxigenic <i>Escherichia coli</i> K88 Through the CaSR/Rac1/PLC- $\beta$ 1 Signaling Pathway in Porcine Intestinal Epithelial Cells. <i>Frontiers in Immunology</i> , 2021, 12, 748497.	4.8	20
28	Effects of dietary fiber on the antioxidant capacity, immune status, and antioxidant-related signaling molecular gene expression in rat organs. <i>RSC Advances</i> , 2017, 7, 19611-19620.	3.6	19
29	Systemic responses of weaned rats to spermine against oxidative stress revealed by a metabolomic strategy. <i>RSC Advances</i> , 2014, 4, 56766-56778.	3.6	18
30	Nutrimetabolomic analysis provides new insights into spermine-induced ileum-system alterations for suckling rats. <i>RSC Advances</i> , 2015, 5, 48769-48778.	3.6	18
31	Glucagon-like peptide 2 attenuates intestinal mucosal barrier injury through the MLCK/pMLC signaling pathway in a piglet model. <i>Journal of Cellular Physiology</i> , 2021, 236, 3015-3032.	4.1	18
32	Molecular Cloning, Tissue Distribution, and Functional Analysis of Porcine Akirin2. <i>Animal Biotechnology</i> , 2012, 23, 124-131.	1.5	17
33	Metabolomic Strategy for the Detection of Metabolic Effects of Spermine Supplementation in Weaned Rats. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 9035-9042.	5.2	17
34	Tissue Distribution of Porcine FTO and Its Effect on Porcine Intramuscular Preadipocytes Proliferation and Differentiation. <i>PLoS ONE</i> , 2016, 11, e0151056.	2.5	17
35	Selenium exerts protective effects against heat stress-induced barrier disruption and inflammation response in jejunum of growing pigs. <i>Journal of the Science of Food and Agriculture</i> , 2022, 102, 496-504.	3.5	17
36	Hydroxy Selenomethionine Improves Meat Quality through Optimal Skeletal Metabolism and Functions of Selenoproteins of Pigs under Chronic Heat Stress. <i>Antioxidants</i> , 2021, 10, 1558.	5.1	17

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37	Expression and purification of porcine Akirin2 in Escherichia coli. Turkish Journal of Biology, 2014, 38, 339-345.	0.8	16
38	New insights into the role of dietary spermine on inflammation, immune function and related-signalling molecules in the thymus and spleen of piglets. Archives of Animal Nutrition, 2017, 71, 175-191.	1.8	16
39	Selenium Pretreatment Alleviated LPS-Induced Immunological Stress Via Upregulation of Several Selenoprotein Encoding Genes in Murine RAW264.7 Cells. Biological Trace Element Research, 2018, 186, 505-513.	3.5	15
40	Roles of dietary supplementation with arginine or N-carbamylglutamate in modulating the inflammation, antioxidant property, and mRNA expression of antioxidant-related signaling molecules in the spleen of rats under oxidative stress. Animal Nutrition, 2018, 4, 322-328.	5.1	15
41	Naringin induces skeletal muscle fiber type transformation via AMPK/PGC-1 $\alpha$ signaling pathway in mice and C2C12 myotubes. Nutrition Research, 2021, 92, 99-108.	2.9	15
42	Effect of zinc supplementation on growth performance, intestinal development, and intestinal barrier function in Pekin ducks with lipopolysaccharide challenge. Poultry Science, 2021, 100, 101462.	3.4	15
43	Selenoprotein X Gene Knockdown Aggravated H <sub>2</sub> O <sub>2</sub> -Induced Apoptosis in Liver LO2 Cells. Biological Trace Element Research, 2016, 173, 71-78.	3.5	14
44	Characterization of bioactive recombinant antimicrobial peptide parasin I fused with human lysozyme expressed in the yeast Pichia pastoris system. Enzyme and Microbial Technology, 2015, 77, 61-67.	3.2	13
45	Effects of spermine supplementation on the morphology, digestive enzyme activities, and antioxidant capacity of intestine in weaning rats. Animal Nutrition, 2016, 2, 370-375.	5.1	13
46	Protective Effect of Selenoprotein X Against Oxidative Stress-Induced Cell Apoptosis in Human Hepatocyte (LO2) Cells via the p38 Pathway. Biological Trace Element Research, 2018, 181, 44-53.	3.5	13
47	Tryptophan improves porcine intestinal epithelial cell restitution through the CaSR/Rac1/PLC- $\beta$ 1 signaling pathway. Food and Function, 2021, 12, 8787-8799.	4.6	13
48	Effect of dietary L-theanine supplementation on skeletal muscle fiber type transformation in vivo. Journal of Nutritional Biochemistry, 2022, 99, 108859.	4.2	13
49	Dietary Tryptophan Supplementation Improves Antioxidant Status and Alleviates Inflammation, Endoplasmic Reticulum Stress, Apoptosis, and Pyroptosis in the Intestine of Piglets after Lipopolysaccharide Challenge. Antioxidants, 2022, 11, 872.	5.1	12
50	Supranutritional dietary selenium depressed expression of selenoprotein genes in three immune organs of broilers. Animal Science Journal, 2017, 88, 331-338.	1.4	11
51	Effects of fatty acid transport protein 1 on proliferation and differentiation of porcine intramuscular preadipocytes. Animal Science Journal, 2017, 88, 731-738.	1.4	11
52	Selenium alleviates the negative effect of heat stress on myogenic differentiation of C2C12 cells with the response of selenogenome. Journal of Thermal Biology, 2021, 97, 102874.	2.5	11
53	Effect of manganese supplementation on the carcass traits, meat quality, intramuscular fat, and tissue manganese accumulation of Pekin duck. Poultry Science, 2021, 100, 101064.	3.4	11
54	Determination of Characteristic Wave Bands and Detection of Melamine in Fishmeal by Fourier Transform near Infrared Spectroscopy. Journal of Near Infrared Spectroscopy, 2010, 18, 113-120.	1.5	10

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55	Effect of Porcine Akirin2 on Skeletal Myosin Heavy Chain Isoform Expression. <i>International Journal of Molecular Sciences</i> , 2015, 16, 3996-4006.	4.1	10
56	Urinary Metabolomic Approach Provides New Insights into Distinct Metabolic Profiles of Glutamine and N-Carbamylglutamate Supplementation in Rats. <i>Nutrients</i> , 2016, 8, 478.	4.1	10
57	The prolonged effect of glucagon-like peptide 2 pretreatment on growth performance and intestinal development of weaned piglets. <i>Journal of Animal Science and Biotechnology</i> , 2016, 7, 28.	5.3	10
58	Role of Phosphotyrosine Interaction Domain Containing 1 in Porcine Intramuscular Preadipocyte Proliferation and Differentiation. <i>Animal Biotechnology</i> , 2016, 27, 287-294.	1.5	9
59	The Hepatoprotective Effects of Zinc Glycine on Liver Injury in Meat Duck Through Alleviating Hepatic Lipid Deposition and Inflammation. <i>Biological Trace Element Research</i> , 2020, 195, 569-578.	3.5	9
60	Selenogenome and AMPK signal insight into the protective effect of dietary selenium on chronic heat stress-induced hepatic metabolic disorder in growing pigs. <i>Journal of Animal Science and Biotechnology</i> , 2021, 12, 68.	5.3	9
61	Studies on the Fatty Liver Diseases of <i>Sciaenops ocellatus</i> Caused by Different Ether Extract Levels in Diets. <i>Frontiers of Biology in China: Selected Publications From Chinese Universities</i> , 2006, 1, 9-12.	0.2	8
62	Porcine phosphotyrosine interaction domain containing 1 modulates 3T3-L1 preadipocyte proliferation and differentiation. <i>Biologia (Poland)</i> , 2013, 68, 1010-1014.	1.5	8
63	Arginine: New Insights into Growth Performance and Urinary Metabolomic Profiles of Rats. <i>Molecules</i> , 2016, 21, 1142.	3.8	8
64	The effect of arginine on the Wnt/ $\beta$ -catenin signaling pathway during porcine intramuscular preadipocyte differentiation. <i>Food and Function</i> , 2017, 8, 381-386.	4.6	8
65	Effect of dietary licorice flavonoids powder on performance, intestinal immunity and health of weaned piglets. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2023, 107, 147-156.	2.2	8
66	Effects of glutamine against oxidative stress in the metabolome of rats—new insight. <i>RSC Advances</i> , 2016, 6, 74515-74524.	3.6	7
67	Zinc Methionine Improves the Growth Performance of Meat Ducks by Enhancing the Antioxidant Capacity and Intestinal Barrier Function. <i>Frontiers in Veterinary Science</i> , 2022, 9, 774160.	2.2	7
68	Hydroxy Selenomethionine Alleviates Hepatic Lipid Metabolism Disorder of Pigs Induced by Dietary Oxidative Stress via Relieving the Endoplasmic Reticulum Stress. <i>Antioxidants</i> , 2022, 11, 552.	5.1	7
69	Partial Optimization of the 5-Terminal Codon Increased a Recombination Porcine Pancreatic Lipase (opPPL) Expression in <i>Pichia pastoris</i> . <i>PLoS ONE</i> , 2014, 9, e114385.	2.5	6
70	Effects of Drinking Water Temperature and Flow Rate during Cold Season on Growth Performance, Nutrient Digestibility and Cecum Microflora of Weaned Piglets. <i>Animals</i> , 2020, 10, 1048.	2.3	6
71	Effects of apple polyphenols on myofiber-type transformation in <i>longissimus dorsi</i> muscle of finishing pigs. <i>Animal Biotechnology</i> , 2021, 32, 246-253.	1.5	6
72	STIM1 promotes IPEC-J2 porcine epithelial cell restitution by TRPC1 signaling. <i>Animal Biotechnology</i> , 2022, 33, 1492-1503.	1.5	6

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73	The Effect of Glycyl-Glutamine Dipeptide Concentration on Enzyme Activity, Cell Proliferation and Apoptosis of Jejunal Tissues from Weaned Piglets. <i>Agricultural Sciences in China</i> , 2011, 10, 1088-1095.	0.6	5
74	Effects of Active Immunization Against Akirin2 on Muscle Fiber-type Composition in Pigs. <i>Animal Biotechnology</i> , 2019, 30, 1-6.	1.5	5
75	Evaluating zinc glycine chelate in Cherry Valley Ducks: Responses of growth performance, nutrient utilization, serum parameters, antioxidant status, meat quality and zinc accumulation. <i>Animal Feed Science and Technology</i> , 2021, 275, 114875.	2.2	5
76	Prokaryotic expression and characterization of a keratinolytic protease from <i>Aspergillus niger</i> . <i>Biologia (Poland)</i> , 2015, 70, 157-164.	1.5	4
77	Digestive abilities, amino acid transporter expression, and metabolism in the intestines of piglets fed with spermine. <i>Journal of Food Biochemistry</i> , 2020, 44, e13167.	2.9	4
78	Effect of Dietary Zinc Methionine Supplementation on Growth Performance, Immune Function and Intestinal Health of Cherry Valley Ducks Challenged With Avian Pathogenic <i>Escherichia coli</i> . <i>Frontiers in Microbiology</i> , 2022, 13, .	3.5	4
79	Arginine induces skeletal muscle fiber type conversion by upregulating Akirin2 and AMPK/PGC-1 $\alpha$ in mice. <i>Biologia (Poland)</i> , 2019, 74, 709-715.	1.5	3
80	Leucine regulates porcine muscle fiber type transformation via adiponectin signaling pathway. <i>Animal Biotechnology</i> , 2022, 33, 330-338.	1.5	3
81	Effects of dietary spermine supplementation on cell cycle, apoptosis, and amino acid transporters of the thymus and spleen in piglets. <i>Asian-Australasian Journal of Animal Sciences</i> , 2018, 31, 1325-1335.	2.4	3
82	Spermine protects intestinal barrier integrity through ras-related C3 botulinum toxin substrate 1/phospholipase C- $\beta$ 1 signaling pathway in piglets. <i>Animal Nutrition</i> , 2022, 8, 135-143.	5.1	3
83	Calcium-sensing receptor protects intestinal integrity and alleviates the inflammatory response via the Rac1/PLC $\beta$ 1 signaling pathway. <i>Animal Biotechnology</i> , 2023, 34, 805-818.	1.5	3
84	L-theanine induces skeletal muscle fiber type transformation by activation of prox1/CaN signaling pathway in C2C12 myotubes. <i>Biological Chemistry</i> , 2022, 403, 959-967.	2.5	3
85	Effects of sacchariterpenin on antioxidant status and urinary metabolic profile of rats. <i>Animal Nutrition</i> , 2019, 5, 191-195.	5.1	2
86	Rapid detoxification of <i>Jatropha curcas</i> cake by fermentation with a combination of three microbial strains and characterization of their metabolic profiles. <i>Journal of Applied Microbiology</i> , 2022, 133, 743-757.	3.1	2
87	Effect of dietary L-theanine supplementation on skeletal muscle fiber type transformation in weaning piglets. <i>Animal Biotechnology</i> , 0, , 1-9.	1.5	2
88	Role of FIT2 in porcine intramuscular preadipocyte differentiation. <i>Biologia (Poland)</i> , 2016, 71, 1404-1409.	1.5	1
89	Codon optimization of <i>Aspergillus niger</i> feruloyl esterase and its expression in <i>Pichia pastoris</i> . <i>Biologia (Poland)</i> , 2016, 71, 626-631.	1.5	1
90	Effects of spermine on liver barrier function, amino acid transporters, immune status, and apoptosis in piglets. <i>RSC Advances</i> , 2019, 9, 11054-11062.	3.6	1

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91	Effect of Iron Supplementation on Growth Performance, Hematological Parameters, Nutrient Utilization, Organ Development, and Fe-Containing Enzyme Activity in Pekin Ducks. <i>Biological Trace Element Research</i> , 2019, 189, 538-547.	3.5	1
92	Effects of spermine on the proliferation and migration of porcine intestinal epithelial cells. <i>Animal Biotechnology</i> , 2021, , 1-8.	1.5	1
93	Modeling net energy requirements of 2 to 3-week-old Cherry Valley ducks. <i>Asian-Australasian Journal of Animal Sciences</i> , 2020, 33, 1624-1632.	2.4	1
94	Feasibility Study of Discriminating and Quantifying Low Levels of Melamine Contamination in Fishmeal by Fourier Transform near Infrared Spectroscopy. <i>Applied Mechanics and Materials</i> , 0, 239-240, 181-192.	0.2	0
95	Effect of calcium-sensing receptor on the migration and proliferation of porcine intestinal epithelial cells. <i>Animal Biotechnology</i> , 2021, , 1-10.	1.5	0
96	Effect of dietary leucine supplementation on skeletal muscle fiber type transformation in weaning piglets. <i>Animal Biotechnology</i> , 2021, , 1-9.	1.5	0