

# Hua Zhao

## List of Publications by Year in descending order

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98  
papers

1,805  
citations

304701

22  
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345203

36  
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101  
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101  
docs citations

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times ranked

1628  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Leucine regulates porcine muscle fiber type transformation via adiponectin signaling pathway. <i>Animal Biotechnology</i> , 2022, 33, 330-338.	1.5	3
4	STIM1 promotes IPEC-J2 porcine epithelial cell restitution by TRPC1 signaling. <i>Animal Biotechnology</i> , 2022, 33, 1492-1503.	1.5	6
5	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
6	Effect of dietary L-theanine supplementation on skeletal muscle fiber type transformation in vivo. <i>Journal of Nutritional Biochemistry</i> , 2022, 99, 108859.	4.2	13
7	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
8	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
9	Dietary Tryptophan Supplementation Improves Antioxidant Status and Alleviates Inflammation, Endoplasmic Reticulum Stress, Apoptosis, and Pyroptosis in the Intestine of Piglets after Lipopolysaccharide Challenge. <i>Antioxidants</i> , 2022, 11, 872.	5.1	12
10	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
11	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
12	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
13	Quercetin regulates skeletal muscle fiber type switching via adiponectin signaling. <i>Food and Function</i> , 2021, 12, 2693-2702.	4.6	31
14	Tryptophan improves porcine intestinal epithelial cell restitution through the CaSR/Rac1/PLC $\beta$ 1 signaling pathway. <i>Food and Function</i> , 2021, 12, 8787-8799.	4.6	13
15	Selenium alleviates the negative effect of heat stress on myogenic differentiation of C2C12 cells with the response of selenogenome. <i>Journal of Thermal Biology</i> , 2021, 97, 102874.	2.5	11
16	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
17	Spermidine at supraphysiological doses induces oxidative stress and granulosa cell apoptosis in mouse ovaries. <i>Theriogenology</i> , 2021, 168, 25-32.	2.1	9
18	Effects of spermine on the proliferation and migration of porcine intestinal epithelial cells. <i>Animal Biotechnology</i> , 2021, , 1-8.	1.5	1

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19	Effects of ODC on polyamine metabolism, hormone levels, cell proliferation and apoptosis in goose ovarian granulosa cells. <i>Poultry Science</i> , 2021, 100, 101226.	3.4	11
20	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
21	Naringin induces skeletal muscle fiber type transformation via AMPK/PGC-1 $\beta$ signaling pathway in mice and C2C12 myotubes. <i>Nutrition Research</i> , 2021, 92, 99-108.	2.9	15
22	Effect of dietary leucine supplementation on skeletal muscle fiber type transformation in weaning piglets. <i>Animal Biotechnology</i> , 2021, , 1-9.	1.5	0
23	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
24	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
25	Anti-fatigue effect of quercetin on enhancing muscle function and antioxidant capacity. <i>Journal of Food Biochemistry</i> , 2021, 45, e13968.	2.9	31
26	Effects of spermine on ileal physical barrier, antioxidant capacity, metabolic profile and large intestinal bacteria in piglets. <i>RSC Advances</i> , 2020, 10, 26709-26716.	3.6	9
27	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
28	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
29	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
30	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
31	Effects of dietary leucine on antioxidant activity and expression of antioxidant and mitochondrial-related genes in longissimus dorsi muscle and liver of piglets. <i>Animal Science Journal</i> , 2019, 90, 990-998.	1.4	23
32	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
33	Arginine induces skeletal muscle fiber type conversion by upregulating Akt1 and AMPK/PGC-1 $\beta$ in mice. <i>Biologia (Poland)</i> , 2019, 74, 709-715.	1.5	3
34	The hydroxy-analogue of selenomethionine alleviated lipopolysaccharide-induced inflammatory responses is associated with recover expression of several selenoprotein encoding genes in the spleens of Kunming mice. <i>RSC Advances</i> , 2019, 9, 40462-40470.	3.6	13
35	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
36	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

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37	Effects of sacchariterpenin on antioxidant status and urinary metabolic profile of rats. <i>Animal Nutrition</i> , 2019, 5, 191-195.	5.1	2
38	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
39	Effects of Active Immunization Against Akirin2 on Muscle Fiber-type Composition in Pigs. <i>Animal Biotechnology</i> , 2019, 30, 1-6.	1.5	5
40	Cloning, expression, and characterization of a porcine pancreatic $\alpha$ -amylase in <i>Pichia pastoris</i> . <i>Animal Nutrition</i> , 2018, 4, 234-240.	5.1	5
41	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
42	Selenium Pretreatment Alleviated LPS-Induced Immunological Stress Via Upregulation of Several Selenoprotein Encoding Genes in Murine RAW264.7 Cells. <i>Biological Trace Element Research</i> , 2018, 186, 505-513.	3.5	15
43	Roles of dietary supplementation with arginine or N-carbamylglutamate in modulating the inflammation, antioxidant property, and mRNA expression of antioxidant-relative signaling molecules in the spleen of rats under oxidative stress. <i>Animal Nutrition</i> , 2018, 4, 322-328.	5.1	15
44	Protective Effect of Selenoprotein X Against Oxidative Stress-Induced Cell Apoptosis in Human Hepatocyte (LO2) Cells via the p38 Pathway. <i>Biological Trace Element Research</i> , 2018, 181, 44-53.	3.5	13
45	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
46	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
47	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
48	Calcium-sensing receptor in nutrient sensing: an insight into the modulation of intestinal homoeostasis. <i>British Journal of Nutrition</i> , 2018, 120, 881-890.	2.3	22
49	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
50	Supranutritional dietary selenium depressed expression of selenoprotein genes in three immune organs of broilers. <i>Animal Science Journal</i> , 2017, 88, 331-338.	1.4	11
51	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
52	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
53	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
54	New insights into the role of dietary spermine on inflammation, immune function and related-signalling molecules in the thymus and spleen of piglets. <i>Archives of Animal Nutrition</i> , 2017, 71, 175-191.	1.8	16

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55	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
56	Effects of dietary fiber on the antioxidant capacity, immune status, and antioxidant-relative signaling molecular gene expression in rat organs. <i>RSC Advances</i> , 2017, 7, 19611-19620.	3.6	19
57	Effects of fatty acid transport protein 1 on proliferation and differentiation of porcine intramuscular preadipocytes. <i>Animal Science Journal</i> , 2017, 88, 731-738.	1.4	11
58	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
59	Akirin2 promotes slow myosin heavy chain expression by CaN/NFATc1 signaling in porcine skeletal muscle satellite cells. <i>Oncotarget</i> , 2017, 8, 25158-25166.	1.8	5
60	The Effects of Glucagon-like Peptide-2 on the Tight Junction and Barrier Function in IPEC-J2 Cells through Phosphatidylinositol 3-kinase-Protein Kinase Mammalian Target of Rapamycin Signaling Pathway. <i>Asian-Australasian Journal of Animal Sciences</i> , 2016, 29, 731-738.	2.4	23
61	Arginine: New Insights into Growth Performance and Urinary Metabolomic Profiles of Rats. <i>Molecules</i> , 2016, 21, 1142.	3.8	8
62	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
63	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
64	Role of FIT2 in porcine intramuscular preadipocyte differentiation. <i>Biologia (Poland)</i> , 2016, 71, 1404-1409.	1.5	1
65	Arginine, N -carbamylglutamate, and glutamine exert protective effects against oxidative stress in rat intestine. <i>Animal Nutrition</i> , 2016, 2, 242-248.	5.1	41
66	Effects of spermine supplementation on the morphology, digestive enzyme activities, and antioxidant capacity of intestine in weaning rats. <i>Animal Nutrition</i> , 2016, 2, 370-375.	5.1	13
67	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
68	Effects of glutamine against oxidative stress in the metabolome of rats new insight. <i>RSC Advances</i> , 2016, 6, 74515-74524.	3.6	7
69	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
70	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
71	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
72	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

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73	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
74	Selenoprotein X Gene Knockdown Aggravated H <sub>2</sub> O <sub>2</sub> -Induced Apoptosis in Liver LO <sub>2</sub> Cells. <i>Biological Trace Element Research</i> , 2016, 173, 71-78.	3.5	14
75	Changes in the metabolome of rats after exposure to arginine and N-carbamylglutamate 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
76	Expression of Selenoprotein Genes Is Affected by Obesity of Pigs Fed a High-Fat Diet. <i>Journal of Nutrition</i> , 2015, 145, 1394-1401.	2.9	61
77	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
78	Characterization of bioactive recombinant antimicrobial peptide parasin I fused with human lysozyme expressed in the yeast <i>Pichia pastoris</i> system. <i>Enzyme and Microbial Technology</i> , 2015, 77, 61-67.	3.2	13
79	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
80	Selenoprotein Genes Exhibit Differential Expression Patterns Between Hepatoma HepG2 and Normal Hepatocytes LO <sub>2</sub> Cell Lines. <i>Biological Trace Element Research</i> , 2015, 167, 236-241.	3.5	12
81	Prokaryotic expression and characterization of a keratinolytic protease from <i>Aspergillus niger</i> . <i>Biologia (Poland)</i> , 2015, 70, 157-164.	1.5	4
82	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
83	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
84	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
85	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
86	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
87	Porcine phosphotyrosine interaction domain containing 1 modulates 3T3-L1 preadipocyte proliferation and differentiation. <i>Biologia (Poland)</i> , 2013, 68, 1010-1014.	1.5	8
88	Porcine Serum Can Be Biofortified with Selenium to Inhibit Proliferation of Three Types of Human Cancer Cells. <i>Journal of Nutrition</i> , 2013, 143, 1115-1122.	2.9	28
89	Prolonged Dietary Selenium Deficiency or Excess Does Not Globally Affect Selenoprotein Gene Expression and/or Protein Production in Various Tissues of Pigs. <i>Journal of Nutrition</i> , 2012, 142, 1410-1416.	2.9	104
90	A high-selenium diet induces insulin resistance in gestating rats and their offspring. <i>Free Radical Biology and Medicine</i> , 2012, 52, 1335-1342.	2.9	106

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91	Association of selenoprotein gene expression with pancreatic atrophy in broiler chicks. FASEB Journal, 2012, 26, 241.8.	0.5	0
92	Enhanced water-holding capacity of meat was associated with increased Sepw1 gene expression in pigs fed selenium-enriched yeast. Meat Science, 2011, 87, 95-100.	5.5	55
93	Molecular cloning, chromosomal localization and expression profiling of porcine selenoprotein M gene. Genes and Genomics, 2011, 33, 529-534.	1.4	10
94	The Selenium Deficiency Disease Exudative Diathesis in Chicks Is Associated with Downregulation of Seven Common Selenoprotein Genes in Liver and Muscle. Journal of Nutrition, 2011, 141, 1605-1610.	2.9	109
95	Differentially Expressed Genes in Subcutaneous Fat Tissue in an Obese Pig Model Induced by a High-Fat Diet. Journal of Animal and Veterinary Advances, 2011, 10, 1804-1810.	0.1	3
96	Effects of dietary Se deficiency or excess on gene expression of 13 novel selenoproteins in growing pigs. FASEB Journal, 2010, 24, 916.2.	0.5	0
97	Selenoprotein Gene Expression in Thyroid and Pituitary of Young Pigs Is Not Affected by Dietary Selenium Deficiency or Excess. Journal of Nutrition, 2009, 139, 1061-1066.	2.9	97
98	Effect of dietary L-theanine supplementation on skeletal muscle fiber type transformation in weaning piglets. Animal Biotechnology, 0, , 1-9.	1.5	2