Xiao Xu

List of Publications by Year in descending order

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79 papers	2,401 citations	186265 28 h-index	223800 46 g-index
79 all docs	79 docs citations	79 times ranked	2668 citing authors

#	Article	IF	Citations
1	Fish Oil Enhances Intestinal Integrity and Inhibits TLR4 and NOD2 Signaling Pathways in Weaned Pigs after LPS Challenge3. Journal of Nutrition, 2012, 142, 2017-2024.	2.9	218
2	Dietary arginine supplementation alleviates intestinal mucosal disruption induced by Escherichia coli lipopolysaccharide in weaned pigs. British Journal of Nutrition, 2008, 100, 552-560.	2.3	210
3	Fatty acids, inflammation and intestinal health in pigs. Journal of Animal Science and Biotechnology, 2015, 6, 41.	5.3	119
4	Therapeutic Potential of Amino Acids in Inflammatory Bowel Disease. Nutrients, 2017, 9, 920.	4.1	118
5	Dietary supplementation of aspartate enhances intestinal integrity and energy status in weanling piglets after lipopolysaccharide challenge. Journal of Nutritional Biochemistry, 2014, 25, 456-462.	4.2	107
6	Lentinan modulates intestinal microbiota and enhances barrier integrity in a piglet model challenged with lipopolysaccharide. Food and Function, 2019, 10, 479-489.	4.6	64
7	Dietary supplementation with tributyrin alleviates intestinal injury in piglets challenged with intrarectal administration of acetic acid. British Journal of Nutrition, 2014, 111, 1748-1758.	2.3	62
8	Asparagine attenuates intestinal injury, improves energy status and inhibits AMP-activated protein kinase signalling pathways in weaned piglets challenged withEscherichia colilipopolysaccharide. British Journal of Nutrition, 2015, 114, 553-565.	2.3	62
9	Flaxseed Oil Attenuates Intestinal Damage and Inflammation by Regulating Necroptosis and TLR4/NOD Signaling Pathways Following Lipopolysaccharide Challenge in a Piglet Model. Molecular Nutrition and Food Research, 2018, 62, e1700814.	3.3	61
10	Fish Oil Increases Muscle Protein Mass and Modulates Akt/FOXO, TLR4, and NOD Signaling in Weanling Piglets After Lipopolysaccharide Challenge1â€“3. Journal of Nutrition, 2013, 143, 1331-1339.	2.9	60
11	Roles of amino acids in preventing and treating intestinal diseases: recent studies with pig models. Amino Acids, 2017, 49, 1277-1291.	2.7	54
12	DietaryN-acetylcysteine supplementation alleviates liver injury in lipopolysaccharide-challenged piglets. British Journal of Nutrition, 2014, 111, 46-54.	2.3	51
13	Fish oil attenuates liver injury caused by LPS in weaned pigs associated with inhibition of TLR4 and nucleotide-binding oligomerization domain protein signaling pathways. Innate Immunity, 2013, 19, 504-515.	2.4	48
14	Aspartate attenuates intestinal injury and inhibits TLR4 and NODs/NF-ÎºB and p38 signaling in weaned pigs after LPS challenge. European Journal of Nutrition, 2017, 56, 1433-1443.	3.9	48
15	Aspartate alleviates liver injury and regulates mRNA expressions of TLR4 and NOD signaling-related genes in weaned pigs after lipopolysaccharide challenge. Journal of Nutritional Biochemistry, 2014, 25, 592-599.	4.2	43
16	Necroptosis is active and contributes to intestinal injury in a piglet model with lipopolysaccharide challenge. Cell Death and Disease, 2021, 12, 62.	6.3	43
17	Dietary modulation of endogenous host defense peptide synthesis as an alternative approach to in-feed antibiotics. Animal Nutrition, 2018, 4, 160-169.	5.1	41
18	EPA and DHA attenuate deoxynivalenolâ€induced intestinal porcine epithelial cell injury and protect barrier function integrity by inhibiting necroptosis signaling pathway. FASEB Journal, 2020, 34, 2483-2496.	0.5	41

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19	Asparagine improves intestinal integrity, inhibits TLR4 and NOD signaling, and differently regulates p38 and ERK1/2 signaling in weanling piglets after LPS challenge. Innate Immunity, 2016, 22, 577-587.	2.4	39
20	Glycine enhances muscle protein mass associated with maintaining Akt-mTOR-FOXO1 signaling and suppressing TLR4 and NOD2 signaling in piglets challenged with LPS. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2016, 311, R365-R373.	1.8	34
21	Activation of the NF-Î°B and MAPK Signaling Pathways Contributes to the Inflammatory Responses, but Not Cell Injury, in IPEC-1 Cells Challenged with Hydrogen Peroxide. Oxidative Medicine and Cellular Longevity, 2020, 2020, 1-14.	4.0	34
22	Forsythia suspensa extract attenuates lipopolysaccharideâ€induced inflammatory liver injury in rats via promoting antioxidant defense mechanisms. Animal Science Journal, 2017, 88, 873-881.	1.4	33
23	Glycine Relieves Intestinal Injury by Maintaining mTOR Signaling and Suppressing AMPK, TLR4, and NOD Signaling in Weaned Piglets after Lipopolysaccharide Challenge. International Journal of Molecular Sciences, 2018, 19, 1980.	4.1	33
24	Forsythia suspensa extract attenuates corticosterone-induced growth inhibition, oxidative injury, and immune depression in broilers. Poultry Science, 2014, 93, 1774-1781.	3.4	32
25	Effect of Forsythia suspensa extract and chitoâ€oligosaccharide alone or in combination on performance, intestinal barrier function, antioxidant capacity and immune characteristics of weaned piglets. Animal Science Journal, 2017, 88, 854-862.	1.4	32
26	Effects of Coated Compound Proteases on Apparent Total Tract Digestibility of Nutrients and Apparent Ileal Digestibility of Amino Acids for Pigs. Asian-Australasian Journal of Animal Sciences, 2016, 29, 1761-1767.	2.4	31
27	Holly polyphenols alleviate intestinal inflammation and alter microbiota composition in lipopolysaccharide-challenged pigs. British Journal of Nutrition, 2020, 123, 881-891.	2.3	31
28	Dietary Supplementation with Î±-Ketoglutarate Activates mTOR Signaling and Enhances Energy Status in Skeletal Muscle of Lipopolysaccharide-Challenged Piglets. Journal of Nutrition, 2016, 146, 1514-1520.	2.9	30
29	Effects of Chromium Methionine Supplementation with Different Sources of Zinc on Growth Performance, Carcass Traits, Meat Quality, Serum Metabolites, Endocrine Parameters, and the Antioxidant Status in Growing-Finishing Pigs. Biological Trace Element Research, 2017, 179, 70-78.	3.5	30
30	Medium-chain TAG improve intestinal integrity by suppressing toll-like receptor 4, nucleotide-binding oligomerisation domain proteins and necroptosis signalling in weanling piglets challenged with lipopolysaccharide. British Journal of Nutrition, 2018, 119, 1019-1028.	2.3	29
31	Glutamate alleviates intestinal injury, maintains mTOR and suppresses TLR4 and NOD signaling pathways in weanling pigs challenged with lipopolysaccharide. Scientific Reports, 2018, 8, 15124.	3.3	29
32	Xylooligosaccharide attenuates lipopolysaccharide-induced intestinal injury in piglets via suppressing inflammation and modulating cecal microbial communities. Animal Nutrition, 2021, 7, 609-620.	5.1	28
33	Super High Dosing with a Novel Buttiauxella Phytase Continuously Improves Growth Performance, Nutrient Digestibility, and Mineral Status of Weaned Pigs. Biological Trace Element Research, 2015, 168, 103-109.	3.5	27
34	Beneficial roles of dietary oleum cinnamomi in alleviating intestinal injury. Frontiers in Bioscience - Landmark, 2015, 20, 814-828.	3.0	24
35	Asparagine preserves intestinal barrier function from LPS-induced injury and regulates CRF/CRFR signaling pathway. Innate Immunity, 2017, 23, 546-556.	2.4	24
36	Necroptosis Underlies Hepatic Damage in a Piglet Model of Lipopolysaccharide-Induced Sepsis. Frontiers in Immunology, 2021, 12, 633830.	4.8	23

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37	Fish oil enhances intestinal barrier function and inhibits corticotropin-releasing hormone/corticotropin-releasing hormone receptor 1 signalling pathway in weaned pigs after lipopolysaccharide challenge. British Journal of Nutrition, 2016, 115, 1947-1957.	2.3	22
38	Medium-Chain Triglycerides Attenuate Liver Injury in Lipopolysaccharide-Challenged Pigs by Inhibiting Necroptotic and Inflammatory Signaling Pathways. International Journal of Molecular Sciences, 2018, 19, 3697.	4.1	22
39	Fish Oil Alleviates Activation of the Hypothalamic-Pituitary-Adrenal Axis Associated with Inhibition of TLR4 and NOD Signaling Pathways in Weaned Piglets after a Lipopolysaccharide Challenge. Journal of Nutrition, 2013, 143, 1799-1807.	2.9	21
40	Dietary fish oil supplementation alters liver gene expressions to protect against LPS-induced liver injury in weanling piglets. Innate Immunity, 2019, 25, 60-72.	2.4	21
41	Increased expression of the peroxisome proliferator-activated receptor Î³ in the immune system of weaned pigs after Escherichia coli lipopolysaccharide injection. Veterinary Immunology and Immunopathology, 2008, 124, 82-92.	1.2	20
42	Activation of peroxisome proliferator-activated receptor-Î³ potentiates pro-inflammatory cytokine production, and adrenal and somatotropic changes of weaned pigs after Escherichia coli lipopolysaccharide challenge. Innate Immunity, 2009, 15, 169-178.	2.4	20
43	Comparison of sprayâ€dried egg and albumen powder with conventional animal protein sources as feed ingredients in diets fed to weaned pigs. Animal Science Journal, 2015, 86, 772-781.	1.4	20
44	EPA and DHA Inhibit Myogenesis and Downregulate the Expression of Muscle-related Genes in C2C12 Myoblasts. Genes, 2019, 10, 64.	2.4	20
45	Efficient Expression of Human Lysozyme Through the Increased Gene Dosage and Co-expression of Transcription Factor Hac1p in Pichia pastoris. Current Microbiology, 2020, 77, 846-854.	2.2	19
46	Effects of the standardized ileal digestible valineÂ:Âlysine ratio on performance, milk composition and plasma indices of lactating sows. Animal Science Journal, 2017, 88, 1082-1092.	1.4	18
47	Asparagine attenuates hepatic injury caused by lipopolysaccharide in weaned piglets associated with modulation of Toll-like receptor 4 and nucleotide-binding oligomerisation domain protein signalling and their negative regulators. British Journal of Nutrition, 2015, 114, 189-201.	2.3	15
48	Glutamate alleviates muscle protein loss by modulating TLR4, NODs, Akt/FOXO and mTOR signaling pathways in LPS-challenged piglets. PLoS ONE, 2017, 12, e0182246.	2.5	13
49	The effect of dietary asparagine supplementation on energy metabolism in liver of weaning pigs when challenged with lipopolysaccharide. Asian-Australasian Journal of Animal Sciences, 2018, 31, 548-555.	2.4	13
50	Polyphenols Sourced from Ilex latifolia Thunb. Relieve Intestinal Injury via Modulating Ferroptosis in Weanling Piglets under Oxidative Stress. Antioxidants, 2022, 11, 966.	5.1	13
51	EPA and DHA confer protection against deoxynivalenol-induced endoplasmic reticulum stress and iron imbalance in IPEC-1 cells. British Journal of Nutrition, 2022, 128, 161-171.	2.3	12
52	Holly (Ilex latifolia Thunb.) Polyphenols Extracts Alleviate Hepatic Damage by Regulating Ferroptosis Following Diquat Challenge in a Piglet Model. Frontiers in Nutrition, 2020, 7, 604328.	3.7	12
53	Effects of Flavomycin, <i>Bacillus licheniformis </i>and Enramycin on Performance, Nutrient Digestibility, Gut Morphology and the Intestinal Microflora of Broilers. Journal of Poultry Science, 2016, 53, 128-135.	1.6	11
54	Effect of flaxseed oil on muscle protein loss and carbohydrate oxidation impairment in a pig model after lipopolysaccharide challenge. British Journal of Nutrition, 2020, 123, 859-869.	2.3	11

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55	Metabolic Regulation of Intestinal Stem Cell Homeostasis. Trends in Cell Biology, 2021, 31, 325-327.	7.9	11
56	Asparagine reduces the mRNA expression of muscle atrophy markers via regulating protein kinase B (Akt), AMP-activated protein kinase Î±, toll-like receptor 4 and nucleotide-binding oligomerisation domain protein signalling in weaning piglets after lipopolysaccharide challenge. British Journal of Nutrition, 2016, 116, 1188-1198.	2.3	10
57	Aspartate inhibits LPS-induced MAFbx and MuRF1 expression in skeletal muscle in weaned pigs by regulating Akt, AMPKÎ± and FOXO1. Innate Immunity, 2017, 23, 34-43.	2.4	9
58	Determination and prediction of the digestible and metabolisable energy content of barley for growing pigs based on chemical composition. Archives of Animal Nutrition, 2017, 71, 108-119.	1.8	6
59	Docosahexaenoic acid alleviates cell injury and improves barrier function by suppressing necroptosis signalling in TNF-Î±-challenged porcine intestinal epithelial cells. Innate Immunity, 2020, 26, 653-665.	2.4	6
60	Analysis of microRNA expression profiles in porcine PBMCs after LPS stimulation. Innate Immunity, 2020, 26, 435-446.	2.4	6
61	Comparative energy content and amino acid digestibility of barley obtained from diverse sources fed to growing pigs. Asian-Australasian Journal of Animal Sciences, 2017, 30, 999-1005.	2.4	6
62	Modulation of intestinal stem cell homeostasis by nutrients: a novel therapeutic option for intestinal diseases. Nutrition Research Reviews, 2022, 35, 150-158.	4.1	5
63	Long-chain PUFA ameliorate enterotoxigenic Escherichia coli-induced intestinal inflammation and cell injury by modulating pyroptosis and necroptosis signaling pathways in porcine intestinal epithelial cells. British Journal of Nutrition, 2022, 128, 835-850.	2.3	5
64	Long non-coding RNA profiling in LPS-induced intestinal inflammation model: New insight into pathogenesis. Innate Immunity, 2019, 25, 491-502.	2.4	4
65	Partial dehulling increases the energy content and nutrient digestibility of barley in growing pigs. Asian-Australasian Journal of Animal Sciences, 2017, 30, 562-568.	2.4	4
66	Glycine alleviated diquat-induced hepatic injury via inhibiting ferroptosis in weaned piglets. Animal Bioscience, 2022, 35, 938-947.	2.0	4
67	Lysine-Specific Demethylase 1 in Energy Metabolism: A Novel Target for Obesity. Journal of Nutrition, 2022, 152, 1611-1620.	2.9	4
68	Validation of metabolisable energy prediction equation for de-oiled corn distillers dried grains with solubles fed to finishing pigs. Italian Journal of Animal Science, 2016, 15, 55-61.	1.9	3
69	Apparent and standardized ileal digestibility of amino acids in diverse barley cultivars fed to growing pigs. Animal Science Journal, 2017, 88, 1994-2000.	1.4	3
70	Synthesis, Characterization of a Baicalinâ€Strontium(II) Complex and Its BSAâ€Binding Activity. ChemistrySelect, 2019, 4, 13079-13088.	1.5	3
71	Glutamate attenuates lipopolysaccharide induced intestinal barrier injury by regulating corticotropin-releasing factor pathway in weaned pigs. Animal Bioscience, 2022, 35, 1235-1249.	2.0	3
72	Developmental changes of free amino acids in amniotic, allantoic fluids and yolk of broiler embryo. British Poultry Science, 2022, 63, 857-863.	1.7	3

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73	Fermented cassava bioethanol waste as substitute of protein in diet for growth performance and carcass evaluation on meat ducks. Tropical Animal Health and Production, 2019, 51, 1049-1056.	1.4	2
74	Effect of Baicalin on Transcriptome Changes in Piglet Vascular Endothelial Cells Induced by a Combination of Glaesserella parasuis and Lipopolysaccharide. DNA and Cell Biology, 2021, 40, 776-790.	1.9	2
75	Holly polyphenols attenuate liver injury, suppression inflammation and oxidative stress in lipopolysaccharide-challenged weaned pigs. Food and Agricultural Immunology, 2022, 33, 35-46.	1.4	2
76	A Comparison of Two Supplementary Doses of Vitamin A on Performance, Intestine and Immune Organ Development, as well as Gene Expression of Inflammatory Factors in Young Hy-Line Brown Laying Pullets. Animals, 2022, 12, 1271.	2.3	2
77	Construction and analysis for dys-regulated lncRNAs and mRNAs in LPS-induced porcine PBMCs. Innate Immunity, 2021, 27, 170-183.	2.4	1
78	Effects of essential oil supplementation of a low-energy diet on performance, intestinal morphology and microflora, immune properties and antioxidant activities in weaned pigs. , 2015, 86, 279.		1
79	Templateâ€Directed Synthesis of Two Dinuclear Ni(II) Complexes together with Their Interconversion, Crystal Structures and DNAâ€Binding Studies. ChemistrySelect, 2020, 5, 14703-14712.	1.5	0