

# Guoyao Wu

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

575  
papers

42,314  
citations

102  
h-index

184  
g-index

596  
ext. papers

48,587  
ext. citations

3.9  
avg, IF

8  
L-index

#	Paper	IF	Citations
575	Glutathione metabolism and its implications for health. <i>Journal of Nutrition</i> , <b>2004</b> , 134, 489-92	4.1	2245
574	Arginine metabolism: nitric oxide and beyond. <i>Biochemical Journal</i> , <b>1998</b> , 336 ( Pt 1), 1-17	3.8	2063
573	Free radicals, antioxidants, and nutrition. <i>Nutrition</i> , <b>2002</b> , 18, 872-9	4.8	1678
572	Amino acids: metabolism, functions, and nutrition. <i>Amino Acids</i> , <b>2009</b> , 37, 1-17	3.5	1471
571	Amino acids and immune function. <i>British Journal of Nutrition</i> , <b>2007</b> , 98, 237-52	3.6	847
570	Arginine metabolism and nutrition in growth, health and disease. <i>Amino Acids</i> , <b>2009</b> , 37, 153-68	3.5	799
569	Board-invited review: intrauterine growth retardation: implications for the animal sciences. <i>Journal of Animal Science</i> , <b>2006</b> , 84, 2316-37	0.7	708
568	Maternal nutrition and fetal development. <i>Journal of Nutrition</i> , <b>2004</b> , 134, 2169-72	4.1	579
567	Intestinal mucosal amino acid catabolism. <i>Journal of Nutrition</i> , <b>1998</b> , 128, 1249-52	4.1	548
566	New developments in fish amino acid nutrition: towards functional and environmentally oriented aquafeeds. <i>Amino Acids</i> , <b>2009</b> , 37, 43-53	3.5	502
565	Regulatory role for the arginine-nitric oxide pathway in metabolism of energy substrates. <i>Journal of Nutritional Biochemistry</i> , <b>2006</b> , 17, 571-88	6.3	494
564	Functional amino acids in growth, reproduction, and health. <i>Advances in Nutrition</i> , <b>2010</b> , 1, 31-7	10	399
563	Proline and hydroxyproline metabolism: implications for animal and human nutrition. <i>Amino Acids</i> , <b>2011</b> , 40, 1053-63	3.5	367
562	Glycine metabolism in animals and humans: implications for nutrition and health. <i>Amino Acids</i> , <b>2013</b> , 45, 463-77	3.5	354
561	Amino acid metabolism in intestinal bacteria: links between gut ecology and host health. <i>Frontiers in Bioscience - Landmark</i> , <b>2011</b> , 16, 1768-86	2.8	295
560	Amino acid nutrition in animals: protein synthesis and beyond. <i>Annual Review of Animal Biosciences</i> , <b>2014</b> , 2, 387-417	13.7	277
559	Dietary L-arginine supplementation reduces fat mass in Zucker diabetic fatty rats. <i>Journal of Nutrition</i> , <b>2005</b> , 135, 714-21	4.1	262

558	Regulatory role of arginase I and II in nitric oxide, polyamine, and proline syntheses in endothelial cells. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2001</b> , 280, E75-82	6	257
557	Comparative aspects of implantation. <i>Reproduction</i> , <b>2009</b> , 138, 195-209	3.8	254
556	Dietary L-arginine supplementation increases muscle gain and reduces body fat mass in growing-finishing pigs. <i>Amino Acids</i> , <b>2009</b> , 37, 169-75	3.5	246
555	Glutamine, arginine, and leucine signaling in the intestine. <i>Amino Acids</i> , <b>2009</b> , 37, 111-22	3.5	245
554	Dietary arginine supplementation increases mTOR signaling activity in skeletal muscle of neonatal pigs. <i>Journal of Nutrition</i> , <b>2008</b> , 138, 867-72	4.1	245
553	Novel pathways for implantation and establishment and maintenance of pregnancy in mammals. <i>Molecular Human Reproduction</i> , <b>2010</b> , 16, 135-52	4.4	240
552	Dietary requirements of "nutritionally non-essential amino acids" by animals and humans. <i>Amino Acids</i> , <b>2013</b> , 44, 1107-13	3.5	239
551	The metabolic basis of arginine nutrition and pharmacotherapy. <i>Biomedicine and Pharmacotherapy</i> , <b>2002</b> , 56, 427-38	7.5	235
550	Evidence for altered placental blood flow and vascularity in compromised pregnancies. <i>Journal of Physiology</i> , <b>2006</b> , 572, 51-8	3.9	233
549	Gene expression is altered in piglet small intestine by weaning and dietary glutamine supplementation. <i>Journal of Nutrition</i> , <b>2008</b> , 138, 1025-32	4.1	232
548	Regulation of nitric oxide synthesis by dietary factors. <i>Annual Review of Nutrition</i> , <b>2002</b> , 22, 61-86	9.9	218
547	Dietary glutamine supplementation prevents jejunal atrophy in weaned pigs. <i>Journal of Nutrition</i> , <b>1996</b> , 126, 2578-84	4.1	212
546	Dietary protein intake and human health. <i>Food and Function</i> , <b>2016</b> , 7, 1251-65	6.1	208
545	Dietary L-arginine supplementation enhances the reproductive performance of gilts. <i>Journal of Nutrition</i> , <b>2007</b> , 137, 652-6	4.1	206
544	Dietary L-arginine supplementation reduces white fat gain and enhances skeletal muscle and brown fat masses in diet-induced obese rats. <i>Journal of Nutrition</i> , <b>2009</b> , 139, 230-7	4.1	201
543	Impacts of arginine nutrition on embryonic and fetal development in mammals. <i>Amino Acids</i> , <b>2013</b> , 45, 241-56	3.5	195
542	Intrauterine growth restriction affects the proteomes of the small intestine, liver, and skeletal muscle in newborn pigs. <i>Journal of Nutrition</i> , <b>2008</b> , 138, 60-6	4.1	195
541	Nutrition, epigenetics, and metabolic syndrome. <i>Antioxidants and Redox Signaling</i> , <b>2012</b> , 17, 282-301	8.4	191

540	Composition of amino acids in feed ingredients for animal diets. <i>Amino Acids</i> , <b>2011</b> , 40, 1159-68	3.5	189
539	Arginine nutrition and cardiovascular function. <i>Journal of Nutrition</i> , <b>2000</b> , 130, 2626-9	4.1	189
538	Important roles for the arginine family of amino acids in swine nutrition and production. <i>Livestock Science</i> , <b>2007</b> , 112, 8-22	1.7	187
537	Dietary arginine supplementation enhances the growth of milk-fed young pigs. <i>Journal of Nutrition</i> , <b>2004</b> , 134, 625-30	4.1	182
536	Arginine nutrition in neonatal pigs. <i>Journal of Nutrition</i> , <b>2004</b> , 134, 2783S-2790S; discussion 2796S-2797S	4.1	179
535	Free and protein-bound amino acids in sow's colostrum and milk. <i>Journal of Nutrition</i> , <b>1994</b> , 124, 415-24	4.1	178
534	Dietary requirements of synthesizable amino acids by animals: a paradigm shift in protein nutrition. <i>Journal of Animal Science and Biotechnology</i> , <b>2014</b> , 5, 34	6	175
533	Reduced serum amino acid concentrations in infants with necrotizing enterocolitis. <i>Journal of Pediatrics</i> , <b>2000</b> , 137, 785-93	3.6	174
532	Leucine nutrition in animals and humans: mTOR signaling and beyond. <i>Amino Acids</i> , <b>2011</b> , 41, 1185-93	3.5	167
531	L-Arginine stimulates proliferation and prevents endotoxin-induced death of intestinal cells. <i>Amino Acids</i> , <b>2010</b> , 38, 1227-35	3.5	165
530	Beneficial effects of L-arginine on reducing obesity: potential mechanisms and important implications for human health. <i>Amino Acids</i> , <b>2010</b> , 39, 349-57	3.5	163
529	L-Cysteine metabolism and its nutritional implications. <i>Molecular Nutrition and Food Research</i> , <b>2016</b> , 60, 134-46	5.9	161
528	Roles of dietary glycine, proline, and hydroxyproline in collagen synthesis and animal growth. <i>Amino Acids</i> , <b>2018</b> , 50, 29-38	3.5	161
527	Arginine deficiency in preterm infants: biochemical mechanisms and nutritional implications. <i>Journal of Nutritional Biochemistry</i> , <b>2004</b> , 15, 442-51	6.3	161
526	Biological mechanisms for nutritional regulation of maternal health and fetal development. <i>Paediatric and Perinatal Epidemiology</i> , <b>2012</b> , 26 Suppl 1, 4-26	2.7	159
525	Triennial Growth Symposium: important roles for L-glutamine in swine nutrition and production. <i>Journal of Animal Science</i> , <b>2011</b> , 89, 2017-30	0.7	155
524	Dietary supplementation with watermelon pomace juice enhances arginine availability and ameliorates the metabolic syndrome in Zucker diabetic fatty rats. <i>Journal of Nutrition</i> , <b>2007</b> , 137, 2680-5	4.1	153
523	Protein hydrolysates in animal nutrition: Industrial production, bioactive peptides, and functional significance. <i>Journal of Animal Science and Biotechnology</i> , <b>2017</b> , 8, 24	6	148

522	Select nutrients in the ovine uterine lumen. I. Amino acids, glucose, and ions in uterine luminal flushings of cyclic and pregnant ewes. <i>Biology of Reproduction</i> , <b>2009</b> , 80, 86-93	3.9	148
521	Endogenous synthesis of arginine plays an important role in maintaining arginine homeostasis in postweaning growing pigs. <i>Journal of Nutrition</i> , <b>1997</b> , 127, 2342-9	4.1	148
520	Supplementing L-leucine to a low-protein diet increases tissue protein synthesis in weanling pigs. <i>Amino Acids</i> , <b>2010</b> , 39, 1477-86	3.5	147
519	Interferons and progesterone for establishment and maintenance of pregnancy: interactions among novel cell signaling pathways. <i>Reproductive Biology</i> , <b>2008</b> , 8, 179-211	2.3	146
518	Proline metabolism in the conceptus: implications for fetal growth and development. <i>Amino Acids</i> , <b>2008</b> , 35, 691-702	3.5	144
517	Dietary arginine supplementation of mice alters the microbial population and activates intestinal innate immunity. <i>Journal of Nutrition</i> , <b>2014</b> , 144, 988-95	4.1	142
516	Utilization of amino acids by bacteria from the pig small intestine. <i>Amino Acids</i> , <b>2010</b> , 39, 1201-15	3.5	141
515	Impaired nitric oxide production in coronary endothelial cells of the spontaneously diabetic BB rat is due to tetrahydrobiopterin deficiency. <i>Biochemical Journal</i> , <b>2000</b> , 349, 353-356	3.8	141
514	L-Glutamine or L-alanyl-L-glutamine prevents oxidant- or endotoxin-induced death of neonatal enterocytes. <i>Amino Acids</i> , <b>2009</b> , 37, 131-42	3.5	138
513	Eph B4 receptor signaling mediates endothelial cell migration and proliferation via the phosphatidylinositol 3-kinase pathway. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 43830-5	5.4	136
512	Dietary L-arginine supplementation differentially regulates expression of lipid-metabolic genes in porcine adipose tissue and skeletal muscle. <i>Journal of Nutritional Biochemistry</i> , <b>2011</b> , 22, 441-5	6.3	134
511	Dietary essentiality of "nutritionally non-essential amino acids" for animals and humans. <i>Experimental Biology and Medicine</i> , <b>2015</b> , 240, 997-1007	3.7	133
510	Metabolomic analysis of the response of growing pigs to dietary L-arginine supplementation. <i>Amino Acids</i> , <b>2009</b> , 37, 199-208	3.5	133
509	Watermelon consumption increases plasma arginine concentrations in adults. <i>Nutrition</i> , <b>2007</b> , 23, 261-6	4.8	133
508	Arginine nutrition in development, health and disease. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , <b>2000</b> , 3, 59-66	3.8	130
507	Dietary L-arginine supplementation enhances the immune status in early-weaned piglets. <i>Amino Acids</i> , <b>2009</b> , 37, 323-31	3.5	129
506	Analysis of amino acid composition in proteins of animal tissues and foods as pre-column o-phthalaldehyde derivatives by HPLC with fluorescence detection. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2014</b> , 964, 116-27	3.2	127
505	Important roles of dietary taurine, creatine, carnosine, anserine and 4-hydroxyproline in human nutrition and health. <i>Amino Acids</i> , <b>2020</b> , 52, 329-360	3.5	125

504	Alpha-ketoglutarate inhibits glutamine degradation and enhances protein synthesis in intestinal porcine epithelial cells. <i>Amino Acids</i> , <b>2012</b> , 42, 2491-500	3.5	125
503	The role of leucine and its metabolites in protein and energy metabolism. <i>Amino Acids</i> , <b>2016</b> , 48, 41-51	3.5	124
502	Production and supply of high-quality food protein for human consumption: sustainability, challenges, and innovations. <i>Annals of the New York Academy of Sciences</i> , <b>2014</b> , 1321, 1-19	6.5	124
501	Functional Amino Acids and Fatty Acids for Enhancing Production Performance of Sows and Piglets. <i>Asian-Australasian Journal of Animal Sciences</i> , <b>2007</b> , 20, 295-306	2.4	124
500	Dietary supplementation with L-arginine or N-carbamylglutamate enhances intestinal growth and heat shock protein-70 expression in weanling pigs fed a corn- and soybean meal-based diet. <i>Amino Acids</i> , <b>2010</b> , 39, 831-9	3.5	123
499	Pharmacokinetics and safety of arginine supplementation in animals. <i>Journal of Nutrition</i> , <b>2007</b> , 137, 1673S-1680S	4.1	123
498	Glutamine and intestinal barrier function. <i>Amino Acids</i> , <b>2015</b> , 47, 2143-54	3.5	121
497	Amino acid composition of the fetal pig. <i>Journal of Nutrition</i> , <b>1999</b> , 129, 1031-8	4.1	121
496	Nitric oxide and vascular insulin resistance. <i>BioFactors</i> , <b>2009</b> , 35, 21-7	6.1	120
495	Analysis of nitrite and nitrate in biological samples using high-performance liquid chromatography. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2007</b> , 851, 71-82 <sup>3,2</sup>	3.2	119
494	Effects of ageing and exercise training on eNOS uncoupling in skeletal muscle resistance arterioles. <i>Journal of Physiology</i> , <b>2009</b> , 587, 3885-97	3.9	117
493	Amino acids and gaseous signaling. <i>Amino Acids</i> , <b>2009</b> , 37, 65-78	3.5	116
492	Maternal nutrient restriction reduces concentrations of amino acids and polyamines in ovine maternal and fetal plasma and fetal fluids. <i>Biology of Reproduction</i> , <b>2004</b> , 71, 901-8	3.9	116
491	Regulatory role for amino acids in mammary gland growth and milk synthesis. <i>Amino Acids</i> , <b>2009</b> , 37, 89-95	3.5	115
490	High fat feeding and dietary L-arginine supplementation differentially regulate gene expression in rat white adipose tissue. <i>Amino Acids</i> , <b>2009</b> , 37, 187-98	3.5	115
489	Polyamine synthesis from proline in the developing porcine placenta. <i>Biology of Reproduction</i> , <b>2005</b> , 72, 842-50	3.9	115
488	Dietary supplementation with monosodium glutamate is safe and improves growth performance in postweaning pigs. <i>Amino Acids</i> , <b>2013</b> , 44, 911-23	3.5	114
487	L-Arginine stimulates the mTOR signaling pathway and protein synthesis in porcine trophectoderm cells. <i>Journal of Nutritional Biochemistry</i> , <b>2012</b> , 23, 1178-83	6.3	114

486	Intestinal nitrogen recycling and utilization in health and disease. <i>Journal of Nutrition</i> , <b>2009</b> , 139, 821-5	4.1	114
485	Ageing diminishes endothelium-dependent vasodilatation and tetrahydrobiopterin content in rat skeletal muscle arterioles. <i>Journal of Physiology</i> , <b>2008</b> , 586, 1161-8	3.9	113
484	Rapid determination of nitrite by reversed-phase high-performance liquid chromatography with fluorescence detection. <i>Biomedical Applications</i> , <b>2000</b> , 746, 199-207		112
483	Melatonin signaling in T cells: Functions and applications. <i>Journal of Pineal Research</i> , <b>2017</b> , 62, e12394	10.4	109
482	Comparisons of treatment means when factors do not interact in two-factorial studies. <i>Amino Acids</i> , <b>2012</b> , 42, 2031-5	3.5	109
481	Protective effects of N-acetylcysteine on intestinal functions of piglets challenged with lipopolysaccharide. <i>Amino Acids</i> , <b>2012</b> , 43, 1233-42	3.5	107
480	Developmental changes of amino acids in ovine fetal fluids. <i>Biology of Reproduction</i> , <b>2003</b> , 68, 1813-20	3.9	106
479	Amino acid metabolism in intestinal bacteria and its potential implications for mammalian reproduction. <i>Molecular Human Reproduction</i> , <b>2015</b> , 21, 389-409	4.4	104
478	Serum amino acids profile and the beneficial effects of L-arginine or L-glutamine supplementation in dextran sulfate sodium colitis. <i>PLoS ONE</i> , <b>2014</b> , 9, e88335	3.7	104
477	Analysis of citrulline, arginine, and methylarginines using high-performance liquid chromatography. <i>Methods in Enzymology</i> , <b>2008</b> , 440, 177-89	1.7	103
476	Regulation of tetrahydrobiopterin synthesis and bioavailability in endothelial cells. <i>Cell Biochemistry and Biophysics</i> , <b>2004</b> , 41, 415-34	3.2	103
475	Effect of dietary arginine supplementation on reproductive performance of mice with porcine circovirus type 2 infection. <i>Amino Acids</i> , <b>2012</b> , 42, 2089-94	3.5	101
474	Dietary arginine supplementation enhances intestinal expression of SLC7A7 and SLC7A1 and ameliorates growth depression in mycotoxin-challenged pigs. <i>Amino Acids</i> , <b>2014</b> , 46, 883-92	3.5	99
473	Comparison of serum metabolite compositions between obese and lean growing pigs using an NMR-based metabonomic approach. <i>Journal of Nutritional Biochemistry</i> , <b>2012</b> , 23, 133-9	6.3	99
472	Glutamine enhances tight junction protein expression and modulates corticotropin-releasing factor signaling in the jejunum of weanling piglets. <i>Journal of Nutrition</i> , <b>2015</b> , 145, 25-31	4.1	98
471	Dietary L-arginine supplementation enhances endothelial nitric oxide synthesis in streptozotocin-induced diabetic rats. <i>Journal of Nutrition</i> , <b>2004</b> , 134, 600-8	4.1	98
470	Impaired nitric oxide production in coronary endothelial cells of the spontaneously diabetic BB rat is due to tetrahydrobiopterin deficiency. <i>Biochemical Journal</i> , <b>2000</b> , 349, 353-6	3.8	98
469	Parenteral administration of L-arginine prevents fetal growth restriction in undernourished ewes. <i>Journal of Nutrition</i> , <b>2010</b> , 140, 1242-8	4.1	97



468	Dietary alpha-ketoglutarate supplementation ameliorates intestinal injury in lipopolysaccharide-challenged piglets. <i>Amino Acids</i> , <b>2010</b> , 39, 555-64	3.5	97
467	Nitric oxide in physiologic concentrations targets the translational machinery to increase the proliferation of human breast cancer cells: involvement of mammalian target of rapamycin/eIF4E pathway. <i>Cancer Research</i> , <b>2007</b> , 67, 289-99	10.1	97
466	Dietary L-arginine supplementation enhances placental growth and reproductive performance in sows. <i>Amino Acids</i> , <b>2012</b> , 42, 2207-14	3.5	96
465	Catabolism of nutritionally essential amino acids in developing porcine enterocytes. <i>Amino Acids</i> , <b>2009</b> , 37, 143-52	3.5	96
464	Glycine stimulates protein synthesis and inhibits oxidative stress in pig small intestinal epithelial cells. <i>Journal of Nutrition</i> , <b>2014</b> , 144, 1540-8	4.1	95
463	Dietary arginine supplementation during early pregnancy enhances embryonic survival in rats. <i>Journal of Nutrition</i> , <b>2008</b> , 138, 1421-5	4.1	95
462	Biochemical and physiological bases for utilization of dietary amino acids by young Pigs. <i>Journal of Animal Science and Biotechnology</i> , <b>2013</b> , 4, 7	6	94
461	Arginine enhances embryo implantation in rats through PI3K/PKB/mTOR/NO signaling pathway during early pregnancy. <i>Reproduction</i> , <b>2013</b> , 145, 1-7	3.8	94
460	Dietary protein or arginine deficiency impairs constitutive and inducible nitric oxide synthesis by young rats. <i>Journal of Nutrition</i> , <b>1999</b> , 129, 1347-54	4.1	94
459	Down-regulation of placental mTOR, insulin/IGF-I signaling, and nutrient transporters in response to maternal nutrient restriction in the baboon. <i>FASEB Journal</i> , <b>2014</b> , 28, 1294-305	0.9	93
458	Nitric oxide synthesis and the effect of aminoguanidine and NG-monomethyl-L-arginine on the onset of diabetes in the spontaneously diabetic BB rat. <i>Diabetes</i> , <b>1995</b> , 44, 360-4	0.9	93
457	Glycine is a nutritionally essential amino acid for maximal growth of milk-fed young pigs. <i>Amino Acids</i> , <b>2014</b> , 46, 2037-45	3.5	91
456	Nitric oxide and energy metabolism in mammals. <i>BioFactors</i> , <b>2013</b> , 39, 383-91	6.1	91
455	Oral N-carbamylglutamate supplementation increases protein synthesis in skeletal muscle of piglets. <i>Journal of Nutrition</i> , <b>2007</b> , 137, 315-9	4.1	91
454	Impaired translation initiation activation and reduced protein synthesis in weaned piglets fed a low-protein diet. <i>Journal of Nutritional Biochemistry</i> , <b>2009</b> , 20, 544-52	6.3	90
453	A deficiency or excess of dietary threonine reduces protein synthesis in jejunum and skeletal muscle of young pigs. <i>Journal of Nutrition</i> , <b>2007</b> , 137, 1442-6	4.1	90
452	The Uptake of Glutamine and Release of Arginine, Citrulline and Proline by the Small Intestine of Developing Pigs. <i>Journal of Nutrition</i> , <b>1994</b> , 124, 2437-2444	4.1	90
451	Metabolism of select amino acids in bacteria from the pig small intestine. <i>Amino Acids</i> , <b>2012</b> , 42, 1597-608	3.5	89



450	Glutamine metabolism to glucosamine is necessary for glutamine inhibition of endothelial nitric oxide synthesis. <i>Biochemical Journal</i> , <b>2001</b> , 353, 245-252	3.8	89
449	Amino acids and mammary gland development: nutritional implications for milk production and neonatal growth. <i>Journal of Animal Science and Biotechnology</i> , <b>2016</b> , 7, 20	6	87
448	Supplementation with branched-chain amino acids to a low-protein diet regulates intestinal expression of amino acid and peptide transporters in weanling pigs. <i>Amino Acids</i> , <b>2013</b> , 45, 1191-205	3.5	87
447	Proteomic analysis reveals altered expression of proteins related to glutathione metabolism and apoptosis in the small intestine of zinc oxide-supplemented piglets. <i>Amino Acids</i> , <b>2009</b> , 37, 209-18	3.5	86
446	L-Glutamine regulates amino acid utilization by intestinal bacteria. <i>Amino Acids</i> , <b>2013</b> , 45, 501-12	3.5	85
445	Select nutrients in the ovine uterine lumen. ii. glucose transporters in the uterus and peri-implantation conceptuses. <i>Biology of Reproduction</i> , <b>2009</b> , 80, 94-104	3.9	85
444	Rapid publication-ready MS-Word tables for one-way ANOVA. <i>SpringerPlus</i> , <b>2014</b> , 3, 474		82
443	Temporal proteomic analysis reveals continuous impairment of intestinal development in neonatal piglets with intrauterine growth restriction. <i>Journal of Proteome Research</i> , <b>2010</b> , 9, 924-35	5.6	82
442	Parenteral administration of L-arginine enhances fetal survival and growth in sheep carrying multiple fetuses. <i>Journal of Nutrition</i> , <b>2011</b> , 141, 849-55	4.1	82
441	N-acetylcysteine reduces inflammation in the small intestine by regulating redox, EGF and TLR4 signaling. <i>Amino Acids</i> , <b>2013</b> , 45, 513-22	3.5	81
440	Select nutrients in the ovine uterine lumen. III. Cationic amino acid transporters in the ovine uterus and peri-implantation conceptuses. <i>Biology of Reproduction</i> , <b>2009</b> , 80, 602-9	3.9	81
439	Dietary L-glutamine supplementation modulates microbial community and activates innate immunity in the mouse intestine. <i>Amino Acids</i> , <b>2014</b> , 46, 2403-13	3.5	80
438	Uterine biology in pigs and sheep. <i>Journal of Animal Science and Biotechnology</i> , <b>2012</b> , 3, 23	6	80
437	Activities of arginase I and II are limiting for endothelial cell proliferation. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2002</b> , 282, R64-9	3.2	80
436	Developmental changes in polyamine levels and synthesis in the ovine conceptus. <i>Biology of Reproduction</i> , <b>2003</b> , 69, 1626-34	3.9	80
435	Maternal dietary protein deficiency decreases nitric oxide synthase and ornithine decarboxylase activities in placenta and endometrium of pigs during early gestation. <i>Journal of Nutrition</i> , <b>1998</b> , 128, 2395-402	4.1	80
434	Composition of polyamines and amino acids in plant-source foods for human consumption. <i>Amino Acids</i> , <b>2019</b> , 51, 1153-1165	3.5	77
433	Arginine nutrition and fetal brown adipose tissue development in nutrient-restricted sheep. <i>Amino Acids</i> , <b>2013</b> , 45, 489-99	3.5	77

432	L-Glutamine Enhances Tight Junction Integrity by Activating CaMK Kinase 2-AMP-Activated Protein Kinase Signaling in Intestinal Porcine Epithelial Cells. <i>Journal of Nutrition</i> , <b>2016</b> , 146, 501-8	4.1	76
431	Composition of amino acids and related nitrogenous nutrients in feedstuffs for animal diets. <i>Amino Acids</i> , <b>2020</b> , 52, 523-542	3.5	75
430	Metabolomic analysis reveals differences in umbilical vein plasma metabolites between normal and growth-restricted fetal pigs during late gestation. <i>Journal of Nutrition</i> , <b>2012</b> , 142, 990-8	4.1	75
429	Select nutrients in the ovine uterine lumen. VII. Effects of arginine, leucine, glutamine, and glucose on trophectoderm cell signaling, proliferation, and migration. <i>Biology of Reproduction</i> , <b>2011</b> , 84, 62-9	3.9	74
428	Dietary L-arginine supplementation enhances intestinal development and expression of vascular endothelial growth factor in weanling piglets. <i>British Journal of Nutrition</i> , <b>2011</b> , 105, 703-9	3.6	74
427	Statistics and bioinformatics in nutritional sciences: analysis of complex data in the era of systems biology. <i>Journal of Nutritional Biochemistry</i> , <b>2010</b> , 21, 561-72	6.3	72
426	Dietary supplementation with zinc oxide decreases expression of the stem cell factor in the small intestine of weanling pigs. <i>Journal of Nutritional Biochemistry</i> , <b>2007</b> , 18, 820-6	6.3	72
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421	Maternal dietary protein deficiency decreases amino acid concentrations in fetal plasma and allantoic fluid of pigs. <i>Journal of Nutrition</i> , <b>1998</b> , 128, 894-902	4.1	69
420	Dietary supplementation with L-arginine between days 14 and 25 of gestation enhances embryonic development and survival in gilts. <i>Amino Acids</i> , <b>2014</b> , 46, 375-84	3.5	68
419	Lactating porcine mammary tissue catabolizes branched-chain amino acids for glutamine and aspartate synthesis. <i>Journal of Nutrition</i> , <b>2009</b> , 139, 1502-9	4.1	68
418	Unusual abundance of arginine and ornithine in porcine allantoic fluid. <i>Biology of Reproduction</i> , <b>1996</b> , 54, 1261-5	3.9	68
417	Glucosamine inhibits inducible nitric oxide synthesis. <i>Biochemical and Biophysical Research Communications</i> , <b>2000</b> , 279, 234-9	3.4	67
416	Chlorogenic acid decreases intestinal permeability and increases expression of intestinal tight junction proteins in weaned rats challenged with LPS. <i>PLoS ONE</i> , <b>2014</b> , 9, e97815	3.7	66
415	Arginine stimulates cdx2-transformed intestinal epithelial cell migration via a mechanism requiring both nitric oxide and phosphorylation of p70 S6 kinase. <i>Journal of Nutrition</i> , <b>2008</b> , 138, 1652-7	4.1	66

4 <sup>14</sup>	L-Tryptophan Activates Mammalian Target of Rapamycin and Enhances Expression of Tight Junction Proteins in Intestinal Porcine Epithelial Cells. <i>Journal of Nutrition</i> , <b>2015</b> , 145, 1156-62	4.1	65
4 <sup>13</sup>	L-Glutamate Enhances Barrier and Antioxidative Functions in Intestinal Porcine Epithelial Cells. <i>Journal of Nutrition</i> , <b>2015</b> , 145, 2258-64	4.1	65
4 <sup>12</sup>	Effects of $\beta$ -ketoglutarate on energy status in the intestinal mucosa of weaned piglets chronically challenged with lipopolysaccharide. <i>British Journal of Nutrition</i> , <b>2011</b> , 106, 357-63	3.6	65
4 <sup>11</sup>	Dietary L-glutamine supplementation improves pregnancy outcome in mice infected with type-2 porcine circovirus. <i>Amino Acids</i> , <b>2013</b> , 45, 479-88	3.5	64
4 <sup>10</sup>	Regulatory roles for L-arginine in reducing white adipose tissue. <i>Frontiers in Bioscience - Landmark</i> , <b>2012</b> , 17, 2237-46	2.8	64
4 <sup>09</sup>	Dietary supplementation with l-arginine partially counteracts serum metabonome induced by weaning stress in piglets. <i>Journal of Proteome Research</i> , <b>2011</b> , 10, 5214-21	5.6	63
4 <sup>08</sup>	Developmental changes in nitric oxide synthesis in the ovine placenta. <i>Biology of Reproduction</i> , <b>2004</b> , 70, 679-86	3.9	63
4 <sup>07</sup>	Enhanced intestinal synthesis of polyamines from proline in cortisol-treated piglets. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2000</b> , 279, E395-402	6	63
4 <sup>06</sup>	Arginine decarboxylase and agmatinase: an alternative pathway for de novo biosynthesis of polyamines for development of mammalian conceptuses. <i>Biology of Reproduction</i> , <b>2014</b> , 90, 84	3.9	62
4 <sup>05</sup>	Uterine histotroph and conceptus development: select nutrients and secreted phosphoprotein 1 affect mechanistic target of rapamycin cell signaling in ewes. <i>Biology of Reproduction</i> , <b>2011</b> , 85, 1094-107	3.9	62
4 <sup>04</sup>	Role of ephrin B2 in human retinal endothelial cell proliferation and migration. <i>Cellular Signalling</i> , <b>2003</b> , 15, 1011-7	4.9	62
4 <sup>03</sup>	The glutamine-alpha-ketoglutarate (AKG) metabolism and its nutritional implications. <i>Amino Acids</i> , <b>2016</b> , 48, 2067-80	3.5	62
4 <sup>02</sup>	Amino-acid transporters in T-cell activation and differentiation. <i>Cell Death and Disease</i> , <b>2017</b> , 8, e2655	9.8	61
4 <sup>01</sup>	Impacts of maternal dietary protein intake on fetal survival, growth, and development. <i>Experimental Biology and Medicine</i> , <b>2018</b> , 243, 525-533	3.7	61
4 <sup>00</sup>	Arginine nutrition and fetal brown adipose tissue development in diet-induced obese sheep. <i>Amino Acids</i> , <b>2012</b> , 43, 1593-603	3.5	61
399	Regulatory role for L-arginine in the utilization of amino acids by pig small-intestinal bacteria. <i>Amino Acids</i> , <b>2012</b> , 43, 233-44	3.5	61
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390	Effects of dietary L-lysine intake on the intestinal mucosa and expression of CAT genes in weaned piglets. <i>Amino Acids</i> , <b>2013</b> , 45, 383-91	3.5	59
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289	Alterations of amino acid metabolism in osteoarthritis: its implications for nutrition and health. <i>Amino Acids</i> , <b>2016</b> , 48, 907-914	3.5	33

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156	Insulin signaling in skeletal muscle and liver of neonatal pigs during endotoxemia. <i>Pediatric Research</i> , <b>2008</b> , 64, 505-10	3.2	13
155	Comparison of the regression analysis technique and the substitution method for the determination of true phosphorus digestibility and faecal endogenous phosphorus losses associated with feed ingredients for growing pigs. <i>Livestock Science</i> , <b>2007</b> , 109, 251-254	1.7	13
154	The induction of citrulline synthesis from glutamine in enterocytes of weaned pigs is not due primarily to age or change in diet. <i>Journal of Nutrition</i> , <b>1995</b> , 125, 2388-93	4.1	13
153	Differential proteome analysis along jejunal crypt-villus axis in piglets. <i>Frontiers in Bioscience - Landmark</i> , <b>2016</b> , 21, 343-63	2.8	13
152	Effects of pyrroloquinoline quinone supplementation on growth performance and small intestine characteristics in weaned pigs. <i>Journal of Animal Science</i> , <b>2019</b> , 97, 246-256	0.7	13
151	Protein-Sourced Feedstuffs for Aquatic Animals in Nutrition Research and Aquaculture. <i>Advances in Experimental Medicine and Biology</i> , <b>2022</b> , 1354, 237-261	3.6	12
150	Impacts of Amino Acids on the Intestinal Defensive System. <i>Advances in Experimental Medicine and Biology</i> , <b>2020</b> , 1265, 133-151	3.6	12
149	Mechanotransduction drives morphogenesis to develop folding during placental development in pigs. <i>Placenta</i> , <b>2020</b> , 90, 62-70	3.4	12
148	Putrescine mitigates intestinal atrophy through suppressing inflammatory response in weanling piglets. <i>Journal of Animal Science and Biotechnology</i> , <b>2019</b> , 10, 69	6	11
147	Maternal L-proline supplementation during gestation alters amino acid and polyamine metabolism in the first generation female offspring of C57BL/6J mice. <i>Amino Acids</i> , <b>2019</b> , 51, 805-811	3.5	11
146	Placentae for Low Birth Weight Piglets Are Vulnerable to Oxidative Stress, Mitochondrial Dysfunction, and Impaired Angiogenesis. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2020</b> , 2020, 8715412 <sup>6.7</sup>	6.7	11
145	Effects of catecholamines on secretion of interferon tau and expression of genes for synthesis of polyamines and apoptosis by ovine trophectoderm. <i>Biology of Reproduction</i> , <b>2018</b> , 99, 611-628	3.9	11

144	Glycine enhances expression of adiponectin and IL-10 in 3T3-L1 adipocytes without affecting adipogenesis and lipolysis. <i>Amino Acids</i> , <b>2018</b> , 50, 629-640	3.5	11
143	Escherichia coli aggravates endoplasmic reticulum stress and triggers CHOP-dependent apoptosis in weaned pigs. <i>Amino Acids</i> , <b>2017</b> , 49, 2073-2082	3.5	11
142	Dietary Supplementation with Lactobacillus casei Alleviates Lipopolysaccharide-Induced Liver Injury in a Porcine Model. <i>International Journal of Molecular Sciences</i> , <b>2017</b> , 18,	6.3	11
141	Equine placenta expresses glutamine synthetase. <i>Veterinary Research Communications</i> , <b>2009</b> , 33, 175-82	2.9	11
140	Interferon tau: Influences on growth and development of the conceptus. <i>Theriogenology</i> , <b>2020</b> , 150, 75-83	2.8	11
139	Dietary -arginine supplementation reduces lipid accretion by regulating fatty acid metabolism in Nile tilapia (). <i>Journal of Animal Science and Biotechnology</i> , <b>2020</b> , 11, 82	6	11
138	Cortisol enhances citrulline synthesis from proline in enterocytes of suckling piglets. <i>Amino Acids</i> , <b>2021</b> , 53, 1957-1966	3.5	11
137	Use of alternative protein sources for fishmeal replacement in the diet of largemouth bass ( <i>Micropterus salmoides</i> ). Part II: effects of supplementation with methionine or taurine on growth, feed utilization, and health. <i>Amino Acids</i> , <b>2021</b> , 53, 49-62	3.5	11
136	Identification of appropriate reference genes for qPCR analyses of placental expression of SLC7A3 and induction of SLC5A1 in porcine endometrium. <i>Placenta</i> , <b>2017</b> , 52, 1-9	3.4	10
135	Lactosucrose attenuates intestinal inflammation by promoting Th2 cytokine production and enhancing CD86 expression in colitic rats. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2015</b> , 79, 643-51	2.1	10
134	Quantitative Proteomic Analysis Reveals Antiviral and Anti-inflammatory Effects of Puerarin in Piglets Infected With Porcine Epidemic Diarrhea Virus. <i>Frontiers in Immunology</i> , <b>2020</b> , 11, 169	8.4	10
133	Daily watermelon consumption decreases plasma sVCAM-1 levels in overweight and obese postmenopausal women. <i>Nutrition Research</i> , <b>2020</b> , 76, 9-19	4	10
132	Glycine oxidation and conversion into amino acids in <i>Saccharomyces cerevisiae</i> and <i>Candida albicans</i> . <i>Amino Acids</i> , <b>2010</b> , 39, 605-8	3.5	10
131	mTOR <b>2016</b> , 23-35		10
130	Effects of agmatine on secretion of interferon tau and catecholamines and expression of genes related to production of polyamines by ovine trophectoderm cells. <i>Amino Acids</i> , <b>2016</b> , 48, 2389-99	3.5	10
129	One-Carbon Metabolism and Development of the Conceptus During Pregnancy: Lessons from Studies with Sheep and Pigs. <i>Advances in Experimental Medicine and Biology</i> , <b>2021</b> , 1285, 1-15	3.6	10
128	Metabolic and Proteomic Responses to Long-Term Protein Restriction in a Pig Model. <i>Journal of Agricultural and Food Chemistry</i> , <b>2018</b> , 66, 12571-12579	5.7	10
127	Hydroxyproline in animal metabolism, nutrition, and cell signaling. <i>Amino Acids</i> , <b>2021</b> , 1	3.5	10

126	Pig models on intestinal development and therapeutics. <i>Amino Acids</i> , <b>2017</b> , 49, 2099-2106	3.5	9
125	Application of new biotechnologies for improvements in swine nutrition and pork production. <i>Journal of Animal Science and Biotechnology</i> , <b>2019</b> , 10, 28	6	9
124	Intimacy and a deadly feud: the interplay of autophagy and apoptosis mediated by amino acids. <i>Amino Acids</i> , <b>2015</b> , 47, 2089-99	3.5	9
123	Glycine Attenuates LPS-Induced Apoptosis and Inflammatory Cell Infiltration in Mouse Liver. <i>Journal of Nutrition</i> , <b>2020</b> , 150, 1116-1125	4.1	9
122	Analysis of Glutathione in Biological Samples by HPLC Involving Pre-Column Derivatization with o-Phthalaldehyde. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1694, 105-115	1.4	9
121	Effects of dietary lysine levels on plasma free amino acid profile in late-stage finishing pigs. <i>SpringerPlus</i> , <b>2016</b> , 5, 888		9
120	Distribution of phosphate-activated glutaminase isozymes in the chicken: absence from liver but presence of high activity in pectoralis muscle. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , <b>1998</b> , 120, 285-90	2.3	9
119	Gene expression and activity of enzymes in the arginine biosynthetic pathway in porcine fetal small intestine. <i>Pediatric Research</i> , <b>2003</b> , 53, 274-80	3.2	9
118	Metabolism and Functions of Amino Acids in Sense Organs. <i>Advances in Experimental Medicine and Biology</i> , <b>2020</b> , 1265, 201-217	3.6	9
117	Cell-Specific Expression of Enzymes for Serine Biosynthesis and Glutaminolysis in Farm Animals. <i>Advances in Experimental Medicine and Biology</i> , <b>2021</b> , 1285, 17-28	3.6	9
116	Ruminal microbes of adult sheep do not degrade extracellular l-citrulline. <i>Journal of Animal Science</i> , <b>2020</b> , 98,	0.7	8
115	Abomasal infusion of arginine stimulates SCD and C/EBP $\beta$ gene expression, and decreases CPT1 $\beta$ gene expression in bovine adipose tissue independent of conjugated linoleic acid. <i>Amino Acids</i> , <b>2014</b> , 46, 353-66	3.5	8
114	Glutamine and glucose metabolism in thymocytes from normal and spontaneously diabetic BB rats. <i>Biochemistry and Cell Biology</i> , <b>1991</b> , 69, 801-8	3.6	8
113	Principles of Animal Nutrition		8
112	Epithelial Dysfunction in Lung Diseases: Effects of Amino Acids and Potential Mechanisms. <i>Advances in Experimental Medicine and Biology</i> , <b>2020</b> , 1265, 57-70	3.6	8
111	Metabolic studies reveal that ruminal microbes of adult steers do not degrade rumen-protected or unprotected L-citrulline. <i>Journal of Animal Science</i> , <b>2020</b> , 98,	0.7	8
110	Effects of dietary protein intake on the oxidation of glutamate, glutamine, glucose and palmitate in tissues of largemouth bass ( <i>Micropterus salmoides</i> ). <i>Amino Acids</i> , <b>2020</b> , 52, 1491-1503	3.5	8
109	Decreased hippocampal homoarginine and increased nitric oxide and nitric oxide synthase levels in rats parallel training in a radial arm maze. <i>Amino Acids</i> , <b>2016</b> , 48, 2197-204	3.5	8

108	Microarray analysis reveals the inhibition of intestinal expression of nutrient transporters in piglets infected with porcine epidemic diarrhea virus. <i>Scientific Reports</i> , <b>2019</b> , 9, 19798	4.9	8
107	Amino Acid Nutrition for Optimum Growth, Development, Reproduction, and Health of Zoo Animals. <i>Advances in Experimental Medicine and Biology</i> , <b>2021</b> , 1285, 233-253	3.6	8
106	Use of homoarginine for measuring true ileal digestibility of amino acids in food protein. <i>Amino Acids</i> , <b>2015</b> , 47, 1795-803	3.5	7
105	3-Acetyldeoxynivalenol induces lysosomal membrane permeabilization-mediated apoptosis and inhibits autophagic flux in macrophages. <i>Environmental Pollution</i> , <b>2020</b> , 265, 114697	9.3	7
104	Oral administration of β-ketoglutarate enhances nitric oxide synthesis by endothelial cells and whole-body insulin sensitivity in diet-induced obese rats. <i>Experimental Biology and Medicine</i> , <b>2019</b> , 244, 1081-1088	3.7	7
103	Ruminal microbes of adult steers do not degrade extracellular L-citrulline and have a limited ability to metabolize extracellular L-glutamate <sup>1,2</sup> . <i>Journal of Animal Science</i> , <b>2019</b> , 97, 3611-3616	0.7	7
102	Enhanced metabolism of glucose and glutamine in mesenteric lymph node lymphocytes from spontaneously diabetic BB rats. <i>Canadian Journal of Physiology and Pharmacology</i> , <b>1994</b> , 72, 827-32	2.4	7
101	Methionine transamination and glutamine transaminases in skeletal muscle. <i>Biochemical Journal</i> , <b>1989</b> , 262, 690-691	3.8	7
100	Maternal Nutrient Restriction and Skeletal Muscle Development: Consequences for Postnatal Health. <i>Advances in Experimental Medicine and Biology</i> , <b>2020</b> , 1265, 153-165	3.6	7
99	Amino Acids in the Nutrition, Metabolism, and Health of Domestic Cats. <i>Advances in Experimental Medicine and Biology</i> , <b>2021</b> , 1285, 217-231	3.6	7
98	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> , <b>2019</b> , 103, 791-800	2.6	6
97	Effects of Bisphenol-A on proliferation and expression of genes related to synthesis of polyamines, interferon tau and insulin-like growth factor 2 by ovine trophectoderm cells. <i>Reproductive Toxicology</i> , <b>2018</b> , 78, 90-96	3.4	6
96	Regional dysregulation of taurine and related amino acids in the fetal rat brain following gestational alcohol exposure. <i>Alcohol</i> , <b>2018</b> , 66, 27-33	2.7	6
95	Dietary Supplementation with Oleum Cinnamomi Improves Intestinal Functions in Piglets. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	6
94	Dietary Supplementation with Glycine Enhances Intestinal Mucosal Integrity and Ameliorates Inflammation in C57BL/6J Mice with High-Fat Diet-Induced Obesity. <i>Journal of Nutrition</i> , <b>2021</b> , 151, 1769-1778 <sup>6</sup>	4.1	6
93	Oxidation of Energy Substrates in Tissues of Fish: Metabolic Significance and Implications for Gene Expression and Carcinogenesis. <i>Advances in Experimental Medicine and Biology</i> , <b>2021</b> , 1332, 67-83	3.6	6
92	Interorgan Metabolism, Nutritional Impacts, and Safety of Dietary L-Glutamate and L-Glutamine in Poultry. <i>Advances in Experimental Medicine and Biology</i> , <b>2021</b> , 1332, 107-128	3.6	6
91	Organogenesis of Ileal Peyer's Patches Is Initiated Prenatally and Accelerated Postnatally With Comprehensive Proliferation of B Cells in Pigs. <i>Frontiers in Immunology</i> , <b>2020</b> , 11, 604674	8.4	5



90	Maternal arginine supplementation enhances thermogenesis in the newborn lamb. <i>Journal of Animal Science</i> , <b>2020</b> , 98,	0.7	5
89	Fermentation techniques in feed production <b>2020</b> , 407-429		5
88	Functional roles of ornithine decarboxylase and arginine decarboxylase during the peri-implantation period of pregnancy in sheep. <i>Journal of Animal Science and Biotechnology</i> , <b>2018</b> , 9, 10	6	5
87	Establishment of a recombinant -induced piglet diarrhea model. <i>Frontiers in Bioscience - Landmark</i> , <b>2018</b> , 23, 1517-1534	2.8	5
86	Interactive effects of in vitro binge-like alcohol and ATP on umbilical endothelial nitric oxide synthase post-translational modifications and redox modulation. <i>Reproductive Toxicology</i> , <b>2014</b> , 43, 94-101	3.4	5
85	Tetrahydrobiopterin: important endothelial mediator independent of endothelial nitric oxide synthase. <i>Hypertension</i> , <b>2011</b> , 58, 145-7	8.5	5
84	Amino Acids in Microbial Metabolism and Function. <i>Advances in Experimental Medicine and Biology</i> , <b>2022</b> , 1354, 127-143	3.6	5
83	Insights into the Regulation of Implantation and Placentation in Humans, Rodents, Sheep, and Pigs. <i>Advances in Experimental Medicine and Biology</i> , <b>2022</b> , 1354, 25-48	3.6	5
82	Amino acid composition in eyes from zebrafish ( <i>Danio rerio</i> ) and sardine ( <i>Sardina pilchardus</i> ) at the larval stage. <i>SpringerPlus</i> , <b>2016</b> , 5, 519		5
81	253 Glutamate and glutamine are the major metabolic fuels in enterocytes of suckling piglets. <i>Journal of Animal Science</i> , <b>2019</b> , 97, 68-68	0.7	5
80	Effects of BPA on expression of apoptotic genes and migration of ovine trophectoderm (oTr1) cells during the peri-implantation period of pregnancy. <i>Reproductive Toxicology</i> , <b>2019</b> , 83, 73-79	3.4	5
79	Arginine, Agmatine, and Polyamines: Key Regulators of Conceptus Development in Mammals. <i>Advances in Experimental Medicine and Biology</i> , <b>2021</b> , 1332, 85-105	3.6	5
78	Functional roles of agmatinase during the peri-implantation period of pregnancy in sheep. <i>Amino Acids</i> , <b>2018</b> , 50, 293-308	3.5	5
77	β-Conglycinin enhances autophagy in porcine enterocytes. <i>Amino Acids</i> , <b>2017</b> , 49, 203-207	3.5	4
76	Effects of maternal L-proline supplementation on inflammatory cytokines at the placenta and fetus interface of mice. <i>Amino Acids</i> , <b>2020</b> , 52, 587-596	3.5	4
75	Elucidation of the Effects of a Current X-SCID Therapy on Intestinal Lymphoid Organogenesis Using an In Vivo Animal Model. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , <b>2020</b> , 10, 83-100	7.9	4
74	Expression of proteins in intestinal middle villus epithelial cells of weanling piglets. <i>Frontiers in Bioscience - Landmark</i> , <b>2017</b> , 22, 539-557	2.8	4
73	Metabolomic analysis of plasma and liver from surplus arginine fed Atlantic salmon. <i>Frontiers in Bioscience - Elite</i> , <b>2015</b> , 7, 67-78	1.6	4



72	Regulation of protein expression by L-arginine in endothelial cells. <i>Frontiers in Bioscience - Scholar</i> , <b>2011</b> , 3, 655-61	2.4	4
71	Functional Molecules of Intestinal Mucosal Products and Peptones in Animal Nutrition and Health. <i>Advances in Experimental Medicine and Biology</i> , <b>2022</b> , 1354, 263-277	3.6	4
70	Analysis of repeated measures data in nutrition research. <i>Frontiers in Bioscience - Landmark</i> , <b>2019</b> , 24, 1377-1389	2.8	4
69	Obesity increases hepatic glycine dehydrogenase and aminomethyltransferase expression while dietary glycine supplementation reduces white adipose tissue in Zucker diabetic fatty rats. <i>Amino Acids</i> , <b>2020</b> , 52, 1413-1423	3.5	4
68	Effect of supplementation of unprotected or protected arginine to prolific ewes on maternal amino acids profile, lamb survival at birth, and pre- and post-weaning lamb growth. <i>Journal of Animal Science</i> , <b>2020</b> , 98,	0.7	4
67	Dietary L-arginine supplementation during days 14-25 of gestation enhances aquaporin expression in the placenta and endometria of gestating gilts. <i>Amino Acids</i> , <b>2021</b> , 53, 1287-1295	3.5	4
66	l-Arginine and l-Citrulline in Sports Nutrition and Health <b>2019</b> , 645-652		4
65	Amino Acids in Autophagy: Regulation and Function. <i>Advances in Experimental Medicine and Biology</i> , <b>2021</b> , 1332, 51-66	3.6	4
64	Amino Acids in Cell Signaling: Regulation and Function. <i>Advances in Experimental Medicine and Biology</i> , <b>2021</b> , 1332, 17-33	3.6	4
63	Dietary Supplementation with Trihexanoin Enhances Intestinal Function of Weaned Piglets. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	4
62	Amino Acids and Their Metabolites for Improving Human Exercising Performance. <i>Advances in Experimental Medicine and Biology</i> , <b>2021</b> , 1332, 151-166	3.6	4
61	Amino acid profiles in first trimester amniotic fluids of healthy bovine cloned pregnancies are similar to those of IVF pregnancies, but not nonviable cloned pregnancies. <i>Theriogenology</i> , <b>2014</b> , 81, 225-9	2.8	3
60	Protein. <i>Advances in Nutrition</i> , <b>2011</b> , 2, 62-3	10	3
59	Effect of HCO <sub>3</sub> <sup>-</sup> on glutamine and glucose metabolism in lymphocytes. <i>Metabolism: Clinical and Experimental</i> , <b>1995</b> , 44, 1247-52	12.7	3
58	Polyamine synthesis from arginine and proline in tissues of developing chickens. <i>Amino Acids</i> , <b>2021</b> , 53, 1739-1748	3.5	3
57	Dietary arginine supplementation reduces fat mass in diet-induced-obese rats by improving glucose and fatty acid metabolism. <i>FASEB Journal</i> , <b>2007</b> , 21, A328	0.9	3
56	The Effect of Improved Juice Wastes Mixture (IJWM) for Corn Substitution on Broilers Performance. <i>International Journal of Poultry Science</i> , <b>2013</b> , 12, 102-106	0.3	3
55	Regulatory role of l-proline in fetal pig growth and intestinal epithelial cell proliferation. <i>Animal Nutrition</i> , <b>2020</b> , 6, 438-446	4.8	3

54	Pre-implantation exogenous progesterone and pregnancy in sheep. II. Effects on fetal-placental development and nutrient transporters in late pregnancy. <i>Journal of Animal Science and Biotechnology</i> , <b>2021</b> , 12, 46	6	3
53	N-Acetyl Serotonin Alleviates Oxidative Damage by Activating Nuclear Factor Erythroid 2-Related Factor 2 Signaling in Porcine Enterocytes. <i>Antioxidants</i> , <b>2020</b> , 9,	7.1	3
52	Dietary Intakes of Amino Acids and Other Nutrients by Adult Humans. <i>Advances in Experimental Medicine and Biology</i> , <b>2021</b> , 1332, 211-227	3.6	3
51	Amino Acids in Endoplasmic Reticulum Stress and Redox Signaling. <i>Advances in Experimental Medicine and Biology</i> , <b>2021</b> , 1332, 35-49	3.6	3
50	Intrauterine growth restriction alters nutrient metabolism in the intestine of porcine offspring. <i>Journal of Animal Science and Biotechnology</i> , <b>2021</b> , 12, 15	6	3
49	In vivo emergence of beige-like fat in chickens as physiological adaptation to cold environments. <i>Amino Acids</i> , <b>2021</b> , 53, 381-393	3.5	3
48	Puerarin enhances intestinal function in piglets infected with porcine epidemic diarrhea virus. <i>Scientific Reports</i> , <b>2021</b> , 11, 6552	4.9	3
47	Functional multiple indicators, multiple causes measurement error models. <i>Biometrics</i> , <b>2018</b> , 74, 127-134.8		3
46	Regulation of Gene Expression by Amino Acids in Animal Cells. <i>Advances in Experimental Medicine and Biology</i> , <b>2021</b> , 1332, 1-15	3.6	3
45	Introduction: significance, challenges and strategies of animal production <b>2020</b> , 1-17		2
44	Effects of Dietary Lysine Levels on the Plasma Concentrations of Growth-Related Hormones in Late-Stage Finishing Pigs <b>2017</b> ,		2
43	Analysis of Tryptophan and Its Metabolites by High-Performance Liquid Chromatography. <i>Methods in Molecular Biology</i> , <b>2019</b> , 2030, 131-142	1.4	2
42	Expression of threonine-biosynthetic genes in mammalian cells and transgenic mice. <i>Amino Acids</i> , <b>2014</b> , 46, 2177-88	3.5	2
41	Impacts of Aflatoxins on Swine Nutrition and Possible Measures of Amelioration <b>2015</b> , 54-67		2
40	Microarray analysis reveals an important role for dietary L-arginine in regulating global gene expression in porcine placentae during early gestation.. <i>Frontiers in Bioscience</i> , <b>2022</b> , 27, 33		2
39	Roles of Arginine in Cell-Mediated and Humoral Immunity <b>2017</b> , 335-348		2
38	Hepatic Glucose Metabolism and Its Disorders in Fish. <i>Advances in Experimental Medicine and Biology</i> , <b>2022</b> , 1354, 207-236	3.6	2
37	Nutritional and Physiological Regulation of Water Transport in the Conceptus. <i>Advances in Experimental Medicine and Biology</i> , <b>2022</b> , 1354, 109-125	3.6	2

36	L-Arginine Nutrition and Metabolism in Ruminants. <i>Advances in Experimental Medicine and Biology</i> , <b>2022</b> , 1354, 177-206	3.6	2
35	Dietary L-arginine supplementation affects immune status of pregnant gilts. <i>FASEB Journal</i> , <b>2006</b> , 20, A424	0.9	2
34	Developmental Amino Acid Metabolism in the Pig Small and Large Intestine Epithelial Cells <b>2013</b> , 59-74		2
33	Pre-implantation exogenous progesterone and pregnancy in sheep: I. polyamines, nutrient transport, and progestagens. <i>Journal of Animal Science and Biotechnology</i> , <b>2021</b> , 12, 39	6	2
32	251 Oxidation of energy substrates in tissues of Largemouth bass ( <i>Micropterus salmoides</i> ). <i>Journal of Animal Science</i> , <b>2019</b> , 97, 68-69	0.7	2
31	N-Acetylcysteine improves intestinal function and attenuates intestinal autophagy in piglets challenged with $\alpha$ -conglycinin. <i>Scientific Reports</i> , <b>2021</b> , 11, 1261	4.9	2
30	Establishment of a porcine model of indomethacin-induced intestinal injury. <i>Frontiers in Bioscience - Landmark</i> , <b>2018</b> , 23, 2166-2176	2.8	2
29	Placental adaptation to maternal malnutrition. <i>Reproduction</i> , <b>2021</b> , 162, R73-R83	3.8	2
28	Oxidation of amino acids, glucose, and fatty acids as metabolic fuels in enterocytes of post-hatching developing chickens.. <i>Journal of Animal Science</i> , <b>2022</b> ,	0.7	2
27	Dietary supplementation with monosodium glutamate enhances milk production by lactating sows and the growth of suckling piglets.. <i>Amino Acids</i> , <b>2022</b> ,	3.5	2
26	Impact of probiotic <i>Limosilactobacillus reuteri</i> DSM 17938 on amino acid metabolism in the healthy newborn mouse.. <i>Amino Acids</i> , <b>2022</b> , 1	3.5	2
25	L-Arginine and L-Citrulline in Sports Nutrition and Health <b>2013</b> , 439-446		1
24	Dietary supplementation with L-arginine between days 14 and 25 of gestation enhances NO and polyamine syntheses and the expression of angiogenic proteins in porcine placentae. <i>Amino Acids</i> , <b>2021</b> , 1	3.5	1
23	Phosphate, Calcium, and Vitamin D: Key Regulators of Fetal and Placental Development in Mammals. <i>Advances in Experimental Medicine and Biology</i> , <b>2022</b> , 1354, 77-107	3.6	1
22	Important roles of amino acids in immune responses. <i>British Journal of Nutrition</i> , <b>2021</b> , 1-14	3.6	1
21	A Role for Fructose Metabolism in Development of Sheep and Pig Conceptuses. <i>Advances in Experimental Medicine and Biology</i> , <b>2022</b> , 1354, 49-62	3.6	1
20	Effect of Movement Training on the Amino Acids Distribution and Intestines Morphosis in Rats. <i>Journal of Animal and Veterinary Advances</i> , <b>2012</b> , 11, 3000-3007	0.1	1
19	Postnatal changes in extracellular concentrations of free amino acids are associated with declining fractional protein synthesis rates in skeletal muscles of fed pigs. <i>FASEB Journal</i> , <b>2006</b> , 20, A163	0.9	1

18	Terminal Digestion of Polypeptides and Amino Acid Absorption by the Pig Intestine Epithelial Cells During Development <b>2013</b> , 51-57		1
17	Effects of Bisphenol A on expression of genes related to amino acid transporters, insulin-like growth factor, aquaporin and amino acid release by porcine trophectoderm cells. <i>Reproductive Toxicology</i> , <b>2020</b> , 96, 241-248	3.4	1
16	Prenatal alcohol exposure and maternal glutamine supplementation alter the mTOR signaling pathway in ovine fetal cerebellum and skeletal muscle. <i>Alcohol</i> , <b>2020</b> , 89, 93-102	2.7	1
15	127 Dietary supplementation with glycine improves the post-weaning growth of low-birth-weight pigs. <i>Journal of Animal Science</i> , <b>2019</b> , 97, 112-112	0.7	1
14	Interorgan Metabolism of Amino Acids in Human Health and Disease. <i>Advances in Experimental Medicine and Biology</i> , <b>2021</b> , 1332, 129-149	3.6	1
13	Oxidation of amino acids, glucose, and fatty acids as metabolic fuels in enterocytes of developing pigs.. <i>Amino Acids</i> , <b>2022</b> , 1	3.5	1
12	The "ideal protein" concept is not ideal in animal nutrition.. <i>Experimental Biology and Medicine</i> , <b>2022</b> , 15353702221082658	3.7	0
11	Dynamic changes in circulating levels of metabolites in the portal-drained viscera of finishing pigs receiving acute administration of L-arginine. <i>Journal of Animal Physiology and Animal Nutrition</i> , <b>2020</b> , 104, 1424-1431	2.6	
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2	Improving the Nutrient Quality of Juice Wastes Mixture Through Fermentation by Using <i>Trichoderma viride</i> for Poultry Diet. <i>Pakistan Journal of Nutrition</i> , <b>2012</b> , 11, 203-207	0.3	
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