Guoyao Wu

List of Publications by Year
in descending order

588 papers	54,885 citations	1094 112 h-index	1974 206 g-index
596 all docs	596 docs citations	596 times ranked	39289 citing authors

#	Article	IF	Citations
1	Glutathione Metabolism and Its Implications for Health. Journal of Nutrition, 2004, 134, 489-492.	1.3	2,864
2	Arginine metabolism: nitric oxide and beyond. Biochemical Journal, 1998, 336, 1-17.	1.7	2,379
3	Amino acids: metabolism, functions, and nutrition. Amino Acids, 2009, 37, 1-17.	1.2	2,007
4	Free radicals, antioxidants, and nutrition. Nutrition, 2002, 18, 872-879.	1.1	1,984
5	Amino acids and immune function. British Journal of Nutrition, 2007, 98, 237-252.	1.2	1,150
6	Arginine metabolism and nutrition in growth, health and disease. Amino Acids, 2009, 37, 153-168.	1.2	1,009
7	BOARD-INVITED REVIEW: Intrauterine growth retardation: Implications for the animal sciences1. Journal of Animal Science, 2006, 84, 2316-2337.	0.2	913
8	Maternal Nutrition and Fetal Development. Journal of Nutrition, 2004, 134, 2169-2172.	1.3	739
9	Intestinal Mucosal Amino Acid Catabolism. Journal of Nutrition, 1998, 128, 1249-1252.	1.3	684
10	New developments in fish amino acid nutrition: towards functional and environmentally oriented aquafeeds. Amino Acids, 2009, 37, 43-53.	1.2	665
11	Regulatory role for the arginineâ€"nitric oxide pathway in metabolism of energy substrates. Journal of Nutritional Biochemistry, 2006, 17, 571-588.	1.9	596
12	Functional Amino Acids in Growth, Reproduction, and Health. Advances in Nutrition, 2010, 1, 31-37.	2.9	549
13	Functional amino acids in nutrition and health. Amino Acids, 2013, 45, 407-411.	1.2	519
14	Glycine metabolism in animals and humans: implications for nutrition and health. Amino Acids, 2013, 45, 463-477.	1.2	513
15	Proline and hydroxyproline metabolism: implications for animal and human nutrition. Amino Acids, 2011, 40, 1053-1063.	1.2	512
16	Amino acid metabolism in intestinal bacteria: links between gut ecology and host health. Frontiers in Bioscience - Landmark, 2011, 16, 1768.	3.0	434
17	Amino Acid Nutrition in Animals: Protein Synthesis and Beyond. Annual Review of Animal Biosciences, 2014, 2, 387-417.	3.6	391
18	Dietary protein intake and human health. Food and Function, 2016, 7, 1251-1265.	2.1	385

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19	Comparative aspects of implantation. Reproduction, 2009, 138, 195-209.	1.1	309
20	Dietary requirements of â€œnutritionally non-essential amino acidsâ€•by animals and humans. Amino Acids, 2013, 44, 1107-1113.	1.2	307
21	Dietary L-Arginine Supplementation Reduces Fat Mass in Zucker Diabetic Fatty Rats. Journal of Nutrition, 2005, 135, 714-721.	1.3	305
22	Dietary Arginine Supplementation Increases mTOR Signaling Activity in Skeletal Muscle of Neonatal Pigs ,. Journal of Nutrition, 2008, 138, 867-872.	1.3	305
23	Roles of dietary glycine, proline, and hydroxyproline in collagen synthesis and animal growth. Amino Acids, 2018, 50, 29-38.	1.2	304
24	Regulatory role of arginase I and II in nitric oxide, polyamine, and proline syntheses in endothelial cells. American Journal of Physiology - Endocrinology and Metabolism, 2001, 280, E75-E82.	1.8	302
25	Gene Expression Is Altered in Piglet Small Intestine by Weaning and Dietary Glutamine Supplementation3. Journal of Nutrition, 2008, 138, 1025-1032.	1.3	299
26	Novel pathways for implantation and establishment and maintenance of pregnancy in mammals. Molecular Human Reproduction, 2010, 16, 135-152.	1.3	295
27	Evidence for altered placental blood flow and vascularity in compromised pregnancies. Journal of Physiology, 2006, 572, 51-58.	1.3	291
28	Glutamine, arginine, and leucine signaling in the intestine. Amino Acids, 2009, 37, 111-122.	1.2	288
29	The metabolic basis of arginine nutrition and pharmacotherapy. Biomedicine and Pharmacotherapy, 2002, 56, 427-438.	2.5	281
30	Dietary l-arginine supplementation increases muscle gain and reduces body fat mass in growing-finishing pigs. Amino Acids, 2009, 37, 169-175.	1.2	275
31	Intrauterine Growth Restriction Affects the Proteomes of the Small Intestine, Liver, and Skeletal Muscle in Newborn Pigs. Journal of Nutrition, 2008, 138, 60-66.	1.3	262
32	Dietary Glutamine Supplementation Prevents Jejunal Atrophy in Weaned Pigs. Journal of Nutrition, 1996, 126, 2578-2584.	1.3	261
33	REGULATION OFNITRICOXIDESYNTHESIS BYDIETARYFACTORS. Annual Review of Nutrition, 2002, 22, 61-86.	4.3	260
34	Important roles of dietary taurine, creatine, carnosine, anserine and 4-hydroxyproline in human nutrition and health. Amino Acids, 2020, 52, 329-360.	1.2	254
35	Dietary l-Arginine Supplementation Enhances the Reproductive Performance of Gilts. Journal of Nutrition, 2007, 137, 652-656.	1.3	241
36	Dietary L-Arginine Supplementation Reduces White Fat Gain and Enhances Skeletal Muscle and Brown Fat Masses in Diet-Induced Obese Rats. Journal of Nutrition, 2009, 139, 230-237.	1.3	241

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37	<scp>l</scp>â€Cysteine metabolism and its nutritional implications. Molecular Nutrition and Food Research, 2016, 60, 134-146.	1.5	235
38	Impacts of arginine nutrition on embryonic and fetal development in mammals. Amino Acids, 2013, 45, 241-256.	1.2	233
39	Protein hydrolysates in animal nutrition: Industrial production, bioactive peptides, and functional significance. Journal of Animal Science and Biotechnology, 2017, 8, 24.	2.1	233
40	Important roles for the arginine family of amino acids in swine nutrition and production. Livestock Science, 2007, 112, 8-22.	0.6	227
41	Nutrition, Epigenetics, and Metabolic Syndrome. Antioxidants and Redox Signaling, 2012, 17, 282-301.	2.5	227
42	Dietary requirements of synthesizable amino acids by animals: a paradigm shift in protein nutrition. Journal of Animal Science and Biotechnology, 2014, 5, 34.	2.1	226
43	Arginine Nutrition and Cardiovascular Function. Journal of Nutrition, 2000, 130, 2626-2629.	1.3	225
44	Beneficial effects of l-arginine on reducing obesity: potential mechanisms and important implications for human health. Amino Acids, 2010, 39, 349-357.	1.2	225
45	Composition of amino acids in feed ingredients for animal diets. Amino Acids, 2011, 40, 1159-1168.	1.2	224
46	Arginine Nutrition in Neonatal Pigs. Journal of Nutrition, 2004, 134, 2783S-2790S.	1.3	223
47	Free and Protein-Bound Amino Acids in Sow's Colostrum and Milk. Journal of Nutrition, 1994, 124, 415-424.	1.3	217
48	Dietary Arginine Supplementation Enhances the Growth of Milk-Fed Young Pigs. Journal of Nutrition, 2004, 134, 625-630.	1.3	215
49	Leucine nutrition in animals and humans: mTOR signaling and beyond. Amino Acids, 2011, 41, 1185-1193.	1.2	209
50	The role of leucine and its metabolites in protein and energy metabolism. Amino Acids, 2016, 48, 41-51.	1.2	209
51	Reduced serum amino acid concentrations in infants with necrotizing enterocolitis. Journal of Pediatrics, 2000, 137, 785-793.	0.9	201
52	Utilization of amino acids by bacteria from the pig small intestine. Amino Acids, 2010, 39, 1201-1215.	1.2	198
53	Biological Mechanisms for Nutritional Regulation of Maternal Health and Fetal Development. Paediatric and Perinatal Epidemiology, 2012, 26, 4-26.	0.8	197
54	Dietary essentiality of â€œnutritionally non-essential amino acidsâ€•for animals and humans. Experimental Biology and Medicine, 2015, 240, 997-1007.	1.1	195

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55	Arginine deficiency in preterm infants: Biochemical mechanisms and nutritional implications. Journal of Nutritional Biochemistry, 2004, 15, 442-451.	1.9	191
56	TRIENNIAL GROWTH SYMPOSIUM: Important roles for L-glutamine in swine nutrition and production1,2. Journal of Animal Science, 2011, 89, 2017-2030.	0.2	191
57	Select Nutrients in the Ovine Uterine Lumen. I. Amino Acids, Glucose, and Ions in Uterine Lumenal Flushings of Cyclic and Pregnant Ewes1. Biology of Reproduction, 2009, 80, 86-93.	1.2	184
58	l-Arginine stimulates proliferation and prevents endotoxin-induced death of intestinal cells. Amino Acids, 2010, 38, 1227-1235.	1.2	184
59	Production and supply of highâ€quality food protein for human consumption: sustainability, challenges, and innovations. Annals of the New York Academy of Sciences, 2014, 1321, 1-19.	1.8	184
60	Interferons and progesterone for establishment and maintenance of pregnancy: interactions among novel cell signaling pathways. Reproductive Biology, 2008, 8, 179-211.	0.9	181
61	Analysis of amino acid composition in proteins of animal tissues and foods as pre-column o-phthaldialdehyde derivatives by HPLC with fluorescence detection. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2014, 964, 116-127.	1.2	181
62	Dietary Arginine Supplementation of Mice Alters the Microbial Population and Activates Intestinal Innate Immunity. Journal of Nutrition, 2014, 144, 988-995.	1.3	179
63	Glutamine and intestinal barrier function. Amino Acids, 2015, 47, 2143-2154.	1.2	176
64	Dietary Supplementation with Watermelon Pomace Juice Enhances Arginine Availability and Ameliorates the Metabolic Syndrome in Zucker Diabetic Fatty Rats ,. Journal of Nutrition, 2007, 137, 2680-2685.	1.3	175
65	Watermelon consumption increases plasma arginine concentrations in adults. Nutrition, 2007, 23, 261-266.	1.1	171
66	Proline metabolism in the conceptus: implications for fetal growth and development. Amino Acids, 2008, 35, 691-702.	1.2	171
67	Endogenous Synthesis of Arginine Plays an Important Role in Maintaining Arginine Homeostasis in Postweaning Growing Pigs. Journal of Nutrition, 1997, 127, 2342-2349.	1.3	170
68	Supplementing l-leucine to a low-protein diet increases tissue protein synthesis in weanling pigs. Amino Acids, 2010, 39, 1477-1486.	1.2	166
69	Comparisons of treatment means when factors do not interact in two-factorial studies. Amino Acids, 2012, 42, 2031-2035.	1.2	164
70	Dietary l-arginine supplementation differentially regulates expression of lipid-metabolic genes in porcine adipose tissue and skeletal muscle. Journal of Nutritional Biochemistry, 2011, 22, 441-445.	1.9	160
71	Eph B4 Receptor Signaling Mediates Endothelial Cell Migration and Proliferation via the Phosphatidylinositol 3-Kinase Pathway. Journal of Biological Chemistry, 2002, 277, 43830-43835.	1.6	158
72	Metabolomic analysis of the response of growing pigs to dietary l-arginine supplementation. Amino Acids, 2009, 37, 199-208.	1.2	158

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73	l-Glutamine or l-alanyl-l-glutamine prevents oxidant- or endotoxin-induced death of neonatal enterocytes. Amino Acids, 2009, 37, 131-142.	1.2	158
74	Melatonin signaling in <scp>T</scp> cells: Functions and applications. Journal of Pineal Research, 2017, 62, e12394.	3.4	154
75	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. Amino Acids, 2010, 39, 831-839.	1.2	152
76	Arginine nutrition in development, health and disease. Current Opinion in Clinical Nutrition and Metabolic Care, 2000, 3, 59-66.	1.3	151
77	Dietary l-arginine supplementation enhances the immune status in early-weaned piglets. Amino Acids, 2009, 37, 323-331.	1.2	151
78	Impaired nitric oxide production in coronary endothelial cells of the spontaneously diabetic BB rat is due to tetrahydrobiopterin deficiency. Biochemical Journal, 2000, 349, 353-356.	1.7	150
79	Amino acid metabolism in intestinal bacteria and its potential implications for mammalian reproduction. Molecular Human Reproduction, 2015, 21, 389-409.	1.3	150
80	Nitric oxide and vascular insulin resistance. BioFactors, 2009, 35, 21-27.	2.6	149
81	Pharmacokinetics and Safety of Arginine Supplementation in Animals. Journal of Nutrition, 2007, 137, 1673S-1680S.	1.3	145
82	Alpha-ketoglutarate inhibits glutamine degradation and enhances protein synthesis in intestinal porcine epithelial cells. Amino Acids, 2012, 42, 2491-2500.	1.2	145
83	Functional Amino Acids and Fatty Acids for Enhancing Production Performance of Sows and Piglets. Asian-Australasian Journal of Animal Sciences, 2007, 20, 295-306.	2.4	143
84	Amino Acid Composition of the Fetal Pig. Journal of Nutrition, 1999, 129, 1031-1038.	1.3	141
85	Intestinal Nitrogen Recycling and Utilization in Health and Disease. Journal of Nutrition, 2009, 139, 821-825.	1.3	140
86	Polyamine Synthesis from Proline in the Developing Porcine Placenta1. Biology of Reproduction, 2005, 72, 842-850.	1.2	139
87	The glutamine-alpha-ketoglutarate (AKG) metabolism and its nutritional implications. Amino Acids, 2016, 48, 2067-2080.	1.2	139
88	Rapid determination of nitrite by reversed-phase high-performance liquid chromatography with fluorescence detection. Biomedical Applications, 2000, 746, 199-207.	1.7	137
89	Regulatory role for amino acids in mammary gland growth and milk synthesis. Amino Acids, 2009, 37, 89-95.	1.2	137
90	Analysis of nitrite and nitrate in biological samples using high-performance liquid chromatography. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2007, 851, 71-82.	1.2	136

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91	l-Arginine stimulates the mTOR signaling pathway and protein synthesis in porcine trophectoderm cells. Journal of Nutritional Biochemistry, 2012, 23, 1178-1183.	1.9	135
92	Maternal Nutrient Restriction Reduces Concentrations of Amino Acids and Polyamines in Ovine Maternal and Fetal Plasma and Fetal Fluids1. Biology of Reproduction, 2004, 71, 901-908.	1.2	134
93	Protective effects of N-acetylcysteine on intestinal functions of piglets challenged with lipopolysaccharide. Amino Acids, 2012, 43, 1233-1242.	1.2	134
94	Glutamine Enhances Tight Junction Protein Expression and Modulates Corticotropin-Releasing Factor Signaling in the Jejunum of Weanling Piglets ,. Journal of Nutrition, 2015, 145, 25-31.	1.3	134
95	Amino acids and mammary gland development: nutritional implications for milk production and neonatal growth. Journal of Animal Science and Biotechnology, 2016, 7, 20.	2.1	134
96	Ageing diminishes endotheliumâ€dependent vasodilatation and tetrahydrobiopterin content in rat skeletal muscle arterioles. Journal of Physiology, 2008, 586, 1161-1168.	1.3	133
97	Rapid publication-ready MS-Word tables for one-way ANOVA. SpringerPlus, 2014, 3, 474.	1.2	133
98	Dietary supplementation with monosodium glutamate is safe and improves growth performance in postweaning pigs. Amino Acids, 2013, 44, 911-923.	1.2	132
99	Effects of ageing and exercise training on eNOS uncoupling in skeletal muscle resistance arterioles. Journal of Physiology, 2009, 587, 3885-3897.	1.3	131
100	High fat feeding and dietary l-arginine supplementation differentially regulate gene expression in rat white adipose tissue. Amino Acids, 2009, 37, 187-198.	1.2	129
101	Serum Amino Acids Profile and the Beneficial Effects of L-Arginine or L-Glutamine Supplementation in Dextran Sulfate Sodium Colitis. PLoS ONE, 2014, 9, e88335.	1.1	128
102	Amino acids and gaseous signaling. Amino Acids, 2009, 37, 65-78.	1.2	125
103	Glycine Stimulates Protein Synthesis and Inhibits Oxidative Stress in Pig Small Intestinal Epithelial Cells. Journal of Nutrition, 2014, 144, 1540-1548.	1.3	125
104	Developmental Changes of Amino Acids in Ovine Fetal Fluids1. Biology of Reproduction, 2003, 68, 1813-1820.	1.2	123
105	Regulation of Tetrahydrobiopterin Synthesis and Bioavailability in Endothelial Cells. Cell Biochemistry and Biophysics, 2004, 41, 415-434.	0.9	121
106	Analysis of Citrulline, Arginine, and Methylarginines Using Highâ€Performance Liquid Chromatography. Methods in Enzymology, 2008, 440, 177-189.	0.4	121
107	Glutamine Metabolism in Macrophages: A Novel Target for Obesity/Type 2 Diabetes. Advances in Nutrition, 2019, 10, 321-330.	2.9	121
108	Dietary Î±-ketoglutarate supplementation ameliorates intestinal injury in lipopolysaccharide-challenged piglets. Amino Acids, 2010, 39, 555-564.	1.2	120

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109	Dietary l-Arginine Supplementation Enhances Endothelial Nitric Oxide Synthesis in Streptozotocin-Induced Diabetic Rats. Journal of Nutrition, 2004, 134, 600-608.	1.3	119
110	Impaired nitric oxide production in coronary endothelial cells of the spontaneously diabetic BB rat is due to tetrahydrobiopterin deficiency. Biochemical Journal, 2000, 349, 353.	1.7	118
111	Catabolism of nutritionally essential amino acids in developing porcine enterocytes. Amino Acids, 2009, 37, 143-152.	1.2	117
112	Dietary L-Tryptophan Modulates the Structural and Functional Composition of the Intestinal Microbiome in Weaned Piglets. Frontiers in Microbiology, 2018, 9, 1736.	1.5	117
113	Dietary Protein or Arginine Deficiency Impairs Constitutive and Inducible Nitric Oxide Synthesis by Young Rats. Journal of Nutrition, 1999, 129, 1347-1354.	1.3	116
114	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. Cancer Research, 2007, 67, 289-299.	0.4	116
115	Dietary l-arginine supplementation enhances placental growth and reproductive performance in sows. Amino Acids, 2012, 42, 2207-2214.	1.2	116
116	Dietary Arginine Supplementation during Early Pregnancy Enhances Embryonic Survival in Rats. Journal of Nutrition, 2008, 138, 1421-1425.	1.3	115
117	Comparison of serum metabolite compositions between obese and lean growing pigs using an NMR-based metabonomic approach. Journal of Nutritional Biochemistry, 2012, 23, 133-139.	1.9	114
118	Biochemical and physiological bases for utilization of dietary amino acids by young Pigs. Journal of Animal Science and Biotechnology, 2013, 4, 7.	2.1	114
119	Supplementation with branched-chain amino acids to a low-protein diet regulates intestinal expression of amino acid and peptide transporters in weanling pigs. Amino Acids, 2013, 45, 1191-1205.	1.2	114
120	Parenteral Administration of L-Arginine Prevents Fetal Growth Restriction in Undernourished Ewes ,. Journal of Nutrition, 2010, 140, 1242-1248.	1.3	113
121	Dietary arginine supplementation enhances intestinal expression of SLC7A7 and SLC7A1 and ameliorates growth depression in mycotoxin-challenged pigs. Amino Acids, 2014, 46, 883-892.	1.2	113
122	Glycine is a nutritionally essential amino acid for maximal growth of milk-fed young pigs. Amino Acids, 2014, 46, 2037-2045.	1.2	113
123	Effect of dietary arginine supplementation on reproductive performance of mice with porcine circovirus type 2 infection. Amino Acids, 2012, 42, 2089-2094.	1.2	112
124	Composition of amino acids and related nitrogenous nutrients in feedstuffs for animal diets. Amino Acids, 2020, 52, 523-542.	1.2	112
125	Metabolism of select amino acids in bacteria from the pig small intestine. Amino Acids, 2012, 42, 1597-1608.	1.2	111
126	A Deficiency or Excess of Dietary Threonine Reduces Protein Synthesis in Jejunum and Skeletal Muscle of Young Pigs. Journal of Nutrition, 2007, 137, 1442-1446.	1.3	110

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127	Downâ€ɾegulation of placental mTOR, insulin/IGFâ€ɫ signaling, and nutrient transporters in response to maternal nutrient restriction in the baboon. FASEB Journal, 2014, 28, 1294-1305.	0.2	109
128	L-Glutamine Enhances Tight Junction Integrity by Activating CaMK Kinase 2â€"AMP-Activated Protein Kinase Signaling in Intestinal Porcine Epithelial Cells. Journal of Nutrition, 2016, 146, 501-508.	1.3	109
129	The Uptake of Glutamine and Release of Arginine, Citruline and Proline by the Small Intestine of Developing Pigs ,. Journal of Nutrition, 1994, 124, 2437-2444.	1.3	108
130	Temporal Proteomic Analysis Reveals Continuous Impairment of Intestinal Development in Neonatal Piglets with Intrauterine Growth Restriction. Journal of Proteome Research, 2010, 9, 924-935.	1.8	108
131	Arginine enhances embryo implantation in rats through PI3K/PKB/mTOR/NO signaling pathway during early pregnancy. Reproduction, 2013, 145, 1-7.	1.1	108
132	Nitric oxide and energy metabolism in mammals. BioFactors, 2013, 39, 383-391.	2.6	106
133	Composition of polyamines and amino acids in plant-source foods for human consumption. Amino Acids, 2019, 51, 1153-1165.	1.2	105
134	Impaired translation initiation activation and reduced protein synthesis in weaned piglets fed a low-protein diet. Journal of Nutritional Biochemistry, 2009, 20, 544-552.	1.9	104
135	l-Glutamine regulates amino acid utilization by intestinal bacteria. Amino Acids, 2013, 45, 501-512.	1.2	103
136	Oral N-Carbamylglutamate Supplementation Increases Protein Synthesis in Skeletal Muscle of Piglets1. Journal of Nutrition, 2007, 137, 315-319.	1.3	102
137	Amino-acid transporters in T-cell activation and differentiation. Cell Death and Disease, 2017, 8, e2655-e2655.	2.7	102
138	Select Nutrients in the Ovine Uterine Lumen. II. Glucose Transporters in the Uterus and Peri-Implantation Conceptuses1. Biology of Reproduction, 2009, 80, 94-104.	1.2	101
139	Uterine biology in pigs and sheep. Journal of Animal Science and Biotechnology, 2012, 3, 23.	2.1	101
140	Nitric Oxide Synthesis and the Effect of Aminoguanidine and NG-monomethyl-L-Arginine on the Onset of Diabetes in the Spontaneously Diabetic BB Rat. Diabetes, 1995, 44, 360-364.	0.3	100
141	Dietary l-glutamine supplementation modulates microbial community and activates innate immunity in the mouse intestine. Amino Acids, 2014, 46, 2403-2413.	1.2	98
142	Glutamine metabolism to glucosamine is necessary for glutamine inhibition of endothelial nitric oxide synthesis. Biochemical Journal, 2001, 353, 245-252.	1.7	97
143	N-acetylcysteine reduces inflammation in the small intestine by regulating redox, EGF and TLR4 signaling. Amino Acids, 2013, 45, 513-522.	1.2	96
144	Impacts of maternal dietary protein intake on fetal survival, growth, and development. Experimental Biology and Medicine, 2018, 243, 525-533.	1.1	96

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145	Parenteral Administration of L-Arginine Enhances Fetal Survival and Growth in Sheep Carrying Multiple Fetuses1â€“3. Journal of Nutrition, 2011, 141, 849-855.	1.3	95
146	Dietary l-Tryptophan Supplementation Enhances the Intestinal Mucosal Barrier Function in Weaned Piglets: Implication of Tryptophan-Metabolizing Microbiota. International Journal of Molecular Sciences, 2019, 20, 20.	1.8	95
147	Activities of arginase I and II are limiting for endothelial cell proliferation. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2002, 282, R64-R69.	0.9	94
148	Proteomic analysis reveals altered expression of proteins related to glutathione metabolism and apoptosis in the small intestine of zinc oxide-supplemented piglets. Amino Acids, 2009, 37, 209-218.	1.2	94
149	Select Nutrients in the Ovine Uterine Lumen. III. Cationic Amino Acid Transporters in the Ovine Uterus and Peri-Implantation Conceptuses1. Biology of Reproduction, 2009, 80, 602-609.	1.2	92
150	Developmental Changes in Polyamine Levels and Synthesis in the Ovine Conceptus1. Biology of Reproduction, 2003, 69, 1626-1634.	1.2	91
151	Select Nutrients in the Ovine Uterine Lumen. VII. Effects of Arginine, Leucine, Glutamine, and Glucose on Trophectoderm Cell Signaling, Proliferation, and Migration1. Biology of Reproduction, 2011, 84, 62-69.	1.2	91
152	Arginine nutrition and fetal brown adipose tissue development in nutrient-restricted sheep. Amino Acids, 2013, 45, 489-499.	1.2	91
153	Chlorogenic Acid Decreases Intestinal Permeability and Increases Expression of Intestinal Tight Junction Proteins in Weaned Rats Challenged with LPS. PLoS ONE, 2014, 9, e97815.	1.1	91
154	L-Tryptophan Activates Mammalian Target of Rapamycin and Enhances Expression of Tight Junction Proteins in Intestinal Porcine Epithelial Cells ,. Journal of Nutrition, 2015, 145, 1156-1162.	1.3	91
155	mTORC1 signaling and ILâ€17 expression: Defining pathways and possible therapeutic targets. European Journal of Immunology, 2016, 46, 291-299.	1.6	91
156	Metabolomic Analysis Reveals Differences in Umbilical Vein Plasma Metabolites between Normal and Growth-Restricted Fetal Pigs during Late Gestation. Journal of Nutrition, 2012, 142, 990-998.	1.3	90
157	Arginine Decarboxylase and Agmatinase: An Alternative Pathway for De Novo Biosynthesis of Polyamines for Development of Mammalian Conceptuses1. Biology of Reproduction, 2014, 90, 84.	1.2	89
158	Statistics and bioinformatics in nutritional sciences: analysis of complex data in the era of systems biologyâ˜†. Journal of Nutritional Biochemistry, 2010, 21, 561-572.	1.9	87
159	L-Glutamate Enhances Barrier and Antioxidative Functions in Intestinal Porcine Epithelial Cells,. Journal of Nutrition, 2015, 145, 2258-2264.	1.3	87
160	Amino Acids As Mediators of Metabolic Cross Talk between Host and Pathogen. Frontiers in Immunology, 2018, 9, 319.	2.2	87
161	Dietary<scp>l</scp>-arginine supplementation enhances intestinal development and expression of vascular endothelial growth factor in weanling piglets. British Journal of Nutrition, 2011, 105, 703-709.	1.2	86
162	Functional roles of fructose. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E1619-28.	3.3	86

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163	Proteomics and Its Role in Nutrition Research. Journal of Nutrition, 2006, 136, 1759-1762.	1.3	85
164	Maternal Dietary Protein Deficiency Decreases Nitric Oxide Synthase and Ornithine Decarboxylase Activities in Placenta and Endometrium of Pigs During Early Gestation. Journal of Nutrition, 1998, 128, 2395-2402.	1.3	84
165	Dietary supplementation with zinc oxide decreases expression of the stem cell factor in the small intestine of weanling pigs. Journal of Nutritional Biochemistry, 2007, 18, 820-826.	1.9	82
166	Alpha-Ketoglutarate and intestinal function. Frontiers in Bioscience - Landmark, 2011, 16, 1186.	3.0	82
167	Glutamine Synthesis in the Developing Porcine Placenta1. Biology of Reproduction, 2004, 70, 1444-1451.	1.2	81
168	Uterine Histotroph and Conceptus Development: Select Nutrients and Secreted Phosphoprotein 1 Affect Mechanistic Target of Rapamycin Cell Signaling in Ewes1. Biology of Reproduction, 2011, 85, 1094-1107.	1.2	81
169	Improving amino acid nutrition to prevent intrauterine growth restriction in mammals. Amino Acids, 2014, 46, 1605-1623.	1.2	80
170	Maternal Dietary Protein Deficiency Decreases Amino Acid Concentrations in Fetal Plasma and Allantoic Fluid of Pigs. Journal of Nutrition, 1998, 128, 894-902.	1.3	79
171	Tryptophan metabolism in animals important roles in nutrition and health. Frontiers in Bioscience - Scholar, 2011, S3, 286-297.	0.8	79
172	Effects of Î±-ketoglutarate on energy status in the intestinal mucosa of weaned piglets chronically challenged with lipopolysaccharide. British Journal of Nutrition, 2011, 106, 357-363.	1.2	79
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