

Xin-Gen Lei

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167
papers

6,998
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45
h-index

78
g-index

175
ext. papers

7,923
ext. citations

5.2
avg. IF

5.99
L-index

#	Paper	IF	Citations
167	Development of insulin resistance and obesity in mice overexpressing cellular glutathione peroxidase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 8852-7	11.5	394
166	Antioxidants in foods: state of the science important to the food industry. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 6837-46	5.7	238
165	Paradoxical Roles of Antioxidant Enzymes: Basic Mechanisms and Health Implications. <i>Physiological Reviews</i> , 2016 , 96, 307-64	47.9	196
164	Metabolic regulation and function of glutathione peroxidase-1. <i>Annual Review of Nutrition</i> , 2007 , 27, 41-61	9.9	187
163	Gene expression of endoplasmic reticulum resident selenoproteins correlates with apoptosis in various muscles of se-deficient chicks. <i>Journal of Nutrition</i> , 2013 , 143, 613-9	4.1	173
162	The pig as an experimental model for elucidating the mechanisms governing dietary influence on mineral absorption. <i>Experimental Biology and Medicine</i> , 2008 , 233, 651-64	3.7	173
161	Phytase, a new life for an "old" enzyme. <i>Annual Review of Animal Biosciences</i> , 2013 , 1, 283-309	13.7	162
160	Selenoprotein W serves as an antioxidant in chicken myoblasts. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013 , 1830, 3112-20	4	158
159	Cellular glutathione peroxidase is the mediator of body selenium to protect against paraquat lethality in transgenic mice. <i>Journal of Nutrition</i> , 1998 , 128, 1070-6	4.1	150
158	Phytase enzymology, applications, and biotechnology. <i>Biotechnology Letters</i> , 2003 , 25, 1787-94	3	145
157	Biotechnological development of effective phytases for mineral nutrition and environmental protection. <i>Applied Microbiology and Biotechnology</i> , 2001 , 57, 474-81	5.7	144
156	Dual potential of microalgae as a sustainable biofuel feedstock and animal feed. <i>Journal of Animal Science and Biotechnology</i> , 2013 , 4, 53	6	143
155	Selenium and diabetes--evidence from animal studies. <i>Free Radical Biology and Medicine</i> , 2013 , 65, 1548-1556	11.56	123
154	Cellular glutathione peroxidase knockout mice express normal levels of selenium-dependent plasma and phospholipid hydroperoxide glutathione peroxidases in various tissues. <i>Journal of Nutrition</i> , 1997 , 127, 1445-50	4.1	121
153	Role of glycosylation in the functional expression of an <i>Aspergillus niger</i> phytase (phyA) in <i>Pichia pastoris</i> . <i>Archives of Biochemistry and Biophysics</i> , 1999 , 364, 83-90	4.1	112
152	Cloning, sequencing, and expression of an <i>Escherichia coli</i> acid phosphatase/phytase gene (appA2) isolated from pig colon. <i>Biochemical and Biophysical Research Communications</i> , 1999 , 257, 117-23	3.4	112
151	Molecular mechanisms for hyperinsulinaemia induced by overproduction of selenium-dependent glutathione peroxidase-1 in mice. <i>Diabetologia</i> , 2008 , 51, 1515-24	10.3	110

150	miR-200a-5p regulates myocardial necroptosis induced by Se deficiency via targeting RNF11. <i>Redox Biology</i> , 2018 , 15, 159-169	11.3	104
149	Selenium-dependent cellular glutathione peroxidase protects mice against a pro-oxidant-induced oxidation of NADPH, NADH, lipids, and protein. <i>FASEB Journal</i> , 1999 , 13, 1467-75	0.9	102
148	Site-directed mutagenesis improves catalytic efficiency and thermostability of Escherichia coli pH 2.5 acid phosphatase/phytase expressed in Pichia pastoris. <i>Archives of Biochemistry and Biophysics</i> , 2000 , 382, 105-12	4.1	99
147	Expression of the Aspergillus fumigatus phytase gene in Pichia pastoris and characterization of the recombinant enzyme. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 268, 373-8	3.4	99
146	Expression of an Aspergillus niger phytase gene (phyA) in Saccharomyces cerevisiae. <i>Applied and Environmental Microbiology</i> , 1999 , 65, 1915-8	4.8	99
145	Knockout of cellular glutathione peroxidase gene renders mice susceptible to diquat-induced oxidative stress. <i>Free Radical Biology and Medicine</i> , 1999 , 27, 605-11	7.8	95
144	A high-selenium diet induces insulin resistance in gestating rats and their offspring. <i>Free Radical Biology and Medicine</i> , 2012 , 52, 1335-42	7.8	91
143	The selenium deficiency disease exudative diathesis in chicks is associated with downregulation of seven common selenoprotein genes in liver and muscle. <i>Journal of Nutrition</i> , 2011 , 141, 1605-10	4.1	91
142	Two tales of antioxidant enzymes on β cells and diabetes. <i>Antioxidants and Redox Signaling</i> , 2011 , 14, 489-503	8.4	88
141	Prolonged dietary selenium deficiency or excess does not globally affect selenoprotein gene expression and/or protein production in various tissues of pigs. <i>Journal of Nutrition</i> , 2012 , 142, 1410-6	4.1	86
140	Selenoprotein gene expression in thyroid and pituitary of young pigs is not affected by dietary selenium deficiency or excess. <i>Journal of Nutrition</i> , 2009 , 139, 1061-6	4.1	83
139	Opposite roles of selenium-dependent glutathione peroxidase-1 in superoxide generator diquat- and peroxynitrite-induced apoptosis and signaling. <i>Journal of Biological Chemistry</i> , 2001 , 276, 43004-9	5.4	81
138	Different sensitivity of recombinant Aspergillus niger phytase (r-PhyA) and Escherichia coli pH 2.5 acid phosphatase (r-AppA) to trypsin and pepsin in vitro. <i>Archives of Biochemistry and Biophysics</i> , 1999 , 365, 262-7	4.1	80
137	Meeting Global Feed Protein Demand: Challenge, Opportunity, and Strategy. <i>Annual Review of Animal Biosciences</i> , 2019 , 7, 221-243	13.7	76
136	Shifting the pH profile of Aspergillus niger PhyA phytase to match the stomach pH enhances its effectiveness as an animal feed additive. <i>Applied and Environmental Microbiology</i> , 2006 , 72, 4397-403	4.8	71
135	Enhancing thermostability of Escherichia coli phytase AppA2 by error-prone PCR. <i>Applied Microbiology and Biotechnology</i> , 2008 , 79, 69-75	5.7	68
134	Overexpression of cellular glutathione peroxidase does not affect expression of plasma glutathione peroxidase or phospholipid hydroperoxide glutathione peroxidase in mice offered diets adequate or deficient in selenium. <i>Journal of Nutrition</i> , 1997 , 127, 675-80	4.1	66
133	Knockouts of SOD1 and GPX1 exert different impacts on murine islet function and pancreatic integrity. <i>Antioxidants and Redox Signaling</i> , 2011 , 14, 391-401	8.4	65

132	Selenoproteins protect against avian nutritional muscular dystrophy by metabolizing peroxides and regulating redox/apoptotic signaling. <i>Free Radical Biology and Medicine</i> , 2015 , 83, 129-38	7.8	62
131	Potential and limitation of a new defatted diatom microalgal biomass in replacing soybean meal and corn in diets for broiler chickens. <i>Journal of Agricultural and Food Chemistry</i> , 2013 , 61, 7341-8	5.7	62
130	Supplemental dietary inulin affects the bioavailability of iron in corn and soybean meal to young pigs. <i>Journal of Nutrition</i> , 2006 , 136, 3033-8	4.1	62
129	High Dietary Selenium Intake Alters Lipid Metabolism and Protein Synthesis in Liver and Muscle of Pigs. <i>Journal of Nutrition</i> , 2016 , 146, 1625-33	4.1	61
128	Mice deficient in Cu,Zn-superoxide dismutase are resistant to acetaminophen toxicity. <i>Biochemical Journal</i> , 2006 , 399, 455-61	3.8	58
127	Adopting selected hydrogen bonding and ionic interactions from <i>Aspergillus fumigatus</i> phytase structure improves the thermostability of <i>Aspergillus niger</i> PhyA phytase. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 3069-76	4.8	57
126	Low levels of glutathione peroxidase 1 activity in selenium-deficient mouse liver affect c-Jun N-terminal kinase activation and p53 phosphorylation on Ser-15 in pro-oxidant-induced apoptosis. <i>Biochemical Journal</i> , 2003 , 370, 927-34	3.8	52
125	Site-directed mutagenesis of <i>Aspergillus niger</i> NRRL 3135 phytase at residue 300 to enhance catalysis at pH 4.0. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 297, 1016-20	3.4	52
124	Crystal structure of a heat-resilient phytase from <i>Aspergillus fumigatus</i> , carrying a phosphorylated histidine. <i>Journal of Molecular Biology</i> , 2004 , 339, 437-45	6.5	47
123	Expression of Selenoprotein Genes Is Affected by Obesity of Pigs Fed a High-Fat Diet. <i>Journal of Nutrition</i> , 2015 , 145, 1394-401	4.1	46
122	Glutathione peroxidase-1 gene knockout on body antioxidant defense in mice. <i>BioFactors</i> , 2001 , 14, 93-96.1		45
121	Nutritional and metabolic impacts of a defatted green marine microalgal (<i>Desmodesmus</i> sp.) biomass in diets for weanling pigs and broiler chickens. <i>Journal of Agricultural and Food Chemistry</i> , 2014 , 62, 9783-91	5.7	44
120	In vivo antioxidant role of glutathione peroxidase: evidence from knockout mice. <i>Methods in Enzymology</i> , 2002 , 347, 213-25	1.7	44
119	Role of glutathione peroxidase 1 in glucose and lipid metabolism-related diseases. <i>Free Radical Biology and Medicine</i> , 2018 , 127, 108-115	7.8	44
118	Phytase: Source, Structure and Application 2007 , 505-529		43
117	A Novel Organic Selenium Compound Exerts Unique Regulation of Selenium Speciation, Selenome, and Selenoproteins in Broiler Chicks. <i>Journal of Nutrition</i> , 2017 , 147, 789-797	4.1	42
116	Enhanced water-holding capacity of meat was associated with increased Sepw1 gene expression in pigs fed selenium-enriched yeast. <i>Meat Science</i> , 2011 , 87, 95-100	6.4	42
115	Impacts of glutathione peroxidase-1 knockout on the protection by injected selenium against the pro-oxidant-induced liver apoptosis and signaling in selenium-deficient mice. <i>Free Radical Biology and Medicine</i> , 2003 , 34, 918-27	7.8	41

114	New roles for an old selenoenzyme: evidence from glutathione peroxidase-1 null and overexpressing mice. <i>Journal of Nutrition</i> , 2005 , 135, 2295-8	4.1	41
113	The proteomic profiling of multiple tissue damage in chickens for a selenium deficiency biomarker discovery. <i>Food and Function</i> , 2020 , 11, 1312-1321	6.1	40
112	Glutathione peroxidase mimic ebselen improves glucose-stimulated insulin secretion in murine islets. <i>Antioxidants and Redox Signaling</i> , 2014 , 20, 191-203	8.4	38
111	Selenium. <i>Advances in Nutrition</i> , 2016 , 7, 415-7	10	37
110	Cellular glutathione peroxidase protects mice against lethal oxidative stress induced by various doses of diquat. <i>Proceedings of the Society for Experimental Biology and Medicine</i> , 1999 , 222, 164-9		37
109	Supplemental dietary inulin influences expression of iron and inflammation related genes in young pigs. <i>Journal of Nutrition</i> , 2009 , 139, 2018-23	4.1	36
108	Knockout of cellular glutathione peroxidase affects selenium-dependent parameters similarly in mice fed adequate and excessive dietary selenium. <i>BioFactors</i> , 1998 , 7, 311-21	6.1	36
107	Preferential resistance of dopaminergic neurons to the toxicity of glutathione depletion is independent of cellular glutathione peroxidase and is mediated by tetrahydrobiopterin. <i>Journal of Neurochemistry</i> , 2000 , 74, 2305-14	6	36
106	Starch and starch hydrolysates are favorable carbon sources for bifidobacteria in the human gut. <i>BMC Microbiology</i> , 2015 , 15, 54	4.5	34
105	Role of copper,zinc-superoxide dismutase in catalyzing nitrotyrosine formation in murine liver. <i>Free Radical Biology and Medicine</i> , 2008 , 45, 611-8	7.8	34
104	Algal food and fuel coproduction can mitigate greenhouse gas emissions while improving land and water-use efficiency. <i>Environmental Research Letters</i> , 2016 , 11, 114006	6.2	33
103	Selenium and Selenoproteins in Adipose Tissue Physiology and Obesity. <i>Biomolecules</i> , 2020 , 10,	5.9	32
102	Dietary selenium deficiency partially rescues type 2 diabetes-like phenotypes of glutathione peroxidase-1-overexpressing male mice. <i>Journal of Nutrition</i> , 2012 , 142, 1975-82	4.1	32
101	Comparison of extracellular Escherichia coli AppA phytases expressed in Streptomyces lividans and Pichia pastoris. <i>Biotechnology Letters</i> , 2003 , 25, 827-31	3	32
100	High levels of dietary vitamin E do not replace cellular glutathione peroxidase in protecting mice from acute oxidative stress. <i>Journal of Nutrition</i> , 1999 , 129, 1951-7	4.1	32
99	Knockout of SOD1 alters murine hepatic glycolysis, gluconeogenesis, and lipogenesis. <i>Free Radical Biology and Medicine</i> , 2012 , 53, 1689-96	7.8	31
98	Creating EB Fatty-Acid-Enriched Chicken Using Defatted Green Microalgal Biomass. <i>Journal of Agricultural and Food Chemistry</i> , 2015 , 63, 9315-22	5.7	30
97	Impacts of dietary selenium deficiency on metabolic phenotypes of diet-restricted GPX1-overexpressing mice. <i>Antioxidants and Redox Signaling</i> , 2011 , 14, 383-90	8.4	29

96	A new phytase expressed in yeast effectively improves the bioavailability of phytate phosphorus to weanling pigs. <i>Journal of Animal Science</i> , 2000 , 78, 668-74	0.7	29
95	Corn cob cellulose nanosphere as an eco-friendly detergent. <i>Nature Sustainability</i> , 2020 , 3, 448-458	22.1	28
94	Cumulative improvements of thermostability and pH-activity profile of <i>Aspergillus niger</i> PhyA phytase by site-directed mutagenesis. <i>Applied Microbiology and Biotechnology</i> , 2008 , 77, 1033-40	5.7	28
93	Protective Potential of the Glutathione Peroxidase-1 Gene in Abnormal Behaviors Induced by Phencyclidine in Mice. <i>Molecular Neurobiology</i> , 2017 , 54, 7042-7062	6.2	27
92	Iron and zinc bioavailabilities to pigs from red and white beans (<i>Phaseolus vulgaris</i> L.) are similar. <i>Journal of Agricultural and Food Chemistry</i> , 2009 , 57, 3134-40	5.7	26
91	Functional expression of keratinase (kerA) gene from <i>Bacillus licheniformis</i> in <i>Pichia pastoris</i> . <i>Biotechnology Letters</i> , 2002 , 24, 631-636	3	26
90	Crystallographic snapshots of <i>Aspergillus fumigatus</i> phytase, revealing its enzymatic dynamics. <i>Structure</i> , 2004 , 12, 1575-83	5.2	25
89	Comparative impacts of glutathione peroxidase-1 gene knockout on oxidative stress induced by reactive oxygen and nitrogen species in mouse hepatocytes. <i>Biochemical Journal</i> , 2001 , 359, 687-695	3.8	25
88	Oxidative stress induced by Se-deficient high-energy diet implicates neutrophil dysfunction via Nrf2 pathway suppression in swine. <i>Oncotarget</i> , 2017 , 8, 13428-13439	3.3	24
87	Dietary Selenium Deficiency or Excess Reduces Sperm Quality and Testicular mRNA Abundance of Nuclear Glutathione Peroxidase 4 in Rats. <i>Journal of Nutrition</i> , 2017 , 147, 1947-1953	4.1	24
86	Malondialdehyde regulates glucose-stimulated insulin secretion in murine islets via TCF7L2-dependent Wnt signaling pathway. <i>Molecular and Cellular Endocrinology</i> , 2014 , 382, 8-16	4.4	24
85	Assembly of mutations for improving thermostability of <i>Escherichia coli</i> AppA2 phytase. <i>Applied Microbiology and Biotechnology</i> , 2008 , 79, 751-8	5.7	24
84	Porcine serum can be biofortified with selenium to inhibit proliferation of three types of human cancer cells. <i>Journal of Nutrition</i> , 2013 , 143, 1115-22	4.1	23
83	Meat enhances nonheme iron absorption in pigs. <i>Nutrition Research</i> , 2000 , 20, 1749-1759	4	22
82	Effect of dietary defatted diatom biomass on egg production and quality of laying hens. <i>Journal of Animal Science and Biotechnology</i> , 2014 , 5, 3	6	21
81	Continual feeding of two types of microalgal biomass affected protein digestion and metabolism in laying hens. <i>Journal of Animal Science</i> , 2015 , 93, 287-97	0.7	21
80	Expression and characterization of a thermostable serine protease (TfpA) from <i>Thermomonospora fusca</i> YX in <i>Pichia pastoris</i> . <i>Applied Microbiology and Biotechnology</i> , 2005 , 68, 355-9	5.7	21
79	Expression of <i>Escherichia coli</i> AppA2 phytase in four yeast systems. <i>Biotechnology Letters</i> , 2005 , 27, 327-34	3	21

78	Marine Microalgae: Climate, Energy, and Food Security from the Sea. <i>Oceanography</i> , 2016 , 29,	2.3	21
77	Evolution, regulation, and function of porcine selenogenome. <i>Free Radical Biology and Medicine</i> , 2018 , 127, 116-123	7.8	19
76	Knockout of SOD1 promotes conversion of selenocysteine to dehydroalanine in murine hepatic GPX1 protein. <i>Free Radical Biology and Medicine</i> , 2011 , 51, 197-204	7.8	19
75	Supplemental <i>Escherichia coli</i> phytase and strontium enhance bone strength of young pigs fed a phosphorus-adequate diet. <i>Journal of Nutrition</i> , 2007 , 137, 1795-801	4.1	18
74	Defatted microalgae serve as a dual dietary source of highly bioavailable iron and protein in an anemic pig model. <i>Algal Research</i> , 2017 , 26, 409-414	5	16
73	Lipopolysaccharide and interferon-gamma-induced nitric oxide production and protein oxidation in mouse peritoneal macrophages are affected by glutathione peroxidase-1 gene knockout. <i>Free Radical Biology and Medicine</i> , 2001 , 31, 450-9	7.8	16
72	Avian selenogenome: response to dietary Se and vitamin E deficiency and supplementation. <i>Poultry Science</i> , 2019 , 98, 4247-4254	3.9	16
71	Characterization of Selenoprotein M and Its Response to Selenium Deficiency in Chicken Brain. <i>Biological Trace Element Research</i> , 2016 , 170, 449-58	4.5	15
70	Genetic overexpression of glutathione peroxidase-1 attenuates microcystin-leucine-arginine-induced memory impairment in mice. <i>Neurochemistry International</i> , 2018 , 118, 152-165	4.4	15
69	Lipopolysaccharide-induced hepatic oxidative injury is not potentiated by knockout of GPX1 and SOD1 in mice. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 404, 559-63	3.4	15
68	Molecular characterization and NF- κ B-regulated transcription of selenoprotein S from the Bama mini-pig. <i>Molecular Biology Reports</i> , 2011 , 38, 4281-6	2.8	15
67	Comparative impacts of knockouts of two antioxidant enzymes on acetaminophen-induced hepatotoxicity in mice. <i>Experimental Biology and Medicine</i> , 2009 , 234, 1477-83	3.7	15
66	Double null of selenium-glutathione peroxidase-1 and copper, zinc-superoxide dismutase enhances resistance of mouse primary hepatocytes to acetaminophen toxicity. <i>Experimental Biology and Medicine</i> , 2006 , 231, 545-52	3.7	15
65	Phytase activity in <i>Aspergillus fumigatus</i> isolates. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 275, 759-63	3.4	15
64	Sulforaphane Prevents Hepatic Insulin Resistance by Blocking Serine Palmitoyltransferase 3-Mediated Ceramide Biosynthesis. <i>Nutrients</i> , 2019 , 11,	6.7	14
63	PCV2 infection aggravates ochratoxin A-induced nephrotoxicity via autophagy involving p38 signaling pathway <i>in vivo</i> and <i>in vitro</i> . <i>Environmental Pollution</i> , 2018 , 238, 656-662	9.3	14
62	Selenium Deficiency-Induced Apoptosis of Chick Embryonic Vascular Smooth Muscle Cells and Correlations with 25 Selenoproteins. <i>Biological Trace Element Research</i> , 2017 , 176, 407-415	4.5	14
61	Comparative impacts of glutathione peroxidase-1 gene knockout on oxidative stress induced by reactive oxygen and nitrogen species in mouse hepatocytes. <i>Biochemical Journal</i> , 2001 , 359, 687-95	3.8	14

60	Genetic overexpressing of GPx-1 attenuates cocaine-induced renal toxicity via induction of anti-apoptotic factors. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2016 , 43, 428-37	3	14
59	Selenium Deficiency Influences the Expression of Selenoproteins and Inflammatory Cytokines in Chicken Aorta Vessels. <i>Biological Trace Element Research</i> , 2016 , 173, 501-13	4.5	14
58	Supplemental microalgal astaxanthin produced coordinated changes in intrinsic antioxidant systems of layer hens exposed to heat stress. <i>Algal Research</i> , 2018 , 33, 84-90	5	14
57	Impact of Cu, Zn-superoxide dismutase and Se-dependent glutathione peroxidase-1 knockouts on acetaminophen-induced cell death and related signaling in murine liver. <i>Experimental Biology and Medicine</i> , 2006 , 231, 1726-32	3.7	13
56	Knockout of Selenoprotein V Affects Regulation of Selenoprotein Expression by Dietary Selenium and Fat Intakes in Mice. <i>Journal of Nutrition</i> , 2020 , 150, 483-491	4.1	13
55	Characterization and milk coagulating properties of <i>Cynanchum otophyllum</i> Schneid. proteases. <i>Journal of Dairy Science</i> , 2018 , 101, 2842-2850	4	12
54	Dose-Dependent Enrichments and Improved Redox Status in Tissues of Broiler Chicks under Heat Stress by Dietary Supplemental Microalgal Astaxanthin. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 5521-5530	5.7	12
53	Comparison of age-related differences in expression of phospholipid hydroperoxide glutathione peroxidase mRNA and activity in various tissues of pigs. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 1997 , 117, 109-14	2.3	12
52	Combined innovations in public policy, the private sector and culture can drive sustainability transitions in food systems. <i>Nature Food</i> , 2021 , 2, 282-290	14.4	12
51	Potential of combining flaxseed oil and microalgal biomass in producing eggs-enriched with n Ω fatty acids for meeting human needs. <i>Algal Research</i> , 2016 , 17, 31-37	5	11
50	Impact of assay conditions on activity estimate and kinetics comparison of <i>Aspergillus niger</i> PhyA and <i>Escherichia coli</i> AppA2 phytases. <i>Journal of Agricultural and Food Chemistry</i> , 2009 , 57, 5315-20	5.7	11
49	Selenoprotein V protects against endoplasmic reticulum stress and oxidative injury induced by pro-oxidants. <i>Free Radical Biology and Medicine</i> , 2020 , 160, 670-679	7.8	11
48	Effects of Dietary Selenium Deficiency or Excess on Selenoprotein Gene Expression in the Spleen Tissue of Pigs. <i>Animals</i> , 2019 , 9,	3.1	11
47	Astrocytic mobilization of glutathione peroxidase-1 contributes to the protective potential against cocaine kindling behaviors in mice via activation of JAK2/STAT3 signaling. <i>Free Radical Biology and Medicine</i> , 2019 , 131, 408-431	7.8	11
46	Glutathione peroxidase-1 and neuromodulation: Novel potentials of an old enzyme. <i>Food and Chemical Toxicology</i> , 2021 , 148, 111945	4.7	11
45	A novel upregulation of glutathione peroxidase 1 by knockout of liver-regenerating protein Reg3 β aggravates acetaminophen-induced hepatic protein nitration. <i>Free Radical Biology and Medicine</i> , 2013 , 65, 291-300	7.8	10
44	Effects of gpx4 haploid insufficiency on GPx4 activity, selenium concentration, and paraquat-induced protein oxidation in murine tissues. <i>Experimental Biology and Medicine</i> , 2005 , 230, 709-714	3.7	10
43	Genetic depletion of glutathione peroxidase-1 potentiates nephrotoxicity induced by multiple doses of cocaine via activation of angiotensin II AT1 receptor. <i>Free Radical Research</i> , 2016 , 50, 467-83	4	10

42	Defatted Microalgae-Mediated Enrichment of n-3 Polyunsaturated Fatty Acids in Chicken Muscle Is Not Affected by Dietary Selenium, Vitamin E, or Corn Oil. <i>Journal of Nutrition</i> , 2018 , 148, 1547-1555	4.1	10
41	Supplemental methionine and stocking density affect antioxidant status, fatty acid profiles, and growth performance of broiler chickens. <i>Journal of Animal Science</i> , 2020 , 98,	0.7	9
40	Regulation and function of avian selenome. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018 , 1862, 2473-2479	4	9
39	Graded levels of a defatted green microalgae inclusion in diets for broiler chicks led to moderate up-regulation of protein synthesis pathway in the muscle and liver. <i>Algal Research</i> , 2018 , 29, 290-296	5	9
38	Glutathione peroxidase-1 overexpressing transgenic mice are protected from neurotoxicity induced by microcystin-leucine-arginine. <i>Environmental Toxicology</i> , 2018 , 33, 1019-1028	4.2	9
37	Inclusion of Dietary Defatted Microalgae Dose-Dependently Enriches ω 3 Fatty Acids in Egg Yolk and Tissues of Laying Hens. <i>Journal of Nutrition</i> , 2019 , 149, 942-950	4.1	8
36	Altering the substrate specificity site of Aspergillus niger PhyB shifts the pH optimum to pH 3.2. <i>Applied Microbiology and Biotechnology</i> , 2007 , 76, 117-22	5.7	8
35	Knockouts of Se-glutathione peroxidase-1 and Cu,Zn superoxide dismutase exert different impacts on femoral mechanical performance of growing mice. <i>Molecular Nutrition and Food Research</i> , 2008 , 52, 1334-9	5.9	8
34	Supplemental methionine exerted chemical form-dependent effects on antioxidant status, inflammation-related gene expression, and fatty acid profiles of broiler chicks raised at high ambient temperature ¹ . <i>Journal of Animal Science</i> , 2019 , 97, 4883-4894	0.7	8
33	Supplemental defatted microalgae affects egg and tissue fatty acid composition differently in laying hens fed diets containing corn and flaxseed oil. <i>Journal of Applied Poultry Research</i> , 2016 , 25, 528-538	3.8	7
32	Dietary supplemental microalgal astaxanthin modulates molecular profiles of stress, inflammation, and lipid metabolism in broiler chickens and laying hens under high ambient temperatures. <i>Poultry Science</i> , 2020 , 99, 4853-4860	3.9	7
31	Glutathione peroxidase-1 inhibits transcription of regenerating islet-derived protein-2 in pancreatic islets. <i>Free Radical Biology and Medicine</i> , 2019 , 134, 385-393	7.8	5
30	Protective potential of glutathione peroxidase-1 gene against cocaine-induced acute hepatotoxic consequences in mice. <i>Journal of Applied Toxicology</i> , 2018 , 38, 1502-1520	4.1	5
29	High Dietary Fat and Selenium Concentrations Exert Tissue- and Glutathione Peroxidase 1-Dependent Impacts on Lipid Metabolism of Young-Adult Mice. <i>Journal of Nutrition</i> , 2020 , 150, 1738-1748	4.1	4
28	The Effects of Endoplasmic-Reticulum-Resident Selenoproteins in a Nonalcoholic Fatty Liver Disease Pig Model Induced by a High-Fat Diet. <i>Nutrients</i> , 2020 , 12,	6.7	4
27	Effect of a Multi-Carbohydrase and Phytase Complex on the Ileal and Total Tract Digestibility of Nutrients in Cannulated Growing Pigs. <i>Animals</i> , 2020 , 10,	3.1	4
26	Supplemental dietary full-fatted and defatted <i>Desmodesmus</i> sp. exerted similar effects on growth performance, gut health, and excreta hydrothermal liquefaction of broiler chicks. <i>Algal Research</i> , 2021 , 54, 102205	5	4
25	Supplemental Docosahexaenoic-Acid-Enriched Microalgae Affected Fatty Acid and Metabolic Profiles and Related Gene Expression in Several Tissues of Broiler Chicks. <i>Journal of Agricultural and Food Chemistry</i> , 2019 , 67, 6497-6507	5.7	3

24	Differentially Expressed Genes in Subcutaneous Fat Tissue in an Obese Pig Model Induced by a High-Fat Diet. <i>Journal of Animal and Veterinary Advances</i> , 2011 , 10, 1804-1810	0.1	3
23	Supplemental Microalgal Iron Helps Replete Blood Hemoglobin in Moderately Anemic Mice Fed a Rice-Based Diet. <i>Nutrients</i> , 2020 , 12,	6.7	3
22	90th Anniversary Commentary: Beginning of the Selenoprotein Era. <i>Journal of Nutrition</i> , 2018 , 148, 1652-1655	4.1	3
21	GPx-1-encoded adenoviral vector attenuates dopaminergic impairments induced by methamphetamine in GPx-1 knockout mice through modulation of NF- κ B transcription factor. <i>Food and Chemical Toxicology</i> , 2021 , 154, 112313	4.7	3
20	2-Deoxyglucose-Modified Folate Derivative: Self-Assembling Nanoparticle Able to Load Cisplatin. <i>Molecules</i> , 2019 , 24,	4.8	2
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