

Xin-Gen Lei

List of Publications by Year in Descending Order

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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.

167
papers

6,998
citations

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	Dietary microalgae on poultry meat and eggs: explained versus unexplained effects.. <i>Current Opinion in Biotechnology</i> , 2022 , 75, 102689	11.4	2
166	Excessive Aurantiochytrium acetophilum docosahexaenoic acid supplementation decreases growth performance and breast muscle mass of broiler chickens. <i>Algal Research</i> , 2022 , 63, 102648	5	0
165	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
164	Supplemental dietary full-fatted and defatted <i>Desmodium</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
163	Unveiling the keratinolytic transcriptome of the black carpet beetle (<i>Attagenus unicolor</i>) for sustainable poultry feather recycling. <i>Applied Microbiology and Biotechnology</i> , 2021 , 105, 5577-5587	5.7	1
162	Glutathione peroxidase-1 and neuromodulation: Novel potentials of an old enzyme. <i>Food and Chemical Toxicology</i> , 2021 , 148, 111945	4.7	11
161	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
160	Loss of Selenop predisposes mice to extra fat accumulation and attenuated energy expenditure. <i>Redox Biology</i> , 2021 , 45, 102048	11.3	2
159	Gut Microbiota as a Mediator of Essential and Toxic Effects of Zinc in the Intestines and Other Tissues. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
158	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
157	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
156	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
155	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
154	Selenium and Selenoproteins in Adipose Tissue Physiology and Obesity. <i>Biomolecules</i> , 2020 , 10,	5.9	32
153	Corn cob cellulose nanosphere as an eco-friendly detergent. <i>Nature Sustainability</i> , 2020 , 3, 448-458	22.1	28
152	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
151	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

150	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
149	Supplemental Microalgal Iron Helps Replete Blood Hemoglobin in Moderately Anemic Mice Fed a Rice-Based Diet. <i>Nutrients</i> , 2020 , 12,	6.7	3
148	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
147	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
146	Sulforaphane Prevents Hepatic Insulin Resistance by Blocking Serine Palmitoyltransferase 3-Mediated Ceramide Biosynthesis. <i>Nutrients</i> , 2019 , 11,	6.7	14
145	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
144	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
143	2-Deoxyglucose-Modified Folate Derivative: Self-Assembling Nanoparticle Able to Load Cisplatin. <i>Molecules</i> , 2019 , 24,	4.8	2
142	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
141	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
140	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
139	Meeting Global Feed Protein Demand: Challenge, Opportunity, and Strategy. <i>Annual Review of Animal Biosciences</i> , 2019 , 7, 221-243	13.7	76
138	Avian selenogenome: response to dietary Se and vitamin E deficiency and supplementation. <i>Poultry Science</i> , 2019 , 98, 4247-4254	3.9	16
137	Cloning, expression, and characterization of a porcine pancreatic β amylase in. <i>Animal Nutrition</i> , 2018 , 4, 234-240	4.8	0
136	PCV2 infection aggravates ochratoxin A-induced nephrotoxicity via autophagy involving p38 signaling pathway in vivo and in vitro. <i>Environmental Pollution</i> , 2018 , 238, 656-662	9.3	14
135	Regulation and function of avian selenogenome. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018 , 1862, 2473-2479	4	9
134	Sustaining the Future of Animal Feed Protein. <i>Industrial Biotechnology</i> , 2018 , 14, 74-76	1.3	1
133	Characterization and milk coagulating properties of <i>Cynanchum otophyllum</i> Schneid. proteases. <i>Journal of Dairy Science</i> , 2018 , 101, 2842-2850	4	12

132	miR-200a-5p regulates myocardial necroptosis induced by Se deficiency via targeting RNF11. <i>Redox Biology</i> , 2018 , 15, 159-169	11.3	104
131	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
130	Evolution, regulation, and function of porcine selenogenome. <i>Free Radical Biology and Medicine</i> , 2018 , 127, 116-123	7.8	19
129	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
128	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
127	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
126	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
125	90th Anniversary Commentary: Beginning of the Selenoprotein Era. <i>Journal of Nutrition</i> , 2018 , 148, 1652-1655	3	
124	Selenium and Diabetes. <i>Molecular and Integrative Toxicology</i> , 2018 , 317-344	0.5	2
123	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
122	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
121	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
120	A Novel Organic Selenium Compound Exerts Unique Regulation of Selenium Speciation, Selenogenome, and Selenoproteins in Broiler Chicks. <i>Journal of Nutrition</i> , 2017 , 147, 789-797	4.1	42
119	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
118	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
117	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
116	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
115	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

114	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
113	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
112	Glutathione Peroxidase 1: Models for Diabetes and Obesity 2016 , 587-594		1
111	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	3.3	7
110	Potential of combining flaxseed oil and microalgal biomass in producing eggs-enriched with n-3 fatty acids for meeting human needs. <i>Algal Research</i> , 2016 , 17, 31-37	5	11
109	Selenium. <i>Advances in Nutrition</i> , 2016 , 7, 415-7	10	37
108	Paradoxical Roles of Antioxidant Enzymes: Basic Mechanisms and Health Implications. <i>Physiological Reviews</i> , 2016 , 96, 307-64	47.9	196
107	Marine Microalgae: Climate, Energy, and Food Security from the Sea. <i>Oceanography</i> , 2016 , 29,	2.3	21
106	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
105	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
104	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
103	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
102	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
101	Starch and starch hydrolysates are favorable carbon sources for bifidobacteria in the human gut. <i>BMC Microbiology</i> , 2015 , 15, 54	4.5	34
100	Creating n-3 Fatty-Acid-Enriched Chicken Using Defatted Green Microalgal Biomass. <i>Journal of Agricultural and Food Chemistry</i> , 2015 , 63, 9315-22	5.7	30
99	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
98	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
97	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

96	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
95	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
94	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
93	Selenium and diabetes--evidence from animal studies. <i>Free Radical Biology and Medicine</i> , 2013 , 65, 1548-1556	7.56	123
92	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
91	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
90	Phytase, a new life for an "old" enzyme. <i>Annual Review of Animal Biosciences</i> , 2013 , 1, 283-309	13.7	162
89	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
88	Selenoprotein W serves as an antioxidant in chicken myoblasts. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013 , 1830, 3112-20	4	158
87	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
86	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
85	Knockout of SOD1 alters murine hepatic glycolysis, gluconeogenesis, and lipogenesis. <i>Free Radical Biology and Medicine</i> , 2012 , 53, 1689-96	7.8	31
84	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
83	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
82	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
81	Association of selenoprotein gene expression with pancreatic atrophy in broiler chicks. <i>FASEB Journal</i> , 2012 , 26, 241.8	0.9	
80	Two tales of antioxidant enzymes on β cells and diabetes. <i>Antioxidants and Redox Signaling</i> , 2011 , 14, 489-503	8.4	88
79	Mineral Elements: Micro (Trace) 2011 , 777-780		

78	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
77	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
76	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
75	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
74	Glutathione Peroxidase 1 and Diabetes 2011 , 261-270		
73	Molecular characterization and NF-B-regulated transcription of selenoprotein S from the Bama mini-pig. <i>Molecular Biology Reports</i> , 2011 , 38, 4281-6	2.8	15
72	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
71	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
70	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
69	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
68	Gene expression profile of selenoproteins in an obese pig model induced by a high-fat diet. <i>FASEB Journal</i> , 2010 , 24, 916.3	0.9	
67	Effects of dietary Se deficiency or excess on gene expression of 13 novel selenoproteins in growing pigs. <i>FASEB Journal</i> , 2010 , 24, 916.2	0.9	
66	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
65	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
64	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
63	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
62	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
61	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

60	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
59	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
58	Enhancing thermostability of <i>Escherichia coli</i> phytase AppA2 by error-prone PCR. <i>Applied Microbiology and Biotechnology</i> , 2008 , 79, 69-75	5.7	68
57	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
56	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
55	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
54	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
53	Metabolic regulation and function of glutathione peroxidase-1. <i>Annual Review of Nutrition</i> , 2007 , 27, 41-61	9.9	187
52	Altering the substrate specificity site of <i>Aspergillus niger</i> PhyB shifts the pH optimum to pH 3.2. <i>Applied Microbiology and Biotechnology</i> , 2007 , 76, 117-22	5.7	8
51	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
50	Phytase: Source, Structure and Application 2007 , 505-529		43
49	Shifting the pH profile of <i>Aspergillus niger</i> 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
48	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
47	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
46	Mice deficient in Cu,Zn-superoxide dismutase are resistant to acetaminophen toxicity. <i>Biochemical Journal</i> , 2006 , 399, 455-61	3.8	58
45	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
44	Red and white beans provide equivalent amounts of bioavailable iron to weanling piglets. <i>FASEB Journal</i> , 2006 , 20, LB88	0.9	
43	New roles of glutathione peroxidase-1 in oxidative stress and diabetes 2006 , 173-182		2

42	Expression of Microbial Phytases in Yeast Systems and Characterization of the Recombinant Enzymes 2005 , 209-224		1
41	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
40	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
39	Expression of <i>Escherichia coli</i> AppA2 phytase in four yeast systems. <i>Biotechnology Letters</i> , 2005 , 27, 327-34	3.4	21
38	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
37	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
36	Crystallographic snapshots of <i>Aspergillus fumigatus</i> phytase, revealing its enzymatic dynamics. <i>Structure</i> , 2004 , 12, 1575-83	5.2	25
35	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
34	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
33	Comparison of extracellular <i>Escherichia coli</i> AppA phytases expressed in <i>Streptomyces lividans</i> and <i>Pichia pastoris</i> . <i>Biotechnology Letters</i> , 2003 , 25, 827-31	3	32
32	Phytase enzymology, applications, and biotechnology. <i>Biotechnology Letters</i> , 2003 , 25, 1787-94	3	145
31	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
30	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
29	Analysis of phospholipid hydroperoxide glutathione peroxidase mRNA. <i>Methods in Molecular Biology</i> , 2002 , 196, 183-93	1.4	
28	In vivo antioxidant role of glutathione peroxidase: evidence from knockout mice. <i>Methods in Enzymology</i> , 2002 , 347, 213-25	1.7	44
27	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
26	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
25	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

24	Biotechnological development of effective phytases for mineral nutrition and environmental protection. <i>Applied Microbiology and Biotechnology</i> , 2001 , 57, 474-81	5.7	144
23	Glutathione peroxidase-1 gene knockout on body antioxidant defense in mice. <i>BioFactors</i> , 2001 , 14, 93-96.1		45
22	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
21	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
20	Differential Regulation and Function of Glutathione Peroxidases and Other Selenoproteins. <i>Modern Nutrition</i> , 2001 , 425-448		
19	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
18	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
17	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
16	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
15	Phytase activity in Aspergillus fumigatus isolates. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 275, 759-63	3.4	15
14	Meat enhances nonheme iron absorption in pigs. <i>Nutrition Research</i> , 2000 , 20, 1749-1759	4	22
13	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
12	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
11	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
10	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
9	Role of glycosylation in the functional expression of an Aspergillus niger phytase (phyA) in Pichia pastoris. <i>Archives of Biochemistry and Biophysics</i> , 1999 , 364, 83-90	4.1	112
8	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
7	Cloning, sequencing, and expression of an Escherichia coli acid phosphatase/phytase gene (appA2) isolated from pig colon. <i>Biochemical and Biophysical Research Communications</i> , 1999 , 257, 117-23	3.4	112

6	Expression of an <i>Aspergillus niger</i> phytase gene (phyA) in <i>Saccharomyces cerevisiae</i> . <i>Applied and Environmental Microbiology</i> , 1999 , 65, 1915-8	4.8	99
5	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
4	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
3	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
2	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
1	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