

# Xin-Gen Lei

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3700833/publications.pdf>

Version: 2024-02-01

172  
papers

8,804  
citations

41627

51  
h-index

58552

86  
g-index

175  
all docs

175  
docs citations

175  
times ranked

8544  
citing authors

#	ARTICLE	IF	CITATIONS
1	Growth and survivability of the black carpet beetle fed a whole feather diet. <i>Journal of Applied Entomology</i> , 2022, 146, 158-167.	0.8	1
2	Dietary microalgae on poultry meat and eggs: explained versus unexplained effects. <i>Current Opinion in Biotechnology</i> , 2022, 75, 102689.	3.3	7
3	Excessive <i>Aurantiochytrium acetophilum</i> docosahexaenoic acid supplementation decreases growth performance and breast muscle mass of broiler chickens. <i>Algal Research</i> , 2022, 63, 102648.	2.4	4
4	Associations between Circulating SELENOP Level and Disorders of Glucose and Lipid Metabolism: A Meta-Analysis. <i>Antioxidants</i> , 2022, 11, 1263.	2.2	9
5	Glutathione peroxidase-1 and neuromodulation: Novel potentials of an old enzyme. <i>Food and Chemical Toxicology</i> , 2021, 148, 111945.	1.8	31
6	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.	6.2	30
7	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.	2.4	7
8	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.	1.7	1
9	GPx-1-encoded adenoviral vector attenuates dopaminergic impairments induced by methamphetamine in GPx-1 knockout mice through modulation of NF- $\kappa$ B transcription factor. <i>Food and Chemical Toxicology</i> , 2021, 154, 112313.	1.8	9
10	Loss of Selenop predisposes mice to extra fat accumulation and attenuated energy expenditure. <i>Redox Biology</i> , 2021, 45, 102048.	3.9	19
11	Replacing fish oil and astaxanthin by microalgal sources produced different metabolic responses in juvenile rainbow trout fed 2 types of practical diets. <i>Journal of Animal Science</i> , 2021, 99, .	0.2	4
12	Supplemental Microalgal DHA and Astaxanthin Affect Astaxanthin Metabolism and Redox Status of Juvenile Rainbow Trout. <i>Antioxidants</i> , 2021, 10, 16.	2.2	5
13	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, 13074.	1.8	32
14	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.	1.3	24
15	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.	1.3	24
16	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.	1.5	20
17	Supplemental Microalgal Iron Helps Replete Blood Hemoglobin in Moderately Anemic Mice Fed a Rice-Based Diet. <i>Nutrients</i> , 2020, 12, 2239.	1.7	7
18	Effect of a Multi-Carbohydase and Phytase Complex on the Ileal and Total Tract Digestibility of Nutrients in Cannulated Growing Pigs. <i>Animals</i> , 2020, 10, 1434.	1.0	5

#	ARTICLE	IF	CITATIONS
19	High Dietary Fat and Selenium Concentrations Exert Tissue- and Glutathione Peroxidase 1â€“Dependent Impacts on Lipid Metabolism of Young-Adult Mice. <i>Journal of Nutrition</i> , 2020, 150, 1738-1748.	1.3	13
20	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, 692.	1.7	11
21	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, .	0.2	25
22	The proteomic profiling of multiple tissue damage in chickens for a selenium deficiency biomarker discovery. <i>Food and Function</i> , 2020, 11, 1312-1321.	2.1	51
23	Selenium and Selenoproteins in Adipose Tissue Physiology and Obesity. <i>Biomolecules</i> , 2020, 10, 658.	1.8	67
24	Corn cob cellulose nanosphere as an eco-friendly detergent. <i>Nature Sustainability</i> , 2020, 3, 448-458.	11.5	56
25	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.	1.3	11
26	Sulforaphane Prevents Hepatic Insulin Resistance by Blocking Serine Palmitoyltransferase 3-Mediated Ceramide Biosynthesis. <i>Nutrients</i> , 2019, 11, 1185.	1.7	29
27	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.	2.4	7
28	Inclusion of Dietary Defatted Microalgae Dose-Dependently Enriches Î‰-3 Fatty Acids in Egg Yolk and Tissues of Laying Hens. <i>Journal of Nutrition</i> , 2019, 149, 942-950.	1.3	15
29	2-Deoxyglucose-Modified Folate Derivative: Self-Assembling Nanoparticle Able to Load Cisplatin. <i>Molecules</i> , 2019, 24, 1084.	1.7	4
30	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. <i>Journal of Animal Science</i> , 2019, 97, 4883-4894.	0.2	23
31	Effects of Dietary Selenium Deficiency or Excess on Selenoprotein Gene Expression in the Spleen Tissue of Pigs. <i>Animals</i> , 2019, 9, 1122.	1.0	25
32	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.	1.3	16
33	Meeting Global Feed Protein Demand: Challenge, Opportunity, and Strategy. <i>Annual Review of Animal Biosciences</i> , 2019, 7, 221-243.	3.6	138
34	Avian selenogenome: response to dietary Se and vitamin E deficiency and supplementation. <i>Poultry Science</i> , 2019, 98, 4247-4254.	1.5	30
35	Cloning, expression, and characterization of a porcine pancreatic Î±-amylase in <i>Pichia pastoris</i> . <i>Animal Nutrition</i> , 2018, 4, 234-240.	2.1	5
36	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.	3.7	17

#	ARTICLE	IF	CITATIONS
37	Regulation and function of avian selenogenome. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 2473-2479.	1.1	21
38	Sustaining the Future of Animal Feed Protein. <i>Industrial Biotechnology</i> , 2018, 14, 74-76.	0.5	2
39	Characterization and milk coagulating properties of <i>Cynanchum otophyllum</i> Schneid. proteases. <i>Journal of Dairy Science</i> , 2018, 101, 2842-2850.	1.4	18
40	miR-200a-5p regulates myocardial necroptosis induced by Se deficiency via targeting RNF11. <i>Redox Biology</i> , 2018, 15, 159-169.	3.9	141
41	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.	2.4	11
42	Evolution, regulation, and function of porcine selenogenome. <i>Free Radical Biology and Medicine</i> , 2018, 127, 116-123.	1.3	26
43	90th Anniversary Commentary: Beginning of the Selenoprotein Era. <i>Journal of Nutrition</i> , 2018, 148, 1652-1655.	1.3	3
44	Selenium and Diabetes. <i>Molecular and Integrative Toxicology</i> , 2018, , 317-344.	0.5	4
45	Defatted Microalgae-Mediated Enrichment of $n\text{-}^3$ 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.	1.3	17
46	Role of glutathione peroxidase 1 in glucose and lipid metabolism-related diseases. <i>Free Radical Biology and Medicine</i> , 2018, 127, 108-115.	1.3	73
47	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.	2.4	27
48	Genetic overexpression of glutathione peroxidase-1 attenuates microcystin-leucine-arginine-induced memory impairment in mice. <i>Neurochemistry International</i> , 2018, 118, 152-165.	1.9	20
49	Glutathione peroxidase $\beta$ overexpressing transgenic mice are protected from neurotoxicity induced by microcystin $\beta$ -leucine $\beta$ -arginine. <i>Environmental Toxicology</i> , 2018, 33, 1019-1028.	2.1	16
50	Protective potential of glutathione peroxidase $\beta$ gene against cocaine $\beta$ -induced acute hepatotoxic consequences in mice. <i>Journal of Applied Toxicology</i> , 2018, 38, 1502-1520.	1.4	8
51	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.	2.4	24
52	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.	1.3	60
53	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.	2.4	19
54	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.	1.3	46

#	ARTICLE	IF	CITATIONS
55	Protective Potential of the Glutathione Peroxidase-1 Gene in Abnormal Behaviors Induced by Phencyclidine in Mice. <i>Molecular Neurobiology</i> , 2017, 54, 7042-7062.	1.9	34
56	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.	1.9	22
57	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.	0.8	28
58	Genetic overexpressing of GPx1 attenuates cocaine-induced renal toxicity via induction of anti-apoptotic factors. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2016, 43, 428-437.	0.9	15
59	Selenium Deficiency Influences the Expression of Selenoproteins and Inflammatory Cytokines in Chicken Aorta Vessels. <i>Biological Trace Element Research</i> , 2016, 173, 501-513.	1.9	17
60	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, 467-483.	1.5	12
61	High Dietary Selenium Intake Alters Lipid Metabolism and Protein Synthesis in Liver and Muscle of Pigs. <i>Journal of Nutrition</i> , 2016, 146, 1625-1633.	1.3	97
62	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.	2.2	44
63	Glutathione Peroxidase 1: Models for Diabetes and Obesity. , 2016, , 587-594.		1
64	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.	0.6	8
65	Potential of combining flaxseed oil and microalgal biomass in producing eggs-enriched with n <sup>3</sup> fatty acids for meeting human needs. <i>Algal Research</i> , 2016, 17, 31-37.	2.4	14
66	Selenium. <i>Advances in Nutrition</i> , 2016, 7, 415-417.	2.9	61
67	Paradoxical Roles of Antioxidant Enzymes: Basic Mechanisms and Health Implications. <i>Physiological Reviews</i> , 2016, 96, 307-364.	13.1	283
68	Characterization of Selenoprotein M and Its Response to Selenium Deficiency in Chicken Brain. <i>Biological Trace Element Research</i> , 2016, 170, 449-458.	1.9	21
69	Marine Microalgae: Climate, Energy, and Food Security from the Sea. <i>Oceanography</i> , 2016, 29, .	0.5	33
70	Continual feeding of two types of microalgal biomass affected protein digestion and metabolism in laying hens. <i>Journal of Animal Science</i> , 2015, 93, 287-297.	0.2	26
71	Expression of Selenoprotein Genes Is Affected by Obesity of Pigs Fed a High-Fat Diet. <i>Journal of Nutrition</i> , 2015, 145, 1394-1401.	1.3	61
72	Selenoproteins protect against avian nutritional muscular dystrophy by metabolizing peroxides and regulating redox/apoptotic signaling. <i>Free Radical Biology and Medicine</i> , 2015, 83, 129-138.	1.3	81

#	ARTICLE	IF	CITATIONS
73	Starch and starch hydrolysates are favorable carbon sources for Bifidobacteria in the human gut. BMC Microbiology, 2015, 15, 54.	1.3	46
74	Creating 3 Fatty-Acid-Enriched Chicken Using Defatted Green Microalgal Biomass. Journal of Agricultural and Food Chemistry, 2015, 63, 9315-9322.	2.4	34
75	Malondialdehyde regulates glucose-stimulated insulin secretion in murine islets via TCF7L2-dependent Wnt signaling pathway. Molecular and Cellular Endocrinology, 2014, 382, 8-16.	1.6	32
76	Effect of dietary defatted diatom biomass on egg production and quality of laying hens. Journal of Animal Science and Biotechnology, 2014, 5, 3.	2.1	23
77	Nutritional and Metabolic Impacts of a Defatted Green Marine Microalgal ( <i>Desmodesmus</i> sp.) Biomass in Diets for Weanling Pigs and Broiler Chickens. Journal of Agricultural and Food Chemistry, 2014, 62, 9783-9791.	2.4	52
78	Glutathione Peroxidase Mimic Ebselen Improves Glucose-Stimulated Insulin Secretion in Murine Islets. Antioxidants and Redox Signaling, 2014, 20, 191-203.	2.5	46
79	Selenium and diabetes—Evidence from animal studies. Free Radical Biology and Medicine, 2013, 65, 1548-1556.	1.3	162
80	Potential and Limitation of a New Defatted Diatom Microalgal Biomass in Replacing Soybean Meal and Corn in Diets for Broiler Chickens. Journal of Agricultural and Food Chemistry, 2013, 61, 7341-7348.	2.4	79
81	Dual potential of microalgae as a sustainable biofuel feedstock and animal feed. Journal of Animal Science and Biotechnology, 2013, 4, 53.	2.1	191
82	Phytase, a New Life for an “Old” Enzyme. Annual Review of Animal Biosciences, 2013, 1, 283-309.	3.6	209
83	A novel upregulation of glutathione peroxidase 1 by knockout of liver-regenerating protein Reg3 <sup>2</sup> aggravates acetaminophen-induced hepatic protein nitration. Free Radical Biology and Medicine, 2013, 65, 291-300.	1.3	10
84	Selenoprotein W serves as an antioxidant in chicken myoblasts. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 3112-3120.	1.1	169
85	Porcine Serum Can Be Biofortified with Selenium to Inhibit Proliferation of Three Types of Human Cancer Cells <sup>3</sup> . Journal of Nutrition, 2013, 143, 1115-1122.	1.3	28
86	Gene Expression of Endoplasmic Reticulum Resident Selenoproteins Correlates with Apoptosis in Various Muscles of Se-Deficient Chicks. Journal of Nutrition, 2013, 143, 613-619.	1.3	182
87	Dietary Selenium Deficiency Partially Rescues Type 2 Diabetes-Like Phenotypes of Glutathione Peroxidase-1 “Overexpressing Male Mice <sup>3</sup> . Journal of Nutrition, 2012, 142, 1975-1982.	1.3	39
88	Prolonged Dietary Selenium Deficiency or Excess Does Not Globally Affect Selenoprotein Gene Expression and/or Protein Production in Various Tissues of Pigs. Journal of Nutrition, 2012, 142, 1410-1416.	1.3	104
89	Knockout of SOD1 alters murine hepatic glycolysis, gluconeogenesis, and lipogenesis. Free Radical Biology and Medicine, 2012, 53, 1689-1696.	1.3	33
90	A high-selenium diet induces insulin resistance in gestating rats and their offspring. Free Radical Biology and Medicine, 2012, 52, 1335-1342.	1.3	106

#	ARTICLE	IF	CITATIONS
91	Association of selenoprotein gene expression with pancreatic atrophy in broiler chicks. FASEB Journal, 2012, 26, 241.8.	0.2	0
92	Two Tales of Antioxidant Enzymes on <i>h2</i> Cells and Diabetes. Antioxidants and Redox Signaling, 2011, 14, 489-503.	2.5	101
93	Mineral Elements: Micro (Trace). , 2011, , 777-780.		0
94	Antioxidants in Foods: State of the Science Important to the Food Industry. Journal of Agricultural and Food Chemistry, 2011, 59, 6837-6846.	2.4	286
95	Lipopolysaccharide-induced hepatic oxidative injury is not potentiated by knockout of GPX1 and SOD1 in mice. Biochemical and Biophysical Research Communications, 2011, 404, 559-563.	1.0	17
96	Enhanced water-holding capacity of meat was associated with increased Sepw1 gene expression in pigs fed selenium-enriched yeast. Meat Science, 2011, 87, 95-100.	2.7	55
97	Knockout of SOD1 promotes conversion of selenocysteine to dehydroalanine in murine hepatic GPX1 protein. Free Radical Biology and Medicine, 2011, 51, 197-204.	1.3	22
98	Glutathione Peroxidase 1 and Diabetes. , 2011, , 261-270.		2
99	Molecular characterization and NF- $\kappa$ B-regulated transcription of selenoprotein S from the Bama mini-pig. Molecular Biology Reports, 2011, 38, 4281-4286.	1.0	19
100	Impacts of Dietary Selenium Deficiency on Metabolic Phenotypes of Diet-Restricted GPX1-Overexpressing Mice. Antioxidants and Redox Signaling, 2011, 14, 383-390.	2.5	33
101	The Selenium Deficiency Disease Exudative Diathesis in Chicks Is Associated with Downregulation of Seven Common Selenoprotein Genes in Liver and Muscle. Journal of Nutrition, 2011, 141, 1605-1610.	1.3	109
102	Knockouts of SOD1 and GPX1 Exert Different Impacts on Murine Islet Function and Pancreatic Integrity. Antioxidants and Redox Signaling, 2011, 14, 391-401.	2.5	89
103	Differentially Expressed Genes in Subcutaneous Fat Tissue in an Obese Pig Model Induced by a High-Fat Diet. Journal of Animal and Veterinary Advances, 2011, 10, 1804-1810.	0.1	3
104	Gene expression profile of selenoproteins in an obese pig model induced by a high-fat diet. FASEB Journal, 2010, 24, 916.3.	0.2	0
105	Effects of dietary Se deficiency or excess on gene expression of 13 novel selenoproteins in growing pigs. FASEB Journal, 2010, 24, 916.2.	0.2	0
106	Selenoprotein Gene Expression in Thyroid and Pituitary of Young Pigs Is Not Affected by Dietary Selenium Deficiency or Excess. Journal of Nutrition, 2009, 139, 1061-1066.	1.3	97
107	Supplemental Dietary Inulin Influences Expression of Iron and Inflammation Related Genes in Young Pigs. Journal of Nutrition, 2009, 139, 2018-2023.	1.3	42
108	Comparative Impacts of Knockouts of Two Antioxidant Enzymes on Acetaminophen-Induced Hepatotoxicity in Mice. Experimental Biology and Medicine, 2009, 234, 1477-1483.	1.1	15

#	ARTICLE	IF	CITATIONS
109	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, 5315-5320.	2.4	14
110	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, 3134-3140.	2.4	32
111	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, 1033-1040.	1.7	28
112	Enhancing thermostability of <i>Escherichia coli</i> phytase AppA2 by error-prone PCR. <i>Applied Microbiology and Biotechnology</i> , 2008, 79, 69-75.	1.7	75
113	Assembly of mutations for improving thermostability of <i>Escherichia coli</i> AppA2 phytase. <i>Applied Microbiology and Biotechnology</i> , 2008, 79, 751-8.	1.7	26
114	Molecular mechanisms for hyperinsulinaemia induced by overproduction of selenium-dependent glutathione peroxidase-1 in mice. <i>Diabetologia</i> , 2008, 51, 1515-1524.	2.9	132
115	Knockouts of Se- $\epsilon$ -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, 1334-1339.	1.5	8
116	Role of copper,zinc-superoxide dismutase in catalyzing nitrotyrosine formation in murine liver. <i>Free Radical Biology and Medicine</i> , 2008, 45, 611-618.	1.3	36
117	The Pig as an Experimental Model for Elucidating the Mechanisms Governing Dietary Influence on Mineral Absorption. <i>Experimental Biology and Medicine</i> , 2008, 233, 651-664.	1.1	208
118	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, 3069-3076.	1.4	59
119	Phytase: Source, Structure and Application. , 2007, , 505-529.		56
120	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, 1795-1801.	1.3	22
121	Metabolic Regulation and Function of Glutathione Peroxidase-1. <i>Annual Review of Nutrition</i> , 2007, 27, 41-61.	4.3	224
122	Altering the substrate specificity site of <i>Aspergillus niger</i> PhyB shifts the pH optimum to pH $\hat{A}$ 3.2. <i>Applied Microbiology and Biotechnology</i> , 2007, 76, 117-122.	1.7	11
123	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, 545-552.	1.1	18
124	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, 1726-1732.	1.1	13
125	Mice deficient in Cu,Zn-superoxide dismutase are resistant to acetaminophen toxicity. <i>Biochemical Journal</i> , 2006, 399, 455-461.	1.7	61
126	Supplemental Dietary Inulin Affects the Bioavailability of Iron in Corn and Soybean Meal to Young Pigs. <i>Journal of Nutrition</i> , 2006, 136, 3033-3038.	1.3	70



#	ARTICLE	IF	CITATIONS
127	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, 4397-4403.	1.4	77
128	New roles of glutathione peroxidase-1 in oxidative stress and diabetes. , 2006, , 173-182.		2
129	Red and white beans provide equivalent amounts of bioavailable iron to weanling piglets. <i>FASEB Journal</i> , 2006, 20, LB88.	0.2	0
130	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.	1.1	13
131	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, 355-359.	1.7	22
132	Expression of <i>Escherichia coli</i> AppA2 phytase in four yeast systems. <i>Biotechnology Letters</i> , 2005, 27, 327-334.	1.1	27
133	Expression of Microbial Phytases in Yeast Systems and Characterization of the Recombinant Enzymes. , 2005, , 209-224.		1
134	New Roles for an Old Selenoenzyme: Evidence from Glutathione Peroxidase-1 Null and Overexpressing Mice. <i>Journal of Nutrition</i> , 2005, 135, 2295-2298.	1.3	49
135	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, 8852-8857.	3.3	452
136	Crystallographic Snapshots of <i>Aspergillus fumigatus</i> Phytase, Revealing Its Enzymatic Dynamics. <i>Structure</i> , 2004, 12, 1575-1583.	1.6	30
137	Crystal Structure of a Heat-resilient Phytase from <i>Aspergillus fumigatus</i> , Carrying a Phosphorylated Histidine. <i>Journal of Molecular Biology</i> , 2004, 339, 437-445.	2.0	52
138	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, 827-831.	1.1	35
139	Phytase enzymology, applications, and biotechnology. <i>Biotechnology Letters</i> , 2003, 25, 1787-1794.	1.1	183
140	Impacts of glutathione peroxidase-1 knockout on the protection by injected selenium against the pro-oxidant-induced liver aponecrosis and signaling in selenium-deficient mice. <i>Free Radical Biology and Medicine</i> , 2003, 34, 918-927.	1.3	47
141	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 aponecrosis. <i>Biochemical Journal</i> , 2003, 370, 927-934.	1.7	54
142	Analysis of Phospholipid Hydroperoxide Glutathione Peroxidase mRNA. , 2002, 196, 183-194.		0
143	In Vivo Antioxidant Role of Glutathione Peroxidase: Evidence from Knockout Mice. <i>Methods in Enzymology</i> , 2002, 347, 213-225.	0.4	52
144	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, 1016-1020.	1.0	59

#	ARTICLE	IF	CITATIONS
145	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> , 2002, 74, 2305-2314.	2.1	41
146	Functional expression of keratinase ( <i>kerA</i> ) gene from <i>Bacillus licheniformis</i> in <i>Pichia pastoris</i> . <i>Biotechnology Letters</i> , 2002, 24, 631-636.	1.1	29
147	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.	1.7	16
148	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.	1.7	26
149	Biotechnological development of effective phytases for mineral nutrition and environmental protection. <i>Applied Microbiology and Biotechnology</i> , 2001, 57, 474-481.	1.7	166
150	Glutathione peroxidase-1 gene knockout on body antioxidant defense in mice. <i>BioFactors</i> , 2001, 14, 93-99.	2.6	49
151	Lipopolysaccharide and interferon- $\beta$ -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, 450-459.	1.3	20
152	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, 43004-43009.	1.6	84
153	Differential Regulation and Function of Glutathione Peroxidases and Other Selenoproteins. <i>Modern Nutrition</i> , 2001, , 425-448.	0.1	0
154	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.	0.2	40
155	Site-Directed Mutagenesis Improves Catalytic Efficiency and Thermostability of <i>Escherichia coli</i> pH 2.5 Acid Phosphatase/Phytase Expressed in <i>Pichia pastoris</i> . <i>Archives of Biochemistry and Biophysics</i> , 2000, 382, 105-112.	1.4	109
156	Expression of the <i>Aspergillus fumigatus</i> Phytase Gene in <i>Pichia pastoris</i> and Characterization of the Recombinant Enzyme. <i>Biochemical and Biophysical Research Communications</i> , 2000, 268, 373-378.	1.0	110
157	Phytase Activity in <i>Aspergillus fumigatus</i> Isolates. <i>Biochemical and Biophysical Research Communications</i> , 2000, 275, 759-763.	1.0	19
158	Meat enhances nonheme iron absorption in pigs. <i>Nutrition Research</i> , 2000, 20, 1749-1759.	1.3	27
159	Of Pigs and People. , 2000, , .		0
160	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, 1467-1475.	0.2	114
161	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, 1951-1957.	1.3	36
162	Knockout of cellular glutathione peroxidase gene renders mice susceptible to diquat-induced oxidative stress. <i>Free Radical Biology and Medicine</i> , 1999, 27, 605-611.	1.3	118

#	ARTICLE	IF	CITATIONS
163	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, 164-169.	2.0	42
164	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.	1.4	117
165	Different Sensitivity of Recombinant <i>Aspergillus niger</i> Phytase (r-PhyA) and <i>Escherichia coli</i> H 2.5 Acid Phosphatase (r-AppA) to Trypsin and Pepsin <i>In Vitro</i> . <i>Archives of Biochemistry and Biophysics</i> , 1999, 365, 262-267.	1.4	93
166	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, 117-123.	1.0	124
167	Expression of an <i>Aspergillus niger</i> Phytase Gene ( phyA ) in <i>Saccharomyces cerevisiae</i> . <i>Applied and Environmental Microbiology</i> , 1999, 65, 1915-1918.	1.4	118
168	Knockout of cellular glutathione peroxidase affects selenium-dependent parameters similarly in mice fed adequate and excessive dietary selenium. <i>BioFactors</i> , 1998, 7, 311-321.	2.6	39
169	Cellular Glutathione Peroxidase Is the Mediator of Body Selenium To Protect against Paraquat Lethality in Transgenic Mice. <i>Journal of Nutrition</i> , 1998, 128, 1070-1076.	1.3	177
170	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, 109-114.	0.7	14
171	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, 1445-1450.	1.3	137
172	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, 675-680.	1.3	75