

Xin-Gen Lei

List of Publications by Year in descending order

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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	Development of insulin resistance and obesity in mice overexpressing cellular glutathione peroxidase. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 8852-8857.	3.3	452
2	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
3	Paradoxical Roles of Antioxidant Enzymes: Basic Mechanisms and Health Implications. Physiological Reviews, 2016, 96, 307-364.	13.1	283
4	Metabolic Regulation and Function of Glutathione Peroxidase-1. Annual Review of Nutrition, 2007, 27, 41-61.	4.3	224
5	Phytase, a New Life for an "Old" Enzyme. Annual Review of Animal Biosciences, 2013, 1, 283-309.	3.6	209
6	The Pig as an Experimental Model for Elucidating the Mechanisms Governing Dietary Influence on Mineral Absorption. Experimental Biology and Medicine, 2008, 233, 651-664.	1.1	208
7	Dual potential of microalgae as a sustainable biofuel feedstock and animal feed. Journal of Animal Science and Biotechnology, 2013, 4, 53.	2.1	191
8	Phytase enzymology, applications, and biotechnology. Biotechnology Letters, 2003, 25, 1787-1794.	1.1	183
9	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
10	Cellular Glutathione Peroxidase Is the Mediator of Body Selenium To Protect against Paraquat Lethality in Transgenic Mice. Journal of Nutrition, 1998, 128, 1070-1076.	1.3	177
11	Selenoprotein W serves as an antioxidant in chicken myoblasts. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 3112-3120.	1.1	169
12	Biotechnological development of effective phytases for mineral nutrition and environmental protection. Applied Microbiology and Biotechnology, 2001, 57, 474-481.	1.7	166
13	Selenium and diabetes" Evidence from animal studies. Free Radical Biology and Medicine, 2013, 65, 1548-1556.	1.3	162
14	miR-200a-5p regulates myocardial necroptosis induced by Se deficiency via targeting RNF11. Redox Biology, 2018, 15, 159-169.	3.9	141
15	Meeting Global Feed Protein Demand: Challenge, Opportunity, and Strategy. Annual Review of Animal Biosciences, 2019, 7, 221-243.	3.6	138
16	Cellular Glutathione Peroxidase Knockout Mice Express Normal Levels of Selenium-Dependent Plasma and Phospholipid Hydroperoxide Glutathione Peroxidases in Various Tissues. Journal of Nutrition, 1997, 127, 1445-1450.	1.3	137
17	Molecular mechanisms for hyperinsulinaemia induced by overproduction of selenium-dependent glutathione peroxidase-1 in mice. Diabetologia, 2008, 51, 1515-1524.	2.9	132
18	Cloning, Sequencing, and Expression of an Escherichia coli Acid Phosphatase/Phytase Gene (appA2) Isolated from Pig Colon. Biochemical and Biophysical Research Communications, 1999, 257, 117-123.	1.0	124

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19	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
20	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
21	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
22	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
23	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
24	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
25	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, 1605-1610.	1.3	109
26	A high-selenium diet induces insulin resistance in gestating rats and their offspring. <i>Free Radical Biology and Medicine</i> , 2012, 52, 1335-1342.	1.3	106
27	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, 1410-1416.	1.3	104
28	Two Tales of Antioxidant Enzymes on <i>Cells and Diabetes</i> . <i>Antioxidants and Redox Signaling</i> , 2011, 14, 489-503.	2.5	101
29	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, 1061-1066.	1.3	97
30	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
31	Different Sensitivity of Recombinant <i>Aspergillus niger</i> Phytase (r-PhyA) and <i>Escherichia coli</i> pH 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
32	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.	2.5	89
33	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
34	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
35	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, 7341-7348.	2.4	79
36	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

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37	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
38	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
39	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
40	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
41	Selenium and Selenoproteins in Adipose Tissue Physiology and Obesity. <i>Biomolecules</i> , 2020, 10, 658.	1.8	67
42	Mice deficient in Cu,Zn-superoxide dismutase are resistant to acetaminophen toxicity. <i>Biochemical Journal</i> , 2006, 399, 455-461.	1.7	61
43	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
44	Selenium. <i>Advances in Nutrition</i> , 2016, 7, 415-417.	2.9	61
45	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.	1.3	60
46	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
47	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
48	Phytase: Source, Structure and Application. , 2007, , 505-529.		56
49	Corn cob cellulose nanosphere as an eco-friendly detergent. <i>Nature Sustainability</i> , 2020, 3, 448-458.	11.5	56
50	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.	2.7	55
51	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, 927-934.	1.7	54
52	In Vivo Antioxidant Role of Glutathione Peroxidase: Evidence from Knockout Mice. <i>Methods in Enzymology</i> , 2002, 347, 213-225.	0.4	52
53	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
54	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, 9783-9791.	2.4	52

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55	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
56	Glutathione peroxidase gene knockout on body antioxidant defense in mice. <i>BioFactors</i> , 2001, 14, 93-99.	2.6	49
57	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
58	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
59	Glutathione Peroxidase Mimic Ebselen Improves Glucose-Stimulated Insulin Secretion in Murine Islets. <i>Antioxidants and Redox Signaling</i> , 2014, 20, 191-203.	2.5	46
60	Starch and starch hydrolysates are favorable carbon sources for Bifidobacteria in the human gut. <i>BMC Microbiology</i> , 2015, 15, 54.	1.3	46
61	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
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	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
64	Supplemental Dietary Inulin Influences Expression of Iron and Inflammation Related Genes in Young Pigs. <i>Journal of Nutrition</i> , 2009, 139, 2018-2023.	1.3	42
65	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
66	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
67	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
68	Dietary Selenium Deficiency Partially Rescues Type 2 Diabetes-Like Phenotypes of Glutathione Peroxidase-Overexpressing Male Mice. <i>Journal of Nutrition</i> , 2012, 142, 1975-1982.	1.3	39
69	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
70	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
71	Comparison of extracellular Escherichia coli AppA phytases expressed in Streptomyces lividans and Pichia pastoris. <i>Biotechnology Letters</i> , 2003, 25, 827-831.	1.1	35
72	Creating 3 Fatty-Acid-Enriched Chicken Using Defatted Green Microalgal Biomass. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 9315-9322.	2.4	34

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73	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
74	Impacts of Dietary Selenium Deficiency on Metabolic Phenotypes of Diet-Restricted GPX1-Overexpressing Mice. <i>Antioxidants and Redox Signaling</i> , 2011, 14, 383-390.	2.5	33
75	Knockout of SOD1 alters murine hepatic glycolysis, gluconeogenesis, and lipogenesis. <i>Free Radical Biology and Medicine</i> , 2012, 53, 1689-1696.	1.3	33
76	Marine Microalgae: Climate, Energy, and Food Security from the Sea. <i>Oceanography</i> , 2016, 29, .	0.5	33
77	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
78	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.	1.6	32
79	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
80	Glutathione peroxidase-1 and neuromodulation: Novel potentials of an old enzyme. <i>Food and Chemical Toxicology</i> , 2021, 148, 111945.	1.8	31
81	Crystallographic Snapshots of <i>Aspergillus fumigatus</i> Phytase, Revealing Its Enzymatic Dynamics. <i>Structure</i> , 2004, 12, 1575-1583.	1.6	30
82	Avian selenogenome: response to dietary Se and vitamin E deficiency and supplementation. <i>Poultry Science</i> , 2019, 98, 4247-4254.	1.5	30
83	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
84	Functional expression of keratinase (kerA) gene from <i>Bacillus licheniformis</i> in <i>Pichia pastoris</i> . <i>Biotechnology Letters</i> , 2002, 24, 631-636.	1.1	29
85	Sulforaphane Prevents Hepatic Insulin Resistance by Blocking Serine Palmitoyltransferase 3-Mediated Ceramide Biosynthesis. <i>Nutrients</i> , 2019, 11, 1185.	1.7	29
86	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
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, 1115-1122.	1.3	28
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.	0.8	28
89	Meat enhances nonheme iron absorption in pigs. <i>Nutrition Research</i> , 2000, 20, 1749-1759.	1.3	27
90	Expression of <i>Escherichia coli</i> AppA2 phytase in four yeast systems. <i>Biotechnology Letters</i> , 2005, 27, 327-334.	1.1	27

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91	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
92	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
93	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
94	Continual feeding of two types of microalgal biomass affected protein digestion and metabolism in laying hens ¹ . <i>Journal of Animal Science</i> , 2015, 93, 287-297.	0.2	26
95	Evolution, regulation, and function of porcine selenogenome. <i>Free Radical Biology and Medicine</i> , 2018, 127, 116-123.	1.3	26
96	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
97	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
98	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
99	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
100	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
101	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.	2.1	23
102	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.	0.2	23
103	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
104	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
105	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.	1.3	22
106	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
107	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
108	Regulation and function of avian selenogenome. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 2473-2479.	1.1	21

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109	Lipopolysaccharide and interferon- β -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
110	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
111	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
112	Phytase Activity in <i>Aspergillus fumigatus</i> Isolates. <i>Biochemical and Biophysical Research Communications</i> , 2000, 275, 759-763.	1.0	19
113	Molecular characterization and NF- κ B-regulated transcription of selenoprotein S from the Bama mini-pig. <i>Molecular Biology Reports</i> , 2011, 38, 4281-4286.	1.0	19
114	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
115	Loss of Selenov predisposes mice to extra fat accumulation and attenuated energy expenditure. <i>Redox Biology</i> , 2021, 45, 102048.	3.9	19
116	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
117	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
118	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, 559-563.	1.0	17
119	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
120	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
121	Defatted Microalgae-Mediated Enrichment of ω -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
122	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
123	Glutathione peroxidase-1 overexpressing transgenic mice are protected from neurotoxicity induced by microcystin-leucine-arginine. <i>Environmental Toxicology</i> , 2018, 33, 1019-1028.	2.1	16
124	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
125	Comparative Impacts of Knockouts of Two Antioxidant Enzymes on Acetaminophen-Induced Hepatotoxicity in Mice. <i>Experimental Biology and Medicine</i> , 2009, 234, 1477-1483.	1.1	15
126	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

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127	Inclusion of Dietary Defatted Microalgae Dose-Dependently Enriches n ³ -Fatty Acids in Egg Yolk and Tissues of Laying Hens. <i>Journal of Nutrition</i> , 2019, 149, 942-950.	1.3	15
128	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
129	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
130	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.	2.4	14
131	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
132	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
133	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.	1.3	13
134	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
135	Altering the substrate specificity site of <i>Aspergillus niger</i> PhyB shifts the pH optimum to pH3.2. <i>Applied Microbiology and Biotechnology</i> , 2007, 76, 117-122.	1.7	11
136	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
137	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
138	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
139	A novel upregulation of glutathione peroxidase 1 by knockout of liver-regenerating protein Reg3 ² aggravates acetaminophen-induced hepatic protein nitration. <i>Free Radical Biology and Medicine</i> , 2013, 65, 291-300.	1.3	10
140	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.	1.8	9
141	Associations between Circulating SELENOP Level and Disorders of Glucose and Lipid Metabolism: A Meta-Analysis. <i>Antioxidants</i> , 2022, 11, 1263.	2.2	9
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143	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
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146	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
147	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
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164	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
165	Analysis of Phospholipid Hydroperoxide Glutathione Peroxidase mRNA. , 2002, 196, 183-194.		0
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