Xin-Gen Lei

List of Publications by Year
in descending order

172	8,804	36203 51	51492 86
papers	citations	h-index	g-index

175	175	175	7948
all docs	docs citations	times ranked	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 â€œOldâ€•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 diabetesâ€”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 anEscherichia coliAcid 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. Free Radical Biology and Medicine, 1999, 27, 605-611.	1.3	118
20	Expression of an Aspergillus niger Phytase Gene (phyA) in Saccharomyces cerevisiae. Applied and Environmental Microbiology, 1999, 65, 1915-1918.	1.4	118
21	Role of Glycosylation in the Functional Expression of anAspergillus nigerPhytase (phyA) inPichia pastoris. Archives of Biochemistry and Biophysics, 1999, 364, 83-90.	1.4	117
22	Seleniumâ€dependent cellular glutathione peroxidase protects mice against a proâ€oxidantâ€induced oxidation of NADPH, NADH, lipids, and protein. FASEB Journal, 1999, 13, 1467-1475.	0.2	114
23	Expression of the Aspergillus fumigatus Phytase Gene in Pichia pastoris and Characterization of the Recombinant Enzyme. Biochemical and Biophysical Research Communications, 2000, 268, 373-378.	1.0	110
24	Site-Directed Mutagenesis Improves Catalytic Efficiency and Thermostability of Escherichia coli pH 2.5 Acid Phosphatase/Phytase Expressed in Pichia pastoris. Archives of Biochemistry and Biophysics, 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. Journal of Nutrition, 2011, 141, 1605-1610.	1.3	109
26	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
27	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
28	Two Tales of Antioxidant Enzymes onÎ²Cells and Diabetes. Antioxidants and Redox Signaling, 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. Journal of Nutrition, 2009, 139, 1061-1066.	1.3	97
30	High Dietary Selenium Intake Alters Lipid Metabolism and Protein Synthesis in Liver and Muscle of Pigs. Journal of Nutrition, 2016, 146, 1625-1633.	1.3	97
31	Different Sensitivity of RecombinantAspergillus nigerPhytase (r-PhyA) andEscherichia coliH 2.5 Acid Phosphatase (r-AppA) to Trypsin and Pepsinin Vitro. Archives of Biochemistry and Biophysics, 1999, 365, 262-267.	1.4	93
32	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
33	Opposite Roles of Selenium-dependent Glutathione Peroxidase-1 in Superoxide Generator Diquat- and Peroxynitrite-induced Apoptosis and Signaling. Journal of Biological Chemistry, 2001, 276, 43004-43009.	1.6	84
34	Selenoproteins protect against avian nutritional muscular dystrophy by metabolizing peroxides and regulating redox/apoptotic signaling. Free Radical Biology and Medicine, 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. Journal of Agricultural and Food Chemistry, 2013, 61, 7341-7348.	2.4	79
36	Shifting the pH Profile of Aspergillus niger PhyA Phytase To Match the Stomach pH Enhances Its Effectiveness as an Animal Feed Additive. Applied and Environmental Microbiology, 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. Journal of Nutrition, 1997, 127, 675-680.	1.3	75
38	Enhancing thermostability of Escherichia coli phytase AppA2 by error-prone PCR. Applied Microbiology and Biotechnology, 2008, 79, 69-75.	1.7	75
39	Role of glutathione peroxidase 1 in glucose and lipid metabolism-related diseases. Free Radical Biology and Medicine, 2018, 127, 108-115.	1.3	73
40	Supplemental Dietary Inulin Affects the Bioavailability of Iron in Corn and Soybean Meal to Young Pigs. Journal of Nutrition, 2006, 136, 3033-3038.	1.3	70
41	Selenium and Selenoproteins in Adipose Tissue Physiology and Obesity. Biomolecules, 2020, 10, 658.	1.8	67
42	Mice deficient in Cu,Zn-superoxide dismutase are resistant to acetaminophen toxicity. Biochemical Journal, 2006, 399, 455-461.	1.7	61
43	Expression of Selenoprotein Genes Is Affected by Obesity of Pigs Fed a High-Fat Diet. Journal of Nutrition, 2015, 145, 1394-1401.	1.3	61
44	Selenium. Advances in Nutrition, 2016, 7, 415-417.	2.9	61
45	A Novel Organic Selenium Compound Exerts Unique Regulation of Selenium Speciation, Selenogenome, and Selenoproteins in Broiler Chicks. Journal of Nutrition, 2017, 147, 789-797.	1.3	60
46	Site-directed mutagenesis of Aspergillus niger NRRL 3135 phytase at residue 300 to enhance catalysis at pH 4.0. Biochemical and Biophysical Research Communications, 2002, 297, 1016-1020.	1.0	59
47	Adopting Selected Hydrogen Bonding and Ionic Interactions from Aspergillus fumigatus Phytase Structure Improves the Thermostability of Aspergillus niger PhyA Phytase. Applied and Environmental Microbiology, 2007, 73, 3069-3076.	1.4	59
48	Phytase: Source, Structure and Application. , 2007, , 505-529.		56
49	Corncob cellulose nanosphere as an eco-friendly detergent. Nature Sustainability, 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. Meat Science, 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 aponecrosis. Biochemical Journal, 2003, 370, 927-934.	1.7	54
52	In Vivo Antioxidant Role of Glutathione Peroxidase: Evidence from Knockout Mice. Methods in Enzymology, 2002, 347, 213-225.	0.4	52
53	Crystal Structure of a Heat-resilient Phytase from Aspergillus fumigatus, Carrying a Phosphorylated Histidine. Journal of Molecular Biology, 2004, 339, 437-445.	2.0	52
54	Nutritional and Metabolic Impacts of a Defatted Green Marine Microalgal (Desmodesmus sp.) Biomass in Diets for Weanling Pigs and Broiler Chickens. Journal of Agricultural and Food Chemistry, 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. Food and Function, 2020, 11, 1312-1321.	2.1	51
56	Glutathione peroxidaseâ€1 gene knockout on body antioxidant defense in mice. BioFactors, 2001, 14, 93-99.	2.6	49
57	New Roles for an Old Selenoenzyme: Evidence from Glutathione Peroxidase-1 Null and Overexpressing Mice. Journal of Nutrition, 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. Free Radical Biology and Medicine, 2003, 34, 918-927.	1.3	47
59	Glutathione Peroxidase Mimic Ebselen Improves Glucose-Stimulated Insulin Secretion in Murine Islets. Antioxidants and Redox Signaling, 2014, 20, 191-203.	2.5	46
60	Starch and starch hydrolysates are favorable carbon sources for Bifidobacteria in the human gut. BMC Microbiology, 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. Journal of Nutrition, 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. Environmental Research Letters, 2016, 11, 114006.	2.2	44
63	Cellular Glutathione Peroxidase Protects Mice Against Lethal Oxidative Stress Induced by Various Doses of Diquat. Proceedings of the Society for Experimental Biology and Medicine, 1999, 222, 164-169.	2.0	42
64	Supplemental Dietary Inulin Influences Expression of Iron and Inflammation Related Genes in Young Pigs. Journal of Nutrition, 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. Journal of Neurochemistry, 2002, 74, 2305-2314.	2.1	41
66	A new phytase expressed in yeast effectively improves the bioavailability of phytate phosphorus to weanling pigs.. Journal of Animal Science, 2000, 78, 668.	0.2	40
67	Knockout of cellular glutathione peroxidase affects seleniumâ€dependent parameters similarly in mice fed adequate and excessive dietary selenium. BioFactors, 1998, 7, 311-321.	2.6	39
68	Dietary Selenium Deficiency Partially Rescues Type 2 Diabetesâ€“Like Phenotypes of Glutathione Peroxidase-1â€“Overexpressing Male Mice3. Journal of Nutrition, 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. Journal of Nutrition, 1999, 129, 1951-1957.	1.3	36
70	Role of copper,zinc-superoxide dismutase in catalyzing nitrotyrosine formation in murine liver. Free Radical Biology and Medicine, 2008, 45, 611-618.	1.3	36
71	Comparison of extracellular Escherichia coli AppA phytases expressed in Streptomyces lividans and Pichia pastoris. Biotechnology Letters, 2003, 25, 827-831.	1.1	35
72	Creating Ï‰-3 Fatty-Acid-Enriched Chicken Using Defatted Green Microalgal Biomass. Journal of Agricultural and Food Chemistry, 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. Molecular Neurobiology, 2017, 54, 7042-7062.	1.9	34
74	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
75	Knockout of SOD1 alters murine hepatic glycolysis, gluconeogenesis, and lipogenesis. Free Radical Biology and Medicine, 2012, 53, 1689-1696.	1.3	33
76	Marine Microalgae: Climate, Energy, and Food Security from the Sea. Oceanography, 2016, 29, .	0.5	33
77	Iron and Zinc Bioavailabilities to Pigs from Red and White Beans (Phaseolus vulgaris L.) Are Similar. Journal of Agricultural and Food Chemistry, 2009, 57, 3134-3140.	2.4	32
78	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
79	Gut Microbiota as a Mediator of Essential and Toxic Effects of Zinc in the Intestines and Other Tissues. International Journal of Molecular Sciences, 2021, 22, 13074.	1.8	32
80	Glutathione peroxidase-1 and neuromodulation: Novel potentials of an old enzyme. Food and Chemical Toxicology, 2021, 148, 111945.	1.8	31
81	Crystallographic Snapshots of Aspergillus fumigatus Phytase, Revealing Its Enzymatic Dynamics. Structure, 2004, 12, 1575-1583.	1.6	30
82	Avian selenogenome: response to dietary Se and vitamin E deficiency and supplementation. Poultry Science, 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. Nature Food, 2021, 2, 282-290.	6.2	30
84	Functional expression of keratinase (kerA) gene from Bacillus licheniformis in Pichia pastoris. Biotechnology Letters, 2002, 24, 631-636.	1.1	29
85	Sulforaphane Prevents Hepatic Insulin Resistance by Blocking Serine Palmitoyltransferase 3-Mediated Ceramide Biosynthesis. Nutrients, 2019, 11, 1185.	1.7	29
86	Cumulative improvements of thermostability and pH-activity profile of Aspergillus niger PhyA phytase by site-directed mutagenesis. Applied Microbiology and Biotechnology, 2008, 77, 1033-1040.	1.7	28
87	Porcine Serum Can Be Biofortified with Selenium to Inhibit Proliferation of Three Types of Human Cancer Cells1â€“3. Journal of Nutrition, 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. Oncotarget, 2017, 8, 13428-13439.	0.8	28
89	Meat enhances nonheme iron absorption in pigs. Nutrition Research, 2000, 20, 1749-1759.	1.3	27
90	Expression of Escherichia coli AppA2 phytase in four yeast systems. Biotechnology Letters, 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. Algal Research, 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. Biochemical Journal, 2001, 359, 687-695.	1.7	26
93	Assembly of mutations for improving thermostability of Escherichia coli AppA2 phytase. Applied Microbiology and Biotechnology, 2008, 79, 751-8.	1.7	26
94	Continual feeding of two types of microalgal biomass affected protein digestion and metabolism in laying hens1. Journal of Animal Science, 2015, 93, 287-297.	0.2	26
95	Evolution, regulation, and function of porcine selenogenome. Free Radical Biology and Medicine, 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. Animals, 2019, 9, 1122.	1.0	25
97	Supplemental methionine and stocking density affect antioxidant status, fatty acid profiles, and growth performance of broiler chickens. Journal of Animal Science, 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. Journal of Agricultural and Food Chemistry, 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. Journal of Nutrition, 2020, 150, 483-491.	1.3	24
100	Selenoprotein V protects against endoplasmic reticulum stress and oxidative injury induced by pro-oxidants. Free Radical Biology and Medicine, 2020, 160, 670-679.	1.3	24
101	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
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 temperature1. Journal of Animal Science, 2019, 97, 4883-4894.	0.2	23
103	Expression and characterization of a thermostable serine protease (TfpA) from Thermomonospora fusca YX in Pichia pastoris. Applied Microbiology and Biotechnology, 2005, 68, 355-359.	1.7	22
104	Supplemental Escherichia coli Phytase and Strontium Enhance Bone Strength of Young Pigs Fed a Phosphorus-Adequate Diet. Journal of Nutrition, 2007, 137, 1795-1801.	1.3	22
105	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
106	Selenium Deficiency-Induced Apoptosis of Chick Embryonic Vascular Smooth Muscle Cells and Correlations with 25 Selenoproteins. Biological Trace Element Research, 2017, 176, 407-415.	1.9	22
107	Characterization of Selenoprotein M and Its Response to Selenium Deficiency in Chicken Brain. Biological Trace Element Research, 2016, 170, 449-458.	1.9	21
108	Regulation and function of avian selenogenome. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 2473-2479.	1.1	21

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109	Lipopolysaccharide and interferon-Î³-induced nitric oxide production and protein oxidation in mouse peritoneal macrophages are affected by glutathione peroxidase-1 gene knockout. Free Radical Biology and Medicine, 2001, 31, 450-459.	1.3	20
110	Genetic overexpression of glutathione peroxidase-1 attenuates microcystin-leucine-arginine-induced memory impairment in mice. Neurochemistry International, 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. Poultry Science, 2020, 99, 4853-4860.	1.5	20
112	Phytase Activity in Aspergillus fumigatus Isolates. Biochemical and Biophysical Research Communications, 2000, 275, 759-763.	1.0	19
113	Molecular characterization and NF-ÎºB-regulated transcription of selenoprotein S from the Bama mini-pig. Molecular Biology Reports, 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. Algal Research, 2017, 26, 409-414.	2.4	19
115	Loss of Selenov predisposes mice to extra fat accumulation and attenuated energy expenditure. Redox Biology, 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. Experimental Biology and Medicine, 2006, 231, 545-552.	1.1	18
117	Characterization and milk coagulating properties of Cynanchum otophyllum Schneid. proteases. Journal of Dairy Science, 2018, 101, 2842-2850.	1.4	18
118	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
119	Selenium Deficiency Influences the Expression of Selenoproteins and Inflammatory Cytokines in Chicken Aorta Vessels. Biological Trace Element Research, 2016, 173, 501-513.	1.9	17
120	PCV2 infection aggravates ochratoxin A-induced nephrotoxicity via autophagy involving p38 signaling pathway inÂvivo and inÂvitro. Environmental Pollution, 2018, 238, 656-662.	3.7	17
121	Defatted Microalgae-Mediated Enrichment of nâ€“3 Polyunsaturated Fatty Acids in Chicken Muscle Is Not Affected by Dietary Selenium, Vitamin E, or Corn Oil. Journal of Nutrition, 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. Biochemical Journal, 2001, 359, 687.	1.7	16
123	Glutathione peroxidaseâ€1 overexpressing transgenic mice are protected from neurotoxicity induced by microcystinâ€leucineâ€arginine. Environmental Toxicology, 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. Free Radical Biology and Medicine, 2019, 131, 408-431.	1.3	16
125	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
126	Genetic overexpressing of <scp>GP</scp>xâ€1 attenuates cocaineâ€induced renal toxicity via induction of antiâ€apoptotic factors. Clinical and Experimental Pharmacology and Physiology, 2016, 43, 428-437.	0.9	15

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127	Inclusion of Dietary Defatted Microalgae Dose-Dependently Enriches Ï‰-3 Fatty Acids in Egg Yolk and Tissues of Laying Hens. Journal of Nutrition, 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. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 1997, 117, 109-114.	0.7	14
129	Impact of Assay Conditions on Activity Estimate and Kinetics Comparison of Aspergillus niger PhyA and Escherichia coli AppA2 Phytases. Journal of Agricultural and Food Chemistry, 2009, 57, 5315-5320.	2.4	14
130	Potential of combining flaxseed oil and microalgal biomass in producing eggs-enriched with n â˜’ 3 fatty acids for meeting human needs. Algal Research, 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. Experimental Biology and Medicine, 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. Experimental Biology and Medicine, 2006, 231, 1726-1732.	1.1	13
133	High Dietary Fat and Selenium Concentrations Exert Tissue- and Glutathione Peroxidase 1â€“Dependent Impacts on Lipid Metabolism of Young-Adult Mice. Journal of Nutrition, 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. Free Radical Research, 2016, 50, 467-483.	1.5	12
135	Altering the substrate specificity site of Aspergillus niger PhyB shifts the pH optimum to pHÂ3.2. Applied Microbiology and Biotechnology, 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. Algal Research, 2018, 29, 290-296.	2.4	11
137	Glutathione peroxidase-1 inhibits transcription of regenerating islet-derived protein-2 in pancreatic islets. Free Radical Biology and Medicine, 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. Nutrients, 2020, 12, 692.	1.7	11
139	A novel upregulation of glutathione peroxidase 1 by knockout of liver-regenerating protein Reg3Î² aggravates acetaminophen-induced hepatic protein nitration. Free Radical Biology and Medicine, 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-ÎºB transcription factor. Food and Chemical Toxicology, 2021, 154, 112313.	1.8	9
141	Associations between Circulating SELENOP Level and Disorders of Glucose and Lipid Metabolism: A Meta-Analysis. Antioxidants, 2022, 11, 1263.	2.2	9
142	Knockouts of Seâ€glutathione peroxidaseâ€1 and Cu,Zn superoxide dismutase exert different impacts on femoral mechanical performance of growing mice. Molecular Nutrition and Food Research, 2008, 52, 1334-1339.	1.5	8
143	Supplemental defatted microalgae affects egg and tissue fatty acid composition differently in laying hens fed diets containing corn and flaxseed oil. Journal of Applied Poultry Research, 2016, 25, 528-538.	0.6	8
144	Protective potential of glutathione peroxidaseâ€1 gene against cocaineâ€induced acute hepatotoxic consequences in mice. Journal of Applied Toxicology, 2018, 38, 1502-1520.	1.4	8

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145	Supplemental Docosahexaenoic-Acid-Enriched Microalgae Affected Fatty Acid and Metabolic Profiles and Related Gene Expression in Several Tissues of Broiler Chicks. Journal of Agricultural and Food Chemistry, 2019, 67, 6497-6507.	2.4	7
146	Supplemental Microalgal Iron Helps Replete Blood Hemoglobin in Moderately Anemic Mice Fed a Rice-Based Diet. Nutrients, 2020, 12, 2239.	1.7	7
147	Supplemental dietary full-fatted and defatted Desmodesmus sp. exerted similar effects on growth performance, gut health, and excreta hydrothermal liquefaction of broiler chicks. Algal Research, 2021, 54, 102205.	2.4	7
148	Dietary microalgae on poultry meat and eggs: explained versus unexplained effects. Current Opinion in Biotechnology, 2022, 75, 102689.	3.3	7
149	Cloning, expression, and characterization of a porcine pancreatic Î±-amylase in Pichia pastoris. Animal Nutrition, 2018, 4, 234-240.	2.1	5
150	Effect of a Multi-Carbohydrase and Phytase Complex on the Ileal and Total Tract Digestibility of Nutrients in Cannulated Growing Pigs. Animals, 2020, 10, 1434.	1.0	5
151	Supplemental Microalgal DHA and Astaxanthin Affect Astaxanthin Metabolism and Redox Status of Juvenile Rainbow Trout. Antioxidants, 2021, 10, 16.	2.2	5
152	Selenium and Diabetes. Molecular and Integrative Toxicology, 2018, , 317-344.	0.5	4
153	2-Deoxyglucose-Modified Folate Derivative: Self-Assembling Nanoparticle Able to Load Cisplatin. Molecules, 2019, 24, 1084.	1.7	4
154	Replacing fish oil and astaxanthin by microalgal sources produced different metabolic responses in juvenile rainbow trout fed 2 types of practical diets. Journal of Animal Science, 2021, 99, .	0.2	4
155	Excessive Aurantiochytrium acetophilum docosahexaenoic acid supplementation decreases growth performance and breast muscle mass of broiler chickens. Algal Research, 2022, 63, 102648.	2.4	4
156	90th Anniversary Commentary: Beginning of the Selenoprotein Era. Journal of Nutrition, 2018, 148, 1652-1655.	1.3	3
157	Differentially Expressed Genes in Subcutaneous FatTissue in an Obese Pig Model Induced by a High-Fat Diet. Journal of Animal and Veterinary Advances, 2011, 10, 1804-1810.	0.1	3
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