Wen-Hsing Cheng

List of Publications by Year
in descending order

96 papers	4,253 citations	101496 36 h-index	114418 63 g-index
97 all docs	97 docs citations	97 times ranked	5082 citing authors

#	Article	IF	Citations
1	Paradoxical Roles of Antioxidant Enzymes: Basic Mechanisms and Health Implications. Physiological Reviews, 2016, 96, 307-364.	13.1	283
2	Epigenetic inactivation of the premature aging Werner syndrome gene in human cancer. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8822-8827.	3.3	240
3	Metabolic Regulation and Function of Glutathione Peroxidase-1. Annual Review of Nutrition, 2007, 27, 41-61.	4.3	224
4	Preparation, characterization and evaluation of selenite-loaded chitosan/TPP nanoparticles with or without zein coating. Carbohydrate Polymers, 2010, 82, 942-951.	5.1	197
5	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
6	Werner syndrome and the function of the Werner protein; what they can teach us about the molecular aging process.. Carcinogenesis, 2003, 24, 791-802.	1.3	164
7	The clinical characteristics of Werner syndrome: molecular and biochemical diagnosis. Human Genetics, 2008, 124, 369-377.	1.8	147
8	Werner Protein Is a Target of DNA-dependent Protein Kinase in Vivo and in Vitro, and Its Catalytic Activities Are Regulated by Phosphorylation. Journal of Biological Chemistry, 2002, 277, 18291-18302.	1.6	141
9	Central Role for the Werner Syndrome Protein/Poly(ADP-Ribose) Polymerase 1 Complex in the Poly(ADP-Ribosyl)ation Pathway after DNA Damage. Molecular and Cellular Biology, 2003, 23, 8601-8613.	1.1	140
10	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
11	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
12	Selenoproteins and the aging brain. Mechanisms of Ageing and Development, 2010, 131, 253-260.	2.2	116
13	Linkage between Werner Syndrome Protein and the Mre11 Complex via Nbs1. Journal of Biological Chemistry, 2004, 279, 21169-21176.	1.6	102
14	Junction of RecQ Helicase Biochemistry and Human Disease. Journal of Biological Chemistry, 2004, 279, 18099-18102.	1.6	85
15	Collaboration of Werner syndrome protein and BRCA1 in cellular responses to DNA interstrand cross-links. Nucleic Acids Research, 2006, 34, 2751-2760.	6.5	82
16	Combination of Metagenomics and Culture-Based Methods to Study the Interaction Between Ochratoxin A and Gut Microbiota. Toxicological Sciences, 2014, 141, 314-323.	1.4	80
17	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
18	Selenium Supranutrition: Are the Potential Benefits of Chemoprevention Outweighed by the Promotion of Diabetes and Insulin Resistance?. Nutrients, 2013, 5, 1349-1365.	1.7	75

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19	The transcriptional response after oxidative stress is defective in Cockayne syndrome group B cells. Oncogene, 2003, 22, 1135-1149.	2.6	66
20	Werner Syndrome Protein Phosphorylation by Abl Tyrosine Kinase Regulates Its Activity and Distribution. Molecular and Cellular Biology, 2003, 23, 6385-6395.	1.1	65
21	Selenium Compounds Activate Early Barriers of Tumorigenesis. Journal of Biological Chemistry, 2010, 285, 12055-12062.	1.6	58
22	Encapsulation of selenium in chitosan nanoparticles improves selenium availability and protects cells from selenium-induced DNA damage response. Journal of Nutritional Biochemistry, 2011, 22, 1137-1142.	1.9	56
23	Telomeres Shorten in Response to Oxidative Stress in Mouse Skeletal Muscle Fibers. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2014, 69, 821-830.	1.7	55
24	Ochratoxin A induced early hepatotoxicity: new mechanistic insights from microRNA, mRNA and proteomic profiling studies. Scientific Reports, 2014, 4, .	1.6	54
25	Dietary Intrinsic Phytate Protects Colon from Lipid Peroxidation in Pigs with a Moderately High Dietary Iron Intake. Proceedings of the Society for Experimental Biology and Medicine, 1999, 221, 80-86.	2.0	53
26	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
27	Dietary Selenium Supplementation Is Required to Support Full Expression of Three Selenium-Dependent Glutathione Peroxidases in Various Tissues of Weanling Pigs ,. Journal of Nutrition, 1998, 128, 130-135.	1.3	47
28	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
29	Beneficial and paradoxical roles of selenium at nutritional levels of intake in healthspan and longevity. Free Radical Biology and Medicine, 2018, 127, 3-13.	1.3	47
30	Selenium Compounds Activate ATM-dependent DNA Damage Response via the Mismatch Repair Protein hMLH1 in Colorectal Cancer Cells*. Journal of Biological Chemistry, 2010, 285, 33010-33017.	1.6	45
31	Analysis of Individual and Combined Effects of Ochratoxin A and Zearalenone on HepG2 and KK-1 Cells with Mathematical Models. Toxins, 2014, 6, 1177-1192.	1.5	44
32	Advanced liver steatosis accompanies an increase in hepatic inflammation, colonic, secondary bile acids and Lactobacillaceae/Lachnospiraceae bacteria in C57BL/6 mice fed a high-fat diet. Journal of Nutritional Biochemistry, 2020, 78, 108336.	1.9	44
33	Dietary Selenomethionine Increases Exon-Specific DNA Methylation of the p53 Gene in Rat Liver and Colon Mucosa,. Journal of Nutrition, 2011, 141, 1464-1468.	1.3	43
34	Butyrate Inhibits Cancerous HCT116 Colon Cell Proliferation but to a Lesser Extent in Noncancerous NCM460 Colon Cells. Nutrients, 2017, 9, 25.	1.7	40
35	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
36	Selenoprotein H Suppresses Cellular Senescence through Genome Maintenance and Redox Regulation. Journal of Biological Chemistry, 2014, 289, 34378-34388.	1.6	39

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37	Methylselenol, a selenium metabolite, modulates p53 pathway and inhibits the growth of colon cancer xenografts in Balb/c mice. Journal of Nutritional Biochemistry, 2013, 24, 776-780.	1.9	38
38	Superior inhibitory efficacy of butyrate over propionate and acetate against human colon cancer cell proliferation via cell cycle arrest and apoptosis: linking dietary fiber to cancer prevention. Nutrition Research, 2020, 83, 63-72.	1.3	37
39	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
40	Analyses of Selenotranscriptomes and Selenium Concentrations in Response to Dietary Selenium Deficiency and Age Reveal Common and Distinct Patterns by Tissue and Sex in Telomere-Dysfunctional Mice. Journal of Nutrition, 2017, 147, 1858-1866.	1.3	35
41	Modulation of Werner Syndrome Protein Function by a Single Mutation in the Conserved RecQ Domain. Journal of Biological Chemistry, 2005, 280, 39627-39636.	1.6	34
42	Prioritized brain selenium retention and selenoprotein expression: Nutritional insights into Parkinsonâ€™s disease. Mechanisms of Ageing and Development, 2019, 180, 89-96.	2.2	34
43	Acetylation Regulates WRN Catalytic Activities and Affects Base Excision DNA Repair. PLoS ONE, 2008, 3, e1918.	1.1	32
44	Central role of Nix in the autophagic response to ochratoxin A. Food and Chemical Toxicology, 2014, 69, 202-209.	1.8	31
45	Opposing impacts on healthspan and longevity by limiting dietary selenium in telomere dysfunctional mice. Aging Cell, 2017, 16, 125-135.	3.0	30
46	Werner syndrome protein: Functions in the response to DNA damage and replication stress in S-phase. Experimental Gerontology, 2007, 42, 871-878.	1.2	28
47	Impact of inorganic nutrients on maintenance of genomic stability. Environmental and Molecular Mutagenesis, 2009, 50, 349-360.	0.9	24
48	Werner syndrome protein associates with Î³H2AX in a manner that depends upon Nbs1. FEBS Letters, 2005, 579, 1350-1356.	1.3	23
49	Nuclear selenoproteins and genome maintenance. IUBMB Life, 2016, 68, 5-12.	1.5	22
50	Chemical Form of Selenium Affects Its Uptake, Transport, and Glutathione Peroxidase Activity in the Human Intestinal Caco-2 Cell Model. Biological Trace Element Research, 2011, 143, 1209-1218.	1.9	21
51	Biofilm formation by Salmonella spp. in catfish mucus extract under industrial conditions. Food Microbiology, 2018, 70, 172-180.	2.1	20
52	Prevalence, Antimicrobial Resistance, and Molecular Characterization of Campylobacter Isolated from Broilers and Broiler Meat Raised without Antibiotics. Microbiology Spectrum, 2022, 10, e0025122.	1.2	20
53	Growth and Biofilm Formation by Listeria monocytogenes in Catfish Mucus Extract on Four Food Contact Surfaces at 22 and 10Â°C and Their Reduction by Commercial Disinfectants. Journal of Food Protection, 2018, 81, 59-67.	0.8	19
54	Cockayne syndrome protein B interacts with and is phosphorylated by c-Abl tyrosine kinase. Nucleic Acids Research, 2007, 35, 4941-4951.	6.5	18

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55	Invited commentary in response to: selenium supplementation lowers insulin resistance and markers of cardio-metabolic risk in patients with congestive heart failure: a randomised, double-blind, placebo-controlled trial. British Journal of Nutrition, 2018, 120, 1-2.	1.2	17
56	Special Issue of â€œOptimal Selenium Status and Selenoproteins in Healthâ€• Biological Trace Element Research, 2019, 192, 1-2.	1.9	16
57	The catalytic subunit of DNA-dependent protein kinase is downstream of ATM and feeds forward oxidative stress in the selenium-induced senescence response. Journal of Nutritional Biochemistry, 2013, 24, 781-787.	1.9	15
58	Selenoprotein T Promotes Proliferation and G1-to-S Transition in SK-N-SH Cells: Implications in Parkinson's Disease. Journal of Nutrition, 2019, 149, 2110-2119.	1.3	15
59	Role for p53 in Selenium-Induced Senescence. Journal of Agricultural and Food Chemistry, 2011, 59, 11882-11887.	2.4	14
60	The Thioredoxin-Like Family of Selenoproteins: Implications in Aging and Age-Related Degeneration. Biological Trace Element Research, 2019, 188, 189-195.	1.9	14
61	Vulnerability of Triple-Negative Breast Cancer to Saponin Formosanin C-Induced Ferroptosis. Antioxidants, 2022, 11, 298.	2.2	14
62	N-acetylcysteine negatively regulates Notch3 and its malignant signaling. Oncotarget, 2016, 7, 30855-30866.	0.8	13
63	Redox-sensitive MAPK and Notch3 regulate fibroblast differentiation and activation: a dual role of ERK1/2. Oncotarget, 2016, 7, 43731-43745.	0.8	13
64	Effect of Dietary Selenium and Cancer Cell Xenograft on Peripheral T and B Lymphocytes in Adult Nude Mice. Biological Trace Element Research, 2012, 146, 230-235.	1.9	12
65	Green Tea: An Ancient Antioxidant Drink for Optimal Health?. Journal of Nutrition, 2019, 149, 1877-1879.	1.3	11
66	Dietary Selenium Requirement for the Prevention of Glucose Intolerance and Insulin Resistance in Middle-Aged Mice. Journal of Nutrition, 2021, 151, 1894-1900.	1.3	11
67	Loss of Selenium-Binding Protein 1 Decreases Sensitivity to Clastogens and Intracellular Selenium Content in HeLa Cells. PLoS ONE, 2016, 11, e0158650.	1.1	11
68	Selenotranscriptomic Analyses Identify Signature Selenoproteins in Brain Regions in a Mouse Model of Parkinsonâ€™s Disease. PLoS ONE, 2016, 11, e0163372.	1.1	11
69	Nutrition and aging. Mechanisms of Ageing and Development, 2010, 131, 223-224.	2.2	10
70	Targeting Werner syndrome protein sensitizes U-2 OS osteosarcoma cells to selenium-induced DNA damage response and necrotic death. Biochemical and Biophysical Research Communications, 2012, 420, 24-28.	1.0	10
71	Fecal fermentation products of common bean-derived fiber inhibit C/EBPÎ± and PPARÎ³ expression and lipid accumulation but stimulate PPARÎ´ and UCP2 expression in the adipogenesis of 3T3-L1 cells. Journal of Nutritional Biochemistry, 2018, 60, 9-15.	1.9	10
72	Deoxycholic Acid Modulates Cell-Junction Gene Expression and Increases Intestinal Barrier Dysfunction. Molecules, 2022, 27, 723.	1.7	10

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73	Nutritional and supranutritional levels of selenate differentially suppress prostate tumor growth in adult but not young nude mice. Journal of Nutritional Biochemistry, 2012, 23, 1086-1091.	1.9	9
74	Methylseleninic Acid Sensitizes Notch3-Activated OVCA429 Ovarian Cancer Cells to Carboplatin. PLoS ONE, 2014, 9, e101664.	1.1	6
75	Biology and integrated pest management of Tyrophagus putrescentiae (Schrank) infesting dry cured hams. Journal of Stored Products Research, 2018, 79, 16-28.	1.2	6
76	Revisiting Selenium Toxicity. Journal of Nutrition, 2021, 151, 747-748.	1.3	6
77	Low-Level Tolerance to Fluoroquinolone Antibiotic Ciprofloxacin in QAC-Adapted Subpopulations of Listeria monocytogenes. Microorganisms, 2021, 9, 1052.	1.6	6
78	Climatic Thresholds for Concentrations of Minerals and Heavy Metals in Argentinean Soybean. Agronomy Journal, 2016, 108, 532-539.	0.9	5
79	New insight into telomere maintenance. Aging, 2010, 2, 255-256.	1.4	3
80	Placental Telomere Length: Linking Maternal Nutrition to Transgenerational Healthy Aging?. Journal of Nutrition, 2020, 150, 2619-2620.	1.3	2
81	Identification of Selenoprotein H Isoforms and Impact of Selenoprotein H Overexpression on Protein But Not mRNA Levels of 2 Other Selenoproteins in 293T Cells. Journal of Nutrition, 2021, 151, 3329-3338.	1.3	2
82	Selenoproteins and Epigenetic Regulation in Mammals. , 2019, , 1803-1817.		1
83	Induction of Cellular Senescence and DNA Damage Response by Sodium Selenite. FASEB Journal, 2008, 22, 718-718.	0.2	0
84	Induction of Cellular Senescence and DNA Damage Response by Selenium Compounds. FASEB Journal, 2009, 23, 728.3.	0.2	0
85	The mismatch repair protein hMLH1 regulates seleniumâ€induced DNA damage response in colorectal cancer cells. FASEB Journal, 2010, 24, 916.8.	0.2	0
86	ATM is upstream of DNAâ€PKcs in the activation of DNA damage response by sodium selenite. FASEB Journal, 2010, 24, 916.9.	0.2	0
87	Selenium compounds activate early barriers of tumorigenesis. FASEB Journal, 2010, 24, 218.7.	0.2	0
88	Chemical form of selenium affects its uptake and transport in the human intestinal cell model, Caco‐2. FASEB Journal, 2011, 25, .	0.2	0
89	Selenoprotein H suppresses cellular senescence through genome maintenance and redox regulation. FASEB Journal, 2013, 27, 860.12.	0.2	0
90	Spatial and temporal expression of histone H3 Lysine 9 trimethylation foci by methylseleninic acid treatment. FASEB Journal, 2013, 27, 234.7.	0.2	0

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91	Methylseleninic acid sensitizes Notch3 activated ovarian cancer cells to carboplatin. FASEB Journal, 2013, 27, 860.14.	0.2	0
92	Roles of Nutritional Selenium in Mouse Aging and Ageâ€related Degenerations. FASEB Journal, 2015, 29, 759.12.	0.2	0
93	Effect of Longâ€Term Dietary Selenium Deprivation and Aging on Selenoprotein Transcriptome in Short Telomere Mice. FASEB Journal, 2015, 29, 759.13.	0.2	0
94	Effect of Longâ€Term Dietary Selenium Deprivation and Aging on Gut Microbiota in Short Telomere Mice. FASEB Journal, 2015, 29, 759.10.	0.2	0
95	Butyrate Plays Differential Roles in Cellular Signaling in Cancerous HCT116 and Noncancerous NCM460 Colon Cells. FASEB Journal, 2016, 30, 688.9.	0.2	0
96	Selenoproteins and Epigenetic Regulation in Mammals. , 2017, , 1-15.		0