Helmut Sies

List of Publications by Year
in descending order

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602	69,501	506 128	906 241
papers	citations	h-index	g-index

629	629	629	49717
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Reactive oxygen species (ROS) as pleiotropic physiological signalling agents. Nature Reviews Molecular Cell Biology, 2020, 21, 363-383.	16.1	2,341
2	Oxidative Stress. Annual Review of Biochemistry, 2017, 86, 715-748.	5.0	2,180
3	Lycopene as the most efficient biological carotenoid singlet oxygen quencher. Archives of Biochemistry and Biophysics, 1989, 274, 532-538.	1.4	1,975
4	Oxidative stress: a concept in redox biology and medicine. Redox Biology, 2015, 4, 180-183.	3.9	1,747
5	Strategies of antioxidant defense. FEBS Journal, 1993, 215, 213-219.	0.2	1,580
6	Chemistry of Biologically Important Synthetic Organoselenium Compounds. Chemical Reviews, 2001, 101, 2125-2180.	23.0	1,478
7	Glutathione and its role in cellular functions. Free Radical Biology and Medicine, 1999, 27, 916-921.	1.3	1,435
8	Hydrogen peroxide as a central redox signaling molecule in physiological oxidative stress: Oxidative eustress. Redox Biology, 2017, 11, 613-619.	3.9	1,378
9	[48] Assay of glutathione, glutathione disulfide, and glutathione mixed disulfides in biological samples. Methods in Enzymology, 1981, 77, 373-382.	0.4	1,310
10	Biochemistry of Oxidative Stress. Angewandte Chemie International Edition in English, 1986, 25, 1058-1071.	4.4	1,054
11	Antioxidant activity of carotenoids. Molecular Aspects of Medicine, 2003, 24, 345-351.	2.7	1,031
12	Oxidative stress: From basic research to clinical application. American Journal of Medicine, 1991, 91, S31-S38.	0.6	950
13	(-)-Epicatechin mediates beneficial effects of flavanol-rich cocoa on vascular function in humans. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 1024-1029.	3.3	924
14	Vitamins E and C, beta-carotene, and other carotenoids as antioxidants. American Journal of Clinical Nutrition, 1995, 62, 1315S-1321S.	2.2	846
15	A novel biologically active seleno-organic compoundâ€”1. Biochemical Pharmacology, 1984, 33, 3235-3239.	2.0	759
16	Antioxidant Functions of Vitamins. Annals of the New York Academy of Sciences, 1992, 669, 7-20.	1.8	692
17	Sulfur and Selenium: The Role of Oxidation State in Protein Structure and Function. Angewandte Chemie - International Edition, 2003, 42, 4742-4758.	7.2	681
18	Bioactivity and protective effects of natural carotenoids. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2005, 1740, 101-107.	1.8	663

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19	Toxic drug effects associated with oxygen metabolism: Redox cycling and lipid peroxidation. Experientia, 1981, 37, 1233-1241.	1.2	647
20	Lycopene is more bioavailable from tomato paste than from fresh tomatoes. American Journal of Clinical Nutrition, 1997, 66, 116-122.	2.2	614
21	Lycopene: A Biologically Important Carotenoid for Humans?. Archives of Biochemistry and Biophysics, 1996, 336, 1-9.	1.4	606
22	Role of Metabolic H2O2 Generation. Journal of Biological Chemistry, 2014, 289, 8735-8741.	1.6	590
23	Uptake of Lycopene and Its Geometrical Isomers Is Greater from Heat-Processed than from Unprocessed Tomato Juice in Humans. Journal of Nutrition, 1992, 122, 2161-2166.	1.3	549
24	The Redox Code. Antioxidants and Redox Signaling, 2015, 23, 734-746.	2.5	474
25	Defining roles of specific reactive oxygen species (ROS) in cell biology and physiology. Nature Reviews Molecular Cell Biology, 2022, 23, 499-515.	16.1	469
26	Nutritional, Dietary and Postprandial Oxidative Stress. Journal of Nutrition, 2005, 135, 969-972.	1.3	464
27	Vitamin E in Humans: Demand and Delivery. Annual Review of Nutrition, 1996, 16, 321-347.	4.3	447
28	Oxidative Stress: Introductory Remarks. , 1985, , 1-8.		442
29	Glutathione Peroxidase Protects against Peroxynitrite-mediated Oxidations. Journal of Biological Chemistry, 1997, 272, 27812-27817.	1.6	421
30	Protection against reactive oxygen species by selenoproteins. Biochimica Et Biophysica Acta - General Subjects, 2009, 1790, 1478-1485.	1.1	397
31	Ebselen, a selenoorganic compound as glutathione peroxidase mimic. Free Radical Biology and Medicine, 1993, 14, 313-323.	1.3	393
32	cis-trans isomers of lycopene and Î²-carotene in human serum and tissues. Archives of Biochemistry and Biophysics, 1992, 294, 173-177.	1.4	391
33	UltravioletâCB Irradiation and Matrix Metalloproteinases. Annals of the New York Academy of Sciences, 2002, 973, 31-43.	1.8	390
34	Vascular Effects of Cocoa Rich in Flavan-3-ols. JAMA - Journal of the American Medical Association, 2003, 290, 1030-1031.	3.8	383
35	Oxidative stress: damage to intact cells and organs. Philosophical Transactions of the Royal Society of London Series B, Biological Sciences, 1985, 311, 617-631.	2.4	367
36	Identification and quantitation of glutathione in hepatic protein mixed disulfides and its relationship to glutathione disulfide. Biochemical Pharmacology, 1983, 32, 2529-2534.	2.0	344

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37	The Biological Relevance of Direct Antioxidant Effects of Polyphenols for Cardiovascular Health in Humans Is Not Established1â€“4. Journal of Nutrition, 2011, 141, 989S-1009S.	1.3	328
38	The protection by ascorbate and glutathione against microsomal lipid peroxidation is dependent on vitamin E. FEBS Journal, 1988, 174, 353-357.	0.2	324
39	Singlet Oxygen Mediates the UVA-induced Generation of the Photoaging-associated Mitochondrial Common Deletion. Journal of Biological Chemistry, 1999, 274, 15345-15349.	1.6	321
40	Mono-O-methylated flavanols and other flavonoids as inhibitors of endothelial NADPH oxidase. Archives of Biochemistry and Biophysics, 2008, 469, 209-219.	1.4	321
41	Acute Consumption of Flavanol-Rich Cocoa and the Reversal of Endothelial Dysfunction in Smokers. Journal of the American College of Cardiology, 2005, 46, 1276-1283.	1.2	317
42	Carotenoid mixtures protect multilamellar liposomes against oxidative damage: synergistic effects of lycopene and lutein. FEBS Letters, 1998, 427, 305-308.	1.3	295
43	Formation of 8-hydroxy(deoxy)guanosine and generation of strand breaks at guanine residues in DNA by singlet oxygen. Biochemistry, 1991, 30, 6283-6289.	1.2	293
44	Reversible conversion of nitroxyl anion to nitric oxide by superoxide dismutase.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 10860-10864.	3.3	289
45	Inhibition of 15-lipoxygenases by flavonoids: structureâ€“activity relations and mode of action. Biochemical Pharmacology, 2003, 65, 773-781.	2.0	281
46	Carotenoids and carotenoids plus vitamin E protect against ultraviolet lightâ€“induced erythema in humans. American Journal of Clinical Nutrition, 2000, 71, 795-798.	2.2	277
47	The role of H2O2 generation in perfused rat liver and the reaction of catalase compound I and hydrogen donors. Archives of Biochemistry and Biophysics, 1973, 154, 117-131.	1.4	273
48	Evidence that Singlet Oxygen-induced Human T Helper Cell Apoptosis Is the Basic Mechanism of Ultraviolet-A Radiation Phototherapy. Journal of Experimental Medicine, 1997, 186, 1763-1768.	4.2	271
49	NUTRITIONAL PROTECTION AGAINST SKIN DAMAGE FROM SUNLIGHT. Annual Review of Nutrition, 2004, 24, 173-200.	4.3	268
50	Protection against peroxynitrite. FEBS Letters, 1999, 445, 226-230.	1.3	267
51	Vitamins E and C are safe across a broad range of intakes1,2. American Journal of Clinical Nutrition, 2005, 81, 736-745.	2.2	264
52	Hydroperoxide-Metabolizing Systems in Rat Liver. FEBS Journal, 1975, 57, 503-512.	0.2	260
53	Plasma antioxidants and longevity: a study on healthy centenarians. Free Radical Biology and Medicine, 2000, 28, 1243-1248.	1.3	256
54	Ebselen: prospective therapy for cerebral ischaemia. Expert Opinion on Investigational Drugs, 2000, 9, 607-619.	1.9	253

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55	Role of Copper, Zinc, Selenium and Tellurium in the Cellular Defense against Oxidative and Nitrosative Stress. Journal of Nutrition, 2003, 133, 1448S-1451S.	1.3	253
56	Carotenoids, tocopherols and thiols as biological singlet molecular oxygen quenchers. Biochemical Society Transactions, 1990, 18, 1054-1056.	1.6	245
57	Oxidation in the NADP system and release of GSSG from hemoglobin-free perfused rat liver during peroxidatic oxidation of glutathione by hydroperoxides. FEBS Letters, 1972, 27, 171-175.	1.3	243
58	The biochemistry of selenium and the glutathione system. Environmental Toxicology and Pharmacology, 2001, 10, 153-158.	2.0	243
59	Selenium, oxidative stress, and health aspects. Molecular Aspects of Medicine, 2005, 26, 256-267.	2.7	237
60	Total Antioxidant Capacity: Appraisal of a Concept. Journal of Nutrition, 2007, 137, 1493-1495.	1.3	235
61	Cranberries and Their Bioactive Constituents in Human Health. Advances in Nutrition, 2013, 4, 618-632.	2.9	233
62	Dietary Selenium in Adjuvant Therapy of Viral and Bacterial Infections. Advances in Nutrition, 2015, 6, 73-82.	2.9	225
63	Singlet oxygen induced DNA damage. Mutation Research - DNAging, 1992, 275, 367-375.	3.3	223
64	How do dietary flavanols improve vascular function? A position paper. Archives of Biochemistry and Biophysics, 2008, 476, 102-106.	1.4	221
65	Increased biliary glutathione disulfide release in chronically ethanol-treated rats. FEBS Letters, 1979, 103, 287-290.	1.3	213
66	[3] The use of perfusion of liver and other organs for the study of microsomal electron-transport and cytochrome P-450 systems. Methods in Enzymology, 1978, 52, 48-59.	0.4	209
67	Oxidation of glutathione by the superoxide radical to the disulfide and the sulfonate yielding singlet oxygen. FEBS Journal, 1983, 137, 29-36.	0.2	207
68	Mitogen-activated protein kinase (p38-, JNK-, ERK-) activation pattern induced by extracellular and intracellular singlet oxygen and UVA. FEBS Journal, 1999, 260, 917-922.	0.2	206
69	Spontaneous mutagenesis and oxidative damage to DNA in Salmonella typhimurium.. Proceedings of the National Academy of Sciences of the United States of America, 1987, 84, 8917-8921.	3.3	205
70	Central Role of Ferrous/Ferric Iron in the Ultraviolet B Irradiation-mediated Signaling Pathway Leading to Increased Interstitial Collagenase (Matrix-degrading Metalloprotease (MMP)-1) and Stromelysin-1 (MMP-3) mRNA Levels in Cultured Human Dermal Fibroblasts. Journal of Biological Chemistry, 1998, 273, 5279-5287.	1.6	204
71	Î²-Carotene and other carotenoids in protection from sunlight. American Journal of Clinical Nutrition, 2012, 96, 1179S-1184S.	2.2	203
72	Oxidative Stress: Concept and Some Practical Aspects. Antioxidants, 2020, 9, 852.	2.2	203

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73	Activation of transcription factor AP-2 mediates UVA radiation- and singlet oxygen-induced expression of the human intercellular adhesion molecule 1 gene. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 14586-14591.	3.3	202
74	Dietary Tomato Paste Protects against Ultraviolet Lightâ€“Induced Erythema in Humans. Journal of Nutrition, 2001, 131, 1449-1451.	1.3	201
75	[26] Low-level chemiluminescence as an indicator of singlet molecular oxygen in biological systems. Methods in Enzymology, 1984, 105, 221-231.	0.4	200
76	Quantitative assessment of antioxidant properties of natural colorants and phytochemicals: carotenoids, flavonoids, phenols and indigoids. The role of Î²-carotene in antioxidant functions. Journal of the Science of Food and Agriculture, 2001, 81, 559-568.	1.7	200
77	Ebselen as a Glutathione Peroxidase Mimic and as a Scavenger of Peroxynitrite. Advances in Pharmacology, 1996, 38, 229-246.	1.2	198
78	Supplementation with Î²-Carotene or a Similar Amount of Mixed Carotenoids Protects Humans from UV-Induced Erythema. Journal of Nutrition, 2003, 133, 98-101.	1.3	195
79	Cocoa polyphenols and inflammatory mediators. American Journal of Clinical Nutrition, 2005, 81, 304S-312S.	2.2	195
80	[8] Chemical depletion of glutathione in vivo. Methods in Enzymology, 1981, 77, 50-59.	0.4	192
81	Singlet Oxygen May Mediate the Ultraviolet A-Induced Synthesis of Interstitial Collagenase. Journal of Investigative Dermatology, 1995, 104, 194-198.	0.3	192
82	Polyphenols and health: Update and perspectives. Archives of Biochemistry and Biophysics, 2010, 501, 2-5.	1.4	190
83	The early research and development of ebselen. Biochemical Pharmacology, 2013, 86, 1248-1253.	2.0	190
84	Macular Pigments Lutein and Zeaxanthin as Blue Light Filters Studied in Liposomes. Archives of Biochemistry and Biophysics, 2001, 391, 160-164.	1.4	186
85	Reduced and oxidized glutathione efflux from liver. FEBS Letters, 1978, 86, 89-91.	1.3	184
86	Sustained Increase in Flow-Mediated Dilation After Daily Intake of High-Flavanol Cocoa Drink Over 1 Week. Journal of Cardiovascular Pharmacology, 2007, 49, 74-80.	0.8	184
87	On the history of oxidative stress: Concept and some aspects of current development. Current Opinion in Toxicology, 2018, 7, 122-126.	2.6	182
88	Role of reactive oxygen species in biological processes. Klinische Wochenschrift, 1991, 69, 965-968.	0.6	180
89	Hepatic low-level chemiluminescence during redox cycling of menadione and the menadione-glutathione conjugate: Relation to glutathione and NAD(P)H:quinone reductase (DT-diaphorase) activity. Archives of Biochemistry and Biophysics, 1983, 224, 568-578.	1.4	179
90	S-Nitrosylation and S-Glutathiolation of Protein Sulfhydryls byS-Nitroso Glutathione. Archives of Biochemistry and Biophysics, 1999, 362, 67-78.	1.4	177

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91	Hepatic mitochondrial and cytosolic glutathione content and the subcellular distribution of GSH-S-transferases. FEBS Letters, 1979, 97, 138-140.	1.3	176
92	Supplementation with Tomato-Based Products Increases Lycopene, Phytofluene, and Phytoene Levels in Human Serum and Protects Against UV-light-induced Erythema. International Journal for Vitamin and Nutrition Research, 2005, 75, 54-60.	0.6	176
93	Quantification of singlet oxygen generated by thermolysis of 3,3'-(1,4-naphthylene)dipropionate endoperoxide. Monomol and dimol photoemission and the effects of 1,4-diazabicyclo[2.2.2]octane. Journal of the American Chemical Society, 1989, 111, 2909-2914.	6.6	174
94	Preferential Relative Porphyrin Enrichment in Solar Keratoses upon Topical Application of ^-Aminolevulinic Acid Methylester. Photochemistry and Photobiology, 1998, 68, 218-221.	1.3	173
95	Selenium homeostasis and antioxidant selenoproteins in brain: Implications for disorders in the central nervous system. Archives of Biochemistry and Biophysics, 2013, 536, 152-157.	1.4	171
96	The Reaction of Ebselen with Peroxynitrite. Chemical Research in Toxicology, 1996, 9, 262-267.	1.7	168
97	Selective upregulation of inducible nitric oxide synthase (iNOS) by lipopolysaccharide (LPS) and cytokines in microglia: In vitro and in vivo studies. Glia, 2000, 32, 51-59.	2.5	168
98	[59] Glutathione disulfide (GSSG) efflux from cells and tissues. Methods in Enzymology, 1984, 105, 445-451.	0.4	166
99	Profiles of antioxidants in human plasma. Free Radical Biology and Medicine, 2001, 30, 456-462.	1.3	164
100	Low Level Chemiluminescence of Liver Microsomal Fractions Initiated by tertâ€Butyl Hydroperoxide. FEBS Journal, 1982, 124, 349-356.	0.2	158
101	High selenium intake and increased diabetes risk: experimental evidence for interplay between selenium and carbohydrate metabolism. Journal of Clinical Biochemistry and Nutrition, 2010, 48, 40-45.	0.6	158
102	Kinetic study of the reaction of ebselen with peroxynitrite. FEBS Letters, 1996, 398, 179-182.	1.3	157
103	State of Oxidation-Reduction and State of Binding in the Cytosolic NADH-System as Disclosed by Equilibration with Extracellular Lactate/Pyruvate in Hemoglobin-Free Perfused Rat Liver. FEBS Journal, 1972, 27, 301-317.	0.2	156
104	Lycopene-rich products and dietary photoprotection. Photochemical and Photobiological Sciences, 2006, 5, 238-242.	1.6	156
105	Stimulation of Gap Junctional Communication: Comparison of acyclo-Retinoic Acid and Lycopene. Archives of Biochemistry and Biophysics, 2000, 373, 271-274.	1.4	155
106	Singlet oxygen-induced signaling effects in mammalian cells. Photochemical and Photobiological Sciences, 2003, 2, 88-94.	1.6	155
107	The steady state level of catalase compound I in isolated hemoglobin-free perfused rat liver. FEBS Letters, 1970, 11, 172-176.	1.3	153
108	Antioxidant activity of dihydrolipoate against microsomal lipid peroxidation and its dependence on Î±-tocopherol. Lipids and Lipid Metabolism, 1989, 1001, 256-261.	2.6	151

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109	Biological activities of natural and synthetic carotenoids: induction of gap junctional communication and singlet oxygen quenching. Carcinogenesis, 1997, 18, 89-92.	1.3	151
110	Oxidative eustress: On constant alert for redox homeostasis. Redox Biology, 2021, 41, 101867.	3.9	149
111	Activity of thiols as singlet molecular oxygen quenchers. Journal of Photochemistry and Photobiology B: Biology, 1991, 9, 105-116.	1.7	148
112	Long-Term Ingestion of High Flavanol Cocoa Provides Photoprotection against UV-Induced Erythema and Improves Skin Condition in Women. Journal of Nutrition, 2006, 136, 1565-1569.	1.3	148
113	Astaxanthin, canthaxanthin and Î²â€carotene differently affect UVAâ€induced oxidative damage and expression of oxidative stressâ€responsive enzymes. Experimental Dermatology, 2009, 18, 222-231.	1.4	148
114	Protection against peroxynitrite by cocoa polyphenol oligomers. FEBS Letters, 1999, 462, 167-170.	1.3	147
115	Involvement of selenoprotein P in protection of human astrocytes from oxidative damage. Free Radical Biology and Medicine, 2006, 40, 1513-1523.	1.3	147
116	Carotenoids and Protection against Solar UV Radiation. Skin Pharmacology and Physiology, 2002, 15, 291-296.	1.1	146
117	Physical and chemical scavenging of singlet molecular oxygen by tocopherols. Archives of Biochemistry and Biophysics, 1990, 277, 101-108.	1.4	144
118	(â€“)-Epicatechin elevates nitric oxide in endothelial cells via inhibition of NADPH oxidase. Biochemical and Biophysical Research Communications, 2007, 359, 828-833.	1.0	144
119	Carotenoids and Flavonoids Contribute to Nutritional Protection against Skin Damage from Sunlight. Molecular Biotechnology, 2007, 37, 26-30.	1.3	144
120	Singlet molecular oxygen production in the reaction of peroxynitrite with hydrogen peroxide. FEBS Letters, 1994, 355, 287-289.	1.3	142
121	Flavanol-rich cocoa drink lowers plasma F 2 -isoprostane concentrations in humans. Free Radical Biology and Medicine, 2004, 37, 411-421.	1.3	142
122	A novel biologically active selenoorganic compoundâ€”IV. Biochemical Pharmacology, 1985, 34, 1185-1189.	2.0	141
123	DNA damage by peroxynitrite characterized with DNA repair enzymes. Nucleic Acids Research, 1996, 24, 4105-4110.	6.5	141
124	Lycopene oxidation product enhances gap junctional communication. Food and Chemical Toxicology, 2003, 41, 1399-1407.	1.8	139
125	Increased frequency of a null-allele for NAD(P)H: quinone oxidoreductase in patients with urological malignancies. Pharmacogenetics and Genomics, 1997, 7, 235-239.	5.7	138
126	Defenses against peroxynitrite: selenocompounds and flavonoids. Toxicology Letters, 2003, 140-141, 125-132.	0.4	136

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127	Interaction of peroxynitrite with selenoproteins and glutathione peroxidase mimics. Free Radical Biology and Medicine, 2000, 28, 1451-1455.	1.3	135
128	Increased Dermal Carotenoid Levels Assessed by Noninvasive Reflection Spectrophotometry Correlate with Serum Levels in Women Ingesting Betatene. Journal of Nutrition, 1998, 128, 903-907.	1.3	133
129	Potential therapeutic use of ebselen for COVID-19 and other respiratory viral infections. Free Radical Biology and Medicine, 2020, 156, 107-112.	1.3	133
130	Protein Oxidation in Human Stratum Corneum: Susceptibility of Keratins to Oxidation In Vitro and Presence of a Keratin Oxidation Gradient In Vivo. Journal of Investigative Dermatology, 1999, 113, 335-339.	0.3	132
131	Singlet oxygen induces collagenase expression in human skin fibroblasts. FEBS Letters, 1993, 331, 304-306.	1.3	129
132	Role of tocopherols in the protection of biological systems against oxidative damage. Journal of Photochemistry and Photobiology B: Biology, 1991, 8, 211.	1.7	128
133	Low vitamin E content in plasma of patients with alcoholic liver disease, hemochromatosis and wilson's disease. Journal of Hepatology, 1994, 20, 41-46.	1.8	125
134	Increase in hepatic mixed disulphide and glutathione disulphide levels elicited by paraquat. Biochemical Pharmacology, 1982, 31, 1637-1641.	2.0	124
135	Peroxynitrite signaling: receptor tyrosine kinases and activation of stress-responsive pathways 1,2 1This article is part of a series of reviews on â€œReactive Nitrogen Species, Tyrosine Nitration and Cell Signaling.â€•The full list of papers may be found on the homepage of the journal. 2Guest Editor: Harry Ischiropoulos. Free Radical Biology and Medicine, 2002, 33, 737-743.	1.3	124
136	Flavonoids of Cocoa Inhibit Recombinant Human 5-Lipoxygenase. Journal of Nutrition, 2002, 132, 1825-1829.	1.3	122
137	High Fruit and Vegetable Intake is Positively Correlated with Antioxidant Status and Cognitive Performance in Healthy Subjects. Journal of Alzheimer's Disease, 2009, 17, 921-927.	1.2	122
138	Reactive oxygen species associated with cell differentiation in Neurospora crassa. Free Radical Biology and Medicine, 1993, 14, 287-293.	1.3	120
139	Activation pattern of mitogen-activated protein kinases elicited by peroxynitrite: attenuation by selenite supplementation. FEBS Letters, 1999, 448, 301-303.	1.3	120
140	Attenuation of oxidation and nitration reactions of peroxynitrite by selenomethionine, selenocystine and ebselen. Biochemical Journal, 1996, 319, 13-15.	1.7	119
141	Singlet oxygen is an early intermediate in cytokine-dependent ultraviolet-A induction of interstitial collagenase in human dermal fibroblasts in vitro. FEBS Letters, 1997, 413, 239-242.	1.3	119
142	Ebselen prevents early alcohol-induced liver injury in rats. Free Radical Biology and Medicine, 2001, 30, 403-411.	1.3	119
143	Copper Ions Strongly Activate the Phosphoinositide-3-Kinase/Akt Pathway Independent of the Generation of Reactive Oxygen Species. Archives of Biochemistry and Biophysics, 2002, 397, 232-239.	1.4	117
144	Plasma levels of vitamin e and carotenoids are decreased in patients with nonalcoholic steatohepatitis (nash). European Journal of Medical Research, 2011, 16, 76.	0.9	116

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145	Polyphenols of Cocoa: Inhibition of Mammalian 15-Lipoxygenase. Biological Chemistry, 2001, 382, 1687-96.	1.2	115
146	Protein oxidation and proteolysis by the nonradical oxidants singlet oxygen or peroxynitrite. Free Radical Biology and Medicine, 2001, 30, 1243-1253.	1.3	114
147	Selenoprotein P protects endothelial cells from oxidative damage by stimulation of glutathione peroxidase expression and activity. Free Radical Research, 2006, 40, 936-943.	1.5	113
148	Cocoa flavanols lower vascular arginase activity in human endothelial cells in vitro and in erythrocytes in vivo. Archives of Biochemistry and Biophysics, 2008, 476, 211-215.	1.4	113
149	Identification of an abundant S-thiolated rat liver protein as carbonic anhydrase III; characterization of S-thiolation and dethiolation reactions. Archives of Biochemistry and Biophysics, 1991, 284, 270-278.	1.4	111
150	Physical Quenching of Singlet Oxygen and cis-trans Isomerization of Carotenoids. Annals of the New York Academy of Sciences, 1993, 691, 10-19.	1.8	111
151	All-trans Î²-Carotene Preferentially Accumulates in Human Chylomicrons and Very Low Density Lipoproteins Compared with the 9-cis Geometrical Isomer. Journal of Nutrition, 1995, 125, 2128-2133.	1.3	111
152	Peroxynitrite activates the phosphoinositide 3-kinase/Akt pathway in human skin primary fibroblasts. Biochemical Journal, 2000, 352, 219-225.	1.7	111
153	Selenoprotein P expression is controlled through interaction of the coactivator PGC-1Î± with FoxO1a and hepatocyte nuclear factor 4Î± transcription factors. Hepatology, 2008, 48, 1998-2006.	3.6	111
154	A Role of Mitochondrial Glutathione Peroxidase in Modulating Mitochondrial Oxidations in Liver. FEBS Journal, 1978, 84, 377-383.	0.2	110
155	Î²-Cryptoxanthin Selectively Increases in Human Chylomicrons upon Ingestion of Tangerine Concentrate Rich in Î²-Cryptoxanthin Esters. Archives of Biochemistry and Biophysics, 1995, 324, 385-390.	1.4	110
156	Plasma Antioxidant Status, Immunoglobulin G Oxidation and Lipid Peroxidation in Demented Patients: Relevance to Alzheimer Disease and Vascular Dementia. Dementia and Geriatric Cognitive Disorders, 2004, 18, 265-270.	0.7	110
157	Exocytosis in secretory cells of rat lacrimal gland. Peroxidase release from lobules and isolated cells upon cholinergic stimulation.. Journal of Cell Biology, 1976, 70, 692-706.	2.3	109
158	Kinetic Study of the Reaction of Glutathione Peroxidase with Peroxynitrite. Chemical Research in Toxicology, 1998, 11, 1398-1401.	1.7	109
159	Infrared-A Radiation-Induced Matrix Metalloproteinase 1 Expression is Mediated Through Extracellular Signal-regulated Kinase 1/2 Activation in Human Dermal Fibroblasts. Journal of Investigative Dermatology, 2002, 119, 1323-1329.	0.3	108
160	Selenium-Containing Compounds Protect DNA fromSingle-Strand Breaks Caused by Peroxynitrite. Archives of Biochemistry and Biophysics, 1996, 330, 216-218.	1.4	107
161	Non-enzymatic triggering of the ceramide signalling cascade by solar UVA radiation. EMBO Journal, 2000, 19, 5793-5800.	3.5	106
162	Enhancement of tumor invasion depends on transdifferentiation of skin fibroblasts mediated by reactive oxygen species. Journal of Cell Science, 2006, 119, 2727-2738.	1.2	106

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163	Photoprotection by dietary carotenoids: Concept, mechanisms, evidence and future development. Molecular Nutrition and Food Research, 2012, 56, 287-295.	1.5	106
164	Xanthophyll Esters in Human Skin. Archives of Biochemistry and Biophysics, 1998, 355, 271-274.	1.4	104
165	Inhibition of superoxide and nitric oxide release and protection from reoxygenation injury by ebselen in rat kupffer cells. Hepatology, 1992, 15, 1112-1116.	3.6	103
166	Singlet Oxygen Formation Detected by Low-Level Chemiluminescence during Enzymatic Reduction of Prostaglandin G₂to H₂. Hoppe-Seyler's Zeitschrift FÃ¼r Physiologische Chemie, 1983, 364, 519-528.	1.7	102
167	Oxidative stress: Excited oxygen species and enzyme activity. Advances in Enzyme Regulation, 1985, 23, 217-237.	2.9	102
168	Epidermal Growth Factor Receptor Is a Common Mediator of Quinone-induced Signaling Leading to Phosphorylation of Connexin-43. Journal of Biological Chemistry, 2003, 278, 38360-38367.	1.6	102
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