Barry Halliwell

List of Publications by Year
in descending order

499 papers	96,169 citations	317 138 h-index	278 295 g-index
518 all docs	518 docs citations	518 times ranked	69072 citing authors

#	Article	IF	Citations
1	[1] Role of free radicals and catalytic metal ions in human disease: An overview. Methods in Enzymology, 1990, 186, 1-85.	1.0	3,941
2	Reactive Oxygen Species and the Central Nervous System. Journal of Neurochemistry, 1992, 59, 1609-1623.	3.9	2,587
3	The presence of glutathione and glutathione reductase in chloroplasts: A proposed role in ascorbic acid metabolism. Planta, 1976, 133, 21-25.	3.2	2,320
4	Oxidative stress and neurodegeneration: where are we now?. Journal of Neurochemistry, 2006, 97, 1634-1658.	3.9	2,199
5	Damage to DNA by reactive oxygen and nitrogen species: role in inflammatory disease and progression to cancer. Biochemical Journal, 1996, 313, 17-29.	3.7	2,020
6	Oxygen free radicals and iron in relation to biology and medicine: Some problems and concepts. Archives of Biochemistry and Biophysics, 1986, 246, 501-514.	3.0	1,955
7	The deoxyribose method: A simple â€œtest-tubeâ€•assay for determination of rate constants for reactions of hydroxyl radicals. Analytical Biochemistry, 1987, 165, 215-219.	2.4	1,954
8	Measuring reactive species and oxidative damagein vivoand in cell culture: how should you do it and what do the results mean?. British Journal of Pharmacology, 2004, 142, 231-255.	5.4	1,839
9	Reactive Species and Antioxidants. Redox Biology Is a Fundamental Theme of Aerobic Life. Plant Physiology, 2006, 141, 312-322.	4.8	1,834
10	The antioxidant action of N-acetylcysteine: Its reaction with hydrogen peroxide, hydroxyl radical, superoxide, and hypochlorous acid. Free Radical Biology and Medicine, 1989, 6, 593-597.	2.9	1,576
11	Formation of nitric oxide-derived inflammatory oxidants by myeloperoxidase in neutrophils. Nature, 1998, 391, 393-397.	27.8	1,452
12	Antioxidants in Human Health and Disease. Annual Review of Nutrition, 1996, 16, 33-50.	10.1	1,439
13	DNA damage by oxygenâ€derived species Its mechanism and measurement in mammalian systems. FEBS Letters, 1991, 281, 9-19.	2.8	1,350
14	Role of Free Radicals in the Neurodegenerative Diseases. Drugs and Aging, 2001, 18, 685-716.	2.7	1,259
15	The antioxidants of human extracellular fluids. Archives of Biochemistry and Biophysics, 1990, 280, 1-8.	3.0	1,167
16	Biochemistry of oxidative stress. Biochemical Society Transactions, 2007, 35, 1147-1150.	3.4	1,150
17	Oxidative stress and cancer: have we moved forward?. Biochemical Journal, 2007, 401, 1-11.	3.7	1,099
18	Oxidants and human disease: some new concepts ¹. FASEB Journal, 1987, 1, 358-364.	0.5	1,069

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19	The measurement and mechanism of lipid peroxidation in biological systems. Trends in Biochemical Sciences, 1990, 15, 129-135.	7.5	1,052
20	Oxidative stress, dysfunctional glucose metabolism and Alzheimer disease. Nature Reviews Neuroscience, 2019, 20, 148-160.	10.2	1,021
21	Hydrogen peroxide in the human body. FEBS Letters, 2000, 486, 10-13.	2.8	869
22	The importance of free radicals and catalytic metal ions in human diseases. Molecular Aspects of Medicine, 1985, 8, 89-193.	6.4	860
23	Antioxidant defence mechanisms: From the beginning to the end (of the beginning). Free Radical Research, 1999, 31, 261-272.	3.3	795
24	Free Radicals and Antioxidants in the Year 2000: A Historical Look to the Future. Annals of the New York Academy of Sciences, 2000, 899, 136-147.	3.8	781
25	Biologically relevant metal ion-dependent hydroxyl radical generation An update. FEBS Letters, 1992, 307, 108-112.	2.8	780
26	Free Radicals and Antioxidants: A Personal View. Nutrition Reviews, 1994, 52, 253-265.	5.8	764
27	Oxygen radicals and the nervous system. Trends in Neurosciences, 1985, 8, 22-26.	8.6	748
28	Formation of a thiobarbituric-acid-reactive substance from deoxyribose in the presence of iron salts. FEBS Letters, 1981, 128, 347-352.	2.8	746
29	How to Characterize a Biological Antioxidant. Free Radical Research Communications, 1990, 9, 1-32.	1.8	743
30	Formation of Reactive Nitrogen Species during Peroxidase-catalyzed Oxidation of Nitrite. Journal of Biological Chemistry, 1997, 272, 7617-7625.	3.4	735
31	Superoxide-dependent formation of hydroxyl radicals in the presence of iron chelates. FEBS Letters, 1978, 92, 321-326.	2.8	686
32	Unraveling the Biological Roles of Reactive Oxygen Species. Cell Metabolism, 2011, 13, 361-366.	16.2	661
33	Evidence for nitric oxide-mediated oxidative damage in chronic inflammation Nitrotyrosine in serum and synovial fluid from rheumatoid patients. FEBS Letters, 1994, 350, 9-12.	2.8	644
34	Free radicals and antioxidants: updating a personal view. Nutrition Reviews, 2012, 70, 257-265.	5.8	626
35	Are polyphenols antioxidants or pro-oxidants? What do we learn from cell culture and in vivo studies?. Archives of Biochemistry and Biophysics, 2008, 476, 107-112.	3.0	618
36	Health promotion by flavonoids, tocopherols, tocotrienols, and other phenols: direct or indirect effects? Antioxidant or not?. American Journal of Clinical Nutrition, 2005, 81, 268S-276S.	4.7	596

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37	Albuminâ€"An important extracellular antioxidant?. Biochemical Pharmacology, 1988, 37, 569-571.	4.4	585
38	Inhibition of mammalian 5-lipoxygenase and cyclo-oxygenase by flavonoids and phenolic dietary additives. Biochemical Pharmacology, 1991, 42, 1673-1681.	4.4	572
39	The antioxidant paradox. Lancet, The, 2000, 355, 1179-1180.	13.7	559
40	Antioxidants and Human Disease: A General Introduction. Nutrition Reviews, 1997, 55, S44-S49.	5.8	551
41	Free radicals and antioxidants â€" quo vadis?. Trends in Pharmacological Sciences, 2011, 32, 125-130.	8.7	551
42	Free radicals and antioxidants in food andin vivo:What they do and how they work. Critical Reviews in Food Science and Nutrition, 1995, 35, 7-20.	10.3	548
43	The novel neuromodulator hydrogen sulfide: an endogenous peroxynitrite â€˜scavengerâ€™?. Journal of Neurochemistry, 2004, 90, 765-768.	3.9	545
44	Antioxidant and pro-oxidant actions of the plant phenolics quercetin, gossypol and myricetin. Biochemical Pharmacology, 1989, 38, 2859-2865.	4.4	530
45	Nitric oxide and oxygen radicals: a question of balance. FEBS Letters, 1995, 369, 131-135.	2.8	501
46	Failure of the ubiquitinâ€"proteasome system in Parkinson's disease. Nature Reviews Neuroscience, 2001, 2, 589-594.	10.2	490
47	A Generalised Increase in Protein Carbonyls in the Brain in Parkinson's but Not Incidental Lewy Body Disease. Journal of Neurochemistry, 1997, 69, 1326-1329.	3.9	483
48	Commentary Oxidative Stress, Nutrition and Health. Experimental Strategies for Optimization of Nutritional Antioxidant Intake in Humans. Free Radical Research, 1996, 25, 57-74.	3.3	473
49	An Assessment of Oxidative Damage to Proteins, Lipids, and DNA in Brain from Patients with Alzheimer's Disease. Journal of Neurochemistry, 1997, 68, 2061-2069.	3.9	470
50	Commentary: Vitamin C: Antioxidant or Pro-Oxidant In Vivo?. Free Radical Research, 1996, 25, 439-454.	3.3	459
51	Oxidative stress in cell culture: an under-appreciated problem?. FEBS Letters, 2003, 540, 3-6.	2.8	455
52	The gastrointestinal tract: A major site of antioxidant action?. Free Radical Research, 2000, 33, 819-830.	3.3	438
53	What nitrates tyrosine? Is nitrotyrosine specific as a biomarker of peroxynitrite formation in vivo?. FEBS Letters, 1997, 411, 157-160.	2.8	435
54	Dietary polyphenols: Good, bad, or indifferent for your health?. Cardiovascular Research, 2007, 73, 341-347.	3.8	423

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55	Formation of Nitrating and Chlorinating Species by Reaction of Nitrite with Hypochlorous Acid. Journal of Biological Chemistry, 1996, 271, 19199-19208.	3.4	408
56	The definition and measurement of antioxidants in biological systems. Free Radical Biology and Medicine, 1995, 18, 125-126.	2.9	402
57	The wanderings of a free radical. Free Radical Biology and Medicine, 2009, 46, 531-542.	2.9	398
58	Micronutrients: oxidant/antioxidant status. British Journal of Nutrition, 2001, 85, S67.	2.3	392
59	Antioxidant characterization. Biochemical Pharmacology, 1995, 49, 1341-1348.	4.4	385
60	Oxidative damage, lipid peroxidation and antioxidant protection in chloroplasts. Chemistry and Physics of Lipids, 1987, 44, 327-340.	3.2	368
61	Evaluation of the antioxidant and prooxidant actions of gallic acid and its derivatives. Journal of Agricultural and Food Chemistry, 1993, 41, 1880-1885.	5.2	363
62	Artifacts in Cell Culture: Rapid Generation of Hydrogen Peroxide on Addition of (â˜)-Epigallocatechin, (â˜)-Epigallocatechin Gallate, (+)-Catechin, and Quercetin to Commonly Used Cell Culture Media. Biochemical and Biophysical Research Communications, 2000, 273, 50-53.	2.1	363
63	Guidelines for measuring reactive oxygen species and oxidative damage in cells and in vivo. Nature Metabolism, 2022, 4, 651-662.	11.9	356
64	Interactions of a series of coumarins with reactive oxygen species. Biochemical Pharmacology, 1992, 44, 205-214.	4.4	351
65	Aromatic hydroxylation and nitration of phenylalanine and tyrosine by peroxynitrite. FEBS Letters, 1994, 339, 89-92.	2.8	351
66	Allopurinol and oxypurinol are hydroxyl radical scavengers. FEBS Letters, 1987, 213, 23-28.	2.8	350
67	Protection against tissue damage in vivo by desferrioxamine: What is its mechanism of action?. Free Radical Biology and Medicine, 1989, 7, 645-651.	2.9	348
68	Ergothioneine; antioxidant potential, physiological function and role in disease. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2012, 1822, 784-793.	3.8	330
69	Conjugates of Catecholamines with Cysteine and GSH in Parkinson's Disease: Possible Mechanisms of Formation Involving Reactive Oxygen Species. Journal of Neurochemistry, 1998, 71, 2112-2122.	3.9	326
70	Inhibition of Peroxynitrite-Mediated Tyrosine Nitration by Catechin Polyphenols. Biochemical and Biophysical Research Communications, 1997, 232, 164-168.	2.1	322
71	Oxygen and nitrogen are pro-carcinogens. Damage to DNA by reactive oxygen, chlorine and nitrogen species: measurement, mechanism and the effects of nutrition. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 1999, 443, 37-52.	1.7	317
72	Antioxidants: Molecules, medicines, and myths. Biochemical and Biophysical Research Communications, 2010, 393, 561-564.	2.1	310

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73	Drug Antioxidant Effects. Drugs, 1991, 42, 569-605.	10.9	300
74	Lignin synthesis: The generation of hydrogen peroxide and superoxide by horseradish peroxidase and its stimulation by manganese (II) and phenols. Planta, 1978, 140, 81-88.	3.2	299
75	Evaluation of the antioxidant activity of melatonin in vitro. Free Radical Biology and Medicine, 1996, 21, 307-315.	2.9	299
76	The measurement of free radical reactions in humans. FEBS Letters, 1987, 213, 9-14.	2.8	293
77	Supplementation with vitamin C and N-acetyl-cysteine increases oxidative stress in humans after an acute muscle injury induced by eccentric exercise. Free Radical Biology and Medicine, 2001, 31, 745-753.	2.9	283
78	Blood radicals: reactive nitrogen species, reactive oxygen species, transition metal ions, and the vascular system. Pharmaceutical Research, 1996, 13, 649-662.	3.5	277
79	Superoxide-dependent formation of hydroxyl radicals in the presence of iron salts. FEBS Letters, 1978, 96, 238-242.	2.8	274
80	Lipoic and Dihydrolipoic Acids as Antioxidants. a Critical Evaluation. Free Radical Research, 1994, 20, 119-133.	3.3	273
81	Hydroxylation of salicylate as an assay for hydroxyl radicals: A cautionary note. Free Radical Biology and Medicine, 1991, 10, 439-441.	2.9	259
82	Nitric oxide and peroxynitrite. The ugly, the uglier and the not so good. Free Radical Research, 1999, 31, 651-669.	3.3	256
83	Hydrogen Sulfide Is a Mediator of Cerebral Ischemic Damage. Stroke, 2006, 37, 889-893.	2.0	250
84	The antioxidant paradox: less paradoxical now?. British Journal of Clinical Pharmacology, 2013, 75, 637-644.	2.4	250
85	Intense oxidative DNA damage promoted byl-DOPA and its metabolites implications for neurodegenerative disease. FEBS Letters, 1994, 353, 246-250.	2.8	249
86	Oxidants, inflammation, and antiâ€inflammatory drugs. FASEB Journal, 1988, 2, 2867-2873.	0.5	246
87	Lipid peroxidation, antioxidants and cardiovascular disease: how should we move forward?. Cardiovascular Research, 2000, 47, 410-418.	3.8	246
88	Superoxide-dependent formation of hydroxyl radicals: Detection of hydroxyl radicals by the hydroxylation of aromatic compounds. Analytical Biochemistry, 1981, 118, 328-335.	2.4	240
89	Inhibition of lipid peroxidation by the iron-binding protein lactoferrin. Biochemical Journal, 1981, 199, 259-261.	3.7	233
90	Human fecal water content of phenolics: The extent of colonic exposure to aromatic compounds. Free Radical Biology and Medicine, 2005, 38, 763-772.	2.9	231

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91	Damage to the DNA bases in mammalian chromatin by hydrogen peroxide in the presence of ferric and cupric ions. Archives of Biochemistry and Biophysics, 1991, 285, 317-324.	3.0	230
92	Effect of diet on cancer development: is oxidative DNA damage a biomarker?1,2 1This article is part of a series of reviews on â€œOxidative DNA Damage and Repair.â€•The full list of papers may be found on the homepage of the journal. 2Guest Editor: Miral Dizdaroglu. Free Radical Biology and Medicine, 2002, 32, 968-974.	2.9	228
93	Oxidative damage in Parkinson disease: Measurement using accurate biomarkers. Free Radical Biology and Medicine, 2010, 48, 560-566.	2.9	226
94	Iron and free radical reactions: two aspects of antioxidant protection. Trends in Biochemical Sciences, 1986, 11, 372-375.	7.5	225
95	Establishing the Significance and Optimal Intake of Dietary Antioxidants: The Biomarker Concept. Nutrition Reviews, 1999, 57, 104-113.	5.8	221
96	Action of biologically-relevant oxidizing species upon uric acid. Identification of uric acid oxidation products. Chemico-Biological Interactions, 1990, 73, 235-247.	4.0	214
97	The antioxidant action of ergothioneine. Archives of Biochemistry and Biophysics, 1991, 288, 10-16.	3.0	214
98	Commentary the Measurement of Oxidative Damage to DNA by HPLC and GC/MS Techniques. Free Radical Research Communications, 1992, 16, 75-87.	1.8	213
99	Effect of the overexpression of wild-type or mutant Î±-synuclein on cell susceptibility to insult. Journal of Neurochemistry, 2001, 76, 998-1009.	3.9	213
100	How to characterize an antioxidant: an update. Biochemical Society Symposia, 1995, 61, 73-101.	2.7	210
101	Superoxide-dependent formation of hydroxyl radicals and lipid peroxidation in the presence of iron salts. Detection of â€˜catalyticâ€™ iron and anti-oxidant activity in extracellular fluids. Biochemical Journal, 1982, 206, 605-609.	3.7	207
102	Methods for the Measurement of Hydroxyl Radicals in Biochemical Systems: Deoxyribose Degradation and Aromatic Hydroxylation. Methods of Biochemical Analysis, 2006, 33, 59-90.	0.2	207
103	Superoxideâ€dependent formation of hydroxyl radicals in the presence of thiol compounds. FEBS Letters, 1982, 138, 33-36.	2.8	203
104	Why and how should we measure oxidative DNA damage in nutritional studies? How far have we come?. American Journal of Clinical Nutrition, 2000, 72, 1082-1087.	4.7	200
105	TheIn VitroCytotoxicity of Ascorbate Depends on the Culture Medium Used to Perform the Assay and Involves Hydrogen Peroxide. Antioxidants and Redox Signaling, 2001, 3, 157-163.	5.4	197
106	Evaluation of the Antioxidant Actions of Ferulic Acid and Catechins. Free Radical Research Communications, 1993, 19, 241-253.	1.8	195
107	Inhibition of Peroxynitrite Dependent Tyrosine Nitration by Hydroxycinnamates. Free Radical Biology and Medicine, 1998, 24, 594-606.	2.9	195
108	The role of superoxide and hydroxyl radicals in the degradation of hyaluronic acid induced by metal ions and by ascorbic acid. Journal of Inorganic Biochemistry, 1981, 14, 127-134.	3.5	190

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109	Use of desferrioxamine as a â€˜probeâ€™ for iron-dependent formation of hydroxyl radicals. Biochemical Pharmacology, 1985, 34, 229-233.	4.4	187
110	The Effects of Iron and Vitamin C Co-supplementation on Oxidative Damage to DNA in Healthy Volunteers. Biochemical and Biophysical Research Communications, 1998, 246, 293-298.	2.1	185
111	Free Radicals and Hearing: Cause, Consequence, and Criteria. Annals of the New York Academy of Sciences, 1999, 884, 19-40.	3.8	185
112	Antioxidant Activity of Vitamin C in Iron-overloaded Human Plasma. Journal of Biological Chemistry, 1997, 272, 15656-15660.	3.4	184
113	Ergothioneine â€“ a dietâ€derived antioxidant with therapeutic potential. FEBS Letters, 2018, 592, 3357-3366.	2.8	184
114	Hydrogen Peroxide in Human Urine: Implications for Antioxidant Defense and Redox Regulation. Biochemical and Biophysical Research Communications, 1999, 262, 605-609.	2.1	181
115	Does supplemental vitamin C increase cardiovascular disease risk in women with diabetes?. American Journal of Clinical Nutrition, 2004, 80, 1194-1200.	4.7	178
116	Phagocyte-derived reactive species: salvation or suicide?. Trends in Biochemical Sciences, 2006, 31, 509-515.	7.5	169
117	Using Isoprostanes as Biomarkers of Oxidative Stress: Some Rarely Considered Issues. Antioxidants and Redox Signaling, 2010, 13, 145-156.	5.4	168
118	F₄ â€•Isoprostanes as Specific Marker of Docosahexaenoic Acid Peroxidation in Alzheimer's Disease. Journal of Neurochemistry, 1999, 72, 734-740.	3.9	166
119	Superoxide dismutase activities of an iron porphyrin and other iron complexes. Journal of the American Chemical Society, 1979, 101, 1026-1031.	13.7	165
120	Biologically significant scavenging of the myeloperoxidase-derived oxidant hypochlorous acid by ascorbic acid. FEBS Letters, 1987, 213, 15-17.	2.8	165
121	Antioxidants: The Basics-what they are and how to Evaluate them. Advances in Pharmacology, 1996, 38, 3-20.	2.0	165
122	A Reassessment of the Peroxynitrite Scavenging Activity of Uric Acid. Annals of the New York Academy of Sciences, 2002, 962, 242-259.	3.8	161
123	Reactive oxygen species and silicaâ€induced carcinogenesis. Journal of Toxicology and Environmental Health - Part B: Critical Reviews, 1998, 1, 181-197.	6.5	160
124	Mini-Review: Oxidative stress, redox stress or redox success?. Biochemical and Biophysical Research Communications, 2018, 502, 183-186.	2.1	158
125	Protection Against Peroxynitrite-Dependent Tyrosine Nitration and Î±₁-Antiproteinase Inactivation by Ascorbic Acid. A Comparison with other Biological Antioxidants. Free Radical Research, 1996, 25, 275-283.	3.3	157
126	Hypochlorous Acid-Induced Base Modifications in Isolated Calf Thymus DNA. Chemical Research in Toxicology, 1997, 10, 1240-1246.	3.3	157

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127	Can oxidative DNA damage be used as a biomarker of cancer risk in humans? Problems, resolutions and preliminary results from nutritional supplementation studies. Free Radical Research, 1998, 29, 469-486.	3.3	157
128	Do polyphenols enter the brain and does it matter? Some theoretical and practical considerations. Genes and Nutrition, 2012, 7, 99-109.	2.5	156
129	Cell culture, oxidative stress, and antioxidants: Avoiding pitfalls. Biomedical Journal, 2014, 37, 99-105.	3.1	156
130	Vitamin C and genomic stability. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2001, 475, 29-35.	1.0	155
131	Effect of Wild-type or Mutant Parkin on Oxidative Damage, Nitric Oxide, Antioxidant Defenses, and the Proteasome. Journal of Biological Chemistry, 2002, 277, 28572-28577.	3.4	153
132	Effects of Hydrogen Peroxide on Wound Healing in Mice in Relation to Oxidative Damage. PLoS ONE, 2012, 7, e49215.	2.5	153
133	Base Modification and Strand Breakage in Isolated Calf Thymus DNA and in DNA from Human Skin Epidermal Keratinocytes Exposed to Peroxynitrite or 3-Morpholinosydnonimine. Chemical Research in Toxicology, 1996, 9, 1152-1158.	3.3	150
134	The scavenging of oxidants by sulphasalazine and its metabolites. Biochemical Pharmacology, 1987, 36, 3739-3742.	4.4	149
135	Cobalt(II) ion as a promoter of hydroxyl radical and possible â€˜crypto-hydroxylâ€™ radical formation under physiological conditions. Differential effects of hydroxyl radical scavengers. Biochimica Et Biophysica Acta - General Subjects, 1985, 843, 261-268.	2.4	148
136	Inhibition of peroxynitrite dependent DNA base modification and tyrosine nitration by the extra virgin olive oil-derived antioxidant hydroxytyrosol. Free Radical Biology and Medicine, 1999, 26, 762-769.	2.9	148
137	[4] Role of iron in oxygen radical reactions. Methods in Enzymology, 1984, 105, 47-56.	1.0	147
138	Evidence for a Trade-Off between Survival and Fitness Caused by Resveratrol Treatment of Caenorhabditis elegans. Annals of the New York Academy of Sciences, 2007, 1100, 530-542.	3.8	146
139	The iron-binding and hydroxyl radical scavenging action of anti-inflammatory drugs. Xenobiotica, 1988, 18, 459-470.	1.1	143
140	The mitochondrial free radical theory of ageing - Where do we stand?. Frontiers in Bioscience - Landmark, 2008, Volume, 6554.	3.0	143
141	Reaction of iron-EDTA chelates with the superoxide radical. Archives of Biochemistry and Biophysics, 1982, 218, 174-178.	3.0	142
142	Vitamin C: poison, prophylactic or panacea?. Trends in Biochemical Sciences, 1999, 24, 255-259.	7.5	141
143	The role of iron in ascorbate-dependent deoxyribose degradation. Evidence consistent with a site-specific hydroxyl radical generation caused by iron ions bound to the deoxyribose molecule. Journal of Inorganic Biochemistry, 1987, 29, 289-299.	3.5	140
144	Hydrogen Peroxide. Ubiquitous in Cell Culture and In vivo?. IUBMB Life, 2000, 50, 251-257.	3.4	138

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145	Measurement of oxidized and methylated DNA bases by HPLC with electrochemical detection. Biochemical Journal, 1996, 318, 21-23.	3.7	135
146	Biomarkers of oxidative damage in cigarette smokers: Which biomarkers might reflect acute versus chronic oxidative stress?. Free Radical Biology and Medicine, 2011, 50, 1787-1793.	2.9	135
147	Subcellular Localisation and Identification of Superoxide Dismutase in the Leaves of Higher Plants. FEBS Journal, 1978, 91, 339-344.	0.2	132
148	Human Skin Keloid Fibroblasts Display Bioenergetics of Cancer Cells. Journal of Investigative Dermatology, 2008, 128, 702-709.	0.7	132
149	Proteasomal inhibition causes the formation of protein aggregates containing a wide range of proteins, including nitrated proteins. Journal of Neurochemistry, 2003, 86, 363-373.	3.9	130
150	The mitochondria-targeted antioxidant MitoQ extends lifespan and improves healthspan of a transgenic Caenorhabditis elegans model of Alzheimer disease. Free Radical Biology and Medicine, 2014, 71, 390-401.	2.9	130
151	Effect of proteasome inhibition on cellular oxidative damage, antioxidant defences and nitric oxide production. Journal of Neurochemistry, 2001, 78, 32-41.	3.9	128
152	Instability of, and generation of hydrogen peroxide by, phenolic compounds in cell culture media. Archives of Biochemistry and Biophysics, 2010, 501, 162-169.	3.0	127
153	Neurochemical consequences of kainate-induced toxicity in brain: involvement of arachidonic acid release and prevention of toxicity by phospholipase A2 inhibitors. Brain Research Reviews, 2001, 38, 61-78.	9.0	126
154	Characterization of antioxidant and antiglycation properties and isolation of active ingredients from traditional chinese medicines. Free Radical Biology and Medicine, 2004, 36, 1575-1587.	2.9	126
155	The superoxide dismutase activity of iron complexes. FEBS Letters, 1975, 56, 34-38.	2.8	125
156	Doxorubicin-dependent lipid peroxidation at low partial pressures of O2. Journal of Free Radicals in Biology & Medicine, 1985, 1, 43-49.	2.1	125
157	Interaction of nitrogen dioxide with human plasma Antioxidant depletion and oxidative damage. FEBS Letters, 1992, 313, 62-66.	2.8	125
158	Effect of Hydroxytyrosol Found in Extra Virgin Olive Oil on Oxidative DNA Damage and on Low-Density Lipoprotein Oxidation. Journal of Agricultural and Food Chemistry, 1998, 46, 5181-5187.	5.2	125
159	Determination of low-molecular-mass antioxidant concentrations in human respiratory tract lining fluids. American Journal of Physiology - Lung Cellular and Molecular Physiology, 1999, 276, L289-L296.	2.9	123
160	DNA damage and cancer: Measurement and mechanism. Cancer Letters, 1995, 93, 113-120.	7.2	122
161	Evaluation of the Pro-Oxidant and Antioxidant Actions of L-DOPA and Dopamine in Vitro: Implications for Parkinson's Disease. Free Radical Research, 1996, 24, 95-105.	3.3	122
162	Analysis of free and protein-bound nitrotyrosine in human plasma by a gas chromatography/mass spectrometry method that avoids nitration artifacts. Biochemical Journal, 2000, 345, 453-458.	3.7	122

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163	Î±-lipoic acid decreases oxidative stress even in diabetic patients with poor glycemic control and albuminuria. Free Radical Biology and Medicine, 1999, 26, 1495-1500.	2.9	121
164	Consumption of flavonoids in onions and black tea: lack of effect on F2-isoprostanes and autoantibodies to oxidized LDL in healthy humans. American Journal of Clinical Nutrition, 2001, 73, 1040-1044.	4.7	121
165	Raised levels of F2-isoprostanes and prostaglandin F2alpha in different rheumatic diseases. Annals of the Rheumatic Diseases, 2001, 60, 627-631.	0.9	121
166	Invited Commentary:Superoxide, Iron, Vascular Endothelium and Reperfusion Injury. Free Radical Research Communications, 1989, 5, 315-318.	1.8	120
167	Effect of Concentration on the Cytotoxic Mechanism of Doxorubicinâ€"Apoptosis and Oxidative DNA Damage. Biochemical and Biophysical Research Communications, 1997, 230, 254-257.	2.1	120
168	Contribution of hydrogen peroxide to the cytotoxicity of green tea and red wines. Biochemical and Biophysical Research Communications, 2003, 304, 650-654.	2.1	120
169	A Mechanism of Sulfite Neurotoxicity. Journal of Biological Chemistry, 2004, 279, 43035-43045.	3.4	119
170	Antioxidant Action of Ergothioneine: Assessment of Its Ability to Scavenge Peroxynitrite. Biochemical and Biophysical Research Communications, 1997, 231, 389-391.	2.1	118
171	The cytotoxicity of dopamine may be an artefact of cell culture. Journal of Neurochemistry, 2002, 81, 414-421.	3.9	118
172	An attempt to demonstrate a reaction between superoxide and hydrogen peroxide. FEBS Letters, 1976, 72, 8-10.	2.8	115
173	Administration of Pure Ergothioneine to Healthy Human Subjects: Uptake, Metabolism, and Effects on Biomarkers of Oxidative Damage and Inflammation. Antioxidants and Redox Signaling, 2017, 26, 193-206.	5.4	114
174	Hydroxyl radical is a significant player in oxidative DNA damagein vivo. Chemical Society Reviews, 2021, 50, 8355-8360.	38.1	114
175	Characterization of food antioxidants, illustrated using commercial garlic and ginger preparations. Food Chemistry, 1997, 60, 149-156.	8.2	113
176	An Evaluation of the Antioxidant and Potential Pro-Oxidant Properties of Food Additives and the Trolox C., Vitamin E and Probucol. Free Radical Research Communications, 1990, 10, 143-157.	1.8	112
177	Oxygen free-radicals and lipid peroxidation: inhibition by the protein caeruloplasmin. FEBS Letters, 1980, 112, 269-272.	2.8	111
178	[16] Nitrotyrosine as biomarker for reactive nitrogen species. Methods in Enzymology, 1996, 269, 175-184.	1.0	109
179	The â€˜mitoflashâ€™ probe cpYFP does not respond to superoxide. Nature, 2014, 514, E12-E14.	27.8	109
180	Hypochlorous acid-mediated mitochondrial dysfunction and apoptosis in human hepatoma HepG2 and human fetal liver cells: role of mitochondrial permeability transition. Free Radical Biology and Medicine, 2005, 38, 1571-1584.	2.9	108

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181	Oxygen Free Radicals and Human Diseases. Journal of the Royal Society of Health, 1991, 111, 172-177.	0.2	107
182	Mitochondria-targeted antioxidants and metabolic modulators as pharmacological interventions to slow ageing. Biotechnology Advances, 2013, 31, 563-592.	11.7	107
183	Purification and properties of dehydroascorbate reductase from spinach leaves. Phytochemistry, 1977, 16, 1347-1350.	2.9	106
184	[6] Detection of hydroxyl radicals by aromatic hydroxylation. Methods in Enzymology, 1994, 233, 67-82.	1.0	106
185	Oxidative Damage to Proteins, Lipids, and DNA in Cortical Brain Regions from Patients with Dementia with Lewy Bodies. Journal of Neurochemistry, 1998, 71, 302-312.	3.9	106
186	Modification of bases in DNA by copper ion-1,10-phenanthroline complexes. Biochemistry, 1990, 29, 8447-8451.	2.5	105
187	Nitrite-induced deamination and hypochlorite-induced oxidation of DNA in intact human respiratory tract epithelial cells. Free Radical Biology and Medicine, 2000, 28, 1039-1050.	2.9	105
188	Effect of overexpression of Bcl-2 on cellular oxidative damage, nitric oxide production, antioxidant defenses, and the proteasome. Free Radical Biology and Medicine, 2001, 31, 1550-1559.	2.9	103
189	5â€Sâ€Cysteinylâ€conjugates of catecholamines induce cell damage, extensive DNA base modification and increases in caspaseâ€3 activity in neurons. Journal of Neurochemistry, 2002, 81, 122-129.	3.9	103
190	Deceptively simple but simply deceptive â€“ Caenorhabditis elegans lifespan studies: Considerations for aging and antioxidant effects. FEBS Letters, 2009, 583, 3377-3387.	2.8	100
191	Characterization of the potential antioxidant and pro-oxidant actions of some neuroleptic drugs. Biochemical Pharmacology, 1995, 49, 359-365.	4.4	99
192	Oxidative stress occurs during soybean nodule senescence. Planta, 1999, 208, 73-79.	3.2	99
193	Measurement of protein carbonyls in human brain tissue. Methods in Enzymology, 1999, 300, 145-156.	1.0	99
194	Hypothesis: Proteasomal Dysfunction. Annals of the New York Academy of Sciences, 2002, 962, 182-194.	3.8	99
195	F4-Isoprostanes: A Novel Class of Prostanoids Formed during Peroxidation of Docosahexaenoic Acid (DHA). Biochemical and Biophysical Research Communications, 1998, 242, 338-344.	2.1	98
196	Increased oxidative damage to all DNA bases in patients with type II diabetes mellitus. FEBS Letters, 1999, 448, 120-122.	2.8	98
197	A high-throughput and sensitive methodology for the quantification of urinary 8-hydroxy-2â€²-deoxyguanosine: measurement with gas chromatography-mass spectrometry after single solid-phase extraction. Biochemical Journal, 2004, 380, 541-548.	3.7	98
198	Artefacts in cell culture: Pyruvate as a scavenger of hydrogen peroxide generated by ascorbate or epigallocatechin gallate in cell culture media. Biochemical and Biophysical Research Communications, 2009, 388, 700-704.	2.1	98

#	Article	IF	Citations
199	Proteasomal dysfunction induced by 4-hydroxy-2,3-trans-nonenal, an end-product of lipid peroxidation: a mechanism contributing to neurodegeneration?. Journal of Neurochemistry, 2002, 83, 360-370.	3.9	97
200	Peroxynitrite mediates calciumâ€dependent mitochondrial dysfunction and cell death via activation of calpains. FASEB Journal, 2004, 18, 1395-1397.	0.5	97
201	Superoxide-dependent depletion of reduced glutathione by L-DOPA and dopamine. Relevance to ParkinsonÊ¼s disease. NeuroReport, 1995, 6, 1480-1484.	1.2	96
202	A novel approach to the identification and quantitative elemental analysis of amyloid depositsâ€"Insights into the pathology of Alzheimerâ€™s disease. Biochemical and Biophysical Research Communications, 2009, 382, 91-95.	2.1	96
203	The role of superoxide and hydroxyl radicals in the degradation of DNA and deoxyribose induced by a copperphenanthroline complex. Biochemical Pharmacology, 1982, 31, 2801-2805.	4.4	95
204	Tamoxifen and related compounds decrease membrane fluidity in liposomes. FEBS Letters, 1993, 330, 53-56.	2.8	95
205	Ergothioneine levels in an elderly population decrease with age and incidence of cognitive decline; a risk factor for neurodegeneration?. Biochemical and Biophysical Research Communications, 2016, 478, 162-167.	2.1	94
206	Evidence for the Formation of F3-Isoprostanes during Peroxidation of Eicosapentaenoic Acid. Biochemical and Biophysical Research Communications, 1997, 236, 467-472.	2.1	93
207	Proteasome inhibition by lactacystin in primary neuronal cells induces both potentially neuroprotective and pro-apoptotic transcriptional responses: a microarray analysis. Journal of Neurochemistry, 2005, 94, 943-956.	3.9	93
208	Formation of Hydroxyl Radicals in Biological Systems. Does Myoglobin Stimulate Hydroxyl Radical Formation from Hydrogen Peroxide?. Free Radical Research Communications, 1988, 4, 415-422.	1.8	92
209	Mechanism of clofibrate hepatotoxicity: mitochondrial damage and oxidative stress in hepatocytes. Free Radical Biology and Medicine, 2001, 31, 659-669.	2.9	92
210	Ageing in nematodes: do antioxidants extend lifespan in Caenorhabditis elegans?. Biogerontology, 2010, 11, 17-30.	3.9	92
211	Sulphite enhances peroxynitrite-dependent Î±1-antiproteinase inactivation. A mechanism of lung injury by sulphur dioxide?. FEBS Letters, 1998, 423, 231-234.	2.8	91
212	2,3-Dihydroxybenzoic acid is a product of human aspirin metabolism. Biochemical Pharmacology, 1988, 37, 271-280.	4.4	90
213	Haptoglobin reduces renal oxidative DNA and tissue damage during phenylhydrazine-induced hemolysis. Kidney International, 2000, 58, 1033-1044.	5.2	90
214	Lipid Peroxidation in Hyperlipidaemic Patients. A Study of Plasma using an HPLC-Based Thiobarbituric Acid Test. Free Radical Research Communications, 1993, 19, 51-57.	1.8	89
215	Measurement of oxidative DNA damage by gas chromatographyâ€"mass spectrometry: ethanethiol prevents artifactual generation of oxidized DNA bases. Biochemical Journal, 1998, 331, 365-369.	3.7	89
216	Ergothioneine, an adaptive antioxidant for the protection of injured tissues? A hypothesis. Biochemical and Biophysical Research Communications, 2016, 470, 245-250.	2.1	89

#	Article	IF	Citations
217	Are Whole Extracts and Purified Glucosinolates from Cruciferous Vegetables Antioxidants?. Free Radical Research, 1996, 25, 75-86.	3.3	88
218	Upregulation of the Anti-apoptotic Protein Bcl-2 May Be an Early Event in Neurodegeneration: Studies on Parkinson's and Incidental Lewy Body Disease. Biochemical and Biophysical Research Communications, 1997, 240, 84-87.	2.1	88
219	The iron chelator desferrioxamine inhibits atherosclerotic lesion development and decreases lesion iron concentrations in the cholesterol-fed rabbit. Free Radical Biology and Medicine, 2005, 38, 1206-1211.	2.9	88
220	Different Patterns of Oxidized Lipid Products in Plasma and Urine of Dengue Fever, Stroke, and Parkinson's Disease Patients: Cautions in the Use of Biomarkers of Oxidative Stress. Antioxidants and Redox Signaling, 2009, 11, 407-420.	5.4	88
221	Distribution and accumulation of dietary ergothioneine and its metabolites in mouse tissues. Scientific Reports, 2018, 8, 1601.	3.3	88
222	Superoxide-dependent formation of hydroxyl radicals from NADH and NADPH in the presence of iron salts. FEBS Letters, 1982, 142, 39-41.	2.8	85
223	Free radical scavenging and inhibition of lipid peroxidation by Î²-blockers and by agents that interfere with calcium metabolism. Biochemical Pharmacology, 1991, 42, 735-743.	4.4	85
224	Oxidative damage to plasma constituents by ozone. FEBS Letters, 1992, 298, 269-272.	2.8	85
225	Inhibition of Nitrous Acid-Dependent Tyrosine Nitration and DNA Base Deamination by Flavonoids and Other Phenolic Compounds. Chemical Research in Toxicology, 1998, 11, 1574-1579.	3.3	85
226	Zinc supplementation inhibits lipid peroxidation and the development of atherosclerosis in rabbits fed a high cholesterol diet. Free Radical Biology and Medicine, 2007, 42, 559-566.	2.9	85
227	Ergothioneine, recent developments. Redox Biology, 2021, 42, 101868.	9.0	85
228	Aromatic hydroxylation of phenylalanine as an assay for hydroxyl radicals: Application to activated human neutrophils and to the heme protein leghemoglobin. Analytical Biochemistry, 1988, 172, 360-367.	2.4	84
229	Inactivation of Î±1 -antiproteinase by hydroxyl radicals The effect of uric acid. FEBS Letters, 1989, 244, 76-80.	2.8	84
230	Establishing Biomarkers of Oxidative Stress: The Measurement of Hydrogen Peroxide in Human Urine. Current Medicinal Chemistry, 2004, 11, 1085-1092.	2.4	84
231	Human Fecal Water Inhibits COX-2 in Colonic HT-29 Cells: Role of Phenolic Compounds. Journal of Nutrition, 2005, 135, 2343-2349.	2.9	84
232	Reactive Oxygen Species: Radical Factors in the Evolution of Animal Life. BioEssays, 2018, 40, 1700158.	2.5	84
233	Biologically-significant scavenging of the myeloperoxidase-derived oxidant hypochlorous acid by some anti-inflammatory drugs. Biochemical Pharmacology, 1987, 36, 3847-3850.	4.4	83
234	Measurement of F2-isoprostanes, hydroxyeicosatetraenoic products, and oxysterols from a single plasma sample. Free Radical Biology and Medicine, 2008, 44, 1314-1322.	2.9	83

#	Article	IF	Citations
235	Oxidants, Antioxidants, and Respiratory Tract Lining Fluids. Environmental Health Perspectives, 1994, 102, 185.	6.0	82
236	Generation of hydrogen peroxide by â€œAntioxidantâ€•beverages and the effect of milk addition. Is cocoa the best beverage?. Free Radical Research, 1999, 31, 67-71.	3.3	82
237	Oxidative DNA Damage in Human Respiratory Tract Epithelial Cells. Time Course in Relation to DNA Strand Breakage. Biochemical and Biophysical Research Communications, 1996, 224, 17-22.	2.1	81
238	Reoxygenation injury and antioxidant protection: A tale of two paradoxes. Archives of Biochemistry and Biophysics, 1990, 283, 223-226.	3.0	80
239	Is uric acid protective or deleterious in acute ischemic stroke? A prospective cohort study. Atherosclerosis, 2010, 209, 215-219.	0.8	80
240	Superoxide and superoxide-dependent formation of hydroxyl radicals are important in oxygen toxicity. Trends in Biochemical Sciences, 1982, 7, 270-272.	7.5	79
241	Protection against peroxynitrite-dependent tyrosine nitration and Î± 1 -antiproteinase inactivation by oxidized and reduced lipoic acid. FEBS Letters, 1996, 379, 74-76.	2.8	79
242	Hydrogen Sulfide Is an Endogenous Regulator of Aging in Caenorhabditis elegans. Antioxidants and Redox Signaling, 2014, 20, 2621-2630.	5.4	79
243	Oxidation and Generation of Hydrogen Peroxide by Thiol Compounds in Commonly Used Cell Culture Media. Biochemical and Biophysical Research Communications, 2001, 286, 991-994.	2.1	77
244	Oxidation of formate by peroxisomes and mitochondria from spinach leaves. Biochemical Journal, 1974, 138, 77-85.	3.7	76
245	Mitochondrial Changes in Ageing Caenorhabditis elegans â€“ What Do We Learn from Superoxide Dismutase Knockouts?. PLoS ONE, 2011, 6, e19444.	2.5	76
246	Oxidative decarboxylation of glycollate and glyoxylate by leaf peroxisomes. Biochemical Journal, 1974, 138, 217-224.	3.1	75
247	Measurement of plasma F2-isoprostanes as an index of lipid peroxidation does not appear to be confounded by diet. Free Radical Research, 2000, 33, 115-127.	3.3	75
248	Potential Problems of Ascorbate and Iron Supplementation: Pro-Oxidant Effect in Vivo?. Biochemical and Biophysical Research Communications, 2000, 277, 535-540.	2.1	74
249	Effect of overexpression of wild-type and mutant Cu/Zn-superoxide dismutases on oxidative damage and antioxidant defences: relevance to Down's syndrome and familial amyotrophic lateral sclerosis. Journal of Neurochemistry, 2001, 76, 957-965.	3.9	74
250	Iron, Atherosclerosis, and Neurodegeneration: A Key Role for Cholesterol in Promoting Iron-Dependent Oxidative Damage?. Annals of the New York Academy of Sciences, 2004, 1012, 51-64.	3.8	74
251	Artefacts in cell culture: Î±-Ketoglutarate can scavenge hydrogen peroxide generated by ascorbate and epigallocatechin gallate in cell culture media. Biochemical and Biophysical Research Communications, 2011, 406, 20-24.	2.1	74
252	The antioxidant action of tamoxifen and its metabolites Inhibition of lipid peroxidation. FEBS Letters, 1990, 263, 192-194.	2.8	73

#	Article	IF	Citations
253	Peroxynitrite-Dependent Aromatic Hydroxylation and Nitration of Salicylate and Phenylalanine. Is Hydroxyl Radical Involved?. Free Radical Research, 1997, 26, 71-82.	3.3	73
254	Factors Affecting the Ascorbate- and Phenolic-dependent Generation of Hydrogen Peroxide in Dulbecco's Modified Eagles Medium. Free Radical Research, 2003, 37, 1123-1130.	3.3	73
255	Oral zinc supplementation does not improve oxidative stress or vascular function in patients with type 2 diabetes with normal zinc levels. Atherosclerosis, 2011, 219, 231-239.	0.8	73
256	Light activation of fructose bisphosphatase in isolated spinach chloroplasts and deactivation by hydrogen peroxide. Planta, 1981, 151, 242-246.	3.2	72
257	DNA damage in human respiratory tract epithelial cells: damage by gas phase cigarette smoke apparently involves attack by reactive nitrogen species in addition to oxygen radicals. FEBS Letters, 1995, 375, 179-182.	2.8	71
258	Prevention of Peroxynitrite-Dependent Tyrosine Nitration and Inactivation of Î±1-Antiproteinase by Antibiotics. Free Radical Research, 1997, 26, 49-56.	3.3	71
259	A Reevaluation of the Peroxynitrite Scavenging Activity of Some Dietary Phenolics. Biochemical and Biophysical Research Communications, 2000, 279, 692-699.	2.1	71
260	Effect of overexpression of wild-type and mutant Cu/Zn-superoxide dismutases on oxidative stress and cell death induced by hydrogen peroxide, 4-hydroxynonenal or serum deprivation: potentiation of injury by ALS-related mutant superoxide dismutases and pro. Journal of Neurochemistry, 2001, 78, 209-220.	3.9	71
261	A Metabolite Profiling Approach to Identify Biomarkers of Flavonoid Intake in Humans. Journal of Nutrition, 2009, 139, 2309-2314.	2.9	71
262	Evaluation of the ability of the angiotensin-converting enzyme inhibitor captopril to scavenge reactive oxygen species. Chemico-Biological Interactions, 1991, 77, 303-314.	4.0	70
263	Tomato Consumption Modulates Oxidative DNA Damage in Humans. Biochemical and Biophysical Research Communications, 1999, 262, 828-831.	2.1	70
264	The antioxidant activities of seasonings used in Asian cooking. Powerful antioxidant activity of dark soy sauce revealed using the ABTS assay. Free Radical Research, 2000, 32, 181-186.	3.3	70
265	Comments on review of free radicals in biology and medicine, second edition, by Barry Halliwell and John M.C. Gutteridge. Free Radical Biology and Medicine, 1992, 12, 93-94.	2.9	69
266	Correlation of iron and zinc levels with lesion depth in newly formed atherosclerotic lesions. Free Radical Biology and Medicine, 2003, 34, 746-752.	2.9	68
267	Oxidative Damage in Ischemic Stroke Revealed Using Multiple Biomarkers. Stroke, 2011, 42, 2326-2329.	2.0	68
268	Energy crisis precedes global metabolic failure in a novel Caenorhabditis elegans Alzheimer Disease model. Scientific Reports, 2016, 6, 33781.	3.3	68
269	Molecular mechanisms of damage by excess nitrogen oxides: Nitration of tyrosine by gas-phase cigarette smoke. FEBS Letters, 1994, 353, 53-56.	2.8	67
270	Rapid preparation of human urine and plasma samples for analysis of F2-isoprostanes by gas chromatography-mass spectrometry. Biochemical and Biophysical Research Communications, 2004, 320, 696-702.	2.1	67

#	Article	IF	Citations
271	Medicinal plants and antioxidants: What do we learn from cell culture and Caenorhabditis elegans studies?. Biochemical and Biophysical Research Communications, 2010, 394, 1-5.	2.1	67
272	Superoxide dismutase: a contaminant of bovine catalase (Short Communication). Biochemical Journal, 1973, 135, 379-381.	3.7	66
273	Free radicals and metal ions in health and disease. Proceedings of the Nutrition Society, 1987, 46, 13-26.	1.0	66
274	Thiourea and Dimethylthiourea Inhibit Peroxynitrite-Dependent Damage: Nonspecificity as Hydroxyl Radical Scavengers. Free Radical Biology and Medicine, 1997, 22, 1309-1312.	2.9	66
275	Evaluation of the postprandial effects of a fast-food meal on human plasma F2-isoprostane levels. Free Radical Biology and Medicine, 2000, 28, 806-814.	2.9	66
276	Increased formation of S-nitrothiols and nitrotyrosine in cirrhotic rats during endotoxemia. Free Radical Biology and Medicine, 2001, 31, 790-798.	2.9	66
277	Oxidative Damage and Motor Neurone Disease Difficulties in the Measurement of Protein Carbonyls in Human Brain Tissue. Free Radical Research, 1996, 24, 397-406.	3.3	65
278	Hypochlorous Acid-Induced DNA Base Modification: Potentiation by Nitrite: Biomarkers of DNA Damage by Reactive Oxygen Species. Biochemical and Biophysical Research Communications, 1999, 257, 572-576.	2.1	65
279	Toxic Effects of Sulphite in Combination with Peroxynitrite on Neuronal Cells. Journal of Neurochemistry, 2002, 71, 2431-2438.	3.9	64
280	Artefacts in HPLC Detection of 3â€Nitrotyrosine in Human Brain Tissue. Journal of Neurochemistry, 1998, 70, 2220-2223.	3.9	63
281	An Aromatic Hydroxylation Assay for Hydroxyl Radicals Utilizing High-Performance Liquid Chromatography (HPLC). Use to Investigate the Effect of Edta on the Fenton Reaction. Free Radical Research Communications, 1986, 1, 243-250.	1.8	62
282	Oxidative Damage to Human Plasma Proteins by Ozone. Free Radical Research Communications, 1992, 15, 347-352.	1.8	62
283	Metal Ion Release from Mechanically-Disrupted Human Arterial Wall. Implications for the Development of Atherosclerosis. Free Radical Research, 1995, 23, 465-469.	3.3	62
284	Analysis of free and protein-bound nitrotyrosine in human plasma by a gas chromatography/mass spectrometry method that avoids nitration artifacts. Biochemical Journal, 2000, 345, 453.	3.7	62
285	Lipid Peroxidation in Brain Homogenates: The Role of Iron and Hydroxyl Radicals. Journal of Neurochemistry, 2002, 69, 1330-1330.	3.9	62
286	Different cytotoxic and clastogenic effects of epigallocatechin gallate in various cell-culture media due to variable rates of its oxidation in the culture medium. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2007, 634, 177-183.	1.7	62
287	Mathematical Modeling of the Role of Mitochondrial Fusion and Fission in Mitochondrial DNA Maintenance. PLoS ONE, 2013, 8, e76230.	2.5	62
288	Coffee drinking increases levels of urinary hydrogen peroxide detected in healthy human volunteers. Free Radical Research, 2000, 32, 463-467.	3.3	61

#	Article	IF	Citations
289	The identification of antioxidants in dark soy sauce. Free Radical Research, 2007, 41, 479-488.	3.3	60
290	Oxidative damage in dengue fever. Free Radical Biology and Medicine, 2009, 47, 375-380.	2.9	60
291	Mechanism of hydrogen peroxide-induced keratinocyte migration in a scratch-wound model. Free Radical Biology and Medicine, 2011, 51, 884-892.	2.9	60
292	Effects of hydrogen peroxide in a keratinocyte-fibroblast co-culture model of wound healing. Biochemical and Biophysical Research Communications, 2012, 423, 253-258.	2.1	60
293	Context-Dependent Role of Mitochondrial Fusion-Fission in Clonal Expansion of mtDNA Mutations. PLoS Computational Biology, 2015, 11, e1004183.	3.2	60
294	Increase in Cholesterol and Cholesterol Oxidation Products, and Role of Cholesterol Oxidation Products in Kainateâ€induced Neuronal Injury. Brain Pathology, 2003, 13, 250-262.	4.1	59
295	The Association between Mushroom Consumption and Mild Cognitive Impairment: A Community-Based Cross-Sectional Study in Singapore. Journal of Alzheimer's Disease, 2019, 68, 197-203.	2.6	58
296	SUPEROXIDE AND PEROXIDASE-CATALYSED REACTIONS. OXIDATION OF DIHYDROXYFUMARATE, NADH AND DITHIOTHREITOL BY HORSERADISH PEROXIDASE*. Photochemistry and Photobiology, 1978, 28, 757-762.	2.5	57
297	Generation of hydroxyl radicals by soybean nodule leghaemoglobin. Planta, 1988, 173, 405-410.	3.2	57
298	Scavenging of hypochlorous acid by tetracycline, rifampicin and some other antibiotics: a possible antioxidant action of rifampicin and tetracycline?. Biochemical Pharmacology, 1988, 37, 775-778.	4.4	55
299	Metabolic stress is a primary pathogenic event in transgenic Caenorhabditis elegans expressing pan-neuronal human amyloid beta. ELife, 2019, 8, .	6.0	55
300	Acidosis-Induced Ischemic Brain Damage: Are Free Radicals Involved?. Journal of Cerebral Blood Flow and Metabolism, 1991, 11, 587-596.	4.3	54
301	Gender Differences in Steady-state Levels of Oxidative Damage to DNA in Healthy Individuals. Free Radical Research, 2002, 36, 157-162.	3.3	54
302	Allantoin in Human Plasma, Serum, and Nasal-Lining Fluids as a Biomarker of Oxidative Stress: Avoiding Artifacts and Establishing Realin vivoConcentrations. Antioxidants and Redox Signaling, 2009, 11, 1767-1776.	5.4	54
303	Inhibition of hypochlorous acid-induced cellular toxicity by nitrite. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 12061-12066.	7.1	53
304	Bleomycin-dependent damage to the bases in DNA is a minor side reaction. Biochemistry, 1991, 30, 2444-2448.	2.5	52
305	Hydrogen Peroxide. Ubiquitous in Cell Culture and In vivo?. IUBMB Life, 2000, 50, 251-257.	3.4	52
306	Role of haptoglobin in free hemoglobin metabolism. Redox Report, 2001, 6, 219-227.	4.5	52

#	Article	IF	Citations
307	Sulfite-mediated oxidative stress in kidney cells. Kidney International, 2004, 65, 393-402.	5.2	50
308	Cautions in the use of biomarkers of oxidative damage; the vascular and antioxidant effects of dark soy sauce in humans. Biochemical and Biophysical Research Communications, 2006, 344, 906-911.	2.1	50
309	The effect of dichloroacetate on health- and lifespan in C. elegans. Biogerontology, 2011, 12, 195-209.	3.9	50
310	Liver ergothioneine accumulation in a guinea pig model of non-alcoholic fatty liver disease. A possible mechanism of defence?. Free Radical Research, 2016, 50, 14-25.	3.3	50
311	Peroxyl Radical Scavenging by a Series of Coumarins. Free Radical Research Communications, 1992, 17, 293-298.	1.8	49
312	DNA strand breakage and base modification induced by hydrogen peroxide treatment of human respiratory tract epithelial cells. FEBS Letters, 1995, 374, 233-236.	2.8	49
313	ANTIOXIDANT ACTIONS OF FRUIT, HERB AND SPICE EXTRACTS. Journal of Food Lipids, 1996, 3, 171-188.	1.0	49
314	High Plasma Cyst(e)ine Level May Indicate Poor Clinical Outcome in Patients With Acute Stroke: Possible Involvement of Hydrogen Sulfide. Journal of Neuropathology and Experimental Neurology, 2006, 65, 109-115.	1.7	49
315	Scavenging of hydroxyl radicals but not of peroxynitrite by inhibitors and substrates of nitric oxide synthases. British Journal of Pharmacology, 1997, 122, 1702-1706.	5.4	48
316	Antioxidant Properties of S-Adenosyl-l-Methionine. Free Radical Biology and Medicine, 1997, 23, 1002-1008.	2.9	48
317	Stochastic Drift in Mitochondrial DNA Point Mutations: A Novel Perspective Ex Silico. PLoS Computational Biology, 2009, 5, e1000572.	3.2	47
318	Determination of oxidative DNA base damage by gas chromatography-mass spectrometry. Effect of derivatization conditions on artifactual formation of certain base oxidation products. Free Radical Research, 1998, 29, 321-330.	3.3	46
319	Antioxidants and cardiovascular disease; panaceas or tonics for tired sheep?. Cardiovascular Research, 2000, 47, 409.	3.8	46
320	The Action of Hydrogen Peroxide on the Formation of Thiobarbituric Acid-Reactive Material From Microsomes, Liposomes Or From Dna Damaged By Bleomycin Or Phenanthroline. Artefacts in the Thiobarbituric Acid Test. Free Radical Research Communications, 1990, 10, 245-258.	1.8	45
321	No Evidence for Increased Oxidative Damage to Lipids, Proteins, or DNA in Huntington's Disease. Journal of Neurochemistry, 2002, 75, 840-846.	3.9	45
322	Zinc supplementation decreases the development of atherosclerosis in rabbits. Free Radical Biology and Medicine, 2006, 41, 222-225.	2.9	45
323	Reflections of an aging free radical. Free Radical Biology and Medicine, 2020, 161, 234-245.	2.9	45
324	Could Ergothioneine Aid in the Treatment of Coronavirus Patients?. Antioxidants, 2020, 9, 595.	5.1	45

#	Article	IF	Citations
325	Hydroxylation of p-Coumaric Acid by Illuminated Chloroplasts. The Role of Superoxide. FEBS Journal, 1975, 55, 355-360.	0.2	44
326	8-Chloroadenine: a novel product formed from hypochlorous acid-induced damage to calf thymus DNA. Biomarkers, 1999, 4, 303-310.	1.9	44
327	Distribution of hydroxynonenal-modified proteins in the kainate-lesioned rat hippocampus: evidence that hydroxynonenal formation precedes neuronal cell death. Free Radical Biology and Medicine, 2000, 28, 1214-1221.	2.9	44
328	Effect of dietary quercetin on oxidative DNA damage in healthy human subjects. British Journal of Nutrition, 2000, 84, 919-925.	2.3	44
329	Vitamin C Protects Against Hypochlorous Acidâ€"Induced Glutathione Depletion and DNA Base and Protein Damage in Human Vascular Smooth Muscle Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2002, 22, 574-580.	2.4	44
330	Loss of oxidized and chlorinated bases in DNA treated with reactive oxygen species: implications for assessment of oxidative damage in vivo. Biochemical and Biophysical Research Communications, 2002, 296, 883-889.	2.1	44
331	Chronic high dose L-DOPA alone or in combination with the COMT inhibitor entacapone does not increase oxidative damage or impair the function of the nigro-striatal pathway in normal cynomologus monkeys. Journal of Neural Transmission, 2002, 109, 53-67.	2.8	44
332	A Flexiâ€PEGDA Upconversion Implant for Wireless Brain Photodynamic Therapy. Advanced Materials, 2020, 32, 2001459.	21.0	44
333	Changes in glutathione in the hippocampus of rats injected with kainate: depletion in neurons and upregulation in glia. Experimental Brain Research, 2000, 132, 510-516.	1.5	43
334	Effect of overexpression of wild-type or mutant parkin on the cellular response induced by toxic insults. Journal of Neuroscience Research, 2005, 82, 232-244.	2.9	43
335	The neuronal toxicity of sulfite plus peroxynitrite is enhancede by glutathione depletion: implications for Parkinsonâ€™s disease. Free Radical Biology and Medicine, 1999, 27, 515-520.	2.9	42
336	Thiols and disulphides can aggravate peroxynitrite-dependent inactivation of Î±1-antiproteinase. FEBS Letters, 1997, 414, 497-500.	2.8	41
337	DNA damage by nitrite and peroxynitrite: Protection by dietary phenols. Methods in Enzymology, 2001, 335, 296-307.	1.0	41
338	Differential effects of calcium-dependent and calcium-independent phospholipase A 2 inhibitors on kainate-induced neuronal injury in rat hippocampal slices. Free Radical Biology and Medicine, 2001, 30, 1263-1273.	2.9	40
339	Chronic exposure to U18666A is associated with oxidative stress in cultured murine cortical neurons. Journal of Neurochemistry, 2006, 98, 1278-1289.	3.9	40
340	Effects of Lithium on Age-related Decline in Mitochondrial Turnover and Function in Caenorhabditis elegans. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2014, 69, 810-820.	3.6	40
341	Caenorhabditis elegans: What We Can and Cannot Learn from Aging Worms. Antioxidants and Redox Signaling, 2015, 23, 256-279.	5.4	40
342	Purification and properties of glutathione synthetase from spinach (Spinacia oleracea) leaves. Plant Science, 1986, 43, 185-191.	3.6	39

#	Article	IF	Citations
343	Knockout of a putative ergothioneine transporter inCaenorhabditis elegansdecreases lifespan and increases susceptibility to oxidative damage. Free Radical Research, 2013, 47, 1036-1045.	3.3	39
344	The superoxide dismutase activity of various photosynthetic organisms measured by a new and rapid assay technique. FEBS Letters, 1976, 66, 303-306.	2.8	38
345	Action of Uric Acid, Allopurinol and Oxypurinol on the Myeloperoxidase-Derived Oxidant Hypochlorous Acid. Free Radical Research Communications, 1987, 4, 69-76.	1.8	38
346	6-Hydroxydopamine increases hydroxyl free radical production and DNA damage in rat striatum. NeuroReport, 2001, 12, 1155-1159.	1.2	38
347	Nitrite-mediated protection against hypochlorous acid-induced chondrocyte toxicity: A novel cytoprotective role of nitric oxide in the inflamed joint?. Arthritis and Rheumatism, 2003, 48, 3140-3150.	6.7	38
348	Do Mitochondria make Nitric Oxide? No?. Free Radical Research, 2004, 38, 591-599.	3.3	38
349	Oxidative Damage in Mitochondrial DNA Is Not Extensive. Annals of the New York Academy of Sciences, 2005, 1042, 210-220.	3.8	38
350	Lack of effect of acute oral ingestion of vitamin C on oxidative stress, arterial stiffness or blood pressure in healthy subjects. Free Radical Research, 2008, 42, 514-522.	3.3	38
351	Does Influenza A Infection Increase Oxidative Damage?. Antioxidants and Redox Signaling, 2014, 21, 1025-1031.	5.4	38
352	Non-Caeruloplasmin Copper and Ferroxidase Activity in Mammalian Serum. Ferroxidase Activity and Phenanthroline-Detectable Copper in Human Serum in Wilson's Disease. Free Radical Research Communications, 1989, 7, 55-62.	1.8	37
353	Apparent inactivation of Î±1-antiroteinase by sulphur-containing radicals derived from penicillamine. Biochemical Pharmacology, 1989, 38, 4353-4357.	4.4	37
354	Impaired clearance of oxidised proteins in neurodegenerative diseases. Lancet, The, 1998, 351, 1510.	13.7	37
355	Mitochondrial damage by the â€œpro-oxidantâ€•peroxisomal proliferator clofibrate. Free Radical Biology and Medicine, 1999, 27, 1095-1102.	2.9	37
356	Polyphenols: antioxidant treats for healthy living or covert toxins?. Journal of the Science of Food and Agriculture, 2006, 86, 1992-1995.	3.5	37
357	Interference with ubiquitination causes oxidative damage and increased protein nitration: implications for neurodegenerative diseases. Journal of Neurochemistry, 2004, 90, 422-430.	3.9	36
358	Proteasomal Dysfunction: A Common Feature of Neurodegenerative Diseases? Implications for the Environmental Origins of Neurodegeneration. Antioxidants and Redox Signaling, 2006, 8, 2007-2019.	5.4	36
359	Nephrotoxic cell death by diclofenac and meloxicam. Biochemical and Biophysical Research Communications, 2008, 369, 873-877.	2.1	36
360	Acute effects of cigarette smoking on insulin resistance and arterial stiffness in young adults. Atherosclerosis, 2012, 224, 195-200.	0.8	36

#	Article	IF	Citations
361	Assessment of diets containing curcumin, epigallocatechin-3-gallate, docosahexaenoic acid and Î±-lipoic acid on amyloid load and inflammation in a male transgenic mouse model of Alzheimer's disease: Are combinations more effective?. Neurobiology of Disease, 2019, 124, 505-519.	4.4	36
362	Carcinogenic antioxidants. FEBS Letters, 1993, 332, 159-163.	2.8	35
363	Loss of 3-Nitrotyrosine on Exposure to Hypochlorous Acid: Implications for the Use of 3-Nitrotyrosine as a Bio-markerin Vivo. Biochemical and Biophysical Research Communications, 1999, 258, 168-172.	2.1	35
364	6-Hydroxydopamine increases the hydroxylation and nitration of phenylalaninein vivo: implication of peroxynitrite formation. Journal of Neurochemistry, 2001, 78, 509-514.	3.9	35
365	Sulphite oxidase gene expression in human brain and in other human and rat tissues. Biochemical and Biophysical Research Communications, 2003, 305, 619-623.	2.1	35
366	Lack of Tyrosine Nitration by Hypochlorous Acid in the Presence of Physiological Concentrations of Nitrite. Journal of Biological Chemistry, 2003, 278, 8380-8384.	3.4	35
367	Oral inflammation and reactive species: a missed opportunity?. Oral Diseases, 2000, 6, 136-137.	3.0	35
368	Effect of Ergothioneine on 7-Ketocholesterol-Induced Endothelial Injury. NeuroMolecular Medicine, 2021, 23, 184-198.	3.4	35
369	Formation of hydroxyl radicals from NADH and NADPH in the presence of copper salts. Journal of Inorganic Biochemistry, 1985, 23, 103-108.	3.5	34
370	Oxidative damage to lipids and Î±1-antiproteinase by phenylbutazone in the presence of haem proteins: protection by ascorbic acid. Biochemical Pharmacology, 1992, 44, 981-984.	4.4	33
371	Redox regulation of wound healing? NF-Îºb activation in cultured human keratinocytes upon wounding and the effect of low energy HeNe irradiation. Free Radical Biology and Medicine, 1998, 25, 998-1005.	2.9	33
372	CATALYTIC METAL IONS AND THE LOSS OF REDUCED GLUTATHIONE FROM UNIVERSITY oF WISCONSIN PRESERVATION SOLUTION. Transplantation, 1996, 62, 1046-1049.	1.0	33
373	Antioxidant and prooxidant abilities of foods and beverages. Methods in Enzymology, 2001, 335, 181-190.	1.0	32
374	Action of diclofenac on kidney mitochondria and cells. Biochemical and Biophysical Research Communications, 2006, 348, 494-500.	2.1	32
375	High fat diets and pathology in the guinea pig. Atherosclerosis or liver damage?. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2013, 1832, 355-364.	3.8	32
376	Clonal expansion of mitochondrial DNA deletions is a private mechanism of aging in longâ€lived animals. Aging Cell, 2018, 17, e12814.	6.7	32
377	Effects of Antimalarial Drugs on Neuroinflammation-Potential Use for Treatment of COVID-19-Related Neurologic Complications. Molecular Neurobiology, 2021, 58, 106-117.	4.0	32
378	Low plasma ergothioneine levels are associated with neurodegeneration and cerebrovascular disease in dementia. Free Radical Biology and Medicine, 2021, 177, 201-211.	2.9	32

#	Article	IF	Citations
379	Do Human Atherosclerotic Lesions Contain Nitrotyrosine?. Biochemical and Biophysical Research Communications, 1996, 226, 346-351.	2.1	31
380	Adult Respiratory Distress Syndrome: A Radical Perspective. Advances in Pharmacology, 1996, 38, 457-490.	2.0	31
381	A super way to kill cancer cells?. Nature Medicine, 2000, 6, 1105-1106.	30.7	31
382	Iron Supplementation and Oxidative Damage to DNA in Healthy Individuals with High Plasma Ascorbate. Biochemical and Biophysical Research Communications, 2001, 288, 245-251.	2.1	31
383	Health benefits of eating chocolate?. Nature, 2003, 426, 787-787.	27.8	31
384	Markers of Oxidative Damage Are Not Elevated in Otherwise Healthy Individuals With the Metabolic Syndrome. Diabetes Care, 2010, 33, 1140-1142.	8.6	31
385	Does High-Dose Coenzyme Q₁₀ Improve Oxidative Damage and Clinical Outcomes in Parkinson's Disease?. Antioxidants and Redox Signaling, 2014, 21, 211-217.	5.4	31
386	Inhibition of amyloidâ€induced toxicity by ergothioneine in a transgenic Caenorhabditis elegans model. FEBS Letters, 2019, 593, 2139-2150.	2.8	31
387	Ascorbic Acid and the Illuminated Chloroplast. Advances in Chemistry Series, 1982, , 263-274.	0.6	30
388	Scavenging of Hypochlorous Acid and the Myoglobin-Derived Oxidants By of Cardioprotective Agent Mercaptopropionylglycine. Free Radical Research Communications, 1990, 10, 371-381.	1.8	29
389	Tamoxifen inhibits lipid peroxidation in cardiac microsomes. Biochemical Pharmacology, 1993, 45, 1851-1855.	4.4	29
390	Formation and Loss of Nitrated Proteins in Peroxynitrite-Treated Rat Skin in Vivo. Biochemical and Biophysical Research Communications, 1999, 262, 781-786.	2.1	29
391	The steady-state levels of oxidative DNA damage and of lipid peroxidation (F2-isoprostanes) are not correlated in healthy human subjects. Free Radical Research, 2000, 32, 355-362.	3.3	29
392	Lactacystin-induced apoptosis of cultured mouse cortical neurons is associated with accumulation of PTEN in the detergent-resistant membrane fraction. Cellular and Molecular Life Sciences, 2004, 61, 1926-1934.	5.4	29
393	Is mitochondrial DNA turnover slower than commonly assumed?. Biogerontology, 2012, 13, 557-564.	3.9	29
394	Functional Significance of Inducible Nitric Oxide Synthase Induction and Protein Nitration in the Thermally Injured Cutaneous Microvasculature. American Journal of Pathology, 2003, 162, 1373-1380.	3.8	27
395	Potential artifacts in the measurement of DNA deamination. Free Radical Biology and Medicine, 2006, 40, 1939-1948.	2.9	27
396	Cigarette Smoking and Health: A Radical View. Journal of the Royal Society of Health, 1993, 113, 91-96.	0.2	26

#	Article	IF	Citations
397	Caloric restriction prevents oxidative damage induced by the carcinogen clofibrate in mouse liver. FEBS Letters, 2000, 473, 85-88.	2.8	26
398	The effects of oxaloacetate on hydrogen peroxide generation from ascorbate and epigallocatechin gallate in cell culture media: Potential for altering cell metabolism. Biochemical and Biophysical Research Communications, 2012, 417, 446-450.	2.1	26
399	Specificity of the ergothioneine transporter natively expressed in HeLa cells. Biochemical and Biophysical Research Communications, 2019, 513, 22-27.	2.1	26
400	Promotion of oxidative damage to arachidonic acid and Î±1-antiproteinase by anti-inflammatory drugs in the presence of the haem proteins myoglobin and cytochrome C. Biochemical Pharmacology, 1994, 48, 2173-2179.	4.4	25
401	The antioxidant action of ketoconazole and related azoles: Comparison with tamoxifen and cholesterol. Chemico-Biological Interactions, 1991, 79, 229-243.	4.0	24
402	Inhibition of hypochlorous acid-induced oxidative reactions by nitrite: is nitrite an antioxidant?. Biochemical and Biophysical Research Communications, 2003, 303, 1217-1224.	2.1	24
403	Does iron inhibit calcification during atherosclerosis?. Free Radical Biology and Medicine, 2012, 53, 1675-1679.	2.9	24
404	Oxidative DNA damage in peripheral leukocytes and its association with expression and polymorphisms of hOGG1: A study of adolescents in a high risk region for hepatocellular carcinoma in China. World Journal of Gastroenterology, 2003, 9, 2186.	3.3	24
405	[35] Assessment of peroxynitrite scavengers in Vitro. Methods in Enzymology, 1999, 301, 333-342.	1.0	23
406	Repression of the mitochondrial peroxiredoxin antioxidant system does not shorten life span but causes reduced fitness in Caenorhabditis elegans. Free Radical Biology and Medicine, 2013, 63, 381-389.	2.9	23
407	Lifespan and healthspan benefits of exogenous H2S in C. elegans are independent from effects downstream of eat-2 mutation. Npj Aging and Mechanisms of Disease, 2020, 6, 6.	4.5	23
408	Metal Ions Catalytic for Free Radical Reactions in the Plasma of Patients with Fulminant Hepatic Failure. Free Radical Research, 1994, 20, 139-144.	3.3	22
409	Modulation of peroxynitrite- and hypochlorous acid-induced inactivation of Î±1 -antiproteinase by mercaptoethylguanidine. British Journal of Pharmacology, 1999, 126, 1646-1652.	5.4	22
410	[36] Gas chromatography-mass spectrometry analysis of DNA: Optimization of protocols for isolation and analysis of DNA from human blood. Methods in Enzymology, 2000, 319, 401-417.	1.0	21
411	The phospholipase A 2 inhibitor quinacrine prevents increased immunoreactivity to cytoplasmic phospholipase A 2 (cPLA 2) and hydroxynonenal (HNE) in neurons of the lateral septum following fimbria-fornix transection. Experimental Brain Research, 2001, 138, 500-508.	1.5	21
412	Elevated oxidative stress, iron accumulation around microvessels and increased 4-hydroxynonenal immunostaining in zone 1 of the liver acinus in hypercholesterolemic rabbits. Free Radical Research, 2009, 43, 241-249.	3.3	21
413	Sustained expression of heme oxygenase-1 alters iron homeostasis in nonerythroid cells. Free Radical Biology and Medicine, 2012, 53, 366-374.	2.9	21
414	Droloxifene (3-hydroxytamoxifen) has membrane antioxidant ability: potential relevance to its mechanism of therapeutic action in breast cancer. Cancer Letters, 1992, 66, 61-68.	7.2	20

#	Article	IF	Citations
415	Protein nitration in cutaneous inflammation in the rat: essential role of inducible nitric oxide synthase and polymorphonuclear leukocytes. British Journal of Pharmacology, 2002, 136, 985-994.	5.4	20
416	Mechanism of cell death induced by an antioxidant extract of Cratoxylum cochinchinense (YCT) in Jurkat T cells: the role of reactive oxygen species and calcium. Free Radical Biology and Medicine, 2004, 36, 1588-1611.	2.9	20
417	Limited antioxidant effect after consumption of a single dose of tomato sauce by young males, despite a rise in plasma lycopene. Free Radical Research, 2009, 43, 622-628.	3.3	20
418	Comment on Hydroxytyrosol Induces Proliferation and Cytoprotection against Oxidative Injury in Vascular Endothelial Cells: Role of Nrf2 Activation and HO-1 Induction. Journal of Agricultural and Food Chemistry, 2011, 59, 10770-10771.	5.2	20
419	Oxidation of 2-nitropropane by horseradish peroxidase. Involvement of hydrogen peroxide and of superoxide in the reaction mechanism. Biochemical Journal, 1978, 175, 601-606.	3.7	19
420	The role of calcium ions and the thioredoxin system in regulation of spinach chloroplast fructosebisphosphatase. Cell Calcium, 1981, 2, 211-224.	2.4	19
421	Deciphering the mechanism of HNE-induced apoptosis in cultured murine cortical neurons: Transcriptional responses and cellular pathways. Neuropharmacology, 2007, 53, 687-698.	4.1	19
422	Elevated F2-isoprostanes in thalassemic patients. Free Radical Biology and Medicine, 2007, 43, 1649-1655.	2.9	19
423	A high-fat and cholesterol diet causes fatty liver in guinea pigs. The role of iron and oxidative damage. Free Radical Research, 2013, 47, 602-613.	3.3	19
424	The proteobacterial species Burkholderia pseudomallei produces ergothioneine, which enhances virulence in mammalian infection. FASEB Journal, 2018, 32, 6395-6409.	0.5	19
425	Role of Direct Repeat and Stem-Loop Motifs in mtDNA Deletions: Cause or Coincidence?. PLoS ONE, 2012, 7, e35271.	2.5	19
426	The Role of Formate in Photorespiration. Biochemical Society Transactions, 1973, 1, 1147-1150.	3.4	18
427	Commentary Reaction of Plant-Derived and Synthetic Antioxidants with Trichloromethylperoxyl Radicals. Free Radical Research, 1995, 22, 187-190.	3.3	18
428	Increased iron staining in the cerebral cortex of cholesterol fed rabbits. Mechanisms of Ageing and Development, 2004, 125, 305-313.	4.6	18
429	Mitochondrial DNA Damage Does Not Determine C. elegans Lifespan. Frontiers in Genetics, 2019, 10, 311.	2.3	18
430	Flavonoids: a Reâ€Run of the Carotenoids Story?. Novartis Foundation Symposium, 2007, 282, 93-104.	1.1	18
431	Oxidation of Dimethylsulphoxide to Formaldehyde by Oxyhaemoglobin and Oxyleghaemoglobin in the Presence of Hydrogen Peroxide is Not Mediated by â€œFreeâ€•Hydroxyl Radicals. Free Radical Research Communications, 1989, 5, 277-281.	1.8	17
432	Psoralea corylifolia L. Inhibits Mitochondrial Complex I and Proteasome Activities in SH-SY5Y Cells. Annals of the New York Academy of Sciences, 2007, 1100, 486-496.	3.8	17

#	Article	IF	Citations
433	Metabolic signatures of renal cell carcinoma. Biochemical and Biophysical Research Communications, 2015, 460, 938-943.	2.1	16
434	Effects of desferrioxamine on eicosanoid production in two intact cell systems. Biochemical Pharmacology, 1989, 38, 189-193.	4.4	15
435	Oxidative damage by ozone and nitrogen dioxide: synergistic toxicity in vivo but no evidence of synergistic oxidative damage in an extracellular fluid. Biochemical Society Symposia, 1995, 61, 139-152.	2.7	15
436	Promotion of atherogenesis by copper or ironâ€"Which is more likely?. Biochemical and Biophysical Research Communications, 2007, 353, 6-10.	2.1	15
437	Notopterygium forbesii Boiss Extract and Its Active Constituents Increase Reactive Species and Heme Oxygenase-1 in Human Fetal Hepatocytes: Mechanisms of Action. Chemical Research in Toxicology, 2008, 21, 2414-2423.	3.3	15
438	Notopterygium forbesii Boiss Extract and Its Active Constituent Phenethyl Ferulate Attenuate Pro-Inflammatory Responses to Lipopolysaccharide in RAW 264.7 Macrophages. A â€œProtectiveâ€•Role for Oxidative Stress?. Chemical Research in Toxicology, 2009, 22, 1473-1482.	3.3	15
439	Identification of a previously undetected metabolic defect in the Complex II Caenorhabditis elegans mev-1 mutant strain using respiratory control analysis. Biogerontology, 2017, 18, 189-200.	3.9	14
440	Generation of the superoxide radical during the peroxidatic oxidation of NADH by catalase at acid pH values. FEBS Letters, 1977, 80, 291-293.	2.8	13
441	Approaches for extending human healthspan: from antioxidants to healthspan pharmacology. Essays in Biochemistry, 2017, 61, 389-399.	4.7	13
442	Mechanism of low-density lipoprotein oxidation. Current Opinion in Lipidology, 1993, 4, 382-384.	2.7	12
443	Quantitative gas chromatography mass spectrometric analysis of 2â€²-deoxyinosine in tissue DNA. Nature Protocols, 2006, 1, 1995-2002.	12.0	12
444	Does radiotherapy increase oxidative stress? A study with nasopharyngeal cancer patients revealing anomalies in isoprostanes measurements. Free Radical Research, 2010, 44, 1064-1071.	3.3	12
445	Variability in APOE genotype status in human-derived cell lines: a cause for concern in cell culture studies?. Genes and Nutrition, 2014, 9, 364.	2.5	12
446	Artefacts with ascorbate and other redox-active compounds in cell culture: epigenetic modifications, and cell killing due to hydrogen peroxide generation in cell culture media. Free Radical Research, 2018, 52, 907-909.	3.3	12
447	The use of phenylalanine to detect hydroxyl radical production in vivo: a cautionary note. Free Radical Biology and Medicine, 1999, 27, 1465.	2.9	11
448	A novel vibration-induced exercise paradigm improves fitness and lipid metabolism of Caenorhabditis elegans. Scientific Reports, 2018, 8, 9420.	3.3	11
449	Oxidation of Thiol Compounds by Catalase and Peroxidase in the Presence of Manganese(II) and Phenols. Biochemical Society Transactions, 1978, 6, 1343-1345.	3.4	10
450	Tamoxifen and related compounds protect against lipid peroxidation in isolated nuclei: Relevance to the potential anticarcinogenic benefits of breast cancer prevention and therapy with tamoxifen?. Free Radical Biology and Medicine, 1994, 17, 485-488.	2.9	10

#	Article	IF	Citations
451	[43] Plasma protein sulfhydryl oxidation: Effect of lowmolecular weight thiols. Methods in Enzymology, 1995, 251, 448-455.	1.0	9
452	Food-Derived Antioxidants. , 2001, , .		9
453	Augmentation of 5-lipoxygenase activity and expression during dengue serotype-2 infection. Virology Journal, 2013, 10, 322.	3.4	9
454	Biomarkers of oxidative damage are elevated among individuals with high cardiovascular risk: Refining subject selection strategies for antioxidant trials. Free Radical Research, 2013, 47, 283-290.	3.3	9
455	Ergothioneine, where are we now?. FEBS Letters, 2022, 596, 1227-1230.	2.8	9
456	Switches in enzymes. Nature, 1991, 354, 191-192.	27.8	8
457	[48] Analysis of aromatic nitration, chlorination, and hydroxylation by gas chromatography-mass spectrometry. Methods in Enzymology, 1999, 301, 471-483.	1.0	8
458	More antioxidants in sepsis: Still paved with uncertainties*. Critical Care Medicine, 2006, 34, 569-571.	0.9	7
459	Are mutagenic non D-loop direct repeat motifs in mitochondrial DNA under a negative selection pressure?. Nucleic Acids Research, 2015, 43, 4098-4108.	14.5	7
460	Does Lactobacillus reuteri influence ergothioneine levels in the human body?. FEBS Letters, 2022, 596, 1241-1251.	2.8	7
461	Effect of the hydrophilic Î±-tocopherol analog MDL 74,405 on detection of hydroxyl radicals in stunned myocardium in dogs. American Heart Journal, 1995, 130, 940-948.	2.7	6
462	Nuclear microscopy measurement of copper in atherosclerosis â€“ Sensitivity and limitations to spatial resolution. Nuclear Instruments & Methods in Physics Research B, 2007, 260, 136-140.	1.4	6
463	Nuclear microprobe investigation into the trace elemental contents of carotid artery walls of apolipoprotein E deficient mice. Nuclear Instruments & Methods in Physics Research B, 2007, 260, 240-244.	1.4	6
464	Model Compounds with Superoxide Dismutase Activity: Iron Porphyrins and other Iron Complexes. Biochemical Society Transactions, 1978, 6, 1342-1343.	3.4	5
465	Lipid peroxidation in the postnatal rat brain. Experimental Brain Research, 2001, 137, 205-213.	1.5	5
466	Free Radical Chemistry as Related to Degradative Mechanisms. ACS Symposium Series, 2003, , 10-15.	0.5	5
467	How I Became a Biochemist. IUBMB Life, 2004, 56, 569-570.	3.4	5
468	Nuclear Microscopy: A Novel Technique for Quantitative Imaging of Gadolinium Distribution within Tissue Sections. Microscopy and Microanalysis, 2009, 15, 338-344.	0.4	5

#	Article	IF	Citations
469	Antioxidant benefits of tamoxifen therapy for breast cancer?. Breast Cancer Research and Treatment, 1994, 29, 307-307.	2.5	4
470	[21] Evaluation of biomolecular damage by ozone. Methods in Enzymology, 1994, 234, 252-256.	1.0	4
471	Modification of aromatic amino acids by reactive nitrogen species. Biochemical Society Transactions, 1995, 23, 237S-237S.	3.4	4
472	Evaluation of the Antioxidant and Antiviral Actions of Herbal Preparations: Rovital and Carciverin V (C1983). Phytotherapy Research, 1996, 10, 152-155.	5.8	4
473	Nuclear microscopy of diffuse plaques in the brains of transgenic mice. Nuclear Instruments & Methods in Physics Research B, 2005, 231, 326-332.	1.4	4
474	Free Radical Reactions in Human Disease. , 2001, , .		4
475	Production of the Superoxide Radical by Horseradish Peroxidase. Biochemical Society Transactions, 1976, 4, 73-74.	3.4	3
476	Effect of oxidized glutathione on the inhibition of glucose-6-phosphate dehydrogenase by NADPH. Biochemical Journal, 1986, 234, 741-741.	3.7	3
477	On the reaction of plant ferredoxins with hydrogen peroxide. What reactive oxidants are generated?. Phytochemistry, 1989, 28, 3265-3270.	2.9	3
478	The Antioxidant Vitamins C and E: Packer L, Traber MG, Kramer K and Frei B. (Eds) AOCS Press, Champaign, Illinois, 2002. Free Radical Research, 2003, 37, 1146-1146.	3.3	3
479	Caenorhabditis elegans Life Span Studies: The Challenge of Maintaining Synchronous Cohorts. Rejuvenation Research, 2010, 13, 347-349.	1.8	3
480	Vitamin E and thetreatment and prevention of diabetes: a case for a controlled clinical trial. Singapore Medical Journal, 2002, 43, 479-84.	0.6	3
481	Commentary for â€œOxygen free radicals and iron in relation to biology and medicine: Some problems and conceptsâ€• Archives of Biochemistry and Biophysics, 2022, 718, 109151.	3.0	3
482	Interactions of diesel engine emissions with extracellular biological fluids. Biochemical Society Transactions, 1995, 23, 238S-238S.	3.4	2
483	Methods in Biological Oxidative Stress: K. Hensley and R.A. Floyd (Eds), 2003. Humana Press, New Jersey. Free Radical Research, 2003, 37, 1145-1145.	3.3	2
484	Maximizing signal-to-noise ratio in the random mutation capture assay. Nucleic Acids Research, 2012, 40, e35-e35.	14.5	2
485	An interview with Barry Halliwell. Trends in Pharmacological Sciences, 2013, 34, 301-302.	8.7	2
486	Photodynamic Therapy: A Flexiâ€PEGDA Upconversion Implant for Wireless Brain Photodynamic Therapy (Adv. Mater. 29/2020). Advanced Materials, 2020, 32, 2070219.	21.0	2

#	Article	IF	Citations
487	On 'Oxygen free radicals and iron in relation to biology and medicine: Some problems and concepts' by Barry Halliwell and John M.C.Gutteridge. Archives of Biochemistry and Biophysics, 2022, , 109320.	3.0	2
488	Making Sense of Neurodegeneration: A Unifying Hypothesis. , 2019, , 115-120.		1
489	Celebrating the 60th birthday of BBRC. Biochemical and Biophysical Research Communications, 2019, 520, 677-678.	2.1	1
490	Commentary on â€œAscorbate kills breast cancer cells by rewiring metabolism via redox imbalance and energy crisisâ€•by Ghanem et al. [Free Radic. Biol. Med. 163 (2021) 196â€“209]. Free Radical Biology and Medicine, 2021, 171, 124-125.	2.9	1
491	First Asia Pacific Conference and Exhibition on Anti-Ageing Medicine 2002: From Molecular Mechanisms to Therapies, June 23-26, 2002, Raffles City Convention Centre, Singapore. Free Radical Research, 2002, 36, 1291-1291.	3.3	0
492	Editorial Year-end Note. Free Radical Research, 2008, 42, 911-912.	3.3	0
493	The National University of Singapore and what it does. Biointerphases, 2010, 5, FA15-FA18.	1.6	0
494	Thermodynamic analysis of DNA hybridization signatures near mitochondrial DNA deletion breakpoints. IScience, 2021, 24, 102138.	4.1	0
495	Chair's Introduction. Novartis Foundation Symposium, 0, , 1-2.	1.1	0
496	APPLICATION OF NEW ASSAYS FOR MEASURING FREE RADICAL PRODUCTION TO HUMAN RHEUMATOID PATIENTS. , 1991, , 846-855.		0
497	The Proteasome: Source and a Target of Oxidative Stress?. , 2006, , 85-103.		0
498	Association of ergothioneine with neurodegeneration and cerebrovascular disease in cognitive impairment and dementia. Alzheimer's and Dementia, 2021, 17, .	0.8	0
499	Reflections of an Ageing Free Radical Part 2: Meeting Inspirational People. Antioxidants and Redox Signaling, 0, , .	5.4	0