

Barry Halliwell

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4100532/barry-halliwell-publications-by-citations.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

492
papers

81,310
citations

131
h-index

276
g-index

518
ext. papers

86,560
ext. citations

6
avg, IF

8.63
L-index

#	Paper	IF	Citations
492	Role of free radicals and catalytic metal ions in human disease: an overview. <i>Methods in Enzymology</i> , 1990 , 186, 1-85	1.7	3291
491	Reactive oxygen species and the central nervous system. <i>Journal of Neurochemistry</i> , 1992 , 59, 1609-23	6	2248
490	The presence of glutathione and glutathione reductase in chloroplasts: A proposed role in ascorbic acid metabolism. <i>Planta</i> , 1976 , 133, 21-5	4.7	1966
489	Oxidative stress and neurodegeneration: where are we now?. <i>Journal of Neurochemistry</i> , 2006 , 97, 1634-58		1871
488	Damage to DNA by reactive oxygen and nitrogen species: role in inflammatory disease and progression to cancer. <i>Biochemical Journal</i> , 1996 , 313 (Pt 1), 17-29	3.8	1799
487	Oxygen free radicals and iron in relation to biology and medicine: some problems and concepts. <i>Archives of Biochemistry and Biophysics</i> , 1986 , 246, 501-14	4.1	1783
486	The deoxyribose method: a simple "test-tube" assay for determination of rate constants for reactions of hydroxyl radicals. <i>Analytical Biochemistry</i> , 1987 , 165, 215-9	3.1	1732
485	Measuring reactive species and oxidative damage in vivo and in cell culture: how should you do it and what do the results mean?. <i>British Journal of Pharmacology</i> , 2004 , 142, 231-55	8.6	1539
484	Reactive species and antioxidants. Redox biology is a fundamental theme of aerobic life. <i>Plant Physiology</i> , 2006 , 141, 312-22	6.6	1475
483	The antioxidant action of N-acetylcysteine: its reaction with hydrogen peroxide, hydroxyl radical, superoxide, and hypochlorous acid. <i>Free Radical Biology and Medicine</i> , 1989 , 6, 593-7	7.8	1407
482	Formation of nitric oxide-derived inflammatory oxidants by myeloperoxidase in neutrophils. <i>Nature</i> , 1998 , 391, 393-7	50.4	1329
481	Antioxidants in human health and disease. <i>Annual Review of Nutrition</i> , 1996 , 16, 33-50	9.9	1213
480	DNA damage by oxygen-derived species. Its mechanism and measurement in mammalian systems. <i>FEBS Letters</i> , 1991 , 281, 9-19	3.8	1180
479	Role of free radicals in the neurodegenerative diseases: therapeutic implications for antioxidant treatment. <i>Drugs and Aging</i> , 2001 , 18, 685-716	4.7	1059
478	The antioxidants of human extracellular fluids. <i>Archives of Biochemistry and Biophysics</i> , 1990 , 280, 1-8	4.1	1031
477	Oxidative stress and cancer: have we moved forward?. <i>Biochemical Journal</i> , 2007 , 401, 1-11	3.8	953
476	Oxidants and human disease: some new concepts ¹ . <i>FASEB Journal</i> , 1987 , 1, 358-364	0.9	946

475	Free Radicals in Biology and Medicine 2015 ,		945
474	The measurement and mechanism of lipid peroxidation in biological systems. <i>Trends in Biochemical Sciences</i> , 1990 , 15, 129-35	10.3	937
473	Biochemistry of oxidative stress. <i>Biochemical Society Transactions</i> , 2007 , 35, 1147-50	5.1	904
472	The importance of free radicals and catalytic metal ions in human diseases. <i>Molecular Aspects of Medicine</i> , 1985 , 8, 89-193	16.7	778
471	Hydrogen peroxide in the human body. <i>FEBS Letters</i> , 2000 , 486, 10-3	3.8	720
470	Oxygen radicals and the nervous system. <i>Trends in Neurosciences</i> , 1985 , 8, 22-26	13.3	702
469	Biologically relevant metal ion-dependent hydroxyl radical generation. An update. <i>FEBS Letters</i> , 1992 , 307, 108-12	3.8	659
468	Antioxidant defence mechanisms: from the beginning to the end (of the beginning). <i>Free Radical Research</i> , 1999 , 31, 261-72	4	654
467	Formation of reactive nitrogen species during peroxidase-catalyzed oxidation of nitrite. A potential additional mechanism of nitric oxide-dependent toxicity. <i>Journal of Biological Chemistry</i> , 1997 , 272, 7617-25	5.1	651
466	Formation of thiobarbituric-acid-reactive substance from deoxyribose in the presence of iron salts: the role of superoxide and hydroxyl radicals. <i>FEBS Letters</i> , 1981 , 128, 347-52	3.8	650
465	Free radicals and antioxidants in the year 2000. A historical look to the future. <i>Annals of the New York Academy of Sciences</i> , 2000 , 899, 136-47	6.5	645
464	How to characterize a biological antioxidant. <i>Free Radical Research Communications</i> , 1990 , 9, 1-32		626
463	Free radicals and antioxidants: a personal view. <i>Nutrition Reviews</i> , 1994 , 52, 253-65	6.4	604
462	Superoxide-dependent formation of hydroxyl radicals in the presence of iron chelates: is it a mechanism for hydroxyl radical production in biochemical systems?. <i>FEBS Letters</i> , 1978 , 92, 321-6	3.8	598
461	Evidence for nitric oxide-mediated oxidative damage in chronic inflammation. Nitrotyrosine in serum and synovial fluid from rheumatoid patients. <i>FEBS Letters</i> , 1994 , 350, 9-12	3.8	560
460	Are polyphenols antioxidants or pro-oxidants? What do we learn from cell culture and in vivo studies?. <i>Archives of Biochemistry and Biophysics</i> , 2008 , 476, 107-12	4.1	547
459	Unraveling the biological roles of reactive oxygen species. <i>Cell Metabolism</i> , 2011 , 13, 361-366	24.6	542
458	Albumin--an important extracellular antioxidant?. <i>Biochemical Pharmacology</i> , 1988 , 37, 569-71	6	529

457	Inhibition of mammalian 5-lipoxygenase and cyclo-oxygenase by flavonoids and phenolic dietary additives. Relationship to antioxidant activity and to iron ion-reducing ability. <i>Biochemical Pharmacology</i> , 1991 , 42, 1673-81	6	516
456	Health promotion by flavonoids, tocopherols, tocotrienols, and other phenols: direct or indirect effects? Antioxidant or not?. <i>American Journal of Clinical Nutrition</i> , 2005 , 81, 268S-276S	7	511
455	Free radicals and antioxidants: updating a personal view. <i>Nutrition Reviews</i> , 2012 , 70, 257-65	6.4	496
454	The novel neuromodulator hydrogen sulfide: an endogenous peroxynitrite scavenger. <i>Journal of Neurochemistry</i> , 2004 , 90, 765-8	6	496
453	Antioxidant and pro-oxidant actions of the plant phenolics quercetin, gossypol and myricetin. Effects on lipid peroxidation, hydroxyl radical generation and bleomycin-dependent damage to DNA. <i>Biochemical Pharmacology</i> , 1989 , 38, 2859-65	6	493
452	Oxidative stress, dysfunctional glucose metabolism and Alzheimer disease. <i>Nature Reviews Neuroscience</i> , 2019 , 20, 148-160	13.5	492
451	The antioxidant paradox. <i>Lancet, The</i> , 2000 , 355, 1179-80	4.0	466
450	Free radicals and antioxidants in food and in vivo: what they do and how they work. <i>Critical Reviews in Food Science and Nutrition</i> , 1995 , 35, 7-20	11.5	464
449	Antioxidants and human disease: a general introduction. <i>Nutrition Reviews</i> , 1997 , 55, S44-9; discussion S49-52	6.4	450
448	Free radicals and antioxidants - quo vadis?. <i>Trends in Pharmacological Sciences</i> , 2011 , 32, 125-30	13.2	447
447	Nitric oxide and oxygen radicals: a question of balance. <i>FEBS Letters</i> , 1995 , 369, 131-5	3.8	442
446	Failure of the ubiquitin-proteasome system in Parkinson disease. <i>Nature Reviews Neuroscience</i> , 2001 , 2, 589-94	13.5	416
445	A generalised increase in protein carbonyls in the brain in Parkinson but not incidental Lewy body disease. <i>Journal of Neurochemistry</i> , 1997 , 69, 1326-9	6	414
444	Oxidative stress, nutrition and health. Experimental strategies for optimization of nutritional antioxidant intake in humans. <i>Free Radical Research</i> , 1996 , 25, 57-74	4	394
443	Oxidative stress in cell culture: an under-appreciated problem?. <i>FEBS Letters</i> , 2003 , 540, 3-6	3.8	392
442	Vitamin C: antioxidant or pro-oxidant in vivo?. <i>Free Radical Research</i> , 1996 , 25, 439-54	4	391
441	The gastrointestinal tract: a major site of antioxidant action?. <i>Free Radical Research</i> , 2000 , 33, 819-30	4	389
440	An assessment of oxidative damage to proteins, lipids, and DNA in brain from patients with Alzheimer disease. <i>Journal of Neurochemistry</i> , 1997 , 68, 2061-9	6	376

439	What nitrates tyrosine? Is nitrotyrosine specific as a biomarker of peroxynitrite formation in vivo?. <i>FEBS Letters</i> , 1997 , 411, 157-60	3.8	375
438	Formation of nitrating and chlorinating species by reaction of nitrite with hypochlorous acid. A novel mechanism for nitric oxide-mediated protein modification. <i>Journal of Biological Chemistry</i> , 1996 , 271, 19199-208	5.4	361
437	Dietary polyphenols: good, bad, or indifferent for your health?. <i>Cardiovascular Research</i> , 2007 , 73, 341-7	9.9	348
436	Artifacts in cell culture: rapid generation of hydrogen peroxide on addition of (-)-epigallocatechin, (-)-epigallocatechin gallate, (+)-catechin, and quercetin to commonly used cell culture media. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 273, 50-3	3.4	340
435	The wanderings of a free radical. <i>Free Radical Biology and Medicine</i> , 2009 , 46, 531-42	7.8	339
434	Evaluation of the antioxidant and prooxidant actions of gallic acid and its derivatives. <i>Journal of Agricultural and Food Chemistry</i> , 1993 , 41, 1880-1885	5.7	327
433	Protection against tissue damage in vivo by desferrioxamine: what is its mechanism of action?. <i>Free Radical Biology and Medicine</i> , 1989 , 7, 645-51	7.8	324
432	Antioxidant characterization. Methodology and mechanism. <i>Biochemical Pharmacology</i> , 1995 , 49, 1341-86		320
431	Aromatic hydroxylation and nitration of phenylalanine and tyrosine by peroxynitrite. Evidence for hydroxyl radical production from peroxynitrite. <i>FEBS Letters</i> , 1994 , 339, 89-92	3.8	315
430	The definition and measurement of antioxidants in biological systems. <i>Free Radical Biology and Medicine</i> , 1995 , 18, 125-6	7.8	310
429	Oxidative damage, lipid peroxidation and antioxidant protection in chloroplasts. <i>Chemistry and Physics of Lipids</i> , 1987 , 44, 327-340	3.7	308
428	Micronutrients: oxidant/antioxidant status. <i>British Journal of Nutrition</i> , 2001 , 85, S67	3.6	306
427	Interactions of a series of coumarins with reactive oxygen species. Scavenging of superoxide, hypochlorous acid and hydroxyl radicals. <i>Biochemical Pharmacology</i> , 1992 , 44, 205-14	6	306
426	Allopurinol and oxypurinol are hydroxyl radical scavengers. <i>FEBS Letters</i> , 1987 , 213, 23-8	3.8	305
425	Inhibition of peroxynitrite-mediated tyrosine nitration by catechin polyphenols. <i>Biochemical and Biophysical Research Communications</i> , 1997 , 232, 164-8	3.4	293
424	Oxygen and nitrogen are pro-carcinogens. Damage to DNA by reactive oxygen, chlorine and nitrogen species: measurement, mechanism and the effects of nutrition. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 1999 , 443, 37-52	3	278
423	Conjugates of catecholamines with cysteine and GSH in Parkinson® disease: possible mechanisms of formation involving reactive oxygen species. <i>Journal of Neurochemistry</i> , 1998 , 71, 2112-22	6	275
422	Lignin synthesis: The generation of hydrogen peroxide and superoxide by horseradish peroxidase and its stimulation by manganese (II) and phenols. <i>Planta</i> , 1978 , 140, 81-8	4.7	275

421	Evaluation of the antioxidant activity of melatonin in vitro. <i>Free Radical Biology and Medicine</i> , 1996 , 21, 307-15	7.8	269
420	Antioxidants: Molecules, medicines, and myths. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 393, 561-4	3.4	265
419	Drug antioxidant effects. A basis for drug selection?. <i>Drugs</i> , 1991 , 42, 569-605	12.1	258
418	Superoxide-dependent formation of hydroxyl radicals in the presence of iron salts. Its role in degradation of hyaluronic acid by a superoxide-generating system. <i>FEBS Letters</i> , 1978 , 96, 238-42	3.8	254
417	Ergothioneine; antioxidant potential, physiological function and role in disease. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2012 , 1822, 784-93	6.9	251
416	The measurement of free radical reactions in humans. Some thoughts for future experimentation. <i>FEBS Letters</i> , 1987 , 213, 9-14	3.8	247
415	Blood radicals: reactive nitrogen species, reactive oxygen species, transition metal ions, and the vascular system. <i>Pharmaceutical Research</i> , 1996 , 13, 649-62	4.5	245
414	Hydroxylation of salicylate as an assay for hydroxyl radicals: a cautionary note. <i>Free Radical Biology and Medicine</i> , 1991 , 10, 439-41	7.8	240
413	Supplementation with vitamin C and N-acetyl-cysteine increases oxidative stress in humans after an acute muscle injury induced by eccentric exercise. <i>Free Radical Biology and Medicine</i> , 2001 , 31, 745-53	7.8	233
412	Lipoic and dihydrolipoic acids as antioxidants. A critical evaluation. <i>Free Radical Research</i> , 1994 , 20, 119-33		233
411	Hydrogen sulfide is a mediator of cerebral ischemic damage. <i>Stroke</i> , 2006 , 37, 889-93	6.7	232
410	Oxidants, inflammation, and anti-inflammatory drugs. <i>FASEB Journal</i> , 1988 , 2, 2867-73	0.9	216
409	Superoxide-dependent formation of hydroxyl radicals: detection of hydroxyl radicals by the hydroxylation of aromatic compounds. <i>Analytical Biochemistry</i> , 1981 , 118, 328-35	3.1	215
408	Nitric oxide and peroxynitrite. The ugly, the uglier and the not so good: a personal view of recent controversies. <i>Free Radical Research</i> , 1999 , 31, 651-69	4	213
407	Damage to the DNA bases in mammalian chromatin by hydrogen peroxide in the presence of ferric and cupric ions. <i>Archives of Biochemistry and Biophysics</i> , 1991 , 285, 317-24	4.1	210
406	Intense oxidative DNA damage promoted by L-dopa and its metabolites. Implications for neurodegenerative disease. <i>FEBS Letters</i> , 1994 , 353, 246-50	3.8	208
405	Iron and free radical reactions: two aspects of antioxidant protection. <i>Trends in Biochemical Sciences</i> , 1986 , 11, 372-375	10.3	206
404	Lipid peroxidation, antioxidants and cardiovascular disease: how should we move forward?. <i>Cardiovascular Research</i> , 2000 , 47, 410-8	9.9	199

403	Inhibition of lipid peroxidation by the iron-binding protein lactoferrin. <i>Biochemical Journal</i> , 1981 , 199, 259-61	3.8	199
402	Effect of diet on cancer development: is oxidative DNA damage a biomarker?. <i>Free Radical Biology and Medicine</i> , 2002 , 32, 968-74	7.8	197
401	Human fecal water content of phenolics: the extent of colonic exposure to aromatic compounds. <i>Free Radical Biology and Medicine</i> , 2005 , 38, 763-72	7.8	195
400	Effect of the overexpression of wild-type or mutant alpha-synuclein on cell susceptibility to insult. <i>Journal of Neurochemistry</i> , 2001 , 76, 998-1009	6	189
399	The antioxidant paradox: less paradoxical now?. <i>British Journal of Clinical Pharmacology</i> , 2013 , 75, 637-44	3.8	187
398	Action of biologically-relevant oxidizing species upon uric acid. Identification of uric acid oxidation products. <i>Chemico-Biological Interactions</i> , 1990 , 73, 235-47	5	187
397	Superoxide-dependent formation of hydroxyl radicals and lipid peroxidation in the presence of iron salts. Detection of catalytic iron and anti-oxidant activity in extracellular fluids. <i>Biochemical Journal</i> , 1982 , 206, 605-9	3.8	184
396	Inhibition of peroxynitrite dependent tyrosine nitration by hydroxycinnamates: nitration or electron donation?. <i>Free Radical Biology and Medicine</i> , 1998 , 24, 594-606	7.8	180
395	Oxidative damage in Parkinson disease: Measurement using accurate biomarkers. <i>Free Radical Biology and Medicine</i> , 2010 , 48, 560-6	7.8	179
394	The measurement of oxidative damage to DNA by HPLC and GC/MS techniques. <i>Free Radical Research Communications</i> , 1992 , 16, 75-87		179
393	Use of desferrioxamine as a probe for iron-dependent formation of hydroxyl radicals. Evidence for a direct reaction between desferal and the superoxide radical. <i>Biochemical Pharmacology</i> , 1985 , 34, 229-33	6.3	179
392	Superoxide-dependent formation of hydroxyl radicals in the presence of thiol compounds. <i>FEBS Letters</i> , 1982 , 138, 33-6	3.8	178
391	Establishing the significance and optimal intake of dietary antioxidants: the biomarker concept. <i>Nutrition Reviews</i> , 1999 , 57, 104-13	6.4	177
390	The antioxidant action of ergothioneine. <i>Archives of Biochemistry and Biophysics</i> , 1991 , 288, 10-6	4.1	176
389	Why and how should we measure oxidative DNA damage in nutritional studies? How far have we come?. <i>American Journal of Clinical Nutrition</i> , 2000 , 72, 1082-7	7	175
388	The in vitro cytotoxicity of ascorbate depends on the culture medium used to perform the assay and involves hydrogen peroxide. <i>Antioxidants and Redox Signaling</i> , 2001 , 3, 157-63	8.4	174
387	Methods for the measurement of hydroxyl radicals in biomedical systems: deoxyribose degradation and aromatic hydroxylation. <i>Methods of Biochemical Analysis</i> , 1988 , 33, 59-90		171
386	Evaluation of the antioxidant actions of ferulic acid and catechins. <i>Free Radical Research Communications</i> , 1993 , 19, 241-53		170

385	The role of superoxide and hydroxyl radicals in the degradation of hyaluronic acid induced by metal ions and by ascorbic acid. <i>Journal of Inorganic Biochemistry</i> , 1981 , 14, 127-34	4.2	169
384	The effects of iron and vitamin C co-supplementation on oxidative damage to DNA in healthy volunteers. <i>Biochemical and Biophysical Research Communications</i> , 1998 , 246, 293-8	3.4	164
383	Hydrogen peroxide in human urine: implications for antioxidant defense and redox regulation. <i>Biochemical and Biophysical Research Communications</i> , 1999 , 262, 605-9	3.4	160
382	Antioxidant activity of vitamin C in iron-overloaded human plasma. <i>Journal of Biological Chemistry</i> , 1997 , 272, 15656-60	5.4	156
381	Phagocyte-derived reactive species: salvation or suicide?. <i>Trends in Biochemical Sciences</i> , 2006 , 31, 509-15	0.3	153
380	Hypochlorous acid-induced base modifications in isolated calf thymus DNA. <i>Chemical Research in Toxicology</i> , 1997 , 10, 1240-6	4	150
379	Using isoprostanes as biomarkers of oxidative stress: some rarely considered issues. <i>Antioxidants and Redox Signaling</i> , 2010 , 13, 145-56	8.4	149
378	Free radicals and hearing. Cause, consequence, and criteria. <i>Annals of the New York Academy of Sciences</i> , 1999 , 884, 19-40	6.5	149
377	Base modification and strand breakage in isolated calf thymus DNA and in DNA from human skin epidermal keratinocytes exposed to peroxynitrite or 3-morpholinopropanone. <i>Chemical Research in Toxicology</i> , 1996 , 9, 1152-8	4	146
376	Reactive oxygen species and silica-induced carcinogenesis. <i>Journal of Toxicology and Environmental Health - Part B: Critical Reviews</i> , 1998 , 1, 181-97	8.6	144
375	Superoxide dismutase activities of an iron porphyrin and other iron complexes. <i>Journal of the American Chemical Society</i> , 1979 , 101, 1026-1031	16.4	144
374	The scavenging of oxidants by sulphasalazine and its metabolites. A possible contribution to their anti-inflammatory effects?. <i>Biochemical Pharmacology</i> , 1987 , 36, 3739-42	6	142
373	A reassessment of the peroxynitrite scavenging activity of uric acid. <i>Annals of the New York Academy of Sciences</i> , 2002 , 962, 242-59	6.5	140
372	Protection against peroxynitrite-dependent tyrosine nitration and alpha 1-antitrypsinase inactivation by ascorbic acid. A comparison with other biological antioxidants. <i>Free Radical Research</i> , 1996 , 25, 275-83	4	140
371	F4-isoprostanes as specific marker of docosahexaenoic acid peroxidation in Alzheimer's disease. <i>Journal of Neurochemistry</i> , 1999 , 72, 734-40	6	139
370	Biologically significant scavenging of the myeloperoxidase-derived oxidant hypochlorous acid by ascorbic acid. Implications for antioxidant protection in the inflamed rheumatoid joint. <i>FEBS Letters</i> , 1987 , 213, 15-7	3.8	139
369	Can oxidative DNA damage be used as a biomarker of cancer risk in humans? Problems, resolutions and preliminary results from nutritional supplementation studies. <i>Free Radical Research</i> , 1998 , 29, 469-86		138
368	The iron-binding and hydroxyl radical scavenging action of anti-inflammatory drugs. <i>Xenobiotica</i> , 1988 , 18, 459-70	2	136

367	Reaction of iron-EDTA chelates with the superoxide radical. <i>Archives of Biochemistry and Biophysics</i> , 1982 , 218, 174-8	4.1	135
366	How to characterize an antioxidant: an update. <i>Biochemical Society Symposia</i> , 1995 , 61, 73-101		135
365	Does supplemental vitamin C increase cardiovascular disease risk in women with diabetes?. <i>American Journal of Clinical Nutrition</i> , 2004 , 80, 1194-200	7	134
364	Effect of wild-type or mutant Parkin on oxidative damage, nitric oxide, antioxidant defenses, and the proteasome. <i>Journal of Biological Chemistry</i> , 2002 , 277, 28572-7	5.4	133
363	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. <i>Journal of Inorganic Biochemistry</i> , 1987 , 29, 289-299	4.2	132
362	Cobalt(II) ion as a promoter of hydroxyl radical and possible α -hydroxyl radical formation under physiological conditions. Differential effects of hydroxyl radical scavengers. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1985 , 843, 261-8	4	131
361	Do polyphenols enter the brain and does it matter? Some theoretical and practical considerations. <i>Genes and Nutrition</i> , 2012 , 7, 99-109	4.3	130
360	Hydrogen Peroxide. Ubiquitous in Cell Culture and In vivo?. <i>IUBMB Life</i> , 2000 , 50, 251-257	4.7	128
359	Cell culture, oxidative stress, and antioxidants: avoiding pitfalls. <i>Biomedical Journal</i> , 2014 , 37, 99-105	7.1	127
358	Evidence for a trade-off between survival and fitness caused by resveratrol treatment of <i>Caenorhabditis elegans</i> . <i>Annals of the New York Academy of Sciences</i> , 2007 , 1100, 530-42	6.5	127
357	Measurement of oxidized and methylated DNA bases by HPLC with electrochemical detection. <i>Biochemical Journal</i> , 1996 , 318 (Pt 1), 21-3	3.8	126
356	Vitamin C and genomic stability. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2001 , 475, 29-35	3.3	124
355	Role of iron in oxygen radical reactions. <i>Methods in Enzymology</i> , 1984 , 105, 47-56	1.7	124
354	Inhibition of peroxynitrite dependent DNA base modification and tyrosine nitration by the extra virgin olive oil-derived antioxidant hydroxytyrosol. <i>Free Radical Biology and Medicine</i> , 1999 , 26, 762-9	7.8	123
353	Antioxidants: the basics--what they are and how to evaluate them. <i>Advances in Pharmacology</i> , 1997 , 38, 3-20	5.7	123
352	Effects of hydrogen peroxide on wound healing in mice in relation to oxidative damage. <i>PLoS ONE</i> , 2012 , 7, e49215	3.7	122
351	The mitochondrial free radical theory of ageing--where do we stand?. <i>Frontiers in Bioscience - Landmark</i> , 2008 , 13, 6554-79	2.8	122
350	Effect of Hydroxytyrosol Found in Extra Virgin Olive Oil on Oxidative DNA Damage and on Low-Density Lipoprotein Oxidation. <i>Journal of Agricultural and Food Chemistry</i> , 1998 , 46, 5181-5187	5.7	119

349	Instability of, and generation of hydrogen peroxide by, phenolic compounds in cell culture media. <i>Archives of Biochemistry and Biophysics</i> , 2010 , 501, 162-9	4.1	117
348	Vitamin C: poison, prophylactic or panacea?. <i>Trends in Biochemical Sciences</i> , 1999 , 24, 255-9	10.3	115
347	Subcellular localisation and identification of superoxide dismutase in the leaves of higher plants. <i>FEBS Journal</i> , 1978 , 91, 339-44		115
346	Biomarkers of oxidative damage in cigarette smokers: which biomarkers might reflect acute versus chronic oxidative stress?. <i>Free Radical Biology and Medicine</i> , 2011 , 50, 1787-93	7.8	113
345	DNA damage and cancer: measurement and mechanism. <i>Cancer Letters</i> , 1995 , 93, 113-20	9.9	113
344	The superoxide dismutase activity of iron complexes. <i>FEBS Letters</i> , 1975 , 56, 34-8	3.8	113
343	Effect of concentration on the cytotoxic mechanism of doxorubicin--apoptosis and oxidative DNA damage. <i>Biochemical and Biophysical Research Communications</i> , 1997 , 230, 254-7	3.4	112
342	Proteasomal inhibition causes the formation of protein aggregates containing a wide range of proteins, including nitrated proteins. <i>Journal of Neurochemistry</i> , 2003 , 86, 363-73	6	112
341	Effect of proteasome inhibition on cellular oxidative damage, antioxidant defences and nitric oxide production. <i>Journal of Neurochemistry</i> , 2001 , 78, 32-41	6	112
340	Neurochemical consequences of kainate-induced toxicity in brain: involvement of arachidonic acid release and prevention of toxicity by phospholipase A(2) inhibitors. <i>Brain Research Reviews</i> , 2001 , 38, 61-78		112
339	Characterization of antioxidant and antiglycation properties and isolation of active ingredients from traditional chinese medicines. <i>Free Radical Biology and Medicine</i> , 2004 , 36, 1575-87	7.8	110
338	Interaction of nitrogen dioxide with human plasma. Antioxidant depletion and oxidative damage. <i>FEBS Letters</i> , 1992 , 313, 62-6	3.8	109
337	Consumption of flavonoids in onions and black tea: lack of effect on F2-isoprostanes and autoantibodies to oxidized LDL in healthy humans. <i>American Journal of Clinical Nutrition</i> , 2001 , 73, 1040-4	7	106
336	Raised levels of F(2)-isoprostanes and prostaglandin F(2alpha) in different rheumatic diseases. <i>Annals of the Rheumatic Diseases</i> , 2001 , 60, 627-31	2.4	106
335	alpha-Lipoic acid decreases oxidative stress even in diabetic patients with poor glycemic control and albuminuria. <i>Free Radical Biology and Medicine</i> , 1999 , 26, 1495-500	7.8	105
334	Superoxide, iron, vascular endothelium and reperfusion injury. <i>Free Radical Research Communications</i> , 1989 , 5, 315-8		105
333	An attempt to demonstrate a reaction between superoxide and hydrogen peroxide. <i>FEBS Letters</i> , 1976 , 72, 8-10	3.8	105
332	Antioxidant action of ergothioneine: assessment of its ability to scavenge peroxynitrite. <i>Biochemical and Biophysical Research Communications</i> , 1997 , 231, 389-91	3.4	104

331	Analysis of free and protein-bound nitrotyrosine in human plasma by a gas chromatography/mass spectrometry method that avoids nitration artifacts. <i>Biochemical Journal</i> , 2000 , 345, 453-458	3.8	104
330	Doxorubicin-dependent lipid peroxidation at low partial pressures of O ₂ . <i>Journal of Free Radicals in Biology & Medicine</i> , 1985 , 1, 43-9		104
329	The Mitoflash probe cpYFP does not respond to superoxide. <i>Nature</i> , 2014 , 514, E12-4	50.4	103
328	The mitochondria-targeted antioxidant MitoQ extends lifespan and improves healthspan of a transgenic <i>Caenorhabditis elegans</i> model of Alzheimer disease. <i>Free Radical Biology and Medicine</i> , 2014 , 71, 390-401	7.8	103
327	Contribution of hydrogen peroxide to the cytotoxicity of green tea and red wines. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 304, 650-4	3.4	102
326	An evaluation of the antioxidant and potential pro-oxidant properties of food additives and of trolox C, vitamin E and probucol. <i>Free Radical Research Communications</i> , 1990 , 10, 143-57		102
325	Modification of bases in DNA by copper ion-1,10-phenanthroline complexes. <i>Biochemistry</i> , 1990 , 29, 8443-51	3.51	101
324	Nitrotyrosine as biomarker for reactive nitrogen species. <i>Methods in Enzymology</i> , 1996 , 269, 175-84	1.7	100
323	A mechanism of sulfite neurotoxicity: direct inhibition of glutamate dehydrogenase. <i>Journal of Biological Chemistry</i> , 2004 , 279, 43035-45	5.4	100
322	Mini-Review: Oxidative stress, redox stress or redox success?. <i>Biochemical and Biophysical Research Communications</i> , 2018 , 502, 183-186	3.4	100
321	Evaluation of the pro-oxidant and antioxidant actions of L-DOPA and dopamine in vitro: implications for Parkinson disease. <i>Free Radical Research</i> , 1996 , 24, 95-105	4	99
320	Characterization of food antioxidants, illustrated using commercial garlic and ginger preparations. <i>Food Chemistry</i> , 1997 , 60, 149-156	8.5	97
319	The cytotoxicity of dopamine may be an artefact of cell culture. <i>Journal of Neurochemistry</i> , 2002 , 81, 414-21	6	97
318	Nitrite-induced deamination and hypochlorite-induced oxidation of DNA in intact human respiratory tract epithelial cells. <i>Free Radical Biology and Medicine</i> , 2000 , 28, 1039-50	7.8	97
317	Oxidative stress occurs during soybean nodule senescence. <i>Planta</i> , 1999 , 208, 73-79	4.7	95
316	Detection of hydroxyl radicals by aromatic hydroxylation. <i>Methods in Enzymology</i> , 1994 , 233, 67-82	1.7	95
315	Human skin keloid fibroblasts display bioenergetics of cancer cells. <i>Journal of Investigative Dermatology</i> , 2008 , 128, 702-9	4.3	94
314	Purification and properties of dehydroascorbate reductase from spinach leaves. <i>Phytochemistry</i> , 1977 , 16, 1347-1350	4	94

313	Ergothioneine - a diet-derived antioxidant with therapeutic potential. <i>FEBS Letters</i> , 2018 , 592, 3357-3366.	8	94
312	Mitochondria-targeted antioxidants and metabolic modulators as pharmacological interventions to slow ageing. <i>Biotechnology Advances</i> , 2013 , 31, 563-92	17.8	93
311	Oxygen free-radicals and lipid peroxidation: inhibition by the protein caeruloplasmin. <i>FEBS Letters</i> , 1980 , 112, 269-272	3.8	93
310	5-s-Cysteinyl-conjugates of catecholamines induce cell damage, extensive DNA base modification and increases in caspase-3 activity in neurons. <i>Journal of Neurochemistry</i> , 2002 , 81, 122-9	6	92
309	Hypochlorous acid-mediated mitochondrial dysfunction and apoptosis in human hepatoma HepG2 and human fetal liver cells: role of mitochondrial permeability transition. <i>Free Radical Biology and Medicine</i> , 2005 , 38, 1571-84	7.8	92
308	Hypothesis: proteasomal dysfunction: a primary event in neurodegeneration that leads to oxidative and nitrosative stress and subsequent cell death. <i>Annals of the New York Academy of Sciences</i> , 2002 , 962, 182-94	6.5	90
307	Determination of low-molecular-mass antioxidant concentrations in human respiratory tract lining fluids. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 1999 , 276, L289-96	5.8	90
306	Characterization of the potential antioxidant and pro-oxidant actions of some neuroleptic drugs. <i>Biochemical Pharmacology</i> , 1995 , 49, 359-65	6	90
305	The role of the superoxide and hydroxyl radicals in the degradation of DNA and deoxyribose induced by a copper-phenanthroline complex. <i>Biochemical Pharmacology</i> , 1982 , 31, 2801-5	6	90
304	Proteasomal dysfunction induced by 4-hydroxy-2,3-trans-nonenal, an end-product of lipid peroxidation: a mechanism contributing to neurodegeneration?. <i>Journal of Neurochemistry</i> , 2002 , 83, 360-70	6	89
303	F4-isoprostanes: a novel class of prostanoids formed during peroxidation of docosahexaenoic acid (DHA). <i>Biochemical and Biophysical Research Communications</i> , 1998 , 242, 338-44	3.4	89
302	Superoxide-dependent depletion of reduced glutathione by L-DOPA and dopamine. Relevance to Parkinson's disease. <i>NeuroReport</i> , 1995 , 6, 1480-4	1.7	89
301	A novel approach to the identification and quantitative elemental analysis of amyloid deposits--insights into the pathology of Alzheimer's disease. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 382, 91-5	3.4	88
300	Proteasome inhibition by lactacystin in primary neuronal cells induces both potentially neuroprotective and pro-apoptotic transcriptional responses: a microarray analysis. <i>Journal of Neurochemistry</i> , 2005 , 94, 943-56	6	88
299	Oxygen free radicals and human diseases. <i>Journal of the Royal Society of Health</i> , 1991 , 111, 172-7		88
298	Peroxynitrite mediates calcium-dependent mitochondrial dysfunction and cell death via activation of calpains. <i>FASEB Journal</i> , 2004 , 18, 1395-7	0.9	87
297	Effect of overexpression of BCL-2 on cellular oxidative damage, nitric oxide production, antioxidant defenses, and the proteasome. <i>Free Radical Biology and Medicine</i> , 2001 , 31, 1550-9	7.8	87
296	Artefacts in cell culture: pyruvate as a scavenger of hydrogen peroxide generated by ascorbate or epigallocatechin gallate in cell culture media. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 388, 700-4	3.4	86

295	Ageing in nematodes: do antioxidants extend lifespan in <i>Caenorhabditis elegans</i> ?. <i>Biogerontology</i> , 2010 , 11, 17-30	4.5	86
294	A high-throughput and sensitive methodology for the quantification of urinary 8-hydroxy-2'-deoxyguanosine: measurement with gas chromatography-mass spectrometry after single solid-phase extraction. <i>Biochemical Journal</i> , 2004 , 380, 541-8	3.8	85
293	Oxidative damage to proteins, lipids, and DNA in cortical brain regions from patients with dementia with Lewy bodies. <i>Journal of Neurochemistry</i> , 1998 , 71, 302-12	6	85
292	Deceptively simple but simply deceptive-- <i>Caenorhabditis elegans</i> lifespan studies: considerations for aging and antioxidant effects. <i>FEBS Letters</i> , 2009 , 583, 3377-87	3.8	84
291	Evidence for the formation of F3-isoprostanes during peroxidation of eicosapentaenoic acid. <i>Biochemical and Biophysical Research Communications</i> , 1997 , 236, 467-72	3.4	84
290	Measurement of oxidative DNA damage by gas chromatography-mass spectrometry: ethanethiol prevents artifactual generation of oxidized DNA bases. <i>Biochemical Journal</i> , 1998 , 331 (Pt 2), 365-9	3.8	84
289	Inactivation of alpha 1-antiproteinase by hydroxyl radicals. The effect of uric acid. <i>FEBS Letters</i> , 1989 , 244, 76-80	3.8	84
288	2,3-Dihydroxybenzoic acid is a product of human aspirin metabolism. <i>Biochemical Pharmacology</i> , 1988 , 37, 271-80	6	83
287	Inhibition of nitrous acid-dependent tyrosine nitration and DNA base deamination by flavonoids and other phenolic compounds. <i>Chemical Research in Toxicology</i> , 1998 , 11, 1574-9	4	82
286	Measurement of protein carbonyls in human brain tissue. <i>Methods in Enzymology</i> , 1999 , 300, 145-56	1.7	81
285	Tamoxifen and related compounds decrease membrane fluidity in liposomes. Mechanism for the antioxidant action of tamoxifen and relevance to its anticancer and cardioprotective actions?. <i>FEBS Letters</i> , 1993 , 330, 53-6	3.8	81
284	Formation of hydroxyl radicals in biological systems. Does myoglobin stimulate hydroxyl radical formation from hydrogen peroxide?. <i>Free Radical Research Communications</i> , 1988 , 4, 415-22		81
283	Mechanism of clofibrate hepatotoxicity: mitochondrial damage and oxidative stress in hepatocytes. <i>Free Radical Biology and Medicine</i> , 2001 , 31, 659-69	7.8	80
282	Different patterns of oxidized lipid products in plasma and urine of dengue fever, stroke, and Parkinson® disease patients: cautions in the use of biomarkers of oxidative stress. <i>Antioxidants and Redox Signaling</i> , 2009 , 11, 407-20	8.4	79
281	Upregulation of the anti-apoptotic protein Bcl-2 may be an early event in neurodegeneration: studies on Parkinson® and incidental Lewy body disease. <i>Biochemical and Biophysical Research Communications</i> , 1997 , 240, 84-7	3.4	79
280	Free radical scavenging and inhibition of lipid peroxidation by beta-blockers and by agents that interfere with calcium metabolism. A physiologically-significant process?. <i>Biochemical Pharmacology</i> , 1991 , 42, 735-43	6	79
279	Biologically-significant scavenging of the myeloperoxidase-derived oxidant hypochlorous acid by some anti-inflammatory drugs. <i>Biochemical Pharmacology</i> , 1987 , 36, 3847-50	6	79
278	The iron chelator desferrioxamine inhibits atherosclerotic lesion development and decreases lesion iron concentrations in the cholesterol-fed rabbit. <i>Free Radical Biology and Medicine</i> , 2005 , 38, 1206-11	7.8	78

277	Increased oxidative damage to all DNA bases in patients with type II diabetes mellitus. <i>FEBS Letters</i> , 1999 , 448, 120-2	3.8	78
276	Sulphite enhances peroxynitrite-dependent alpha1-antiproteinase inactivation. A mechanism of lung injury by sulphur dioxide?. <i>FEBS Letters</i> , 1998 , 423, 231-4	3.8	77
275	Measurement of F2-isoprostanes, hydroxyeicosatetraenoic products, and oxysterols from a single plasma sample. <i>Free Radical Biology and Medicine</i> , 2008 , 44, 1314-22	7.8	77
274	Are whole extracts and purified glucosinolates from cruciferous vegetables antioxidants?. <i>Free Radical Research</i> , 1996 , 25, 75-86	4	77
273	Superoxide-dependent formation of hydroxyl radicals from NADH and NADPH in the presence of iron salts. <i>FEBS Letters</i> , 1982 , 142, 39-41	3.8	77
272	Aromatic hydroxylation of phenylalanine as an assay for hydroxyl radicals: application to activated human neutrophils and to the heme protein leghemoglobin. <i>Analytical Biochemistry</i> , 1988 , 172, 360-7	3.1	76
271	Superoxide and superoxide-dependent formation of hydroxyl radicals are important in oxygen toxicity. <i>Trends in Biochemical Sciences</i> , 1982 , 7, 270-272	10.3	76
270	Establishing biomarkers of oxidative stress: the measurement of hydrogen peroxide in human urine. <i>Current Medicinal Chemistry</i> , 2004 , 11, 1085-92	4.3	75
269	Haptoglobin reduces renal oxidative DNA and tissue damage during phenylhydrazine-induced hemolysis. <i>Kidney International</i> , 2000 , 58, 1033-44	9.9	72
268	Oxidative DNA damage in human respiratory tract epithelial cells. Time course in relation to DNA strand breakage. <i>Biochemical and Biophysical Research Communications</i> , 1996 , 224, 17-22	3.4	72
267	Reoxygenation injury and antioxidant protection: a tale of two paradoxes. <i>Archives of Biochemistry and Biophysics</i> , 1990 , 283, 223-6	4.1	72
266	Iron, atherosclerosis, and neurodegeneration: a key role for cholesterol in promoting iron-dependent oxidative damage?. <i>Annals of the New York Academy of Sciences</i> , 2004 , 1012, 51-64	6.5	71
265	Human fecal water inhibits COX-2 in colonic HT-29 cells: role of phenolic compounds. <i>Journal of Nutrition</i> , 2005 , 135, 2343-9	4.1	71
264	Oxidation and generation of hydrogen peroxide by thiol compounds in commonly used cell culture media. <i>Biochemical and Biophysical Research Communications</i> , 2001 , 286, 991-4	3.4	71
263	Protection against peroxynitrite-dependent tyrosine nitration and alpha 1-antiproteinase inactivation by oxidized and reduced lipoic acid. <i>FEBS Letters</i> , 1996 , 379, 74-6	3.8	71
262	Generation of hydrogen peroxide by "antioxidant" beverages and the effect of milk addition. Is cocoa the best beverage?. <i>Free Radical Research</i> , 1999 , 31, 67-71	4	70
261	Lipid peroxidation in hyperlipidaemic patients. A study of plasma using an HPLC-based thiobarbituric acid test. <i>Free Radical Research Communications</i> , 1993 , 19, 51-7		70
260	Oxidative damage to plasma constituents by ozone. <i>FEBS Letters</i> , 1992 , 298, 269-72	3.8	70

259	Zinc supplementation inhibits lipid peroxidation and the development of atherosclerosis in rabbits fed a high cholesterol diet. <i>Free Radical Biology and Medicine</i> , 2007 , 42, 559-66	7.8	68
258	Light activation of fructose bisphosphatase in isolated spinach chloroplasts and deactivation by hydrogen peroxide : A physiological role for the thioredoxin system. <i>Planta</i> , 1981 , 151, 242-6	4.7	68
257	Administration of Pure Ergothioneine to Healthy Human Subjects: Uptake, Metabolism, and Effects on Biomarkers of Oxidative Damage and Inflammation. <i>Antioxidants and Redox Signaling</i> , 2017 , 26, 193-208	8.4	67
256	Peroxynitrite-dependent aromatic hydroxylation and nitration of salicylate and phenylalanine. Is hydroxyl radical involved?. <i>Free Radical Research</i> , 1997 , 26, 71-82	4	67
255	Factors affecting the ascorbate- and phenolic-dependent generation of hydrogen peroxide in Dulbecco Modified Eagles Medium. <i>Free Radical Research</i> , 2003 , 37, 1123-30	4	67
254	Tomato consumption modulates oxidative DNA damage in humans. <i>Biochemical and Biophysical Research Communications</i> , 1999 , 262, 828-31	3.4	67
253	Prevention of peroxynitrite-dependent tyrosine nitration and inactivation of alpha1-antitrypsinase by antibiotics. <i>Free Radical Research</i> , 1997 , 26, 49-56	4	65
252	Oxidants, Antioxidants, and Respiratory Tract Lining Fluids. <i>Environmental Health Perspectives</i> , 1994 , 102, 185	8.4	65
251	Oxidation of formate by peroxisomes and mitochondria from spinach leaves. <i>Biochemical Journal</i> , 1974 , 138, 77-85	3.8	64
250	Ergothioneine, an adaptive antioxidant for the protection of injured tissues? A hypothesis. <i>Biochemical and Biophysical Research Communications</i> , 2016 , 470, 245-250	3.4	63
249	Hydrogen sulfide is an endogenous regulator of aging in <i>Caenorhabditis elegans</i> . <i>Antioxidants and Redox Signaling</i> , 2014 , 20, 2621-30	8.4	63
248	Correlation of iron and zinc levels with lesion depth in newly formed atherosclerotic lesions. <i>Free Radical Biology and Medicine</i> , 2003 , 34, 746-52	7.8	63
247	Rapid preparation of human urine and plasma samples for analysis of F2-isoprostanes by gas chromatography-mass spectrometry. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 320, 696-702	3.4	63
246	Potential problems of ascorbate and iron supplementation: pro-oxidant effect in vivo?. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 277, 535-40	3.4	63
245	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. <i>FEBS Letters</i> , 1995 , 375, 179-82	3.8	63
244	Evaluation of the ability of the angiotensin-converting enzyme inhibitor captopril to scavenge reactive oxygen species. <i>Chemico-Biological Interactions</i> , 1991 , 77, 303-14	5	63
243	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 protection by Bcl-2. <i>Journal of Neurochemistry</i> , 2001 , 78, 209-20	6	62
242	Evaluation of the postprandial effects of a fast-food meal on human plasma F(2)-isoprostane levels. <i>Free Radical Biology and Medicine</i> , 2000 , 28, 806-14	7.8	62

241	Measurement of plasma F2-isoprostanes as an index of lipid peroxidation does not appear to be confounded by diet. <i>Free Radical Research</i> , 2000 , 33, 115-27	4	62
240	Oxidative decarboxylation of glycollate and glyoxylate by leaf peroxisomes. <i>Biochemical Journal</i> , 1974 , 138, 217-24		62
239	Is uric acid protective or deleterious in acute ischemic stroke? A prospective cohort study. <i>Atherosclerosis</i> , 2010 , 209, 215-9	3.1	61
238	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. <i>Journal of Neurochemistry</i> , 2001 , 76, 957-65	6	61
237	A reevaluation of the peroxynitrite scavenging activity of some dietary phenolics. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 279, 692-9	3.4	61
236	A metabolite profiling approach to identify biomarkers of flavonoid intake in humans. <i>Journal of Nutrition</i> , 2009 , 139, 2309-14	4.1	60
235	Toxic effects of sulphite in combination with peroxynitrite on neuronal cells. <i>Journal of Neurochemistry</i> , 1998 , 71, 2431-8	6	60
234	Increased formation of S-nitrothiols and nitrotyrosine in cirrhotic rats during endotoxemia. <i>Free Radical Biology and Medicine</i> , 2001 , 31, 790-8	7.8	60
233	Hypochlorous acid-induced DNA base modification: potentiation by nitrite: biomarkers of DNA damage by reactive oxygen species. <i>Biochemical and Biophysical Research Communications</i> , 1999 , 257, 572-6	3.4	60
232	Different cytotoxic and clastogenic effects of epigallocatechin gallate in various cell-culture media due to variable rates of its oxidation in the culture medium. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2007 , 634, 177-83	3	59
231	Analysis of free and protein-bound nitrotyrosine in human plasma by a gas chromatography/mass spectrometry method that avoids nitration artifacts. <i>Biochemical Journal</i> , 2000 , 345, 453	3.8	59
230	The antioxidant action of tamoxifen and its metabolites. Inhibition of lipid peroxidation. <i>FEBS Letters</i> , 1990 , 263, 192-4	3.8	59
229	An aromatic hydroxylation assay for hydroxyl radicals utilizing high-performance liquid chromatography (HPLC). Use to investigate the effect of EDTA on the Fenton reaction. <i>Free Radical Research Communications</i> , 1986 , 1, 243-50		59
228	Superoxide dismutase: a contaminant of bovine catalase. <i>Biochemical Journal</i> , 1973 , 135, 379-81	3.8	59
227	Oral zinc supplementation does not improve oxidative stress or vascular function in patients with type 2 diabetes with normal zinc levels. <i>Atherosclerosis</i> , 2011 , 219, 231-9	3.1	58
226	Mitochondrial changes in ageing <i>Caenorhabditis elegans</i> --what do we learn from superoxide dismutase knockouts?. <i>PLoS ONE</i> , 2011 , 6, e19444	3.7	58
225	Medicinal plants and antioxidants: what do we learn from cell culture and <i>Caenorhabditis elegans</i> studies?. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 394, 1-5	3.4	58
224	Thiourea and dimethylthiourea inhibit peroxynitrite-dependent damage: nonspecificity as hydroxyl radical scavengers. <i>Free Radical Biology and Medicine</i> , 1997 , 22, 1309-12	7.8	58

223	The antioxidant activities of seasonings used in Asian cooking. Powerful antioxidant activity of dark soy sauce revealed using the ABTS assay. <i>Free Radical Research</i> , 2000 , 32, 181-6	4	58
222	Molecular mechanisms of damage by excess nitrogen oxides: nitration of tyrosine by gas-phase cigarette smoke. <i>FEBS Letters</i> , 1994 , 353, 53-6	3.8	58
221	Comments on review of Free Radicals in Biology and Medicine, second edition, by Barry Halliwell and John M. C. Gutteridge. <i>Free Radical Biology and Medicine</i> , 1992 , 12, 93-5	7.8	58
220	Free radicals and metal ions in health and disease. <i>Proceedings of the Nutrition Society</i> , 1987 , 46, 13-26	2.9	57
219	Artefacts in cell culture: Ketoglutarate can scavenge hydrogen peroxide generated by ascorbate and epigallocatechin gallate in cell culture media. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 406, 20-4	3.4	55
218	Lipid peroxidation in brain homogenates: the role of iron and hydroxyl radicals. <i>Journal of Neurochemistry</i> , 1997 , 69, 1330-1	6	54
217	Oxidative damage and motor neurone disease difficulties in the measurement of protein carbonyls in human brain tissue. <i>Free Radical Research</i> , 1996 , 24, 397-406	4	53
216	Metal ion release from mechanically-disrupted human arterial wall. Implications for the development of atherosclerosis. <i>Free Radical Research</i> , 1995 , 23, 465-9	4	53
215	Generation of hydroxyl radicals by soybean nodule leghaemoglobin. <i>Planta</i> , 1988 , 173, 405-10	4.7	53
214	SUPEROXIDE AND PEROXIDASE-CATALYSED REACTIONS. OXIDATION OF DIHYDROXYFUMARATE, NADH AND DITHIOTHREITOL BY HORSERADISH PEROXIDASE*. <i>Photochemistry and Photobiology</i> , 1978 , 28, 757-762	3.6	53
213	Effects of hydrogen peroxide in a keratinocyte-fibroblast co-culture model of wound healing. <i>Biochemical and Biophysical Research Communications</i> , 2012 , 423, 253-8	3.4	52
212	Oxidative damage in ischemic stroke revealed using multiple biomarkers. <i>Stroke</i> , 2011 , 42, 2326-9	6.7	52
211	Scavenging of hypochlorous acid by tetracycline, rifampicin and some other antibiotics: a possible antioxidant action of rifampicin and tetracycline?. <i>Biochemical Pharmacology</i> , 1988 , 37, 775-8	6	52
210	Ergothioneine levels in an elderly population decrease with age and incidence of cognitive decline; a risk factor for neurodegeneration?. <i>Biochemical and Biophysical Research Communications</i> , 2016 , 478, 162-167	3.4	51
209	Oxidative damage in dengue fever. <i>Free Radical Biology and Medicine</i> , 2009 , 47, 375-80	7.8	51
208	Acidosis-induced ischemic brain damage: are free radicals involved?. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1991 , 11, 587-96	7.3	51
207	Artefacts in HPLC detection of 3-nitrotyrosine in human brain tissue. <i>Journal of Neurochemistry</i> , 1998 , 70, 2220-3	6	50
206	Gender differences in steady-state levels of oxidative damage to DNA in healthy individuals. <i>Free Radical Research</i> , 2002 , 36, 157-62	4	50

205	Coffee drinking increases levels of urinary hydrogen peroxide detected in healthy human volunteers. <i>Free Radical Research</i> , 2000 , 32, 463-7	4	50
204	Mechanism of hydrogen peroxide-induced keratinocyte migration in a scratch-wound model. <i>Free Radical Biology and Medicine</i> , 2011 , 51, 884-92	7.8	49
203	The identification of antioxidants in dark soy sauce. <i>Free Radical Research</i> , 2007 , 41, 479-88	4	49
202	Inhibition of hypochlorous acid-induced cellular toxicity by nitrite. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 12061-6	11.5	49
201	Oxidative damage to human plasma proteins by ozone. <i>Free Radical Research Communications</i> , 1992 , 15, 347-52		49
200	Distribution and accumulation of dietary ergothioneine and its metabolites in mouse tissues. <i>Scientific Reports</i> , 2018 , 8, 1601	4.9	48
199	Bleomycin-dependent damage to the bases in DNA is a minor side reaction. <i>Biochemistry</i> , 1991 , 30, 2444-8	3.2	48
198	Reactive Oxygen Species: Radical Factors in the Evolution of Animal Life: A molecular timescale from Earth's earliest history to the rise of complex life. <i>BioEssays</i> , 2018 , 40, 1700158	4.1	47
197	The effect of dichloroacetate on health- and lifespan in <i>C. elegans</i> . <i>Biogerontology</i> , 2011 , 12, 195-209	4.5	44
196	Scavenging of hydroxyl radicals but not of peroxynitrite by inhibitors and substrates of nitric oxide synthases. <i>British Journal of Pharmacology</i> , 1997 , 122, 1702-6	8.6	44
195	Antioxidant properties of S-adenosyl-L-methionine: a proposed addition to organ storage fluids. <i>Free Radical Biology and Medicine</i> , 1997 , 23, 1002-8	7.8	44
194	Sulfite-mediated oxidative stress in kidney cells. <i>Kidney International</i> , 2004 , 65, 393-402	9.9	44
193	Cautions in the use of biomarkers of oxidative damage; the vascular and antioxidant effects of dark soy sauce in humans. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 344, 906-11	3.4	43
192	High plasma cyst(e)ine level may indicate poor clinical outcome in patients with acute stroke: possible involvement of hydrogen sulfide. <i>Journal of Neuropathology and Experimental Neurology</i> , 2006 , 65, 109-15	3.1	43
191	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 cynomolgus monkeys. <i>Journal of Neural Transmission</i> , 2002 , 109, 53-67	4.3	42
190	Role of haptoglobin in free hemoglobin metabolism. <i>Redox Report</i> , 2001 , 6, 219-27	5.9	42
189	ANTIOXIDANT ACTIONS OF FRUIT, HERB AND SPICE EXTRACTS. <i>Journal of Food Lipids</i> , 1996 , 3, 171-188		42
188	Peroxyl radical scavenging by a series of coumarins. <i>Free Radical Research Communications</i> , 1992 , 17, 293-8		42

187	Effect of overexpression of wild-type or mutant parkin on the cellular response induced by toxic insults. <i>Journal of Neuroscience Research</i> , 2005 , 82, 232-44	4.4	41
186	Vitamin C protects against hypochlorous Acid-induced glutathione depletion and DNA base and protein damage in human vascular smooth muscle cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2002 , 22, 574-80	9.4	41
185	Effect of dietary quercetin on oxidative DNA damage in healthy human subjects. <i>British Journal of Nutrition</i> , 2000 , 84, 919-925	3.6	41
184	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. <i>Free Radical Research Communications</i> , 1990 , 10, 245-58		41
183	Hydroxylation of p-Coumaric acid by illuminated chloroplasts. The role of superoxide. <i>FEBS Journal</i> , 1975 , 55, 355-60		41
182	Allantoin in human plasma, serum, and nasal-lining fluids as a biomarker of oxidative stress: avoiding artifacts and establishing real in vivo concentrations. <i>Antioxidants and Redox Signaling</i> , 2009 , 11, 1767-76	8.4	40
181	Loss of oxidized and chlorinated bases in DNA treated with reactive oxygen species: implications for assessment of oxidative damage in vivo. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 296, 883-9	3.4	40
180	8-Chloroadenine: a novel product formed from hypochlorous acid-induced damage to calf thymus DNA. <i>Biomarkers</i> , 1999 , 4, 303-10	2.6	40
179	Energy crisis precedes global metabolic failure in a novel <i>Caenorhabditis elegans</i> Alzheimer Disease model. <i>Scientific Reports</i> , 2016 , 6, 33781	4.9	39
178	Zinc supplementation decreases the development of atherosclerosis in rabbits. <i>Free Radical Biology and Medicine</i> , 2006 , 41, 222-5	7.8	39
177	DNA strand breakage and base modification induced by hydrogen peroxide treatment of human respiratory tract epithelial cells. <i>FEBS Letters</i> , 1995 , 374, 233-6	3.8	39
176	Increase in cholesterol and cholesterol oxidation products, and role of cholesterol oxidation products in kainate-induced neuronal injury. <i>Brain Pathology</i> , 2003 , 13, 250-62	6	38
175	Hydrogen peroxide. Ubiquitous in cell culture and in vivo?. <i>IUBMB Life</i> , 2000 , 50, 251-7	4.7	38
174	Apparent inactivation of alpha 1-antiproteinase by sulphur-containing radicals derived from penicillamine. <i>Biochemical Pharmacology</i> , 1989 , 38, 4353-7	6	37
173	Thiols and disulphides can aggravate peroxynitrite-dependent inactivation of alpha1-antiproteinase. <i>FEBS Letters</i> , 1997 , 414, 497-500	3.8	36
172	Free Radicals and Other Reactive Species in Disease 2005 ,		36
171	Distribution of hydroxynonenal-modified proteins in the kainate-lesioned rat hippocampus: evidence that hydroxynonenal formation precedes neuronal cell death. <i>Free Radical Biology and Medicine</i> , 2000 , 28, 1214-21	7.8	36
170	Determination of oxidative DNA base damage by gas chromatography-mass spectrometry. Effect of derivatization conditions on artifactual formation of certain base oxidation products. <i>Free Radical Research</i> , 1998 , 29, 321-30	4	36

169	Non-ceruloplasmin copper and ferroxidase activity in mammalian serum. Ferroxidase activity and phenanthroline-detectable copper in human serum in Wilson's disease. <i>Free Radical Research Communications</i> , 1989 , 7, 55-62		36
168	Purification and properties of glutathione synthetase from spinach (<i>Spinacia oleracea</i>) leaves. <i>Plant Science</i> , 1986 , 43, 185-191	5.3	36
167	No evidence for increased oxidative damage to lipids, proteins, or DNA in Huntington's disease. <i>Journal of Neurochemistry</i> , 2000 , 75, 840-6	6	35
166	Changes in glutathione in the hippocampus of rats injected with kainate: depletion in neurons and upregulation in glia. <i>Experimental Brain Research</i> , 2000 , 132, 510-6	2.3	35
165	Do mitochondria make nitric oxide? no?. <i>Free Radical Research</i> , 2004 , 38, 591-9	4	34
164	Oxidative damage in mitochondrial DNA is not extensive. <i>Annals of the New York Academy of Sciences</i> , 2005 , 1042, 210-20	6.5	34
163	6-hydroxydopamine increases hydroxyl free radical production and DNA damage in rat striatum. <i>NeuroReport</i> , 2001 , 12, 1155-9	1.7	34
162	The neuronal toxicity of sulfite plus peroxynitrite is enhanced by glutathione depletion: implications for Parkinson's disease. <i>Free Radical Biology and Medicine</i> , 1999 , 27, 515-20	7.8	34
161	Mitochondrial damage by the "pro-oxidant" peroxisomal proliferator clofibrate. <i>Free Radical Biology and Medicine</i> , 1999 , 27, 1095-102	7.8	34
160	The superoxide dismutase activity of various photosynthetic organisms measured by a new and rapid assay technique. <i>FEBS Letters</i> , 1976 , 66, 303-306	3.8	34
159	Effects of lithium on age-related decline in mitochondrial turnover and function in <i>Caenorhabditis elegans</i> . <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2014 , 69, 810-20	6.4	33
158	<i>Caenorhabditis elegans</i> : What We Can and Cannot Learn from Aging Worms. <i>Antioxidants and Redox Signaling</i> , 2015 , 23, 256-79	8.4	33
157	Impaired clearance of oxidised proteins in neurodegenerative diseases. <i>Lancet, The</i> , 1998 , 351, 1510	4.0	33
156	Differential effects of calcium-dependent and calcium-independent phospholipase A(2) inhibitors on kainate-induced neuronal injury in rat hippocampal slices. <i>Free Radical Biology and Medicine</i> , 2001 , 30, 1263-73	7.8	33
155	Loss of 3-nitrotyrosine on exposure to hypochlorous acid: implications for the use of 3-nitrotyrosine as a bio-marker in vivo. <i>Biochemical and Biophysical Research Communications</i> , 1999 , 258, 168-72	3.4	33
154	Action of uric acid, allopurinol and oxypurinol on the myeloperoxidase-derived oxidant hypochlorous acid. <i>Free Radical Research Communications</i> , 1987 , 4, 69-76		33
153	Mathematical modeling of the role of mitochondrial fusion and fission in mitochondrial DNA maintenance. <i>PLoS ONE</i> , 2013 , 8, e76230	3.7	32
152	Redox regulation of wound healing? NF-kappaB activation in cultured human keratinocytes upon wounding and the effect of low energy HeNe irradiation. <i>Free Radical Biology and Medicine</i> , 1998 , 25, 998-1005	7.8	32

151	Nephrotoxic cell death by diclofenac and meloxicam. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 369, 873-7	3.4	32
150	Polyphenols: antioxidant treats for healthy living or covert toxins?. <i>Journal of the Science of Food and Agriculture</i> , 2006 , 86, 1992-1995	4.3	32
149	Proteasomal dysfunction: a common feature of neurodegenerative diseases? Implications for the environmental origins of neurodegeneration. <i>Antioxidants and Redox Signaling</i> , 2006 , 8, 2007-19	8.4	32
148	Nitrite-mediated protection against hypochlorous acid-induced chondrocyte toxicity: a novel cytoprotective role of nitric oxide in the inflamed joint?. <i>Arthritis and Rheumatism</i> , 2003 , 48, 3140-50		32
147	DNA damage by nitrite and peroxyxynitrite: protection by dietary phenols. <i>Methods in Enzymology</i> , 2001 , 335, 296-307	1.7	32
146	Carcinogenic antioxidants. Diethylstilboestrol, hexoestrol and 17 alpha-ethynyloestradiol. <i>FEBS Letters</i> , 1993 , 332, 159-63	3.8	32
145	Context-Dependent Role of Mitochondrial Fusion-Fission in Clonal Expansion of mtDNA Mutations. <i>PLoS Computational Biology</i> , 2015 , 11, e1004183	5	31
144	Free Radicals and Other Reactive Species in Disease 2015 , 1-9		31
143	Oral inflammation and reactive species: a missed opportunity?. <i>Oral Diseases</i> , 2000 , 6, 136-7	3.5	31
142	Chronic exposure to U18666A is associated with oxidative stress in cultured murine cortical neurons. <i>Journal of Neurochemistry</i> , 2006 , 98, 1278-89	6	31
141	Sulphite oxidase gene expression in human brain and in other human and rat tissues. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 305, 619-23	3.4	31
140	6-hydroxydopamine increases the hydroxylation and nitration of phenylalanine in vivo: implication of peroxyxynitrite formation. <i>Journal of Neurochemistry</i> , 2001 , 78, 509-14	6	31
139	Do human atherosclerotic lesions contain nitrotyrosine?. <i>Biochemical and Biophysical Research Communications</i> , 1996 , 226, 346-51	3.4	31
138	Formation of hydroxyl radicals from NADH and NADPH in the presence of copper salts. <i>Journal of Inorganic Biochemistry</i> , 1985 , 23, 103-8	4.2	31
137	Acute effects of cigarette smoking on insulin resistance and arterial stiffness in young adults. <i>Atherosclerosis</i> , 2012 , 224, 195-200	3.1	30
136	Stochastic drift in mitochondrial DNA point mutations: a novel perspective ex silico. <i>PLoS Computational Biology</i> , 2009 , 5, e1000572	5	30
135	Interference with ubiquitination causes oxidative damage and increased protein nitration: implications for neurodegenerative diseases. <i>Journal of Neurochemistry</i> , 2004 , 90, 422-30	6	30
134	Antioxidant and prooxidant abilities of foods and beverages. <i>Methods in Enzymology</i> , 2001 , 335, 181-90	1.7	30

133	Oxidative damage to lipids and alpha 1-antiproteinase by phenylbutazone in the presence of haem proteins: protection by ascorbic acid. <i>Biochemical Pharmacology</i> , 1992 , 44, 981-4	6	30
132	Liver ergothioneine accumulation in a guinea pig model of non-alcoholic fatty liver disease. A possible mechanism of defence?. <i>Free Radical Research</i> , 2016 , 50, 14-25	4	29
131	High fat diets and pathology in the guinea pig. Atherosclerosis or liver damage?. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2013 , 1832, 355-64	6.9	29
130	Lack of effect of acute oral ingestion of vitamin C on oxidative stress, arterial stiffness or blood pressure in healthy subjects. <i>Free Radical Research</i> , 2008 , 42, 514-22	4	29
129	Lack of tyrosine nitration by hypochlorous acid in the presence of physiological concentrations of nitrite. Implications for the role of nitryl chloride in tyrosine nitration in vivo. <i>Journal of Biological Chemistry</i> , 2003 , 278, 8380-4	5.4	29
128	Tamoxifen inhibits lipid peroxidation in cardiac microsomes. Comparison with liver microsomes and potential relevance to the cardiovascular benefits associated with cancer prevention and treatment by tamoxifen. <i>Biochemical Pharmacology</i> , 1993 , 45, 1851-5	6	29
127	Metabolic stress is a primary pathogenic event in transgenic expressing pan-neuronal human amyloid beta. <i>ELife</i> , 2019 , 8,	8.9	29
126	Catalytic metal ions and the loss of reduced glutathione from University of Wisconsin preservation solution. <i>Transplantation</i> , 1996 , 62, 1046-9	1.8	29
125	Could Ergothioneine Aid in the Treatment of Coronavirus Patients?. <i>Antioxidants</i> , 2020 , 9,	7.1	29
124	Lactacystin-induced apoptosis of cultured mouse cortical neurons is associated with accumulation of PTEN in the detergent-resistant membrane fraction. <i>Cellular and Molecular Life Sciences</i> , 2004 , 61, 1926-34	10.3	28
123	Plasma antioxidants: health benefits of eating chocolate?. <i>Nature</i> , 2003 , 426, 787; discussion 788	50.4	28
122	Does influenza A infection increase oxidative damage?. <i>Antioxidants and Redox Signaling</i> , 2014 , 21, 1025-31	8.1	27
121	Markers of oxidative damage are not elevated in otherwise healthy individuals with the metabolic syndrome. <i>Diabetes Care</i> , 2010 , 33, 1140-2	14.6	27
120	Action of diclofenac on kidney mitochondria and cells. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 348, 494-500	3.4	27
119	The steady-state levels of oxidative DNA damage and of lipid peroxidation (F2-isoprostanes) are not correlated in healthy human subjects. <i>Free Radical Research</i> , 2000 , 32, 355-62	4	27
118	Formation and loss of nitrated proteins in peroxyxynitrite-treated rat skin in vivo. <i>Biochemical and Biophysical Research Communications</i> , 1999 , 262, 781-6	3.4	27
117	Scavenging of hypochlorous acid and of myoglobin-derived oxidants by the cardioprotective agent mercaptopropionylglycine. <i>Free Radical Research Communications</i> , 1990 , 10, 371-81		27
116	Knockout of a putative ergothioneine transporter in <i>Caenorhabditis elegans</i> decreases lifespan and increases susceptibility to oxidative damage. <i>Free Radical Research</i> , 2013 , 47, 1036-45	4	26

115	The Association between Mushroom Consumption and Mild Cognitive Impairment: A Community-Based Cross-Sectional Study in Singapore. <i>Journal of Alzheimer's Disease</i> , 2019 , 68, 197-203	4.3	25
114	A Flexi-PEGDA Upconversion Implant for Wireless Brain Photodynamic Therapy. <i>Advanced Materials</i> , 2020 , 32, e2001459	24	25
113	Functional significance of inducible nitric oxide synthase induction and protein nitration in the thermally injured cutaneous microvasculature. <i>American Journal of Pathology</i> , 2003 , 162, 1373-80	5.8	25
112	Assessment of diets containing curcumin, epigallocatechin-3-gallate, docosahexaenoic acid and lipoic acid on amyloid load and inflammation in a male transgenic mouse model of Alzheimer's disease: Are combinations more effective?. <i>Neurobiology of Disease</i> , 2019 , 124, 505-519	7.5	25
111	Cigarette smoking and health: a radical view. <i>Journal of the Royal Society of Health</i> , 1993 , 113, 91-6		23
110	Promotion of oxidative damage to arachidonic acid and alpha 1-antiproteinase by anti-inflammatory drugs in the presence of the haem proteins myoglobin and cytochrome C. <i>Biochemical Pharmacology</i> , 1994 , 48, 2173-9	6	23
109	Ascorbic Acid and the Illuminated Chloroplast. <i>Advances in Chemistry Series</i> , 1982 , 263-274		23
108	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. <i>World Journal of Gastroenterology</i> , 2003 , 9, 2186-93	5.6	23
107	Potential artifacts in the measurement of DNA deamination. <i>Free Radical Biology and Medicine</i> , 2006 , 40, 1939-48	7.8	22
106	Iron supplementation and oxidative damage to DNA in healthy individuals with high plasma ascorbate. <i>Biochemical and Biophysical Research Communications</i> , 2001 , 288, 245-51	3.4	22
105	Adult respiratory distress syndrome: a radical perspective. <i>Advances in Pharmacology</i> , 1997 , 38, 457-90	5.7	22
104	Hydroxyl radical is a significant player in oxidative DNA damage in vivo. <i>Chemical Society Reviews</i> , 2021 , 50, 8355-8360	58.5	22
103	Clonal expansion of mitochondrial DNA deletions is a private mechanism of aging in long-lived animals. <i>Aging Cell</i> , 2018 , 17, e12814	9.9	21
102	Does iron inhibit calcification during atherosclerosis?. <i>Free Radical Biology and Medicine</i> , 2012 , 53, 1675-9	7.8	21
101	Inhibition of hypochlorous acid-induced oxidative reactions by nitrite: is nitrite an antioxidant?. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 303, 1217-24	3.4	21
100	Caloric restriction prevents oxidative damage induced by the carcinogen clofibrate in mouse liver. <i>FEBS Letters</i> , 2000 , 473, 85-8	3.8	21
99	The antioxidant action of ketoconazole and related azoles: comparison with tamoxifen and cholesterol. <i>Chemico-Biological Interactions</i> , 1991 , 79, 229-43	5	21
98	Effects of Antimalarial Drugs on Neuroinflammation-Potential Use for Treatment of COVID-19-Related Neurologic Complications. <i>Molecular Neurobiology</i> , 2021 , 58, 106-117	6.2	21

97	Is mitochondrial DNA turnover slower than commonly assumed?. <i>Biogerontology</i> , 2012 , 13, 557-64	4.5	20
96	Repression of the mitochondrial peroxiredoxin antioxidant system does not shorten life span but causes reduced fitness in <i>Caenorhabditis elegans</i> . <i>Free Radical Biology and Medicine</i> , 2013 , 63, 381-9	7.8	20
95	Modulation of peroxynitrite- and hypochlorous acid-induced inactivation of alpha1-antiproteinase by mercaptoethylguanidine. <i>British Journal of Pharmacology</i> , 1999 , 126, 1646-52	8.6	20
94	Metal ions catalytic for free radical reactions in the plasma of patients with fulminant hepatic failure. <i>Free Radical Research</i> , 1994 , 20, 139-44	4	20
93	The effects of oxaloacetate on hydrogen peroxide generation from ascorbate and epigallocatechin gallate in cell culture media: potential for altering cell metabolism. <i>Biochemical and Biophysical Research Communications</i> , 2012 , 417, 446-50	3.4	19
92	Limited antioxidant effect after consumption of a single dose of tomato sauce by young males, despite a rise in plasma lycopene. <i>Free Radical Research</i> , 2009 , 43, 622-8	4	19
91	Elevated oxidative stress, iron accumulation around microvessels and increased 4-hydroxynonenal immunostaining in zone 1 of the liver acinus in hypercholesterolemic rabbits. <i>Free Radical Research</i> , 2009 , 43, 241-9	4	19
90	Deciphering the mechanism of HNE-induced apoptosis in cultured murine cortical neurons: transcriptional responses and cellular pathways. <i>Neuropharmacology</i> , 2007 , 53, 687-98	5.5	19
89	Assessment of peroxynitrite scavengers in vitro. <i>Methods in Enzymology</i> , 1999 , 301, 333-42	1.7	19
88	The role of calcium ions and the thioredoxin system in regulation of spinach chloroplast fructosebisphosphatase. <i>Cell Calcium</i> , 1981 , 2, 211-224	4	19
87	Reflections of an aging free radical. <i>Free Radical Biology and Medicine</i> , 2020 , 161, 234-245	7.8	19
86	Does high-dose coenzyme Q10 improve oxidative damage and clinical outcomes in Parkinson's disease?. <i>Antioxidants and Redox Signaling</i> , 2014 , 21, 211-7	8.4	18
85	Comment on hydroxytyrosol induces proliferation and cytoprotection against oxidative injury in vascular endothelial cells: role of Nrf2 activation and HO-1 induction. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 10770-1	5.7	18
84	Droloxifene (3-hydroxytamoxifen) has membrane antioxidant ability: potential relevance to its mechanism of therapeutic action in breast cancer. <i>Cancer Letters</i> , 1992 , 66, 61-8	9.9	18
83	Ergothioneine, recent developments. <i>Redox Biology</i> , 2021 , 42, 101868	11.3	18
82	Sustained expression of heme oxygenase-1 alters iron homeostasis in nonerythroid cells. <i>Free Radical Biology and Medicine</i> , 2012 , 53, 366-74	7.8	17
81	A high-fat and cholesterol diet causes fatty liver in guinea pigs. The role of iron and oxidative damage. <i>Free Radical Research</i> , 2013 , 47, 602-13	4	17
80	Increased iron staining in the cerebral cortex of cholesterol fed rabbits. <i>Mechanisms of Ageing and Development</i> , 2004 , 125, 305-13	5.6	17

79	Protein nitration in cutaneous inflammation in the rat: essential role of inducible nitric oxide synthase and polymorphonuclear leukocytes. <i>British Journal of Pharmacology</i> , 2002 , 136, 985-94	8.6	17
78	Gas chromatography-mass spectrometry analysis of DNA: optimization of protocols for isolation and analysis of DNA from human blood. <i>Methods in Enzymology</i> , 2000 , 319, 401-17	1.7	17
77	Oxidation of dimethylsulphoxide to formaldehyde by oxyhaemoglobin and oxyleghaemoglobin in the presence of hydrogen peroxide is not mediated by "free" hydroxyl radicals. <i>Free Radical Research Communications</i> , 1989 , 5, 277-81		17
76	Oxidation of 2-nitropropane by horseradish peroxidase. Involvement of hydrogen peroxide and of superoxide in the reaction mechanism. <i>Biochemical Journal</i> , 1978 , 175, 601-6	3.8	17
75	The Role of Formate in Photorespiration. <i>Biochemical Society Transactions</i> , 1973 , 1, 1147-1150	5.1	17
74	Psoralea corylifolia L. inhibits mitochondrial complex I and proteasome activities in SH-SY5Y cells. <i>Annals of the New York Academy of Sciences</i> , 2007 , 1100, 486-96	6.5	16
73	Reaction of plant-derived and synthetic antioxidants with trichloromethylperoxyl radicals. <i>Free Radical Research</i> , 1995 , 22, 187-90	4	16
72	Role of direct repeat and stem-loop motifs in mtDNA deletions: cause or coincidence?. <i>PLoS ONE</i> , 2012 , 7, e35271	3.7	16
71	Flavonoids: a re-run of the carotenoids story?. <i>Novartis Foundation Symposium</i> , 2007 , 282, 93-101; discussion 101-4, 212-8		16
70	Specificity of the ergothioneine transporter natively expressed in HeLa cells. <i>Biochemical and Biophysical Research Communications</i> , 2019 , 513, 22-27	3.4	15
69	Notopterygium forbesii boiss extract and its active constituents increase reactive species and heme oxygenase-1 in human fetal hepatocytes: mechanisms of action. <i>Chemical Research in Toxicology</i> , 2008 , 21, 2414-23	4	15
68	Elevated F2-isoprostanes in thalassemic patients. <i>Free Radical Biology and Medicine</i> , 2007 , 43, 1649-55	7.8	15
67	Mechanism of cell death induced by an antioxidant extract of Cratogeomys cochinchinense (YCT) in Jurkat T cells: the role of reactive oxygen species and calcium. <i>Free Radical Biology and Medicine</i> , 2004 , 36, 1588-611	7.8	15
66	The phospholipase A2 inhibitor quinacrine prevents increased immunoreactivity to cytoplasmic phospholipase A2 (cPLA2) and hydroxynonenal (HNE) in neurons of the lateral septum following fimbria-fornix transection. <i>Experimental Brain Research</i> , 2001 , 138, 500-8	2.3	15
65	Effects of desferrioxamine on eicosanoid production in two intact cell systems. <i>Biochemical Pharmacology</i> , 1989 , 38, 189-93	6	14
64	Effect of Ergothioneine on 7-Ketocholesterol-Induced Endothelial Injury. <i>NeuroMolecular Medicine</i> , 2021 , 23, 184-198	4.6	14
63	Inhibition of amyloid-induced toxicity by ergothioneine in a transgenic Caenorhabditis elegans model. <i>FEBS Letters</i> , 2019 , 593, 2139-2150	3.8	13
62	Metabolic signatures of renal cell carcinoma. <i>Biochemical and Biophysical Research Communications</i> , 2015 , 460, 938-43	3.4	13

61	Notopterygium forbesii Boiss extract and its active constituent phenethyl ferulate attenuate pro-inflammatory responses to lipopolysaccharide in RAW 264.7 macrophages. A "protective" role for oxidative stress?. <i>Chemical Research in Toxicology</i> , 2009 , 22, 1473-82	4	13
60	Promotion of atherogenesis by copper or iron--which is more likely?. <i>Biochemical and Biophysical Research Communications</i> , 2007 , 353, 6-10	3.4	12
59	Free Radicals in Biochemistry and Medicine 2006 ,		12
58	Oxidative damage by ozone and nitrogen dioxide: synergistic toxicity in vivo but no evidence of synergistic oxidative damage in an extracellular fluid. <i>Biochemical Society Symposia</i> , 1995 , 61, 139-52		12
57	Antioxidants. <i>Nutrition Today</i> , 1994 , 29, 15-19	1.6	12
56	Identification of a previously undetected metabolic defect in the Complex II Caenorhabditis elegans mev-1 mutant strain using respiratory control analysis. <i>Biogerontology</i> , 2017 , 18, 189-200	4.5	11
55	Mitochondrial DNA Damage Does Not Determine Lifespan. <i>Frontiers in Genetics</i> , 2019 , 10, 311	4.5	11
54	Lifespan and healthspan benefits of exogenous HS in are independent from effects downstream of mutation. <i>Npj Aging and Mechanisms of Disease</i> , 2020 , 6, 6	5.5	11
53	Mechanism of low-density lipoprotein oxidation. <i>Current Opinion in Lipidology</i> , 1993 , 4, 382-384	4.4	11
52	Does radiotherapy increase oxidative stress? A study with nasopharyngeal cancer patients revealing anomalies in isoprostanes measurements. <i>Free Radical Research</i> , 2010 , 44, 1064-71	4	10
51	Generation of the superoxide radical during the peroxidatic oxidation of NADH by catalase at acid pH values. <i>FEBS Letters</i> , 1977 , 80, 291-3	3.8	10
50	Oxidation of thiol compounds by catalase and peroxidase in the presence of manganese(II) and phenols [proceedings]. <i>Biochemical Society Transactions</i> , 1978 , 6, 1343-5	5.1	10
49	The proteobacterial species Burkholderia pseudomallei produces ergothioneine, which enhances virulence in mammalian infection. <i>FASEB Journal</i> , 2018 , 32, fj201800716	0.9	10
48	Approaches for extending human healthspan: from antioxidants to healthspan pharmacology. <i>Essays in Biochemistry</i> , 2017 , 61, 389-399	7.6	9
47	Quantitative gas chromatography mass spectrometric analysis of 2-Deoxyinosine in tissue DNA. <i>Nature Protocols</i> , 2006 , 1, 1995-2002	18.8	9
46	The use of phenylalanine to detect hydroxyl radical production in vivo: a cautionary note. <i>Free Radical Biology and Medicine</i> , 1999 , 27, 1465	7.8	9
45	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. <i>Free Radical Research</i> , 2018 , 52, 907-909	4	8
44	Biomarkers of oxidative damage are elevated among individuals with high cardiovascular risk: refining subject selection strategies for antioxidant trials. <i>Free Radical Research</i> , 2013 , 47, 283-90	4	8

43	Analysis of aromatic nitration, chlorination, and hydroxylation by gas chromatography-mass spectrometry. <i>Methods in Enzymology</i> , 1999 , 301, 471-83	1.7	8
42	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?. <i>Free Radical Biology and Medicine</i> , 1994 , 17, 485-8	7.8	8
41	Variability in APOE genotype status in human-derived cell lines: a cause for concern in cell culture studies?. <i>Genes and Nutrition</i> , 2014 , 9, 364	4.3	7
40	Augmentation of 5-lipoxygenase activity and expression during dengue serotype-2 infection. <i>Virology Journal</i> , 2013 , 10, 322	6.1	7
39	Plasma protein sulfhydryl oxidation: effect of low molecular weight thiols. <i>Methods in Enzymology</i> , 1995 , 251, 448-55	1.7	7
38	Nuclear microscopy measurement of copper in atherosclerosis [Sensitivity and limitations to spatial resolution. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007 , 260, 136-140	1.2	6
37	Nuclear microprobe investigation into the trace elemental contents of carotid artery walls of apolipoprotein E deficient mice. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007 , 260, 240-244 ^{1.2}	1.2	6
36	Are mutagenic non D-loop direct repeat motifs in mitochondrial DNA under a negative selection pressure?. <i>Nucleic Acids Research</i> , 2015 , 43, 4098-108	20.1	5
35	Free Radical Chemistry as Related to Degradative Mechanisms. <i>ACS Symposium Series</i> , 2003 , 10-15	0.4	5
34	Food-Derived Antioxidants 2001 ,		5
33	Effect of the hydrophilic alpha-tocopherol analog MDL 74,405 on detection of hydroxyl radicals in stunned myocardium in dogs. <i>American Heart Journal</i> , 1995 , 130, 940-8	4.9	5
32	Model compounds with superoxide dismutase activity: iron porphyrins and other iron complexes [proceedings]. <i>Biochemical Society Transactions</i> , 1978 , 6, 1342-3	5.1	5
31	Low plasma ergothioneine levels are associated with neurodegeneration and cerebrovascular disease in dementia. <i>Free Radical Biology and Medicine</i> , 2021 , 177, 201-211	7.8	5
30	A novel vibration-induced exercise paradigm improves fitness and lipid metabolism of <i>Caenorhabditis elegans</i> . <i>Scientific Reports</i> , 2018 , 8, 9420	4.9	5
29	Nuclear microscopy: a novel technique for quantitative imaging of gadolinium distribution within tissue sections. <i>Microscopy and Microanalysis</i> , 2009 , 15, 338-44	0.5	4
28	How I became a biochemist. <i>IUBMB Life</i> , 2004 , 56, 569-70	4.7	4
27	Nuclear microscopy of diffuse plaques in the brains of transgenic mice. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005 , 231, 326-332	1.2	4
26	Lipid peroxidation in the postnatal rat brain. Formation of 4-hydroxynonenal in the supraventricular corpus callosum of postnatal rats. <i>Experimental Brain Research</i> , 2001 , 137, 205-13	2.3	4

25	Evaluation of the Antioxidant and Antiviral Actions of Herbal Preparations: Rovital and Carciverin V (C1983). <i>Phytotherapy Research</i> , 1996 , 10, 152-155	6.7	4
24	Antioxidant benefits of tamoxifen therapy for breast cancer?. <i>Breast Cancer Research and Treatment</i> , 1994 , 29, 307	4.4	4
23	Modification of aromatic amino acids by reactive nitrogen species. <i>Biochemical Society Transactions</i> , 1995 , 23, 237S	5.1	4
22	The Antioxidant Vitamins C and E: Packer L, Traber MG, Kramer K and Frei B. (Eds) AOCS Press, Champaign, Illinois, 2002. <i>Free Radical Research</i> , 2003 , 37, 1146	4	3
21	Evaluation of biomolecular damage by ozone. <i>Methods in Enzymology</i> , 1994 , 234, 252-6	1.7	3
20	Effect of oxidized glutathione on the inhibition of glucose-6-phosphate dehydrogenase by NADPH. <i>Biochemical Journal</i> , 1986 , 234, 741	3.8	3
19	Production of the superoxide radical by horseradish peroxidase. <i>Biochemical Society Transactions</i> , 1976 , 4, 73-4	5.1	3
18	Caenorhabditis elegans life span studies: the challenge of maintaining synchronous cohorts. <i>Rejuvenation Research</i> , 2010 , 13, 347-9	2.6	2
17	Maximizing signal-to-noise ratio in the random mutation capture assay. <i>Nucleic Acids Research</i> , 2012 , 40, e35	20.1	2
16	On the reaction of plant ferredoxins with hydrogen peroxide. What reactive oxidants are generated?. <i>Phytochemistry</i> , 1989 , 28, 3265-3270	4	2
15	Vitamin E and the treatment and prevention of diabetes: a case for a controlled clinical trial. <i>Singapore Medical Journal</i> , 2002 , 43, 479-84	1.9	2
14	Making Sense of Neurodegeneration: A Unifying Hypothesis 2019 , 115-120		1
13	An interview with Barry Halliwell. <i>Trends in Pharmacological Sciences</i> , 2013 , 34, 301-2	13.2	1
12	Methods in Biological Oxidative Stress: K. Hensley and R.A. Floyd (Eds), 2003. Humana Press, New Jersey. <i>Free Radical Research</i> , 2003 , 37, 1145	4	1
11	Thermodynamic analysis of mitochondrial DNA breakpoints reveals mechanistic details of deletion mutagenesis		
10	Celebrating the 60th birthday of BBRC. <i>Biochemical and Biophysical Research Communications</i> , 2019 , 520, 677-678	3.4	0
9	Commentary on "Ascorbate kills breast cancer cells by rewiring metabolism via redox imbalance and energy crisis" by Ghanem et al. [Free Radic. Biol. Med. 163 (2021) 196-209]. <i>Free Radical Biology and Medicine</i> , 2021 , 171, 124-125	7.8	0
8	Commentary for "Oxygen free radicals and iron in relation to biology and medicine: Some problems and concepts" .. <i>Archives of Biochemistry and Biophysics</i> , 2022 , 718, 109151	4.1	0

- 7 The National University of Singapore and what it does. *Biointerphases*, **2010**, 5, FA15-8 1.8
- 6 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 4
- 5 The Proteasome: Source and a Target of Oxidative Stress? **2006**, 85-103
- 4 Chair@ Introduction. *Novartis Foundation Symposium*, 1-2
- 3 APPLICATION OF NEW ASSAYS FOR MEASURING FREE RADICAL PRODUCTION TO HUMAN RHEUMATOID PATIENTS **1991**, 846-855
- 2 Photodynamic Therapy: A Flexi-PEGDA Upconversion Implant for Wireless Brain Photodynamic Therapy (Adv. Mater. 29/2020). *Advanced Materials*, **2020**, 32, 2070219 24
- 1 Thermodynamic analysis of DNA hybridization signatures near mitochondrial DNA deletion breakpoints. *IScience*, **2021**, 24, 102138 6.1