

Helmut Sies

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2874026/helmut-sies-publications-by-citations.pdf>

Version: 2024-04-25

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.

596
papers

56,830
citations

119
h-index

218
g-index

629
ext. papers

61,858
ext. citations

5.3
avg, IF

8.38
L-index

#	Paper	IF	Citations
596	Lycopene as the most efficient biological carotenoid singlet oxygen quencher. <i>Archives of Biochemistry and Biophysics</i> , 1989 , 274, 532-8	4.1	1707
595	Oxidative Stress. <i>Annual Review of Biochemistry</i> , 2017 , 86, 715-748	29.1	1332
594	Strategies of antioxidant defense. <i>FEBS Journal</i> , 1993 , 215, 213-9		1280
593	Chemistry of biologically important synthetic organoselenium compounds. <i>Chemical Reviews</i> , 2001 , 101, 2125-79	68.1	1262
592	Glutathione and its role in cellular functions. <i>Free Radical Biology and Medicine</i> , 1999 , 27, 916-21	7.8	1211
591	Oxidative stress: a concept in redox biology and medicine. <i>Redox Biology</i> , 2015 , 4, 180-3	11.3	1127
590	Assay of glutathione, glutathione disulfide, and glutathione mixed disulfides in biological samples. <i>Methods in Enzymology</i> , 1981 , 77, 373-82	1.7	1114
589	Reactive oxygen species (ROS) as pleiotropic physiological signalling agents. <i>Nature Reviews Molecular Cell Biology</i> , 2020 , 21, 363-383	48.7	905
588	Biochemistry of Oxidative Stress. <i>Angewandte Chemie International Edition in English</i> , 1986 , 25, 1058-1071		881
587	Hydrogen peroxide as a central redox signaling molecule in physiological oxidative stress: Oxidative eustress. <i>Redox Biology</i> , 2017 , 11, 613-619	11.3	863
586	(-)-Epicatechin mediates beneficial effects of flavanol-rich cocoa on vascular function in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 1024-9	11.5	813
585	Antioxidant activity of carotenoids. <i>Molecular Aspects of Medicine</i> , 2003 , 24, 345-51	16.7	802
584	Oxidative stress: from basic research to clinical application. <i>American Journal of Medicine</i> , 1991 , 91, 31S-38S		775
583	Vitamins E and C, beta-carotene, and other carotenoids as antioxidants. <i>American Journal of Clinical Nutrition</i> , 1995 , 62, 1315S-1321S	7	702
582	A novel biologically active seleno-organic compound--I. Glutathione peroxidase-like activity in vitro and antioxidant capacity of PZ 51 (Ebselen). <i>Biochemical Pharmacology</i> , 1984 , 33, 3235-9	6	684
581	Sulfur and selenium: the role of oxidation state in protein structure and function. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 4742-58	16.4	606
580	Toxic drug effects associated with oxygen metabolism: redox cycling and lipid peroxidation. <i>Experientia</i> , 1981 , 37, 1233-41		598

579	Antioxidant functions of vitamins. Vitamins E and C, beta-carotene, and other carotenoids. <i>Annals of the New York Academy of Sciences</i> , 1992 , 669, 7-20	6.5	580
578	Bioactivity and protective effects of natural carotenoids. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2005 , 1740, 101-7	6.9	536
577	Lycopene: a biologically important carotenoid for humans?. <i>Archives of Biochemistry and Biophysics</i> , 1996 , 336, 1-9	4.1	529
576	Lycopene is more bioavailable from tomato paste than from fresh tomatoes. <i>American Journal of Clinical Nutrition</i> , 1997 , 66, 116-22	7	526
575	Role of metabolic H ₂ O ₂ generation: redox signaling and oxidative stress. <i>Journal of Biological Chemistry</i> , 2014 , 289, 8735-41	5.4	467
574	Uptake of lycopene and its geometrical isomers is greater from heat-processed than from unprocessed tomato juice in humans. <i>Journal of Nutrition</i> , 1992 , 122, 2161-6	4.1	455
573	Vitamin E in humans: demand and delivery. <i>Annual Review of Nutrition</i> , 1996 , 16, 321-47	9.9	384
572	Glutathione peroxidase protects against peroxynitrite-mediated oxidations. A new function for selenoproteins as peroxynitrite reductase. <i>Journal of Biological Chemistry</i> , 1997 , 272, 27812-7	5.4	368
571	Nutritional, dietary and postprandial oxidative stress. <i>Journal of Nutrition</i> , 2005 , 135, 969-72	4.1	367
570	The Redox Code. <i>Antioxidants and Redox Signaling</i> , 2015 , 23, 734-46	8.4	354
569	Ebselen, a selenoorganic compound as glutathione peroxidase mimic. <i>Free Radical Biology and Medicine</i> , 1993 , 14, 313-23	7.8	353
568	Ultraviolet-B irradiation and matrix metalloproteinases: from induction via signaling to initial events. <i>Annals of the New York Academy of Sciences</i> , 2002 , 973, 31-43	6.5	347
567	cis-trans isomers of lycopene and beta-carotene in human serum and tissues. <i>Archives of Biochemistry and Biophysics</i> , 1992 , 294, 173-7	4.1	339
566	Protection against reactive oxygen species by selenoproteins. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2009 , 1790, 1478-85	4	332
565	Vascular effects of cocoa rich in flavan-3-ols. <i>JAMA - Journal of the American Medical Association</i> , 2003 , 290, 1030-1	27.4	332
564	Identification and quantitation of glutathione in hepatic protein mixed disulfides and its relationship to glutathione disulfide. <i>Biochemical Pharmacology</i> , 1983 , 32, 2529-34	6	329
563	Oxidative Stress: Introductory Remarks 1985 , 1-8		314
562	Oxidative stress: damage to intact cells and organs. <i>Philosophical Transactions of the Royal Society of London Series B, Biological Sciences</i> , 1985 , 311, 617-31		292

561	Acute consumption of flavanol-rich cocoa and the reversal of endothelial dysfunction in smokers. <i>Journal of the American College of Cardiology</i> , 2005 , 46, 1276-83	15.1	289
560	The protection by ascorbate and glutathione against microsomal lipid peroxidation is dependent on vitamin E. <i>FEBS Journal</i> , 1988 , 174, 353-7		283
559	Formation of 8-hydroxy(deoxy)guanosine and generation of strand breaks at guanine residues in DNA by singlet oxygen. <i>Biochemistry</i> , 1991 , 30, 6283-9	3.2	276
558	Mono-O-methylated flavanols and other flavonoids as inhibitors of endothelial NADPH oxidase. <i>Archives of Biochemistry and Biophysics</i> , 2008 , 469, 209-19	4.1	273
557	Singlet oxygen mediates the UVA-induced generation of the photoaging-associated mitochondrial common deletion. <i>Journal of Biological Chemistry</i> , 1999 , 274, 15345-9	5.4	273
556	The biological relevance of direct antioxidant effects of polyphenols for cardiovascular health in humans is not established. <i>Journal of Nutrition</i> , 2011 , 141, 989S-1009S	4.1	272
555	Reversible conversion of nitroxyl anion to nitric oxide by superoxide dismutase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991 , 88, 10860-4	11.5	263
554	The role of H ₂ O ₂ generation in perfused rat liver and the reaction of catalase compound I and hydrogen donors. <i>Archives of Biochemistry and Biophysics</i> , 1973 , 154, 117-31	4.1	257
553	Evidence that singlet oxygen-induced human T helper cell apoptosis is the basic mechanism of ultraviolet-A radiation phototherapy. <i>Journal of Experimental Medicine</i> , 1997 , 186, 1763-8	16.6	248
552	Carotenoid mixtures protect multilamellar liposomes against oxidative damage: synergistic effects of lycopene and lutein. <i>FEBS Letters</i> , 1998 , 427, 305-8	3.8	241
551	Inhibition of 15-lipoxygenases by flavonoids: structure-activity relations and mode of action. <i>Biochemical Pharmacology</i> , 2003 , 65, 773-81	6	241
550	Hydroperoxide-metabolizing systems in rat liver. <i>FEBS Journal</i> , 1975 , 57, 503-12		240
549	Carotenoids and carotenoids plus vitamin E protect against ultraviolet light-induced erythema in humans. <i>American Journal of Clinical Nutrition</i> , 2000 , 71, 795-8	7	238
548	Protection against peroxynitrite. <i>FEBS Letters</i> , 1999 , 445, 226-30	3.8	238
547	Nutritional protection against skin damage from sunlight. <i>Annual Review of Nutrition</i> , 2004 , 24, 173-200	9.9	229
546	Vitamins E and C are safe across a broad range of intakes. <i>American Journal of Clinical Nutrition</i> , 2005 , 81, 736-45	7	219
545	Oxidation in the NADP system and release of GSSG from hemoglobin-free perfused rat liver during peroxidatic oxidation of glutathione by hydroperoxides. <i>FEBS Letters</i> , 1972 , 27, 171-175	3.8	219
544	Ebselen: prospective therapy for cerebral ischaemia. <i>Expert Opinion on Investigational Drugs</i> , 2000 , 9, 607-19	5.9	218

543	The biochemistry of selenium and the glutathione system. <i>Environmental Toxicology and Pharmacology</i> , 2001 , 10, 153-8	5.8	217
542	Plasma antioxidants and longevity: a study on healthy centenarians. <i>Free Radical Biology and Medicine</i> , 2000 , 28, 1243-8	7.8	212
541	Carotenoids, tocopherols and thiols as biological singlet molecular oxygen quenchers. <i>Biochemical Society Transactions</i> , 1990 , 18, 1054-6	5.1	212
540	Selenium, oxidative stress, and health aspects. <i>Molecular Aspects of Medicine</i> , 2005 , 26, 256-67	16.7	202
539	Role of copper, zinc, selenium and tellurium in the cellular defense against oxidative and nitrosative stress. <i>Journal of Nutrition</i> , 2003 , 133, 1448S-51S	4.1	198
538	The use of perfusion of liver and other organs for the study of microsomal electron-transport and cytochrome P-450 systems. <i>Methods in Enzymology</i> , 1978 , 52, 48-59	1.7	196
537	How do dietary flavanols improve vascular function? A position paper. <i>Archives of Biochemistry and Biophysics</i> , 2008 , 476, 102-6	4.1	195
536	Singlet oxygen induced DNA damage. <i>Mutation Research - DNAGing</i> , 1992 , 275, 367-75		191
535	Increased biliary glutathione disulfide release in chronically ethanol-treated rats. <i>FEBS Letters</i> , 1979 , 103, 287-90	3.8	190
534	Cranberries and their bioactive constituents in human health. <i>Advances in Nutrition</i> , 2013 , 4, 618-32	10	187
533	Activation of transcription factor AP-2 mediates UVA radiation- and singlet oxygen-induced expression of the human intercellular adhesion molecule 1 gene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996 , 93, 14586-91	11.5	185
532	Oxidation of glutathione by the superoxide radical to the disulfide and the sulfonate yielding singlet oxygen. <i>FEBS Journal</i> , 1983 , 137, 29-36		184
531	Total antioxidant capacity: appraisal of a concept. <i>Journal of Nutrition</i> , 2007 , 137, 1493-5	4.1	183
530	Central role of Ferrous/Ferric iron in the ultraviolet B irradiation-mediated signaling pathway leading to increased interstitial collagenase (matrix-degrading metalloprotease (MMP)-1) and stromelysin-1 (MMP-3) mRNA levels in cultured human dermal fibroblasts. <i>Journal of Biological Chemistry</i> , 1998 , 273, 5273-87	5.4	177
529	Spontaneous mutagenesis and oxidative damage to DNA in <i>Salmonella typhimurium</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1987 , 84, 8917-21	11.5	177
528	Low-level chemiluminescence as an indicator of singlet molecular oxygen in biological systems. <i>Methods in Enzymology</i> , 1984 , 105, 221-31	1.7	177
527	Mitogen-activated protein kinase (p38-, JNK-, ERK-) activation pattern induced by extracellular and intracellular singlet oxygen and UVA. <i>FEBS Journal</i> , 1999 , 260, 917-22		176
526	Hepatic low-level chemiluminescence during redox cycling of menadione and the menadione-glutathione conjugate: relation to glutathione and NAD(P)H:quinone reductase (DT-diaphorase) activity. <i>Archives of Biochemistry and Biophysics</i> , 1983 , 224, 568-78	4.1	175

525	Ebselen as a glutathione peroxidase mimic and as a scavenger of peroxynitrite. <i>Advances in Pharmacology</i> , 1997 , 38, 229-46	5.7	173
524	S-nitrosylation and S-glutathiolation of protein sulfhydryls by S-nitroso glutathione. <i>Archives of Biochemistry and Biophysics</i> , 1999 , 362, 67-78	4.1	172
523	Hepatic mitochondrial and cytosolic glutathione content and the subcellular distribution of GSH-S-transferases. <i>FEBS Letters</i> , 1979 , 97, 138-40	3.8	169
522	Dietary selenium in adjuvant therapy of viral and bacterial infections. <i>Advances in Nutrition</i> , 2015 , 6, 73-82	2.0	168
521	Singlet oxygen may mediate the ultraviolet A-induced synthesis of interstitial collagenase. <i>Journal of Investigative Dermatology</i> , 1995 , 104, 194-8	4.3	168
520	Dietary tomato paste protects against ultraviolet light-induced erythema in humans. <i>Journal of Nutrition</i> , 2001 , 131, 1449-51	4.1	167
519	Quantitative assessment of antioxidant properties of natural colorants and phytochemicals: carotenoids, flavonoids, phenols and indigoids. The role of β -carotene in antioxidant functions. <i>Journal of the Science of Food and Agriculture</i> , 2001 , 81, 559-568	4.3	164
518	Cocoa polyphenols and inflammatory mediators. <i>American Journal of Clinical Nutrition</i> , 2005 , 81, 304S-312S	2.5	163
517	Sustained increase in flow-mediated dilation after daily intake of high-flavanol cocoa drink over 1 week. <i>Journal of Cardiovascular Pharmacology</i> , 2007 , 49, 74-80	3.1	162
516	Supplementation with beta-carotene or a similar amount of mixed carotenoids protects humans from UV-induced erythema. <i>Journal of Nutrition</i> , 2003 , 133, 98-101	4.1	162
515	Reduced and oxidized glutathione efflux from liver. <i>FEBS Letters</i> , 1978 , 86, 89-91	3.8	161
514	The reaction of ebselen with peroxynitrite. <i>Chemical Research in Toxicology</i> , 1996 , 9, 262-7	4	160
513	Chemical depletion of glutathione in vivo. <i>Methods in Enzymology</i> , 1981 , 77, 50-9	1.7	158
512	Polyphenols and health: update and perspectives. <i>Archives of Biochemistry and Biophysics</i> , 2010 , 501, 2-5	4.1	157
511	Preferential Relative Porphyrin Enrichment in Solar Keratoses upon Topical Application of Δ^5 -Aminolevulinic Acid Methyl ester. <i>Photochemistry and Photobiology</i> , 1998 , 68, 218-221	3.6	157
510	Role of reactive oxygen species in biological processes. <i>Klinische Wochenschrift</i> , 1991 , 69, 965-8		157
509	Selective upregulation of inducible nitric oxide synthase (iNOS) by lipopolysaccharide (LPS) and cytokines in microglia: in vitro and in vivo studies. <i>Glia</i> , 2000 , 32, 51-9	9	156
508	Quantification of singlet oxygen generated by thermolysis of 3,3'-(1,4-naphthylene)dipropionate endoperoxide. Monomol and dimol photoemission and the effects of 1,4-diazabicyclo[2.2.2]octane. <i>Journal of the American Chemical Society</i> , 1989 , 111, 2909-2914	16.4	156

507	Macular pigments lutein and zeaxanthin as blue light filters studied in liposomes. <i>Archives of Biochemistry and Biophysics</i> , 2001 , 391, 160-4	4.1	154
506	The early research and development of ebselen. <i>Biochemical Pharmacology</i> , 2013 , 86, 1248-53	6	151
505	β-Carotene and other carotenoids in protection from sunlight. <i>American Journal of Clinical Nutrition</i> , 2012 , 96, 1179S-84S	7	149
504	Supplementation with tomato-based products increases lycopene, phytofluene, and phytoene levels in human serum and protects against UV-light-induced erythema. <i>International Journal for Vitamin and Nutrition Research</i> , 2005 , 75, 54-60	1.7	149
503	State of oxidation-reduction and state of binding in the cytosolic NADH-system as disclosed by equilibration with extracellular lactate-pyruvate in hemoglobin-free perfused rat liver. <i>FEBS Journal</i> , 1972 , 27, 301-17		146
502	Low level chemiluminescence of liver microsomal fractions initiated by tert-butyl hydroperoxide. Relation to microsomal hemoproteins, oxygen dependence, and lipid peroxidation. <i>FEBS Journal</i> , 1982 , 124, 349-56		145
501	Profiles of antioxidants in human plasma. <i>Free Radical Biology and Medicine</i> , 2001 , 30, 456-62	7.8	144
500	Glutathione disulfide (GSSG) efflux from cells and tissues. <i>Methods in Enzymology</i> , 1984 , 105, 445-51	1.7	143
499	Activity of thiols as singlet molecular oxygen quenchers. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1991 , 9, 105-16	6.7	141
498	Kinetic study of the reaction of ebselen with peroxyxynitrite. <i>FEBS Letters</i> , 1996 , 398, 179-82	3.8	139
497	Antioxidant activity of dihydrolipoate against microsomal lipid peroxidation and its dependence on alpha-tocopherol. <i>Lipids and Lipid Metabolism</i> , 1989 , 1001, 256-61		139
496	Stimulation of gap junctional communication: comparison of acyclo-retinoic acid and lycopene. <i>Archives of Biochemistry and Biophysics</i> , 2000 , 373, 271-4	4.1	137
495	A novel biologically active selenoorganic compound--IV. Protective glutathione-dependent effect of PZ 51 (ebselen) against ADP-Fe induced lipid peroxidation in isolated hepatocytes. <i>Biochemical Pharmacology</i> , 1985 , 34, 1185-9	6	133
494	Protection against peroxyxynitrite by cocoa polyphenol oligomers. <i>FEBS Letters</i> , 1999 , 462, 167-70	3.8	132
493	Selenium homeostasis and antioxidant selenoproteins in brain: implications for disorders in the central nervous system. <i>Archives of Biochemistry and Biophysics</i> , 2013 , 536, 152-7	4.1	130
492	Increased frequency of a null-allele for NAD(P)H: quinone oxidoreductase in patients with urological malignancies. <i>Pharmacogenetics and Genomics</i> , 1997 , 7, 235-9		130
491	Physical and chemical scavenging of singlet molecular oxygen by tocopherols. <i>Archives of Biochemistry and Biophysics</i> , 1990 , 277, 101-8	4.1	130
490	Involvement of selenoprotein P in protection of human astrocytes from oxidative damage. <i>Free Radical Biology and Medicine</i> , 2006 , 40, 1513-23	7.8	129

489	Singlet oxygen-induced signaling effects in mammalian cells. <i>Photochemical and Photobiological Sciences</i> , 2003 , 2, 88-94	4.2	129
488	The steady state level of catalase compound I in isolated hemoglobin-free perfused rat liver. <i>FEBS Letters</i> , 1970 , 11, 172-176	3.8	128
487	High selenium intake and increased diabetes risk: experimental evidence for interplay between selenium and carbohydrate metabolism. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2011 , 48, 40-5	3.1	126
486	Flavanol-rich cocoa drink lowers plasma F(2)-isoprostane concentrations in humans. <i>Free Radical Biology and Medicine</i> , 2004 , 37, 411-21	7.8	126
485	(-)-Epicatechin elevates nitric oxide in endothelial cells via inhibition of NADPH oxidase. <i>Biochemical and Biophysical Research Communications</i> , 2007 , 359, 828-33	3.4	125
484	Lycopene-rich products and dietary photoprotection. <i>Photochemical and Photobiological Sciences</i> , 2006 , 5, 238-42	4.2	125
483	Long-term ingestion of high flavanol cocoa provides photoprotection against UV-induced erythema and improves skin condition in women. <i>Journal of Nutrition</i> , 2006 , 136, 1565-9	4.1	125
482	DNA damage by peroxynitrite characterized with DNA repair enzymes. <i>Nucleic Acids Research</i> , 1996 , 24, 4105-10	20.1	125
481	Carotenoids and protection against solar UV radiation. <i>Skin Pharmacology and Physiology</i> , 2002 , 15, 291-6		123
480	Singlet molecular oxygen production in the reaction of peroxynitrite with hydrogen peroxide. <i>FEBS Letters</i> , 1994 , 355, 287-9	3.8	122
479	Biological activities of natural and synthetic carotenoids: induction of gap junctional communication and singlet oxygen quenching. <i>Carcinogenesis</i> , 1997 , 18, 89-92	4.6	121
478	Defenses against peroxynitrite: selenocompounds and flavonoids. <i>Toxicology Letters</i> , 2003 , 140-141, 125-32	4.4	121
477	Lycopene oxidation product enhances gap junctional communication. <i>Food and Chemical Toxicology</i> , 2003 , 41, 1399-407	4.7	119
476	Carotenoids and flavonoids contribute to nutritional protection against skin damage from sunlight. <i>Molecular Biotechnology</i> , 2007 , 37, 26-30	3	117
475	Increase in hepatic mixed disulphide and glutathione disulphide levels elicited by paraquat. <i>Biochemical Pharmacology</i> , 1982 , 31, 1637-41	6	115
474	Astaxanthin, canthaxanthin and beta-carotene differently affect UVA-induced oxidative damage and expression of oxidative stress-responsive enzymes. <i>Experimental Dermatology</i> , 2009 , 18, 222-31	4	113
473	Role of tocopherols in the protection of biological systems against oxidative damage. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1991 , 8, 211-8	6.7	113
472	On the history of oxidative stress: Concept and some aspects of current development. <i>Current Opinion in Toxicology</i> , 2018 , 7, 122-126	4.4	112

471	Protein oxidation in human stratum corneum: susceptibility of keratins to oxidation in vitro and presence of a keratin oxidation gradient in vivo. <i>Journal of Investigative Dermatology</i> , 1999 , 113, 335-9	4.3	112
470	Low vitamin E content in plasma of patients with alcoholic liver disease, hemochromatosis and wilson's disease. <i>Journal of Hepatology</i> , 1994 , 20, 41-46	13.4	112
469	Ebselen prevents early alcohol-induced liver injury in rats. <i>Free Radical Biology and Medicine</i> , 2001 , 30, 403-11	7.8	110
468	Peroxynitrite activates the phosphoinositide 3-kinase/Akt pathway in human skin primary fibroblasts. <i>Biochemical Journal</i> , 2000 , 352, 219-225	3.8	110
467	Attenuation of oxidation and nitration reactions of peroxynitrite by selenomethionine, selenocystine and ebselen. <i>Biochemical Journal</i> , 1996 , 319 (Pt 1), 13-5	3.8	110
466	Singlet oxygen induces collagenase expression in human skin fibroblasts. <i>FEBS Letters</i> , 1993 , 331, 304-6	3.8	110
465	Reactive oxygen species associated with cell differentiation in <i>Neurospora crassa</i> . <i>Free Radical Biology and Medicine</i> , 1993 , 14, 287-93	7.8	109
464	Biochemie des oxidativen Stress. <i>Angewandte Chemie</i> , 1986 , 98, 1061-1075	3.6	108
463	Peroxynitrite signaling: receptor tyrosine kinases and activation of stress-responsive pathways. <i>Free Radical Biology and Medicine</i> , 2002 , 33, 737-43	7.8	107
462	Activation pattern of mitogen-activated protein kinases elicited by peroxynitrite: attenuation by selenite supplementation. <i>FEBS Letters</i> , 1999 , 448, 301-3	3.8	107
461	High fruit and vegetable intake is positively correlated with antioxidant status and cognitive performance in healthy subjects. <i>Journal of Alzheimer's Disease</i> , 2009 , 17, 921-7	4.3	106
460	Interaction of peroxynitrite with selenoproteins and glutathione peroxidase mimics. <i>Free Radical Biology and Medicine</i> , 2000 , 28, 1451-5	7.8	106
459	Singlet oxygen is an early intermediate in cytokine-dependent ultraviolet-A induction of interstitial collagenase in human dermal fibroblasts in vitro. <i>FEBS Letters</i> , 1997 , 413, 239-42	3.8	105
458	Increased dermal carotenoid levels assessed by noninvasive reflection spectrophotometry correlate with serum levels in women ingesting Betatene. <i>Journal of Nutrition</i> , 1998 , 128, 903-7	4.1	105
457	Identification of an abundant S-thiolated rat liver protein as carbonic anhydrase III; characterization of S-thiolation and dethiolation reactions. <i>Archives of Biochemistry and Biophysics</i> , 1991 , 284, 270-8	4.1	105
456	Selenium-containing compounds protect DNA from single-strand breaks caused by peroxynitrite. <i>Archives of Biochemistry and Biophysics</i> , 1996 , 330, 216-8	4.1	104
455	Exocytosis in secretory cells of rat lacrimal gland. Peroxidase release from lobules and isolated cells upon cholinergic stimulation. <i>Journal of Cell Biology</i> , 1976 , 70, 692-706	7.3	104
454	Protein oxidation and proteolysis by the nonradical oxidants singlet oxygen or peroxynitrite. <i>Free Radical Biology and Medicine</i> , 2001 , 30, 1243-53	7.8	101

453	Polyphenols of cocoa: inhibition of mammalian 15-lipoxygenase. <i>Biological Chemistry</i> , 2001 , 382, 1687-96	4.5	101
452	Flavonoids of cocoa inhibit recombinant human 5-lipoxygenase. <i>Journal of Nutrition</i> , 2002 , 132, 1825-9	4.1	100
451	Kinetic study of the reaction of glutathione peroxidase with peroxyxynitrite. <i>Chemical Research in Toxicology</i> , 1998 , 11, 1398-401	4	100
450	Cocoa flavanols lower vascular arginase activity in human endothelial cells in vitro and in erythrocytes in vivo. <i>Archives of Biochemistry and Biophysics</i> , 2008 , 476, 211-5	4.1	98
449	Physical quenching of singlet oxygen and cis-trans isomerization of carotenoids. <i>Annals of the New York Academy of Sciences</i> , 1993 , 691, 10-9	6.5	97
448	Inhibition of superoxide and nitric oxide release and protection from reoxygenation injury by Ebselen in rat Kupffer cells. <i>Hepatology</i> , 1992 , 15, 1112-6	11.2	97
447	Copper ions strongly activate the phosphoinositide-3-kinase/Akt pathway independent of the generation of reactive oxygen species. <i>Archives of Biochemistry and Biophysics</i> , 2002 , 397, 232-9	4.1	96
446	Non-enzymatic triggering of the ceramide signalling cascade by solar UVA radiation. <i>EMBO Journal</i> , 2000 , 19, 5793-800	13	96
445	beta-Cryptoxanthin selectively increases in human chylomicrons upon ingestion of tangerine concentrate rich in beta-cryptoxanthin esters. <i>Archives of Biochemistry and Biophysics</i> , 1995 , 324, 385-90	4.1	96
444	All-trans beta-carotene preferentially accumulates in human chylomicrons and very low density lipoproteins compared with the 9-cis geometrical isomer. <i>Journal of Nutrition</i> , 1995 , 125, 2128-33	4.1	96
443	Enhancement of tumor invasion depends on transdifferentiation of skin fibroblasts mediated by reactive oxygen species. <i>Journal of Cell Science</i> , 2006 , 119, 2727-38	5.3	95
442	Plasma levels of vitamin E and carotenoids are decreased in patients with Nonalcoholic Steatohepatitis (NASH). <i>European Journal of Medical Research</i> , 2011 , 16, 76-8	4.8	94
441	Selenoprotein P expression is controlled through interaction of the coactivator PGC-1alpha with FoxO1a and hepatocyte nuclear factor 4alpha transcription factors. <i>Hepatology</i> , 2008 , 48, 1998-2006	11.2	94
440	Infrared-A radiation-induced matrix metalloproteinase 1 expression is mediated through extracellular signal-regulated kinase 1/2 activation in human dermal fibroblasts. <i>Journal of Investigative Dermatology</i> , 2002 , 119, 1323-9	4.3	94
439	A role of mitochondrial glutathione peroxidase in modulating mitochondrial oxidations in liver. <i>FEBS Journal</i> , 1978 , 84, 377-83		94
438	Xanthophyll esters in human skin. <i>Archives of Biochemistry and Biophysics</i> , 1998 , 355, 271-4	4.1	93
437	Singlet oxygen formation detected by low-level chemiluminescence during enzymatic reduction of prostaglandin G2 to H2. <i>Hoppe-Seyler's Zeitschrift für Physiologische Chemie</i> , 1983 , 364, 519-28		93
436	Glutathione S-conjugate formation from 1-chloro-2,4-dinitrobenzene and biliary S-conjugate excretion in the perfused rat liver. <i>FEBS Journal</i> , 1979 , 96, 441-6		93

435	Oxidative modification and nitration of human low-density lipoproteins by the reaction of hypochlorous acid with nitrite. <i>Archives of Biochemistry and Biophysics</i> , 1997 , 343, 254-9	4.1	92
434	Functional hepatocyte heterogeneity in ammonia metabolism. The intercellular glutamine cycle. <i>Journal of Hepatology</i> , 1985 , 1, 3-14	13.4	92
433	Epidermal growth factor receptor is a common mediator of quinone-induced signaling leading to phosphorylation of connexin-43: role of glutathione and tyrosine phosphatases. <i>Journal of Biological Chemistry</i> , 2003 , 278, 38360-7	5.4	91
432	Competition between transport of glutathione disulfide (GSSG) and glutathione S-conjugates from perfused rat liver into bile. <i>FEBS Letters</i> , 1982 , 140, 73-6	3.8	91
431	Hepatic role in pH regulation: role of the intercellular glutamine cycle. <i>Trends in Biochemical Sciences</i> , 1984 , 9, 300-302	10.3	90
430	Selenoprotein P protects endothelial cells from oxidative damage by stimulation of glutathione peroxidase expression and activity. <i>Free Radical Research</i> , 2006 , 40, 936-43	4	89
429	Quantification of the alpha- and gamma-tocopherol metabolites 2,5,7,8-tetramethyl-2-(2'-carboxyethyl)-6-hydroxychroman and 2,7,8-trimethyl-2-(2'-carboxyethyl)-6-hydroxychroman in human serum. <i>Analytical Biochemistry</i> , 1999 , 275, 254-9	3.1	89
428	Visible-range low-level chemiluminescence in biological systems. <i>Methods in Enzymology</i> , 1990 , 186, 595-610	1.0	89
427	Heme occupancy of catalase in hemoglobin-free perfused rat liver and of isolated rat liver catalase. <i>Archives of Biochemistry and Biophysics</i> , 1973 , 154, 106-16	4.1	89
426	Plasma antioxidant status, immunoglobulin g oxidation and lipid peroxidation in demented patients: relevance to Alzheimer disease and vascular dementia. <i>Dementia and Geriatric Cognitive Disorders</i> , 2004 , 18, 265-70	2.6	88
425	Photoprotection by dietary carotenoids: concept, mechanisms, evidence and future development. <i>Molecular Nutrition and Food Research</i> , 2012 , 56, 287-95	5.9	87
424	Oxidative stress: excited oxygen species and enzyme activity. <i>Advances in Enzyme Regulation</i> , 1985 , 23, 217-37		86
423	Hepatic glutamine metabolism under the influence of the portal ammonia concentration in the perfused rat liver. <i>FEBS Journal</i> , 1979 , 101, 179-84		86
422	Low-level chemiluminescence of isolated hepatocytes. <i>FEBS Journal</i> , 1981 , 119, 531-6		85
421	Glutathione efflux from perfused rat liver after phenobarbital treatment, during drug oxidations, and in selenium deficiency. <i>FEBS Journal</i> , 1978 , 89, 113-8		85
420	Plasma carotenoid and malondialdehyde levels in ischemic stroke patients: relationship to early outcome. <i>Free Radical Research</i> , 2002 , 36, 265-8	4	84
419	Interaction of peroxynitrite with carotenoids in human low density lipoproteins. <i>Archives of Biochemistry and Biophysics</i> , 2000 , 373, 302-5	4.1	84
418	Effect of oxygen concentration on the reaction of halothane with cytochrome P450 in liver microsomes and isolated perfused rat liver. <i>Biochemical Pharmacology</i> , 1978 , 27, 387-92	6	84

417	Selenoprotein P protects low-density lipoprotein against oxidation. <i>Free Radical Research</i> , 2004 , 38, 123-8		83
416	Activation of pyruvate dehydrogenase during metabolism of ammonium ions in hemoglobin-free perfused rat liver. <i>FEBS Journal</i> , 1975 , 52, 421-31		82
415	Opposite roles of selenium-dependent glutathione peroxidase-1 in superoxide generator diquat- and peroxynitrite-induced apoptosis and signaling. <i>Journal of Biological Chemistry</i> , 2001 , 276, 43004-9	5.4	81
414	Damage to plasmid DNA by singlet oxygen and its protection. <i>Mutation Research - Genetic Toxicology Testing and Biomonitoring of Environmental Or Occupational Exposure</i> , 1993 , 299, 183-91		81
413	Consumption of flavanol-rich cocoa acutely increases microcirculation in human skin. <i>European Journal of Nutrition</i> , 2007 , 46, 53-6	5.2	80
412	Peroxynitrite does not decompose to singlet oxygen ((1)Delta (g)O(2)) and nitroxyl (NO(-)). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 10307-12	11.5	80
411	Epicatechin selectively prevents nitration but not oxidation reactions of peroxynitrite. <i>Biochemical and Biophysical Research Communications</i> , 2001 , 285, 782-7	3.4	80
410	The lag phase. <i>Free Radical Research</i> , 1998 , 28, 601-9	4	80
409	Cigarette smoking cessation increases plasma levels of several antioxidant micronutrients and improves resistance towards oxidative challenge. <i>British Journal of Nutrition</i> , 2003 , 90, 147-50	3.6	79
408	Role of plasma membrane transport in hepatic glutamine metabolism. <i>FEBS Journal</i> , 1985 , 152, 597-603		79
407	Assessment of the kidney function in maintenance of plasma glutathione concentration and redox state in anaesthetized rats. <i>FEBS Letters</i> , 1979 , 108, 335-40	3.8	79
406	Singlet oxygen mediates the activation of JNK by UVA radiation in human skin fibroblasts. <i>FEBS Letters</i> , 1997 , 408, 289-91	3.8	77
405	Potential therapeutic use of ebselen for COVID-19 and other respiratory viral infections. <i>Free Radical Biology and Medicine</i> , 2020 , 156, 107-112	7.8	76
404	Vitamin E improves the aminotransferase status of patients suffering from viral hepatitis C: a randomized, double-blind, placebo-controlled study. <i>Free Radical Research</i> , 1997 , 27, 599-605	4	76
403	Plasma lipophilic antioxidants and malondialdehyde in congestive heart failure patients: relationship to disease severity. <i>Free Radical Biology and Medicine</i> , 2002 , 32, 148-52	7.8	76
402	Incorporation of carotenoids from paprika oleoresin into human chylomicrons. <i>British Journal of Nutrition</i> , 2003 , 89, 787-93	3.6	76
401	Loss of alpha-tocopherol upon exposure to nitric oxide or the sydnonimine SIN-1. <i>FEBS Letters</i> , 1993 , 315, 139-42	3.8	76
400	Myeloperoxidase/nitrite-mediated lipid peroxidation of low-density lipoprotein as modulated by flavonoids. <i>FEBS Letters</i> , 2003 , 537, 146-50	3.8	75

399	Carotenoids and UV protection. <i>Photochemical and Photobiological Sciences</i> , 2004 , 3, 749-52	4.2	75
398	Induction of gap junctional communication by 4-oxoretinoic acid generated from its precursor canthaxanthin. <i>Archives of Biochemistry and Biophysics</i> , 1995 , 317, 423-8	4.1	75
397	Mitochondrial and cytosolic NADPH systems and isocitrate dehydrogenase indicator metabolites during ureogenesis from ammonia in isolated rat hepatocytes. <i>FEBS Journal</i> , 1977 , 72, 301-7		75
396	Epigallocatechin gallate-induced modulation of FoxO signaling in mammalian cells and <i>C. elegans</i> : FoxO stimulation is masked via PI3K/Akt activation by hydrogen peroxide formed in cell culture. <i>Archives of Biochemistry and Biophysics</i> , 2010 , 501, 58-64	4.1	74
395	Function of thioredoxin reductase as a peroxynitrite reductase using selenocystine or ebselen. <i>Chemical Research in Toxicology</i> , 1999 , 12, 264-9	4	74
394	Human serum concentrations of all-trans beta- and alpha-carotene but not 9-cis beta-carotene increase upon ingestion of a natural isomer mixture obtained from <i>Dunaliella salina</i> (Betatene). <i>Journal of Nutrition</i> , 1993 , 123, 847-51	4.1	74
393	Inactivation of viruses by chemically and photochemically generated singlet molecular oxygen. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1995 , 30, 63-70	6.7	74
392	Interaction of a glutathione S-conjugate with glutathione reductase. Kinetic and X-ray crystallographic studies. <i>FEBS Journal</i> , 1984 , 138, 373-8		74
391	Evaluation of sulfur, selenium and tellurium catalysts with antioxidant potential. <i>Organic and Biomolecular Chemistry</i> , 2003 , 1, 4317-22	3.9	73
390	Adjunctive daily supplementation with encapsulated fruit, vegetable and berry juice powder concentrates and clinical periodontal outcomes: a double-blind RCT. <i>Journal of Clinical Periodontology</i> , 2012 , 39, 62-72	7.7	72
389	Plasma levels of lipophilic antioxidants in very old patients with type 2 diabetes. <i>Diabetes/Metabolism Research and Reviews</i> , 2000 , 16, 15-9	7.5	72
388	Naphthalene endoperoxides as generators of singlet oxygen in biological media. <i>Methods in Enzymology</i> , 2000 , 319, 3-20	1.7	72
387	The disposition of formaldehyde and formate arising from drug N-demethylations dependent on cytochrome P-450 in hepatocytes and in perfused rat liver. <i>FEBS Journal</i> , 1978 , 89, 143-50		72
386	Analysis of lipophilic antioxidants in human serum and tissues: tocopherols and carotenoids. <i>Journal of Chromatography A</i> , 2001 , 936, 83-93	4.5	71
385	Divergent optimum levels of lycopene, beta-carotene and lutein protecting against UVB irradiation in human fibroblastst. <i>Photochemistry and Photobiology</i> , 2002 , 75, 503-6	3.6	71
384	Schwefel und Selen: Bedeutung der Oxidationsstufe ffl.Struktur und Funktion von Proteinen. <i>Angewandte Chemie</i> , 2003 , 115, 4890-4907	3.6	70
383	Supranutritional selenium induces alterations in molecular targets related to energy metabolism in skeletal muscle and visceral adipose tissue of pigs. <i>Journal of Inorganic Biochemistry</i> , 2012 , 114, 47-54	4.2	67
382	Water-soluble organotellurium compounds: catalytic protection against peroxynitrite and release of zinc from metallothionein. <i>Chemical Research in Toxicology</i> , 2000 , 13, 3-9	4	67

381	Optimum porphyrin accumulation in epithelial skin tumours and psoriatic lesions after topical application of delta-aminolaevulinic acid. <i>British Journal of Cancer</i> , 1999 , 79, 1603-8	8.7	67
380	Cocoa-related flavonoids inhibit CFTR-mediated chloride transport across T84 human colon epithelia. <i>Journal of Nutrition</i> , 2005 , 135, 2320-5	4.1	65
379	Reduction of methionine selenoxide to selenomethionine by glutathione. <i>Archives of Biochemistry and Biophysics</i> , 1998 , 349, 201-3	4.1	65
378	A novel biologically active selenoorganic compound--VII. Biotransformation of ebselen in perfused rat liver. <i>Biochemical Pharmacology</i> , 1988 , 37, 1103-9	6	65
377	Protection by organotellurium compounds against peroxyxynitrite-mediated oxidation and nitration reactions. <i>Biochemical Pharmacology</i> , 1998 , 55, 817-23	6	62
376	Antioxidant depletion in aortic crossclamping ischemia: increase of the plasma alpha-tocopheryl quinone/alpha-tocopherol ratio. <i>Free Radical Biology and Medicine</i> , 1992 , 13, 95-100	7.8	62
375	Distinct temporal relation among oxygen uptake, malondialdehyde formation, and low-level chemiluminescence during microsomal lipid peroxidation. <i>Archives of Biochemistry and Biophysics</i> , 1987 , 252, 284-91	4.1	62
374	Functions of intracellular glutathione in hepatic hydroperoxide and drug metabolism and the role of extracellular glutathione. <i>Advances in Enzyme Regulation</i> , 1980 , 18, 303-20		62
373	Glutathione levels in human lens: regional distribution in different forms of cataract. <i>Experimental Eye Research</i> , 1990 , 50, 17-20	3.7	61
372	Interaction of mixed function oxidase with its substrates and associated redox transitions of cytochrome P-450 and pyridine nucleotides in perfused rat liver. <i>FEBS Journal</i> , 1970 , 15, 531-40		61
371	Toward understanding success and failures in the use of selenium for cancer prevention. <i>Antioxidants and Redox Signaling</i> , 2013 , 19, 181-91	8.4	60
370	Cocoa extract protects against early alcohol-induced liver injury in the rat. <i>Archives of Biochemistry and Biophysics</i> , 2002 , 406, 40-6	4.1	60
369	Association of NAD(P)H:quinone oxidoreductase (NQO1) null with numbers of basal cell carcinomas: use of a multivariate model to rank the relative importance of this polymorphism and those at other relevant loci. <i>Carcinogenesis</i> , 1999 , 20, 1235-40	4.6	60
368	Protein S-thiolation and regulation of microsomal glutathione transferase activity by the glutathione redox couple. <i>Archives of Biochemistry and Biophysics</i> , 1996 , 332, 288-94	4.1	60
367	Prevention of singlet oxygen-induced DNA damage by lipoate. <i>Chemico-Biological Interactions</i> , 1993 , 86, 79-92	5	60
366	Critical role of L-arginine in endothelial cell survival during oxidative stress. <i>Circulation</i> , 2003 , 107, 2607-16	7	59
365	Oxygen gradients during hypoxic steady states in liver. Urate oxidase and cytochrome oxidase as intracellular O ₂ indicators. <i>Hoppe-Seyler's Zeitschrift für Physiologische Chemie</i> , 1977 , 358, 1021-32		59
364	Protein modification elicited by oxidized low-density lipoprotein (LDL) in endothelial cells: protection by (-)-epicatechin. <i>Free Radical Biology and Medicine</i> , 2007 , 42, 955-70	7.8	57

363	Effect of age and ambient temperature on n-pentane production in adult housefly, <i>Musca domestica</i> . <i>Mechanisms of Ageing and Development</i> , 1985 , 29, 317-26	5.6	57
362	Anticoccidial and antiinflammatory activity of garlic in murine <i>Eimeria papillata</i> infections. <i>Veterinary Parasitology</i> , 2011 , 175, 66-72	2.8	56
361	Synthetic carotenoids, novel polyene polyketones and new capsorubin isomers as efficient quenchers of singlet molecular oxygen. <i>Photochemistry and Photobiology</i> , 1992 , 55, 511-4	3.6	56
360	Phosphorylase and creatine kinase modification by thiol-disulfide exchange and by xanthine oxidase-initiated S-thiolation. <i>Archives of Biochemistry and Biophysics</i> , 1990 , 276, 355-63	4.1	56
359	Towards identifying novel anti- <i>Eimeria</i> agents: trace elements, vitamins, and plant-based natural products. <i>Parasitology Research</i> , 2014 , 113, 3547-56	2.4	55
358	Induction of gap junctional intercellular communication by vitamin D in human skin fibroblasts is dependent on the nuclear vitamin D receptor. <i>Carcinogenesis</i> , 1996 , 17, 1389-91	4.6	55
357	Effects of carotenoids and retinoids on gap junctional communication. <i>BioFactors</i> , 2001 , 15, 95-8	6.1	55
356	Interaction of the pyridoindole stobadine with peroxy, superoxide and chromanoxyl radicals. <i>Biochemical Pharmacology</i> , 1993 , 45, 393-400	6	55
355	Hepatic calcium efflux during cytochrome P-450-dependent drug oxidations at the endoplasmic reticulum in intact liver. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1981 , 78, 3358-62	11.5	55
354	Biochemistry of the peroxisome in the liver cell. <i>Angewandte Chemie International Edition in English</i> , 1974 , 13, 706-18		55
353	2-Methyl-1,4-naphthoquinone, vitamin K(3), decreases gap-junctional intercellular communication via activation of the epidermal growth factor receptor/extracellular signal-regulated kinase cascade. <i>Cancer Research</i> , 2002 , 62, 4922-8	10.1	55
352	Even after UVA-exposure will nitric oxide protect cells from reactive oxygen intermediate-mediated apoptosis and necrosis. <i>Cell Death and Differentiation</i> , 2001 , 8, 515-27	12.7	54
351	Antioxidant activity of the pyridoindole stobadine. Pulse radiolytic characterization of one-electron-oxidized stobadine and quenching of singlet molecular oxygen. <i>Chemical Research in Toxicology</i> , 1992 , 5, 355-60	4	54
350	Modifications of glyceraldehyde-3-phosphate dehydrogenase induced by increasing concentrations of peroxynitrite: early recognition by 20S proteasome. <i>Biological Chemistry</i> , 2003 , 384, 237-41	4.5	53
349	Dietary habits are major determinants of the plasma antioxidant status in healthy elderly subjects. <i>British Journal of Nutrition</i> , 2005 , 94, 639-42	3.6	53
348	Comparing nitrosative versus oxidative stress toward zinc finger-dependent transcription. Unique role for NO. <i>Journal of Biological Chemistry</i> , 2002 , 277, 13294-301	5.4	53
347	Loss of transforming activity of plasmid DNA (pBR322) in <i>E. coli</i> caused by singlet molecular oxygen. <i>FEBS Letters</i> , 1987 , 211, 49-52	3.8	53
346	Antioxidant effect of diethyldithiocarbamate on microsomal lipid peroxidation assessed by low-level chemiluminescence and alkane production. <i>FEBS Letters</i> , 1983 , 164, 371-4	3.8	53

- 345 Oxygen dependence and subcellular partitioning of hepatic menadione-mediated oxygen uptake. Studies with isolated hepatocytes, mitochondria, and microsomes from rat liver in an oxystat system. *Archives of Biochemistry and Biophysics*, **1985**, 243, 556-62 4.1 53
- 344 Modulation of FoxO signaling in human hepatoma cells by exposure to copper or zinc ions. *Archives of Biochemistry and Biophysics*, **2006**, 454, 107-13 4.1 52
- 343 Amphiphilic properties of (-)-epicatechin and their significance for protection of cells against peroxynitrite. *Biochemical and Biophysical Research Communications*, **2003**, 307, 69-73 3.4 52
- 342 Efficacy of all-trans-beta-carotene, canthaxanthin, and all-trans-, 9-cis-, and 4-oxoretinoic acids in inducing differentiation of an F9 embryonal carcinoma RAR beta-lacZ reporter cell line. *Archives of Biochemistry and Biophysics*, **1995**, 316, 665-72 4.1 52
- 341 Selective para hydroxylation of phenol and aniline by singlet molecular oxygen. *Chemical Research in Toxicology*, **1993**, 6, 548-53 4 51
- 340 Tetramethyl-Ortho-quinodimethane, First Member of a Family of Custom-Tailored Cheletropic Spin Traps for Nitric Oxide. *Angewandte Chemie International Edition in English*, **1992**, 31, 891-893 51
- 339 Transport of glutathione, glutathione disulfide, and glutathione conjugates across the hepatocyte plasma membrane. *Methods in Enzymology*, **1989**, 173, 523-34 1.7 51
- 338 Fruit Juice Carotenol Fatty Acid Esters and Carotenoids As Identified by Matrix-Assisted Laser Desorption Ionization (MALDI) Mass Spectrometry. *Journal of Agricultural and Food Chemistry*, **1996**, 44, 2006-2013 5.7 50
- 337 Mitochondrial nicotinamide nucleotide systems: ammonium chloride responses and associated metabolic transitions in hemoglobin-free perfused rat liver. *Biological Chemistry*, **1974**, 355, 305-20 4.5 50
- 336 Epicatechin protects endothelial cells against oxidized LDL and maintains NO synthase. *Biochemical and Biophysical Research Communications*, **2005**, 331, 1277-83 3.4 49
- 335 Endothelial function, nitric oxide, and cocoa flavanols. *Journal of Cardiovascular Pharmacology*, **2006**, 47 Suppl 2, S128-35; discussion S172-6 3.1 49
- 334 Reactions of peroxynitrite with cocoa procyanidin oligomers. *Journal of Nutrition*, **2000**, 130, 2100S-4S 4.1 49
- 333 Ultraviolet B wavelength dependence for the regulation of two major matrix-metalloproteinases and their inhibitor TIMP-1 in human dermal fibroblasts. *Photochemistry and Photobiology*, **1996**, 64, 877-85^{3,6} 49
- 332 Ultraviolet B wavelength dependence for the regulation of two major matrix-metalloproteinases and their inhibitor TIMP-1 in human dermal fibroblasts. *Photochemistry and Photobiology*, **1996**, 64, 649-57^{3,6} 49
- 331 Interaction of ebselen with glutathione S-transferase and papain in vitro. *Biochemical Pharmacology*, **1994**, 47, 1007-12 6 49
- 330 Hydroperoxides and Thiol Oxidants in the Study of Oxidative Stress in Intact Cells and Organs **1985**, 73-90 49
- 329 Mutagenicity of nitroxide-free radicals. *Archives of Biochemistry and Biophysics*, **1986**, 251, 393-6 4.1 49
- 328 Oxidative Stress: Concept and Some Practical Aspects. *Antioxidants*, **2020**, 9, 7.1 49

327	Nitrite, a naturally occurring precursor of nitric oxide that acts like a 'prodrug'. <i>Biological Chemistry</i> , 2006 , 387, 499-506	4.5	48
326	UVA-mediated downregulation of MMP-2 and MMP-9 in human epidermal keratinocytes. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 308, 486-91	3.4	48
325	The use of total antioxidant capacity as surrogate marker for food quality and its effect on health is to be discouraged. <i>Nutrition</i> , 2014 , 30, 791-3	4.8	47
324	Screening pharmaceutical preparations containing extracts of turmeric rhizome, artichoke leaf, devil's claw root and garlic or salmon oil for antioxidant capacity. <i>Journal of Pharmacy and Pharmacology</i> , 2003 , 55, 981-6	4.8	47
323	Ebselen: a glutathione peroxidase mimic. <i>Methods in Enzymology</i> , 1994 , 234, 476-82	1.7	47
322	Hepatic lipoate uptake. <i>Archives of Biochemistry and Biophysics</i> , 1989 , 273, 389-95	4.1	47
321	Singlet Oxygen Quenching Abilities of Carotenoids. <i>Liebigs Annalen</i> , 1997 , 1997, 1887-1893		46
320	Nitric oxide-mediated inhibition of androgen receptor activity: possible implications for prostate cancer progression. <i>Oncogene</i> , 2007 , 26, 1875-84	9.2	46
319	Peroxynitrite activates the phosphoinositide 3-kinase/Akt pathway in human skin primary fibroblasts. <i>Biochemical Journal</i> , 2000 , 352, 219	3.8	46
318	Binding of selenoprotein P to heparin: characterization with surface plasmon resonance. <i>Biological Chemistry</i> , 2000 , 381, 265-8	4.5	46
317	Transport of ebselen in plasma and its transfer to binding sites in the hepatocyte. <i>Biochemical Pharmacology</i> , 1994 , 48, 1137-44	6	46
316	Protection by glutathione and other thiol compounds against the loss of protein thiols and tocopherol homologs during microsomal lipid peroxidation. <i>FEBS Journal</i> , 1992 , 210, 139-46		46
315	Drug oxidations dependent on cytochrome P-450 in isolated hepatocytes. The role of the tricarboxylates and the aminotransferases in NADPH supply. <i>FEBS Journal</i> , 1977 , 77, 401-8		46
314	Responses to peroxynitrite in yeast: glyceraldehyde-3-phosphate dehydrogenase (GAPDH) as a sensitive intracellular target for nitration and enhancement of chaperone expression and ubiquitination. <i>Biological Chemistry</i> , 2000 , 381, 121-6	4.5	45
313	Human fibroblasts release low amounts of reactive oxygen species in response to the potent phagocyte stimulants, serum-treated zymosan, N-formyl-methionyl-leucyl-phenylalanine, leukotriene B4 or 12-O-tetradecanoylphorbol 13-acetate. <i>Biological Chemistry Hoppe-Seyler</i> , 1990 , 371, 1021-5		45
312	Contribution of UVB and UVA to UV-dependent stimulation of cyclooxygenase-2 expression in artificial epidermis. <i>Photochemical and Photobiological Sciences</i> , 2004 , 3, 257-62	4.2	44
311	Thioredoxin secreted upon ultraviolet A irradiation modulates activities of matrix metalloproteinase-2 and tissue inhibitor of metalloproteinase-2 in human dermal fibroblasts. <i>Archives of Biochemistry and Biophysics</i> , 2004 , 423, 218-26	4.1	44
310	Xanthine oxidase is not responsible for reoxygenation injury in isolated-perfused rat heart. <i>Free Radical Research Communications</i> , 1987 , 3, 69-78		44

309	Energy-linked cardiac transport system for glutathione disulfide. <i>FEBS Letters</i> , 1986 , 200, 128-32	3.8	44
308	Oxene donors yield low-level chemiluminescence with microsomes and isolated cytochrome P-450. <i>FEBS Journal</i> , 1983 , 130, 117-21		43
307	[40] Assay of lycopene and other carotenoids as singlet oxygen quenchers. <i>Methods in Enzymology</i> , 1992 , 213, 429-438	1.7	43
306	Human fibroblasts release reactive oxygen species in response to treatment with synovial fluids from patients suffering from arthritis. <i>Free Radical Research Communications</i> , 1990 , 8, 149-60		43
305	Hormones, glutathione status and protein S-thiolation. <i>Advances in Enzyme Regulation</i> , 1987 , 26, 175-89		43
304	Perivascular nerve stimulation and phenylephrine responses in rat liver. Metabolic effects, Ca ²⁺ and K ⁺ fluxes. <i>FEBS Journal</i> , 1987 , 163, 197-203		43
303	Antioxidant vitamins in prevention. <i>Clinical Nutrition</i> , 1997 , 16, 151-5	5.9	42
302	What is Oxidative Stress?. <i>Developments in Cardiovascular Medicine</i> , 2000 , 1-8		42
301	Nonenzymatic Antioxidant Defense Systems 1994 , 107-128		42
300	Singlet oxygen induced single-strand breaks in plasmid pBR322 DNA: the enhancing effect of thiols. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1991 , 1088, 409-12		42
299	Paraquat-induced chemiluminescence of microsomal fractions. <i>Biochemical Pharmacology</i> , 1983 , 32, 147-50		42
298	Subcellular glutathione contents in isolated hepatocytes treated with L-buthionine sulfoximine. <i>Biochemical and Biophysical Research Communications</i> , 1984 , 123, 1116-21	3.4	42
297	Defining roles of specific reactive oxygen species (ROS) in cell biology and physiology.. <i>Nature Reviews Molecular Cell Biology</i> , 2022 ,	48.7	42
296	Proinflammatory cytokines down-regulate intestinal selenoprotein P biosynthesis via NOS2 induction. <i>Free Radical Biology and Medicine</i> , 2010 , 49, 777-85	7.8	41
295	Antioxidant activity in cells and organs. <i>The American Review of Respiratory Disease</i> , 1987 , 136, 478-80		41
294	Interplay between the chalcone cardamonin and selenium in the biosynthesis of Nrf2-regulated antioxidant enzymes in intestinal Caco-2 cells. <i>Free Radical Biology and Medicine</i> , 2016 , 91, 164-71	7.8	40
293	Activation of protein kinase CK2 is an early step in the ultraviolet B-mediated increase in interstitial collagenase (matrix metalloproteinase-1; MMP-1) and stromelysin-1 (MMP-3) protein levels in human dermal fibroblasts. <i>Biochemical Journal</i> , 2002 , 365, 31-40	3.8	40
292	Analysis of carotenoids and carotenol fatty acid esters by matrix-assisted laser desorption ionization (MALDI) and MALDI-post-source-decay mass spectrometry. <i>Analytical Biochemistry</i> , 1996 , 238, 117-28	3.1	40

291	Excited singlet molecular O(I^{Δ}) is generated enzymatically from excited carbonyls in the dark. <i>Scientific Reports</i> , 2014 , 4, 5938	4.9	39
290	Microsomal formation of S-nitrosoglutathione from organic nitrites: possible role of membrane-bound glutathione transferase. <i>Biochemical Journal</i> , 1996 , 313 (Pt 2), 377-80	3.8	39
289	Singlet oxygen induced DNA damage and mutagenicity in a single-stranded SV40-based shuttle vector. <i>Photochemistry and Photobiology</i> , 1992 , 55, 39-45	3.6	39
288	Reactivity of ebselen and related selenoorganic compounds with 1,2-dichloroethane radical cations and halogenated peroxy radicals. <i>Archives of Biochemistry and Biophysics</i> , 1990 , 282, 18-25	4.1	39
287	Biliary transport of glutathione disulfide studied with isolated rat-liver canalicular-membrane vesicles. <i>FEBS Journal</i> , 1984 , 141, 211-5		39
286	Induction of glutathione peroxidase 4 expression during enterocytic cell differentiation. <i>Journal of Biological Chemistry</i> , 2011 , 286, 10764-72	5.4	38
285	Intervention with flaxseed and borage oil supplements modulates skin condition in women. <i>British Journal of Nutrition</i> , 2009 , 101, 440-5	3.6	38
284	Low- and high-K _m transport of dinitrophenyl glutathione in inside out vesicles from human erythrocytes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1992 , 1103, 115-9	3.8	38
283	Specific S-thiolation of a 30-kDa cytosolic protein from rat liver under oxidative stress. <i>FEBS Journal</i> , 1989 , 179, 233-9		38
282	pH control of hepatic glutamine degradation. Role of transport. <i>FEBS Journal</i> , 1987 , 166, 483-8		38
281	Protection against reactive oxygen species by NAD(P)H: quinone reductase induced by the dietary antioxidant butylated hydroxyanisole (BHA). Decreased hepatic low-level chemiluminescence during quinone redox cycling. <i>FEBS Letters</i> , 1984 , 169, 63-6	3.8	38
280	Disturbed Redox Homeostasis in Oxidative Distress: A Molecular Link From Chronic Psychosocial Work Stress to Coronary Heart Disease?. <i>Circulation Research</i> , 2017 , 121, 103-105	15.7	37
279	Plasma micronutrient status is improved after a 3-month dietary intervention with 5 daily portions of fruits and vegetables: implications for optimal antioxidant levels. <i>Nutrition Journal</i> , 2009 , 8, 10	4.3	37
278	Irradiation of cells with ultraviolet-A (320-400 nm) in the presence of cell culture medium elicits biological effects due to extracellular generation of hydrogen peroxide. <i>Free Radical Research</i> , 2003 , 37, 391-7	4	37
277	The presence of nitrite during UVA irradiation protects from apoptosis. <i>FASEB Journal</i> , 2003 , 17, 2342-40.9		37
276	Enhancement of gap junctional communication and connexin43 expression by thyroid hormones. <i>Biochemical Pharmacology</i> , 1998 , 55, 475-9	6	37
275	Decreased flux through pyruvate dehydrogenase by thiol oxidation during t-butyl hydroperoxide metabolism in perfused rat liver. <i>Hoppe-Seyler's Zeitschrift Für Physiologische Chemie</i> , 1983 , 364, 977-87		37
274	Oxidative eustress: On constant alert for redox homeostasis. <i>Redox Biology</i> , 2021 , 41, 101867	11.3	37

273	HuR regulates gap junctional intercellular communication by controlling beta-catenin levels and adherens junction integrity. <i>Hepatology</i> , 2009 , 50, 1567-76	11.2	36
272	Biological redox systems and oxidative stress. <i>Cellular and Molecular Life Sciences</i> , 2007 , 64, 2181-8	10.3	36
271	Non-nutritive bioactive constituents of plants: lycopene, lutein and zeaxanthin. <i>International Journal for Vitamin and Nutrition Research</i> , 2003 , 73, 95-100	1.7	36
270	Loss of heterozygosity at the NAD(P)H: quinone oxidoreductase locus associated with increased resistance against mitomycin C in a human bladder carcinoma cell line. <i>Biological Chemistry Hoppe-Seyler</i> , 1994 , 375, 439-45		36
269	Expression of NAD(P)H:quinone oxidoreductase and glutathione S-transferases alpha and pi in human renal cell carcinoma and in kidney cancer-derived cell lines. <i>Carcinogenesis</i> , 1994 , 15, 219-25	4.6	36
268	Antioxidant activity of 5-hydroxytryptophan, 5-hydroxyindole, and DOPA against microsomal lipid peroxidation and its dependence on vitamin E. <i>Free Radical Research Communications</i> , 1989 , 6, 11-7		36
267	The role of pH and the lack of a requirement for hydrogencarbonate in the regulation of hepatic glutamine metabolism. <i>Hoppe-Seyler's Zeitschrift Für Physiologische Chemie</i> , 1980 , 361, 995-101		36
266	Delaying of insulin signal transduction in skeletal muscle cells by selenium compounds. <i>Journal of Inorganic Biochemistry</i> , 2011 , 105, 812-20	4.2	35
265	Singlet oxygen inactivates protein tyrosine phosphatase-1B by oxidation of the active site cysteine. <i>Biological Chemistry</i> , 2006 , 387, 1399-404	4.5	35
264	Protection against peroxyxynitrite by selenoproteins. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 1998 , 53, 228-32	1.7	35
263	A new parameter for sex education. <i>Nature</i> , 1988 , 332, 495-495	50.4	35
262	Attenuation of hepatic expression and secretion of selenoprotein P by metformin. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 387, 158-63	3.4	34
261	NADPH-dependent oxidation of reduced ebselen, 2-selenylbenzanilide, and of 2-(methylseleno)benzanilide catalyzed by pig liver flavin-containing monooxygenase. <i>Chemical Research in Toxicology</i> , 1992 , 5, 163-6	4	34
260	Decreased expression of the glutathione S-transferases alpha and pi genes in human renal cell carcinoma. <i>Carcinogenesis</i> , 1990 , 11, 2179-83	4.6	34
259	Ethane production by isolated perfused rat liver: a system to study metabolic effects related to lipid peroxidation. <i>FEBS Letters</i> , 1981 , 126, 241-4	3.8	34
258	Oxidation of cytochrome b5 by hydroperoxides in rat liver. <i>FEBS Journal</i> , 1975 , 57, 513-20		34
257	Differential miRNA expression in the mouse jejunum during garlic treatment of <i>Eimeria papillata</i> infections. <i>Parasitology Research</i> , 2011 , 109, 387-94	2.4	33
256	Identification of cytosolic leucyl aminopeptidase (EC 3.4.11.1) as the major cysteinylglycine-hydrolysing activity in rat liver. <i>Biological Chemistry</i> , 2003 , 384, 213-8	4.5	33

255	In vitro antioxidant activity of 2,5,7,8-tetramethyl-2-(2'-carboxyethyl)-6-hydroxychroman (alpha-CEHC), a vitamin E metabolite. <i>Free Radical Research</i> , 2002 , 36, 915-21	4	33
254	Thyroid hormone receptors bind to an element in the connexin43 promoter. <i>Biological Chemistry</i> , 2000 , 381, 973-9	4.5	33
253	Defenses against peroxyxynitrite. <i>Methods in Enzymology</i> , 1999 , 301, 301-11	1.7	33
252	The reaction of 2-(methylseleno)benzanilide with peroxyxynitrite. <i>Chemical Research in Toxicology</i> , 1996 , 9, 1057-62	4	33
251	Cellular redox changes and response to drugs and toxic agents. <i>Fundamental and Applied Toxicology</i> , 1983 , 3, 200-8		33
250	Elevated lipid peroxidation biomarkers and low antioxidant status in atherosclerotic patients with increased carotid or iliofemoral intima media thickness. <i>Journal of Investigative Medicine</i> , 2007 , 55, 163-72.9		32
249	(-)-Epicatechin inhibits nitration and dimerization of tyrosine in hydrophilic as well as hydrophobic environments. <i>Biochemical and Biophysical Research Communications</i> , 2001 , 289, 1334-8	3.4	32
248	Temporal relationships between the loss of vitamin E, protein sulfhydryls and lipid peroxidation in microsomes challenged with different prooxidants. <i>Chemico-Biological Interactions</i> , 1990 , 74, 233-52	5	32
247	Oxidative damage to mitochondria and protection by ebselen and other antioxidants. <i>Biochemical Pharmacology</i> , 1990 , 40, 1623-9	6	32
246	Mitochondrial and cytosolic glutathione after depletion by phorone in isolated hepatocytes. <i>Experientia</i> , 1984 , 40, 365-7		32
245	Evidence for a posttranscriptional effect of retinoic acid on connexin43 gene expression via the 3'-untranslated region. <i>FEBS Letters</i> , 1997 , 419, 268-70	3.8	31
244	Singlet oxygen quenching by carotenoids. <i>Methods in Enzymology</i> , 1994 , 234, 384-8	1.7	31
243	Antioxidant activity of ebselen and related selenoorganic compounds in microsomal lipid peroxidation. <i>Free Radical Research Communications</i> , 1990 , 10, 237-44		31
242	Inhibition of biliary taurocholate excretion during menadione metabolism in perfused rat liver. <i>Archives of Biochemistry and Biophysics</i> , 1988 , 263, 10-8	4.1	31
241	Assay of ethane and pentane from isolated organs and cells. <i>Methods in Enzymology</i> , 1984 , 105, 311-9	1.7	31
240	Protein S-thiolation and redox regulation of membrane-bound glutathione transferase. <i>Chemico-Biological Interactions</i> , 1998 , 111-112, 177-85	5	30
239	One-electron reduction of selenomethionine oxide. <i>Free Radical Research</i> , 2000 , 32, 371-6	4	30
238	Adjacent guanines as preferred sites for strand breaks in plasmid DNA irradiated with 193 nm and 248 nm UV laser light. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1996 , 32, 97-102	6.7	30

237	Cytochrome P-450, reductive metabolism, and cell injury. <i>Drug Metabolism Reviews</i> , 1989 , 20, 275-84	7	30
236	Increase of beta-actin mRNA upon hypotonic perfusion of perfused rat liver. <i>FEBS Letters</i> , 1991 , 292, 264-6	3.8	30
235	A process requiring mitochondrial NADPH: urea formation from ammonia. <i>FEBS Letters</i> , 1975 , 54, 274-8	3.8	30
234	Localization and regulation of pancreatic selenoprotein P. <i>Journal of Molecular Endocrinology</i> , 2013 , 50, 31-42	4.5	29
233	Astaxanthin diminishes gap junctional intercellular communication in primary human fibroblasts. <i>Journal of Nutrition</i> , 2005 , 135, 2507-11	4.1	29
232	Carbon-dioxide concentration and the distribution of monocarboxylate and H ⁺ ions between intracellular and extracellular spaces of hemoglobin-free perfused rat liver. <i>FEBS Journal</i> , 1973 , 38, 247-58		29
231	Induction of MMP-10 and MMP-1 in a squamous cell carcinoma cell line by ultraviolet radiation. <i>Biological Chemistry</i> , 2004 , 385, 75-86	4.5	28
230	(-)-Epicatechin effects in rat liver epithelial cells: stimulation of gap junctional communication and counteraction of its loss due to the tumor promoter 12-O-tetradecanoylphorbol-13-acetate. <i>Biochemical Pharmacology</i> , 2002 , 63, 2145-9	6	28
229	Diminished plasma levels of vitamin E in patients with severe viral hepatitis. <i>Free Radical Research</i> , 1996 , 25, 461-6	4	28
228	Biochemie des Peroxysoms in der Leberzelle. <i>Angewandte Chemie</i> , 1974 , 86, 789-801	3.6	28
227	Cytotoxicity of myeloperoxidase/nitrite-oxidized low-density lipoprotein toward endothelial cells is due to a high 7beta-hydroxycholesterol to 7-ketocholesterol ratio. <i>Free Radical Biology and Medicine</i> , 2006 , 41, 1139-50	7.8	27
226	The isozyme pattern of glutathione S-transferases in rat heart. <i>FEBS Letters</i> , 1984 , 169, 156-60	3.8	27
225	Tumor promoter TPA stimulates MMP-9 secretion from human keratinocytes by activation of superoxide-producing NADPH oxidase. <i>Free Radical Research</i> , 2005 , 39, 245-53	4	26
224	Mitogen-activated protein kinase activation by singlet oxygen and ultraviolet A. <i>Methods in Enzymology</i> , 2000 , 319, 130-43	1.7	26
223	Reduction kinetics and content of cytochrome P-450 by application of dual wavelength techniques to hemoglobin-free perfused rat liver. <i>FEBS Letters</i> , 1969 , 2, 167-169	3.8	26
222	Extracellular generation of hydrogen peroxide is responsible for activation of EGF receptor by ultraviolet A radiation. <i>Free Radical Biology and Medicine</i> , 2006 , 41, 1478-87	7.8	25
221	Myeloperoxidase-mediated LDL oxidation and endothelial cell toxicity of oxidized LDL: attenuation by (-)-epicatechin. <i>Free Radical Research</i> , 2006 , 40, 1076-85	4	25
220	Myeloperoxidase-induced lipid peroxidation of LDL in the presence of nitrite. Protection by cocoa flavanols. <i>BioFactors</i> , 2005 , 24, 49-58	6.1	25

219	Carotenoid-containing unilamellar liposomes loaded with glutathione: a model to study hydrophobic-hydrophilic antioxidant interaction. <i>Free Radical Research</i> , 2000 , 33, 801-8	4	25
218	Ebselen lowers plasma interleukin-6 levels and glial heme oxygenase-1 expression after focal photothrombotic brain ischemia. <i>Archives of Biochemistry and Biophysics</i> , 2000 , 380, 237-42	4.1	25
217	Intact organ spectrophotometry and single-photon counting. <i>Archives of Toxicology</i> , 1987 , 60, 138-43	5.8	25
216	Steady state relaxation of enolase in vitro and metabolic throughput in vivo of red and white rabbit muscles. <i>FEBS Journal</i> , 1969 , 8, 273-83		25
215	Positive increase of redox potential of the extramitochondrial NADP(H) system by mixed function oxidations in hemoglobin-free perfused rat liver. <i>FEBS Letters</i> , 1970 , 9, 205-208	3.8	25
214	Activation of ErbB2 by 2-methyl-1,4-naphthoquinone (menadione) in human keratinocytes: role of EGFR and protein tyrosine phosphatases. <i>FEBS Letters</i> , 2006 , 580, 1859-64	3.8	24
213	Tocopherol metabolites 2, 5, 7, 8-tetramethyl-2-(2'-carboxyethyl)-6-hydroxychroman (alpha-CEHC) and 2, 7, 8-trimethyl-2-(2'-carboxyethyl)-6-hydroxychroman (gamma-CEHC) in human serum after a single dose of natural vitamin E. <i>European Journal of Nutrition</i> , 2002 , 41, 119-24	5.2	24
212	Rise of coenzyme A-glutathione mixed disulfide during hydroperoxide metabolism in perfused rat liver. <i>FEBS Journal</i> , 1982 , 127, 575-8		24
211	Glutathione S-transferases in human testicular germ cell tumors: changes of expression and activity. <i>Journal of Urology</i> , 1992 , 147, 1424-8	2.5	24
210	Effect of DABCO (1,4-diazabicyclo[2,2,2]-octane) on singlet oxygen monomol (1270 nm) and dimol (634 and 703 nm) emission. <i>FEBS Letters</i> , 1983 , 164, 366-370	3.8	24
209	COVID-19 mortality as a fingerprint of biological age. <i>Ageing Research Reviews</i> , 2021 , 67, 101308	12	24
208	Oxidative Stress 2019 , 153-163		23
207	Porphyryns preferentially accumulate in a melanoma following intravenous injection of 5-aminolevulinic acid. <i>Biological Chemistry</i> , 1997 , 378, 51-7	4.5	23
206	Signaling effects of menadione: from tyrosine phosphatase inactivation to connexin phosphorylation. <i>Methods in Enzymology</i> , 2004 , 378, 258-72	1.7	23
205	Doxorubicin induces EGF receptor-dependent downregulation of gap junctional intercellular communication in rat liver epithelial cells. <i>Biological Chemistry</i> , 2005 , 386, 217-23	4.5	23
204	The 5-aminolevulinic acid-induced porphyrin biosynthesis in benign and malignant cells of the skin. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2001 , 65, 29-34	6.7	23
203	ATP-stimulated uptake of S-(2,4-dinitrophenyl)glutathione by plasma membrane vesicles from rat liver. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1989 , 983, 123-5	3.8	23
202	Excited species generation in horseradish peroxidase-mediated oxidation of glutathione. <i>Journal of Free Radicals in Biology & Medicine</i> , 1985 , 1, 311-8		23

201	Radiation Hormesis: The Link to Nanomolar Hydrogen Peroxide. <i>Antioxidants and Redox Signaling</i> , 2017 , 27, 596-598	8.4	22
200	Direct evidence that (-)-epicatechin increases nitric oxide levels in human endothelial cells. <i>European Journal of Nutrition</i> , 2011 , 50, 595-9	5.2	22
199	Ultraviolet A induced modulation of gap junctional intercellular communication by P38 MAPK activation in human keratinocytes. <i>Experimental Dermatology</i> , 2008 , 17, 115-24	4	22
198	Combining benzo[d]isoseleazol-3-ones with sterically hindered alicyclic amines and nitroxides: enhanced activity as glutathione peroxidase mimics. <i>Organic and Biomolecular Chemistry</i> , 2005 , 3, 3564-9 ^{3,9}		22
197	Antioxidant activity of the pyridoindole stobadine in liposomal and microsomal lipid peroxidation. <i>Chemico-Biological Interactions</i> , 1992 , 83, 85-93	5	22
196	Stimulation of gap junctional intercellular communication by thalidomide and thalidomide analogs in human skin fibroblasts. <i>Biochemical Pharmacology</i> , 1997 , 53, 1553-7	6	21
195	Kinetic evidence for rapid oxidation of (-)-epicatechin by human myeloperoxidase. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 371, 810-3	3.4	21
194	Quinone-induced Cdc25A inhibition causes ERK-dependent connexin phosphorylation. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 327, 1016-23	3.4	21
193	Ozone in arteriosclerotic plaques: searching for the "smoking gun". <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 3514-5	16.4	21
192	High efficiency of 5-aminolevulinate-photodynamic treatment using UVA irradiation. <i>Carcinogenesis</i> , 2001 , 22, 879-83	4.6	21
191	Cholestasis and changes of portal pressure caused by chlorpromazine in the perfused rat liver. <i>Hepatology</i> , 1991 , 13, 216-221	11.2	21
190	Mechanism and relevance of glutathione mutagenicity. <i>Mutation Research-Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1986 , 175, 127-31		21
189	Eimeria papillata: upregulation of specific miRNA-species in the mouse jejunum. <i>Experimental Parasitology</i> , 2011 , 127, 581-6	2.1	20
188	An encapsulated fruit and vegetable juice concentrate increases skin microcirculation in healthy women. <i>Skin Pharmacology and Physiology</i> , 2012 , 25, 2-8	3	20
187	Beta-carotene serum levels in patients with erythropoietic protoporphyria on treatment with the synthetic all-trans isomer or a natural isomeric mixture of beta-carotene. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1996 , 33, 157-62	6.7	20
186	Antioxidant action of stobadine. <i>Methods in Enzymology</i> , 1994 , 234, 572-80	1.7	20
185	Hepatic uptake of cadmium and its biliary release as affected by dithioerythritol and glutathione. <i>Biochemical Pharmacology</i> , 1984 , 33, 639-43	6	20
184	Inhibition of pyruvate dehydrogenase during the metabolism of glutamine and proline in hemoglobin-free perfused rat liver. <i>FEBS Journal</i> , 1982 , 126, 69-76		20

183	Selenium-binding protein 1 (SELENBP1) is a marker of mature adipocytes. <i>Redox Biology</i> , 2019 , 20, 489-495	20	19
182	Analysis of cellular electron transport systems in liver and other organs by absorbance and fluorescence techniques. <i>Methods of Biochemical Analysis</i> , 1980 , 26, 285-325	20	
181	Oxidative modification of low-density lipoprotein: lipid peroxidation by myeloperoxidase in the presence of nitrite. <i>Biological Chemistry</i> , 2004 , 385, 809-18	4.5	19
180	Selenenyl iodide: a new substrate for mammalian thioredoxin reductase. <i>Organic and Biomolecular Chemistry</i> , 2003 , 1, 2848-52	3.9	19
179	Effects of vitamin C and aspirin in ischemic stroke-related lipid peroxidation: results of the AVASAS (Aspirin Versus Ascorbic acid plus Aspirin in Stroke) Study. <i>BioFactors</i> , 2005 , 24, 265-74	6.1	19
178	Ebselen. <i>Methods in Enzymology</i> , 1995 , 252, 341-2	1.7	19
177	Vitamin D influences gap junctional communication in C3H/10T 1/2 murine fibroblast cells. <i>FEBS Letters</i> , 1994 , 352, 1-3	3.8	19
176	Function dependent changes in the subcellular distribution of high energy phosphates in fast and slow rat skeletal muscles. <i>Pflugers Archiv European Journal of Physiology</i> , 1986 , 406, 20-4	4.6	19
175	Inhibition of taurocholate efflux from rat hepatic canalicular membrane vesicles by glutathione disulfide. <i>FEBS Letters</i> , 1987 , 213, 34-8	3.8	19
174	Peroxisomal enzymes and oxygen metabolism in liver. <i>Advances in Experimental Medicine and Biology</i> , 1977 , 78, 51-60	3.6	19
173	Hepatic mercapturic acid formation: involvement of cytosolic cysteinylglycine S-conjugate dipeptidase activity. <i>Biochemical Pharmacology</i> , 1998 , 56, 763-71	6	18
172	Decomposition of S-nitrosocysteine via S- to N-transnitrosation. <i>Chemical Research in Toxicology</i> , 2007 , 20, 721-3	4	18
171	Post-translational processing of selenoprotein P: implications of glycosylation for its utilisation by target cells. <i>Biological Chemistry</i> , 2007 , 388, 1043-51	4.5	18
170	Paracrine effect of TGF-beta1 on downregulation of gap junctional intercellular communication between human dermal fibroblasts. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 319, 321-6	3.4	18
169	A synthetic C22 carotenoid inhibits carcinogen-induced neoplastic transformation and enhances gap junctional communication. <i>Carcinogenesis</i> , 1993 , 14, 1001-5	4.6	18
168	Cis/trans isomerization of carotenoids by the triplet carbonyl source 3-hydroxymethyl-3,4,4-trimethyl-1,2-dioxetane. <i>Photochemistry and Photobiology</i> , 1993 , 57, 785-91	3.6	18
167	Optical spectral studies of ebselen interaction with cytochrome P-450 of rat liver microsomes. <i>Biochemical Pharmacology</i> , 1989 , 38, 619-25	6	18
166	Inhibition of ethanol- and aldehyde-induced release of ethane from isolated perfused rat liver by pargyline and disulfiram. <i>Pharmacology Biochemistry and Behavior</i> , 1983 , 18 Suppl 1, 429-32	3.9	18

- 165 Findings in redox biology: From HO to oxidative stress. *Journal of Biological Chemistry*, **2020**, 295, 13458-13473
- 164 Predisposition towards urolithiasis associated with the NQO1 null-allele. *Pharmacogenetics and Genomics*, **1998**, 8, 453-4 17
- 163 The oxidation of ebselen metabolites to thiol oxidants catalyzed by liver microsomes and perfused rat liver. *Archives of Biochemistry and Biophysics*, **1995**, 316, 220-6 4.1 17
- 162 Formation of singlet oxygen in the deoxygenation of heteroarene N-oxides by dimethyldioxirane. *Journal of the Chemical Society Chemical Communications*, **1995**, 1831 17
- 161 Generation of excited species catalyzed by horseradish peroxidase or hemin in the presence of reduced glutathione and H₂O₂. *Free Radical Biology and Medicine*, **1987**, 3, 107-10 7.8 17
- 160 Ethane release during metabolism of aldehydes and monoamines in perfused rat liver. *FEBS Journal*, **1983**, 134, 599-602 17
- 159 The properties of the secondary catalase- H_2O_2 complex (Compound II) in the hemoglobin-free perfused rat liver. *Archives of Biochemistry and Biophysics*, **1973**, 159, 704-711 4.1 17
- 158 Biological significance of active oxygen species: in vitro studies on singlet oxygen-induced DNA damage and on the singlet oxygen quenching ability of carotenoids, tocopherols and thiols. *Advances in Experimental Medicine and Biology*, **1991**, 283, 71-7 3.6 17
- 157 Oxidative LDL modification is increased in vascular dementia and is inversely associated with cognitive performance. *Free Radical Research*, **2010**, 44, 241-8 4 16
- 156 Solar-simulated radiation induces secretion of IL-6 and production of isoprostanes in human skin in vivo. *Archives of Dermatological Research*, **2006**, 297, 477-9 3.3 16
- 155 Modulation of homologous gap junctional intercellular communication of human dermal fibroblasts via a paracrine factor(s) generated by squamous tumor cells. *Carcinogenesis*, **2003**, 24, 1737-48 4.6 16
- 154 Carotenoids in human skin: noninvasive measurement and identification of dermal carotenoids and carotenol esters. *Methods in Enzymology*, **2000**, 319, 494-502 1.7 16
- 153 The peroxidase/oxidase activity of soybean lipoxygenase-I. Triplet excited carbonyls from the reaction with isobutanal and the effect of glutathione. *Photochemistry and Photobiology*, **1989**, 49, 697-704 3.6 16
- 152 The peroxidase/oxidase activity of soybean lipoxygenase-II. Triplet carbonyls and red photoemission during polyunsaturated fatty acid and glutathione oxidation. *Photochemistry and Photobiology*, **1989**, 49, 705-10 3.6 16
- 151 Ca²⁺ mobilization by vasopressin and glucagon in perfused livers. Effect of prior intoxication with bromotrichloromethane. *Biochemical Pharmacology*, **1989**, 38, 1799-805 6 16
- 150 Cholestasis and changes in the microcirculation of perfused rat liver caused by the calcium ionophore A23187 and type I antiarrhythmic drugs. *Biochemical Pharmacology*, **1987**, 36, 3037-42 6 16
- 149 Biological Basis of Detoxication of Oxygen Free Radicals **1983**, 181-211 16
- 148 Generation of photoemissive species during quinone redox cycling. *Biochemical Pharmacology*, **1986**, 35, 22-4 6 16

147	Measurement of hydrogen peroxide formation in situ. <i>Methods in Enzymology</i> , 1981 , 77, 15-20	1.7	16
146	On the state of mitochondria in perfused liver: Action of sodium azide on respiratory carriers and respiration. <i>FEBS Letters</i> , 1969 , 5, 319-323	3.8	16
145	Protection by flavanol-rich foods against vascular dysfunction and oxidative damage: 27th Hohenheim Consensus Conference. <i>Advances in Nutrition</i> , 2012 , 3, 217-21	10	15
144	Ultraviolet-A irradiation but not ultraviolet-B or infrared-A irradiation leads to a disturbed zinc homeostasis in cells. <i>Free Radical Biology and Medicine</i> , 2008 , 45, 86-91	7.8	15
143	Mutagenic fingerprint of ozone in human cells. <i>DNA Repair</i> , 2002 , 1, 369-78	4.3	15
142	Peroxynitrite Diminishes Gap Junctional Communication: Protection by Selenite Supplementation. <i>IUBMB Life</i> , 1999 , 48, 379-384	4.7	15
141	Peroxynitrite diminishes gap junctional communication: protection by selenite supplementation. <i>IUBMB Life</i> , 1999 , 48, 379-84	4.7	15
140	Analysis of connexin43 gene expression induced by retinoic acid in F9 teratocarcinoma cells. <i>FEBS Letters</i> , 1996 , 397, 22-4	3.8	15
139	Microsomal metabolism of 2-(methylseleno) benzanilide. <i>Chemical Research in Toxicology</i> , 1990 , 3, 199-203	4.1	15
138	Epidermal growth factor- and stress-induced loss of gap junctional communication is mediated by ERK-1/ERK-2 but not ERK-5 in rat liver epithelial cells. <i>Biochemical and Biophysical Research Communications</i> , 2007 , 364, 313-7	3.4	14
137	Formation of electronically excited states during the oxidation of arachidonic acid by prostaglandin endoperoxide synthase. <i>Methods in Enzymology</i> , 2000 , 319, 67-77	1.7	14
136	Biological activities of Apo-canthaxanthinoic acids related to gap junctional communication. <i>Archives of Biochemistry and Biophysics</i> , 1999 , 365, 150-5	4.1	14
135	Transport of glutathione disulfide and glutathione S-conjugates in hepatocyte plasma membrane vesicles. <i>Methods in Enzymology</i> , 1994 , 233, 416-25	1.7	14
134	De novo methylation of transfected CAT gene plasmid constructs in F9 mouse embryonal carcinoma cells. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1992 , 1131, 16-22		14
133	Separation of retinoic acid all-trans, mono-cis and poly-cis isomers by reversed-phase high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 1993 , 637, 201-205	4.5	14
132	The major isozyme of rat cardiac glutathione transferases. Its correspondence to hepatic transferase X. <i>FEBS Journal</i> , 1986 , 154, 299-305		14
131	Cytochrome oxidase and urate oxidase as intracellular O ₂ indicators in studies of O ₂ gradients during hypoxia in liver. <i>Advances in Experimental Medicine and Biology</i> , 1977 , 94, 561-6	3.6	14
130	Quenching of singlet molecular oxygen by natural furan diterpenes. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1997 , 38, 169-173	6.7	13

129	Sensitization of Peroxynitrite Chemiluminescence by the Triplet Carbonyl Sensitizer Coumarin-525. Effect of CO ₂ . <i>Photochemistry and Photobiology</i> , 1998 , 68, 797-801	3.6	13
128	Assessment of the C-525 laser dye as a chemiluminescence sensitizer for lipid peroxidation in biological membranes: a comparison with chlorophyll-a. <i>Free Radical Biology and Medicine</i> , 1996 , 21, 833-843	7.8	13
127	Identification of a hepatic plasma membrane glutathione S-transferase activated by N-ethylmaleimide. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1993 , 1148, 61-6	3.8	13
126	Compartmentation of high-energy phosphates in resting and working rat skeletal muscle. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1984 , 764, 117-24	4.6	13
125	CONTROL OF MITOCHONDRIAL ACTIVITY BY METABOLITES IN THE HEMOGLOBIN-FREE PERFUSED LIVER 1972 , 197-219		13
124	Dietary selenium affects intestinal development of <i>Eimeria papillata</i> in mice. <i>Parasitology Research</i> , 2014 , 113, 267-74	2.4	12
123	Intestinal selenoprotein P in epithelial cells and in plasma cells. <i>Archives of Biochemistry and Biophysics</i> , 2014 , 541, 30-6	4.1	12
122	Identification of the precursor of singlet oxygen (¹ O ₂ , ¹ g) involved in the disproportionation of hydrogen peroxide catalyzed by calcium hydroxide. <i>Chemical Communications</i> , 1998 , 599-600	5.8	12
121	Rac upregulates tissue inhibitor of metalloproteinase-1 expression by redox-dependent activation of extracellular signal-regulated kinase signaling. <i>FEBS Journal</i> , 2006 , 273, 4754-69	5.7	12
120	Arginase-1 overexpression induces cationic amino acid transporter-1 in psoriasis. <i>Free Radical Biology and Medicine</i> , 2005 , 38, 1073-9	7.8	12
119	Sulfur-to-nitrogen transnitrosation: transfer of nitric oxide from S-nitroso compounds to diethanolamine and the role of intermediate sulfur-to-sulfur transnitrosation. <i>Toxicology</i> , 2001 , 163, 127-36	4.4	12
118	Enhanced gamma-glutamyl transpeptidase expression and superoxide production in Mpv17-/- glomerulosclerosis mice. <i>Biological Chemistry</i> , 2001 , 382, 1019-25	4.5	12
117	Action of amobarbital on microsomal and mitochondrial respiratory state in perfused rat liver with and without phenobarbital induction. <i>FEBS Letters</i> , 1969 , 2, 170-172	3.8	12
116	Upregulation of the thioredoxin-dependent redox system during differentiation of 3T3-L1 cells to adipocytes. <i>Biological Chemistry</i> , 2014 , 395, 667-77	4.5	11
115	Subunit specificity and organ distribution of glutathione transferase-catalysed S-nitrosoglutathione formation from alkyl nitrites in the rat. <i>Biochemical Pharmacology</i> , 1997 , 53, 117-20	6	11
114	Stromal resistance of fibroblasts against oxidative damage: involvement of tumor cell-secreted platelet-derived growth factor (PDGF) and phosphoinositide 3-kinase (PI3K) activation. <i>Carcinogenesis</i> , 2008 , 29, 404-10	4.6	11
113	Limited availability of L-arginine increases DNA-binding activity of NF-kappaB and contributes to regulation of iNOS expression. <i>Journal of Molecular Medicine</i> , 2007 , 85, 723-32	5.5	11
112	Separation of geometrical isomers of beta-carotene and lycopene. <i>Methods in Enzymology</i> , 1994 , 234, 388-400	1.7	11

111	Alpha-Tocopherol in Microsomal Lipid Peroxidationa. <i>Annals of the New York Academy of Sciences</i> , 1989 , 570, 480-486	6.5	11
110	From enzymology in vitro to physiological chemistry in vivo. <i>Trends in Biochemical Sciences</i> , 1980 , 5, 182-185		11
109	Accumulation of the xanthophyll lutein in skin amyloid deposits of systemic amyloidosis (al type). <i>Journal of Investigative Dermatology</i> , 2001 , 116, 196-7	4.3	10
108	Biological singlet oxygen quenchers assessed by monomol light emission. <i>Methods in Enzymology</i> , 2000 , 319, 222-6	1.7	10
107	Reaction of peroxyxynitrite and hydrogen peroxide to produce singlet molecular oxygen (1deltag). <i>Methods in Enzymology</i> , 1996 , 269, 395-400	1.7	10
106	Metabolism of Organic Hydroperoxides 1982 , 307-321		10
105	Purification of rat liver plasma membrane glutathione transferase. <i>FEBS Journal</i> , 1994 , 222, 91-6		9
104	Localization of strand breaks in plasmid DNA treated with reactive oxygen species. <i>Methods in Enzymology</i> , 1994 , 234, 45-51	1.7	9
103	Ascorbate-dependent capacity of dialysed rat liver cytosol to prevent nonenzymatic lipid peroxidation. <i>Biological Chemistry Hoppe-Seyler</i> , 1992 , 373, 1111-6		9
102	S-(4-azidophenacyl)[35S]glutathione photoaffinity labeling of rat liver plasma membrane-associated proteins. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1989 , 982, 15-23	3.8	9
101	Effects of hormones on mitochondrial processes. <i>Methods in Enzymology</i> , 1989 , 174, 118-30	1.7	9
100	Enzymatic measurement of adenine and guanine (plus inosine) triphosphates and diphosphates in isolated cells and the mitochondrial matrix compartment obtained from rat liver. <i>FEBS Letters</i> , 1979 , 105, 90-4	3.8	9
99	Methionine and thyroid hormone effects on ¹⁴ CO ₂ exhalation from [dimethylamino- ¹⁴ C]aminopyrine in intact phenobarbital-pretreated rats. <i>FEBS Letters</i> , 1979 , 103, 366-9 ^{3.8}		9
98	Direct measurement of the state of the lactate dehydrogenase system in hemoglobin-free perfused rat liver. <i>Advances in Enzyme Regulation</i> , 1972 , 10, 309-22		9
97	Physiological evolution: Genomic redox footprints. <i>Nature Plants</i> , 2017 , 3, 17071	11.5	8
96	Cellular Generation of Oxidants: Relation to Oxidative Stress ⁴⁵⁻⁶¹		8
95	Carotenoids 1999 , 183-202		8
94	Positive and negative regulatory regions in promoters of human glutathione transferase alpha genes. <i>Biological Chemistry Hoppe-Seyler</i> , 1996 , 377, 39-46		8

93	Strategies of antioxidant defense 1994 , 101-107		8
92	Alkane production by isolated rat heart and lung. <i>Toxicology Letters</i> , 1988 , 44, 55-64	4.4	8
91	Hepatic glutathione release upon decreases of extracellular calcium concentration. <i>Biochemical Pharmacology</i> , 1986 , 35, 2832-3	6	8
90	Glutathione conjugation of benzo[a]pyrene-7,8-dihydrodiol and benzo[a]pyrene-7,8-dihydrodiol-9,10-oxide in the perfused rat liver. <i>Chemico-Biological Interactions</i> , 1983 , 44, 185-93	5	8
89	4-oxo-retinoic acid is generated from its precursor canthaxanthin and enhances gap junctional communication in 10T1/2 cells. <i>Advances in Experimental Medicine and Biology</i> , 1996 , 387, 121-8	3.6	8
88	Stimulation of gap junctional intercellular communication by thalidomide and thalidomide analogs in human fetal skin fibroblasts (HFFF2) and in rat liver epithelial cells (WB-F344). <i>Biochemical Pharmacology</i> , 2001 , 62, 1081-6	6	7
87	Plasma lipid peroxidation and vitamin C status in healthy centenarians. <i>Journal of the American Geriatrics Society</i> , 1999 , 47, 1038-9	5.6	7
86	Oxidative eustress and oxidative distress: Introductory remarks 2020 , 3-12		7
85	Selectively Addressing Mitochondrial Glutathione and Thioredoxin Redox Systems. <i>Cell Chemical Biology</i> , 2019 , 26, 316-318	8.2	6
84	Selenoprotein P. <i>Methods in Enzymology</i> , 2002 , 347, 121-5	1.7	6
83	Signaling by Singlet Oxygen in Biological Systems 2000 , 3-20		6
82	Comparative toxicology of ozone and t-butyl hydroperoxide on isolated rat lung. <i>Free Radical Research Communications</i> , 1989 , 8, 27-35		6
81	Generation of photoemissive species by mitomycin C redox cycling in rat liver microsomes. <i>Biochemical Pharmacology</i> , 1987 , 36, 1617-21	6	6
80	Lack of effect of long-term glutathione administration on aflatoxin B1-induced hepatoma in male rats. <i>Chemico-Biological Interactions</i> , 1985 , 53, 57-68	5	6
79	Proton movement accompanying monocarboxylate permeation in hemoglobin-free perfused rat liver. <i>FEBS Letters</i> , 1972 , 22, 193-196	3.8	6
78	REDOX COMPARTMENTATION; A SURVEY WITH EMPHASIS ON CURRENT PROBLEMS 1977 , 47-64		6
77	On the opinion of the European Commission "Scientific Committee on Food" regarding the tolerable upper intake level of vitamin E (2003). <i>European Journal of Nutrition</i> , 2005 , 44, 60-2	5.2	5
76	Identification of two activating elements in the proximal promoter region of the human glutathione transferase-A1 and -A2 genes. <i>Archives of Biochemistry and Biophysics</i> , 1998 , 359, 122-7	4.1	5

75	Catabolism of 5-aminolevulinic acid to CO ₂ by rat liver mitochondria. <i>Archives of Biochemistry and Biophysics</i> , 1994 , 310, 205-9	4.1	5
74	Generation of low-level chemiluminescence during the metabolism of 1-naphthol by rat liver microsomes. <i>Biochemical Pharmacology</i> , 1984 , 33, 4081-5	6	5
73	Peroxisomal function in perfused liver as studied by organ photometry. <i>Annals of the New York Academy of Sciences</i> , 1982 , 386, 153-64	6.5	5
72	The effect of tris(2-chloroethyl)amine on human hemoglobin. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 1976 , 294, 179-85	3.4	5
71	Tocopherols, Carotenoids and The Glutathione System 1992 , 160-165		5
70	Free radicals in toxicology: redox cycling and NAD(P)H:quinone oxidoreductase. <i>Archives of Toxicology Supplement</i> , 1996 , 18, 217-22		5
69	Heat shock but not cold shock leads to disturbed intracellular zinc homeostasis. <i>Journal of Cellular Physiology</i> , 2010 , 223, 103-9	7	4
68	Ozon in arteriosklerotischen Plaques: die Suche nach dem flüchtigen Colt. <i>Angewandte Chemie</i> , 2004 , 116, 3596-3598	3.6	4
67	Reversible conversion of nitroxyl anion to nitric oxide. <i>Methods in Enzymology</i> , 2002 , 349, 101-6	1.7	4
66	Gel electrofocusing method for studying protein S-nitrosylation. <i>Methods in Enzymology</i> , 1999 , 301, 145-57	5.7	4
65	Strategies of Antioxidant Defense: Relations to Oxidative Stress 1995 , 165-186		4
64	Cellular levels of all-trans-beta-carotene under the influence of 9-cis-beta-carotene in FU-5 rat hepatoma cells. <i>Biological Chemistry Hoppe-Seyler</i> , 1993 , 374, 1075-81		4
63	Turnover of glutathione S-transferase alpha mRNAs is accelerated by 12-O-tetradecanoyl phorbol-13-acetate in human hepatoma and colon carcinoma cell lines. <i>FEBS Journal</i> , 1995 , 229, 21-6		4
62	Intracellular and intercellular liver heterogeneity: an overview. <i>Biochemical Society Transactions</i> , 1987 , 15, 359-60	5.1	4
61	Biochemistry of oxidative stress. <i>European Journal of Cancer & Clinical Oncology</i> , 1987 , 23, 1798		4
60	NICOTINAMIDE NUCLEOTIDE SYSTEMS AND DRUG OXIDATION IN THE LIVER CELL 1977 , 307-314		4
59	Oxidative eustress and oxidative distress. <i>Free Radical Biology and Medicine</i> , 2021 , 165, 1	7.8	4
58	Electronically excited intermediate from peroxyxynitrite: evaluation by chemiluminescence and by the isomerization of beta-carotene. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1998 , 47, 142-147	6.7	3

57	How I became a biochemist. <i>IUBMB Life</i> , 2007 , 59, 469-73	4.7	3
56	Some basic properties of ascorbate-dependent antioxidative-defence factors from rat liver cytosol. <i>Chemico-Biological Interactions</i> , 1995 , 94, 169-81	5	3
55	Chemiluminescent oxidation of ribose catalyzed by horseradish peroxidase in presence of hydrogen peroxide. <i>Free Radical Biology and Medicine</i> , 1989 , 6, 565-71	7.8	3
54	The role of glutathione in hepatic hydroperoxide metabolism. <i>Biochemical Society Transactions</i> , 1982 , 10, 79-80	5.1	3
53	The state of NADPH-NADP + during mixed-function oxidation of hexobarbital in hemoglobin-free perfused rat liver. <i>Chemico-Biological Interactions</i> , 1971 , 3, 308-9	5	3
52	Carotenoids in Systemic Protection Against Sunburn. <i>Oxidative Stress and Disease</i> , 2004 , 491-502		3
51	GLUTATHIONE CONJUGATES: TRANSPORT FROM THE CELL AND INTRACELLULAR EFFECTS 1989 , 357-367		3
50	The Concept of Oxidative Stress After 30 Years 2016 , 3-11		3
49	Loss of the tyrosyl radical in mouse ribonucleotide reductase by (-)-epicatechin. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 326, 614-7	3.4	2
48	Future directions in preclinical vitamin E research: panel discussion A. <i>Annals of the New York Academy of Sciences</i> , 2004 , 1031, 305-12	6.5	2
47	Protection against solar radiation [protective properties of antioxidants. <i>Comprehensive Series in Photosciences</i> , 2001 , 3, 561-572		2
46	Mechanisms of Antioxidant Defense against Nitric Oxide/Peroxynitrite 2000 , 343-354		2
45	A tribute to Lars Ernster. <i>Free Radical Research</i> , 1999 , 30, 415-418	4	2
44	[35] Matrix-assisted laser desorption ionization-postsource decay-mass spectrometry. <i>Methods in Enzymology</i> , 1999 , 390-408	1.7	2
43	Quenching of singlet molecular oxygen by tocopherols. <i>Advances in Experimental Medicine and Biology</i> , 1990 , 264, 117-24	3.6	2
42	Cellular Redox Changes and Response to Drugs and Toxic Agents. <i>Toxicological Sciences</i> , 1983 , 3, 200-208.	4	2
41	New Horizons in Carotenoid Research 2005 ,		2
40	German-Japanese relationships in biochemistry: a personal perspective. <i>Nagoya Journal of Medical Science</i> , 2016 , 78, 335-347	0.7	2

39	Interorgan Glutathione Transport 1992 , 283-294		2
38	Oxidative Stress: Impact in Neuroscience Research. <i>Oxidative Stress in Applied Basic Research and Clinical Practice</i> , 2013 , 3-7		2
37	Epicatechin and Its Role in Protection of LDL and of Vascular Endothelium 2009 , 803-813		2
36	Increased biliary glutathione disulfide (GSSG) release in chronically ethanol-treated rats. <i>Advances in Experimental Medicine and Biology</i> , 1980 , 132, 619-25	3.6	2
35	Vitamins and Polyphenols in Systemic Photoprotection 2006 , 113-121		2
34	Reactive oxygen species formed in vitro and in cells: role of thiols (GSH). Model studies with xanthine oxidase and horseradish peroxidase. <i>Advances in Experimental Medicine and Biology</i> , 1986 , 197, 505-12	3.6	2
33	Organ absorbance and fluorescence spectrophotometry and its application to oxygen-dependent parameters. <i>Advances in Experimental Medicine and Biology</i> , 1977 , 94, 119-25	3.6	2
32	A 47-amino-acid fragment of SV40 T antigen represses transcription from human GSTalpha promoters. <i>Virology</i> , 1998 , 249, 275-85	3.6	1
31	Divergent Optimum Levels of Lycopene, β -Carotene and Lutein Protecting Against UVB Irradiation in Human Fibroblasts. <i>Photochemistry and Photobiology</i> , 2007 , 75, 503-506	3.6	1
30	PROFILES OF ANTIOXIDANTS IN HUMAN PLASMA 2001 , 229-235		1
29	CAROTENOIDS: MODES OF ACTION AND BIOAVAILABILITY OF LYCOPENE IN THE HUMAN 1999 , 221-225		1
28	Se and Non-Se Glutathione Peroxidases: Enzymology and Cell Physiology 1982 , 169-189		1
27	A new organ spectrophotometer for sensitive dual-wavelength absorbance measurement and spectral scanning of intact perfused organs. <i>Biological Chemistry</i> , 1978 , 359, 385-92	4.5	1
26	Sensitized Chemiluminescence and Fluorescence Methods in Studies of Oxidative Stress 1999 , 90-101		1
25	Oxidative Stress 1994 , 1-7		1
24	Nutritional protection against photooxidative stress in human skin and eye 2020 , 389-402		1
23	Homeostatic control of redox status and health. <i>IUBMB Life</i> , 2021 ,	4.7	1
22	Use of isolated liver perfusion in metabolic studies: ground-laying work in experimental hepatology. <i>Zeitschrift Fur Gastroenterologie</i> , 2011 , 49, 737-9	1.6	

- 21 Highlight: GBM Meeting Molecular Life Sciences 2011 *Biological Chemistry*, **2012**, 393, 203-203 4.5
- 20 Dietary Flavanols: Biochemical Basis of Short-Term and Longer-Term Vascular Responses 159-164
- 19 Induction of mouse embryonal carcinoma cell differentiation and activation of the retinoic acid receptor beta 2 promoter by 1,25-dihydroxyvitamin D3. *Biological Chemistry Hoppe-Seyler*, **1996**, 377, 703-10
- 18 Selenium and the Protection Against Peroxynitrite **2002**, 71-76
- 17 A New Function for Selenoproteins: Peroxynitrite Reduction **1999**, 87-101
- 16 [33] Use of repair endonucleases to assess DNA damage by peroxynitrite. *Methods in Enzymology*, **1999**, 312-318 1.7
- 15 Decrease of flux through pyruvate dehydrogenase and branched-chain 2-oxo-acid dehydrogenase by nitrofurantoin in perfused rat liver. *Hoppe-Seyler's Zeitschrift für Physiologische Chemie*, **1983**, 364, 1439-46
- 14 LOW-LEVEL CHEMILUMINESCENCE, ALKANE PRODUCTION AND GLUTATHIONE DEPLETION IN ISOLATED HEPATOCYTES CAUSED BY A DIFFUSIBLE PRODUCT OF LIPID PEROXIDATION, 4-HYDROXYNONENAL **1984**, 317-324
- 13 ROLE OF GLUTATHIONE AND NAD(P)H:QUINONE OXIDOREDUCTASE (DT-DIAPHORASE) IN DETERMINING LOW-LEVEL CHEMILUMINESCENCE DURING REDOX CYCLING OF MENADIONE **1984**, 331-334
- 12 Effects of singlet oxygen on the biological activity of DNA and its involvement in single strand-break formation. *Basic Life Sciences*, **1988**, 49, 473-7
- 11 Quinone Redox Cycling and the Protective Effect of DT Diaphorase **1990**, 381-387
- 10 CAROTENOIDS, TOCOPHEROLS AND THIOLS AS BIOLOGICAL SINGLET OXYGEN QUENCHERS **1991**, 311-314
- 9 ROLE OF SPECIFIC PROTEIN S-THIOLATION UNDER OXIDATIVE STRESS **1991**, 476-480
- 8 Reaktive Sauerstoffspezies: Prooxidantien und Antioxidantien in Biologie und Medizin **1993**, 27-56
- 7 Medical Applications of Antioxidants: An Update of Current Problems **1993**, 419-423
- 6 Activation of Gene Expression of Collagenase and ICAM-1 by UVA Radiation and by Exposure to Singlet Oxygen **1998**, 434-437
- 5 Lycopene and β -Carotene **1998**, 315-322
- 4 Defenses Against Peroxynitrite **1998**, 505-509

3 ORGAN SPECTROPHOTOMETRY OF CYTOCHROME P-450 AND OF CATALASE LIGAND COMPLEXES
IN INTACT PERFUSED LIVER **1978**, 1499-1505

2 Generation of photoemissive species during quinone redox cycling **1986**, 22-24

1 Buchrezension zu: Ravenous. *BioSpektrum*, **2021**, 27, 570-570

O.1