

Michael Jonathan Davies

List of Publications by Year in descending order

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457
papers

34,435
citations

4146

87
h-index

5255

165
g-index

485
all docs

485
docs citations

485
times ranked

27904
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel Method for Measuring Antioxidant Capacity and its Application to Monitoring the Antioxidant Status in Premature Neonates. <i>Clinical Science</i> , 1993, 84, 407-412.	4.3	2,511
2	Biochemistry and pathology of radical-mediated protein oxidation. <i>Biochemical Journal</i> , 1997, 324, 1-18.	3.7	1,519
3	The oxidative environment and protein damage. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2005, 1703, 93-109.	2.3	1,142
4	Singlet oxygen-mediated damage to proteins and its consequences. <i>Biochemical and Biophysical Research Communications</i> , 2003, 305, 761-770.	2.1	858
5	Absolute Rate Constants for the Reaction of Hypochlorous Acid with Protein Side Chains and Peptide Bonds. <i>Chemical Research in Toxicology</i> , 2001, 14, 1453-1464.	3.3	716
6	Protein oxidation and peroxidation. <i>Biochemical Journal</i> , 2016, 473, 805-825.	3.7	670
7	Direct detection of free radicals in the reperfused rat heart using electron spin resonance spectroscopy. <i>Circulation Research</i> , 1987, 61, 757-760.	4.5	625
8	Generation and propagation of radical reactions on proteins. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2001, 1504, 196-219.	1.0	616
9	Hypochlorite-induced oxidation of amino acids, peptides and proteins. <i>Amino Acids</i> , 2003, 25, 259-274.	2.7	518
10	Mammalian Heme Peroxidases: From Molecular Mechanisms to Health Implications. <i>Antioxidants and Redox Signaling</i> , 2008, 10, 1199-1234.	5.4	490
11	Defining roles of specific reactive oxygen species (ROS) in cell biology and physiology. <i>Nature Reviews Molecular Cell Biology</i> , 2022, 23, 499-515.	37.0	469
12	The modern pharmacology of paracetamol: therapeutic actions, mechanism of action, metabolism, toxicity and recent pharmacological findings. <i>Inflammopharmacology</i> , 2013, 21, 201-232.	3.9	440
13	Photo-oxidation of proteins. <i>Photochemical and Photobiological Sciences</i> , 2012, 11, 38-53.	2.9	438
14	Stable markers of oxidant damage to proteins and their application in the study of human disease. <i>Free Radical Biology and Medicine</i> , 1999, 27, 1151-1163.	2.9	410
15	Quantification of protein modification by oxidants. <i>Free Radical Biology and Medicine</i> , 2009, 46, 965-988.	2.9	398
16	Photo-oxidation of proteins and its role in cataractogenesis. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2001, 63, 114-125.	3.8	391
17	Guidelines for measuring reactive oxygen species and oxidative damage in cells and in vivo. <i>Nature Metabolism</i> , 2022, 4, 651-662.	11.9	356
18	Reactive species formed on proteins exposed to singlet oxygen. <i>Photochemical and Photobiological Sciences</i> , 2004, 3, 17.	2.9	348

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19	Myeloperoxidase-derived oxidation: mechanisms of biological damage and its prevention. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2010, 48, 8-19.	1.4	324
20	THE ANTIOXIDANT POTENTIAL OF PROPOFOL (2,6-DIISOPROPYLPHENOL) â€. <i>British Journal of Anaesthesia</i> , 1992, 68, 613-618.	3.4	321
21	Reactions of Myeloperoxidase-Derived Oxidants with Biological Substrates:Gaining Chemical Insight into Human Inflammatory Diseases. <i>Current Medicinal Chemistry</i> , 2006, 13, 3271-3290.	2.4	316
22	Evidence for Rapid Inter- and Intramolecular Chlorine Transfer Reactions of Histamine and Carnosine Chloramines:Â Implications for the Prevention of Hypochlorous-Acid-Mediated Damageâ€. <i>Biochemistry</i> , 2006, 45, 8152-8162.	2.5	304
23	Hypochlorite-induced damage to proteins: formation of nitrogen-centred radicals from lysine residues and their role in protein fragmentation. <i>Biochemical Journal</i> , 1998, 332, 617-625.	3.7	279
24	Direct Detection and Quantification of Transition Metal Ions in Human Atherosclerotic Plaques: Evidence for the Presence of Elevated Levels of Iron and Copper. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2004, 24, 949-954.	2.4	251
25	Detection, identification, and quantification of oxidative protein modifications. <i>Journal of Biological Chemistry</i> , 2019, 294, 19683-19708.	3.4	250
26	Evidence for roles of radicals in protein oxidation in advanced human atherosclerotic plaque. <i>Biochemical Journal</i> , 1998, 333, 519-525.	3.7	230
27	Reactive species and their accumulation on radical-damaged proteins. <i>Trends in Biochemical Sciences</i> , 1993, 18, 437-441.	7.5	222
28	Determination of protein carbonyls in plasma, cell extracts, tissue homogenates, isolated proteins: Focus on sample preparation and derivatization conditions. <i>Redox Biology</i> , 2015, 5, 367-380.	9.0	222
29	Singlet-oxygen-mediated amino acid and protein oxidation: Formation of tryptophan peroxides and decomposition products. <i>Free Radical Biology and Medicine</i> , 2009, 47, 92-102.	2.9	213
30	Inactivation of cellular enzymes by carbonyls and protein-bound glycation/glycoxidation products. <i>Archives of Biochemistry and Biophysics</i> , 2002, 403, 259-269.	3.0	187
31	Kinetic Analysis of the Reactions of Hypobromous Acid with Protein Components:Â Implications for Cellular Damage and Use of 3-Bromotyrosine as a Marker of Oxidative Stressâ€. <i>Biochemistry</i> , 2004, 43, 4799-4809.	2.5	182
32	Ascorbyl radical formation in patients with sepsis: Effect of ascorbate loading. <i>Free Radical Biology and Medicine</i> , 1996, 20, 139-143.	2.9	180
33	Singlet Oxygenâ€‘mediated Protein Oxidation: Evidence for the Formation of Reactive Side Chain Peroxides on Tyrosine ResiduesÂ¶. <i>Photochemistry and Photobiology</i> , 2002, 76, 35.	2.5	179
34	The Role of Myeloperoxidase in Biomolecule Modification, Chronic Inflammation, and Disease. <i>Antioxidants and Redox Signaling</i> , 2020, 32, 957-981.	5.4	173
35	Hypochlorite-Induced Damage to DNA, RNA, and Polynucleotides:â€‰ Formation of Chloramines and Nitrogen-Centered Radicals. <i>Chemical Research in Toxicology</i> , 2002, 15, 83-92.	3.3	170
36	Hypochlorite-induced oxidation of proteins in plasma: formation of chloramines and nitrogen-centred radicals and their role in protein fragmentation. <i>Biochemical Journal</i> , 1999, 340, 539-548.	3.7	169

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37	Oxidative damage to extracellular matrix and its role in human pathologies. <i>Free Radical Biology and Medicine</i> , 2008, 44, 1973-2001.	2.9	167
38	Detection and characterisation of radicals in biological materials using EPR methodology. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 708-721.	2.4	161
39	Cardiac spheroids as promising in vitro models to study the human heart microenvironment. <i>Scientific Reports</i> , 2017, 7, 7005.	3.3	161
40	Modification of low-density lipoprotein by myeloperoxidase-derived oxidants and reagent hypochlorous acid. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2006, 1761, 392-415.	2.4	156
41	Actions of ultraviolet light on cellular structures. , 2006, , 131-157.		149
42	Detection and characterisation of radicals using electron paramagnetic resonance (EPR) spin trapping and related methods. <i>Methods</i> , 2016, 109, 21-30.	3.8	145
43	Free radical mechanisms in relation to tissue injury. <i>Proceedings of the Nutrition Society</i> , 1987, 46, 1-12.	1.0	144
44	Detection of peroxy and alkoyl radicals produced by reaction of hydroperoxides with heme-proteins by electron spin resonance spectroscopy. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1988, 964, 28-35.	2.4	142
45	Xanthine oxidase activity and free radical generation in patients with sepsis syndrome. <i>Critical Care Medicine</i> , 1996, 24, 1649-1653.	0.9	139
46	Identification of a globin free radical in equine myoglobin treated with peroxides. <i>BBA - Proteins and Proteomics</i> , 1991, 1077, 86-90.	2.1	138
47	Reactions and reactivity of myeloperoxidase-derived oxidants: Differential biological effects of hypochlorous and hypothiocyanous acids. <i>Free Radical Research</i> , 2012, 46, 975-995.	3.3	137
48	Evidence for the Formation of Adducts and S-(Carboxymethyl)cysteine on Reaction of α -Dicarbonyl Compounds with Thiol Groups on Amino Acids, Peptides, and Proteins. <i>Chemical Research in Toxicology</i> , 2005, 18, 1232-1241.	3.3	135
49	Desferrioxamine (Desferal) and superoxide free radicals. Formation of an enzyme-damaging nitroxide. <i>Biochemical Journal</i> , 1987, 246, 725-729.	3.7	132
50	Detection of peroxy and alkoxy radicals produced by reaction of hydroperoxides with rat liver microsomal fractions. <i>Biochemical Journal</i> , 1989, 257, 603-606.	3.7	130
51	Increased levels of serum protein oxidation and correlation with disease activity in systemic lupus erythematosus. <i>Arthritis and Rheumatism</i> , 2005, 52, 2069-2079.	6.7	127
52	Reevaluation of the rate constants for the reaction of hypochlorous acid (HOCl) with cysteine, methionine, and peptide derivatives using a new competition kinetic approach. <i>Free Radical Biology and Medicine</i> , 2014, 73, 60-66.	2.9	126
53	The Cytoplasmic Cu,Zn Superoxide Dismutase of <i>Saccharomyces cerevisiae</i> Is Required for Resistance to Freeze-Thaw Stress. <i>Journal of Biological Chemistry</i> , 1998, 273, 22921-22928.	3.4	125
54	Nonenzymatic Glycation Impairs the Antiinflammatory Properties of Apolipoprotein A-I. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010, 30, 766-772.	2.4	125

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55	The impact of glycation on apolipoprotein A-I structure and its ability to activate lecithin:cholesterol acyltransferase. <i>Diabetologia</i> , 2007, 50, 643-653.	6.3	122
56	Direct Detection of Radicals in Intact Soybean Nodules: Presence of Nitric Oxide-Leghemoglobin Complexes. <i>Free Radical Biology and Medicine</i> , 1998, 24, 1242-1249.	2.9	121
57	Sensitizer-mediated photooxidation of histidine residues: Evidence for the formation of reactive side-chain peroxides. <i>Free Radical Biology and Medicine</i> , 2006, 40, 698-710.	2.9	120
58	Ascorbic acid may protect against human gastric cancer by scavenging mucosal oxygen radicals. <i>Carcinogenesis</i> , 1996, 17, 559-562.	2.8	117
59	Hypochlorous Acid-Mediated Oxidation of Lipid Components and Antioxidants Present in Low-Density Lipoproteins: Absolute Rate Constants, Product Analysis, and Computational Modeling. <i>Chemical Research in Toxicology</i> , 2003, 16, 439-449.	3.3	117
60	Hypothiocyanous acid reactivity with low-molecular-mass and protein thiols: absolute rate constants and assessment of biological relevance. <i>Biochemical Journal</i> , 2009, 422, 111-117.	3.7	115
61	Markers of protein oxidation: different oxidants give rise to variable yields of bound and released carbonyl products. <i>Free Radical Biology and Medicine</i> , 2004, 36, 1175-1184.	2.9	113
62	Direct detection and identification of radicals generated during the hydroxyl radical-induced degradation of hyaluronic acid and related materials. <i>Free Radical Biology and Medicine</i> , 1996, 21, 275-290.	2.9	110
63	Degradation of Hyaluronic Acid, Poly- and Mono-Saccharides, and Model Compounds by Hypochlorite: Evidence for Radical Intermediates and Fragmentation. <i>Free Radical Biology and Medicine</i> , 1998, 24, 1396-1410.	2.9	110
64	Protein and Peptide Alkoxy Radicals Can Give Rise to C-Terminal Decarboxylation and Backbone Cleavage. <i>Archives of Biochemistry and Biophysics</i> , 1996, 336, 163-172.	3.0	109
65	Oxidation of myosin by haem proteins generates myosin radicals and protein cross-links. <i>Biochemical Journal</i> , 2008, 410, 565-574.	3.7	109
66	What Are the Plasma Targets of the Oxidant Hypochlorous Acid? A Kinetic Modeling Approach. <i>Chemical Research in Toxicology</i> , 2009, 22, 807-817.	3.3	109
67	Selenium-containing amino acids as direct and indirect antioxidants. <i>IUBMB Life</i> , 2012, 64, 863-871.	3.4	109
68	Protein oxidation and ageing. <i>Experimental Gerontology</i> , 2001, 36, 1503-1518.	2.8	108
69	Studies on the metal-ion and lipoxygenase-catalysed breakdown of hydroperoxides using electron-spin-resonance spectroscopy. <i>Biochemical Journal</i> , 1987, 245, 167-173.	3.7	107
70	The role of vascular-derived perlecan in modulating cell adhesion, proliferation and growth factor signaling. <i>Matrix Biology</i> , 2014, 35, 112-122.	3.6	105
71	Electron spin resonance and pulse radiolysis studies on the spin trapping of sulphur-centered radicals. <i>Chemico-Biological Interactions</i> , 1987, 61, 177-188.	4.0	103
72	Detection of Myoglobin-Derived Radicals On Reaction of Metmyoglobin With Hydrogen Peroxide and Other Peroxidic Compounds. <i>Free Radical Research Communications</i> , 1990, 10, 361-370.	1.8	102

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73	Secondary radicals derived from chloramines of apolipoprotein B-100 contribute to HOCl-induced lipid peroxidation of low-density lipoproteins. <i>Biochemical Journal</i> , 1999, 339, 489-495.	3.7	101
74	Detection of HOCl-mediated protein oxidation products in the extracellular matrix of human atherosclerotic plaques. <i>Biochemical Journal</i> , 2003, 370, 729-735.	3.7	101
75	Hypochlorous Acid-Mediated Protein Oxidation: How Important Are Chloramine Transfer Reactions and Protein Tertiary Structure?. <i>Biochemistry</i> , 2007, 46, 9853-9864.	2.5	101
76	Exploring oxidative modifications of tyrosine: An update on mechanisms of formation, advances in analysis and biological consequences. <i>Free Radical Research</i> , 2015, 49, 347-373.	3.3	101
77	Reactivity of disulfide bonds is markedly affected by structure and environment: implications for protein modification and stability. <i>Scientific Reports</i> , 2016, 6, 38572.	3.3	101
78	Requirements for superoxide-dependent tyrosine hydroperoxide formation in peptides. <i>Biochemical Journal</i> , 2004, 381, 241-248.	3.7	100
79	Quinone-induced protein modifications: Kinetic preference for reaction of 1,2-benzoquinones with thiol groups in proteins. <i>Free Radical Biology and Medicine</i> , 2016, 97, 148-157.	2.9	100
80	Kinetic Analysis of the Role of Histidine Chloramines in Hypochlorous Acid Mediated Protein Oxidation. <i>Biochemistry</i> , 2005, 44, 7378-7387.	2.5	96
81	Myoglobin-Induced Oxidative Damage: Evidence for Radical Transfer from Oxidized Myoglobin to Other Proteins and Antioxidants. <i>Archives of Biochemistry and Biophysics</i> , 1999, 362, 94-104.	3.0	94
82	Protein-bound kynurenine is a photosensitizer of oxidative damage. <i>Free Radical Biology and Medicine</i> , 2004, 37, 1479-1489.	2.9	93
83	Inactivation of Protease Inhibitors and Lysozyme by Hypochlorous Acid: Role of Side-Chain Oxidation and Protein Unfolding in Loss of Biological Function. <i>Chemical Research in Toxicology</i> , 2005, 18, 1600-1610.	3.3	93
84	Hypochlorite and superoxide radicals can act synergistically to induce fragmentation of hyaluronan and chondroitin sulphates. <i>Biochemical Journal</i> , 2004, 381, 175-184.	3.7	92
85	Low zinc and selenium concentrations in sepsis are associated with oxidative damage and inflammation. <i>British Journal of Anaesthesia</i> , 2015, 114, 990-999.	3.4	92
86	The formation of free radicals by cardiac myocytes under oxidative stress and the effects of electron-donating drugs. <i>Biochemical Journal</i> , 1991, 277, 833-837.	3.7	90
87	Studies on the photolytic breakdown of hydroperoxides and peroxidized fatty acids by using electron spin resonance spectroscopy. Spin trapping of alkoxyl and peroxy radicals in organic solvents. <i>Biochemical Journal</i> , 1986, 240, 789-795.	3.7	89
88	Detection and reactions of the globin radical in haemoglobin. <i>BBA - Proteins and Proteomics</i> , 1993, 1202, 173-181.	2.1	88
89	Reaction of HOCl with amino acids and peptides: EPR evidence for rapid rearrangement and fragmentation reactions of nitrogen-centred radicals. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1998, , 1937-1946.	0.9	88
90	Radical chemistry of epigallocatechin gallate and its relevance to protein damage. <i>Archives of Biochemistry and Biophysics</i> , 2003, 414, 115-120.	3.0	88

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91	Oxidation and Antioxidation of Human Low-Density Lipoprotein and Plasma Exposed to 3-Morpholinopyridone and Reagent Peroxynitrite. <i>Chemical Research in Toxicology</i> , 1998, 11, 484-494.	3.3	86
92	Hypochlorite-Mediated Fragmentation of Hyaluronan, Chondroitin Sulfates, and Related N-Acetyl Glycosamines: Evidence for Chloramide Intermediates, Free Radical Transfer Reactions, and Site-Specific Fragmentation. <i>Journal of the American Chemical Society</i> , 2003, 125, 13719-13733.	13.7	86
93	Nucleophilic substitution reactions of spin adducts. Implications for the correct identification of reaction intermediates by EPR/spin trapping. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1992, , 333.	0.9	85
94	Roles of Tyrosine-Rich Precursor Glycoproteins and Dityrosine- and 3,4-Dihydroxyphenylalanine-Mediated Protein Cross-Linking in Development of the Oocyst Wall in the Coccidian Parasite <i>Eimeria maxima</i> . <i>Eukaryotic Cell</i> , 2003, 2, 456-464.	3.4	85
95	The retina: oxidative stress and diabetes. <i>Redox Report</i> , 2003, 8, 187-192.	4.5	85
96	Reactions of Hypochlorous Acid with Tyrosine and Peptidyl-tyrosyl Residues Give Dichlorinated and Aldehydic Products in Addition to 3-Chlorotyrosine. <i>Journal of Biological Chemistry</i> , 2000, 275, 10851-10858.	3.4	84
97	Oxidative damage to collagen and related substrates by metal ion/hydrogen peroxide systems: random attack or site-specific damage?. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 1997, 1360, 84-96.	3.8	80
98	Radicals Derived from Histone Hydroperoxides Damage Nucleobases in RNA and DNA. <i>Chemical Research in Toxicology</i> , 2000, 13, 665-672.	3.3	80
99	Reaction between protein radicals and other biomolecules. <i>Free Radical Biology and Medicine</i> , 2002, 33, 201-209.	2.9	80
100	EPR Spin trapping of protein radicals. <i>Free Radical Biology and Medicine</i> , 2004, 36, 1072-1086.	2.9	80
101	Processed foods drive intestinal barrier permeability and microvascular diseases. <i>Science Advances</i> , 2021, 7, .	10.3	80
102	A new method for measuring antioxidant activity. <i>Biochemical Society Transactions</i> , 1993, 21, 95S-95S.	3.4	79
103	EPR studies on the selectivity of hydroxyl radical attack on amino acids and peptides. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1998, , 2617-2622.	0.9	79
104	Photo-oxidation of cells generates long-lived intracellular protein peroxides. <i>Free Radical Biology and Medicine</i> , 2003, 34, 637-647.	2.9	77
105	Inhibition of glyceraldehyde-3-phosphate dehydrogenase by peptide and protein peroxides generated by singlet oxygen attack. <i>FEBS Journal</i> , 2002, 269, 1916-1925.	0.2	76
106	Protective mechanisms against peptide and protein peroxides generated by singlet oxygen. <i>Free Radical Biology and Medicine</i> , 2004, 36, 484-496.	2.9	76
107	Tryptophan-derived ultraviolet filter compounds covalently bound to lens proteins are photosensitizers of oxidative damage. <i>Free Radical Biology and Medicine</i> , 2008, 44, 1108-1119.	2.9	76
108	Hypothiocyanous acid is a more potent inducer of apoptosis and protein thiol depletion in murine macrophage cells than hypochlorous acid or hypobromous acid. <i>Biochemical Journal</i> , 2008, 414, 271-280.	3.7	76

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109	Hypochlorite-Induced Damage to Nucleosides: Formation of Chloramines and Nitrogen-Centered Radicals. <i>Chemical Research in Toxicology</i> , 2001, 14, 1071-1081.	3.3	75
110	Carnosine and its constituents inhibit glycation of low-density lipoproteins that promotes foam cell formation in vitro. <i>FEBS Letters</i> , 2007, 581, 1067-1070.	2.8	75
111	A Kinetic and ESR Investigation of Iron(II) Oxalate Oxidation by Hydrogen Peroxide and Dioxygen as a Source of Hydroxyl Radicals. <i>Free Radical Research</i> , 1997, 27, 447-458.	3.3	74
112	Glycation of low-density lipoproteins by methylglyoxal and glycolaldehyde gives rise to the in vitro formation of lipid-laden cells. <i>Diabetologia</i> , 2005, 48, 361-369.	6.3	74
113	Formation of Long-Lived Radicals on Proteins by Radical Transfer from Heme Enzymes: A Common Process?. <i>Archives of Biochemistry and Biophysics</i> , 1999, 362, 105-112.	3.0	73
114	The myeloperoxidase-derived oxidant HOSCN inhibits protein tyrosine phosphatases and modulates cell signalling via the mitogen-activated protein kinase (MAPK) pathway in macrophages. <i>Biochemical Journal</i> , 2010, 430, 161-169.	3.7	73
115	Dityrosine, 3,4-Dihydroxyphenylalanine (DOPA), and Radical Formation from Tyrosine Residues on Milk Proteins with Globular and Flexible Structures as a Result of Riboflavin-Mediated Photo-oxidation. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 7939-7947.	5.2	73
116	Selenium-containing amino acids are targets for myeloperoxidase-derived hypothiocyanous acid: determination of absolute rate constants and implications for biological damage. <i>Biochemical Journal</i> , 2012, 441, 305-316.	3.7	73
117	Glutathionylation Mediates Angiotensin II-Induced eNOS Uncoupling, Amplifying NADPH Oxidase-Dependent Endothelial Dysfunction. <i>Journal of the American Heart Association</i> , 2014, 3, e000731.	3.7	73
118	Role of myeloperoxidase and oxidant formation in the extracellular environment in inflammation-induced tissue damage. <i>Free Radical Biology and Medicine</i> , 2021, 172, 633-651.	2.9	73
119	Direct detection of a globin-derived radical in leghaemoglobin treated with peroxides. <i>Biochemical Journal</i> , 1992, 281, 197-201.	3.7	72
120	Inhibition of myeloperoxidase-mediated hypochlorous acid production by nitroxides. <i>Biochemical Journal</i> , 2009, 421, 79-86.	3.7	71
121	Oxidation of DNA, proteins and lipids by DOPA, protein-bound DOPA, and related catechol(amine)s. <i>Toxicology</i> , 2002, 177, 23-37.	4.2	70
122	Histone H1- and other protein- and amino acid-hydroperoxides can give rise to free radicals which oxidize DNA. <i>Biochemical Journal</i> , 1999, 344, 125-134.	3.7	69
123	Beta-scission of side-chain alkoxy radicals on peptides and proteins results in the loss of side-chains as aldehydes and ketones. <i>Free Radical Biology and Medicine</i> , 2002, 32, 1171-1184.	2.9	69
124	The Vinyl Ether Linkages of Plasmalogens Are Favored Targets for Myeloperoxidase-Derived Oxidants: A Kinetic Study. <i>Biochemistry</i> , 2008, 47, 8237-8245.	2.5	68
125	Reaction of protein chloramines with DNA and nucleosides: evidence for the formation of radicals, protein-DNA cross-links and DNA fragmentation. <i>Biochemical Journal</i> , 2002, 365, 605-615.	3.7	66
126	Evidence for inactivation of cysteine proteases by reactive carbonyls via glycation of active site thiols. <i>Biochemical Journal</i> , 2006, 398, 197-206.	3.7	66

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127	Protein cysteine oxidation in redox signaling: Caveats on sulfenic acid detection and quantification. Archives of Biochemistry and Biophysics, 2017, 617, 26-37.	3.0	66
128	Radical-Induced Damage to Proteins: E.S.R. Spin-Trapping Studies. Free Radical Research Communications, 1991, 15, 111-127.	1.8	64
129	Hypochlorite-induced oxidation of proteins in plasma: formation of chloramines and nitrogen-centred radicals and their role in protein fragmentation. Biochemical Journal, 1999, 340, 539.	3.7	64
130	Chlorination and oxidation of the extracellular matrix protein laminin and basement membrane extracts by hypochlorous acid and myeloperoxidase. Redox Biology, 2019, 20, 496-513.	9.0	64
131	Nitric Oxide and Nitroxides Can Act as Efficient Scavengers of Protein-Derived Free Radicals. Chemical Research in Toxicology, 2008, 21, 2111-2119.	3.3	63
132	Electron spin resonance studies. Part 68. Addition versus overall one-electron abstraction in the oxidation of alkenes and dienes by SO ₄ ^{•-} , Cl ₂ ^{•-} , and [•] OH in acidic aqueous solution. Journal of the Chemical Society Perkin Transactions II, 1984, , 1809-1815.	0.9	60
133	Effect of propofol and thiopentone on free radical mediated oxidative stress of the erythrocyte. British Journal of Anaesthesia, 1996, 76, 536-543.	3.4	60
134	The protein oxidation product 3,4-dihydroxyphenylalanine (DOPA) mediates oxidative DNA damage. Biochemical Journal, 1998, 330, 1059-1067.	3.7	60
135	Peroxyl radical- and photo-oxidation of glucose 6-phosphate dehydrogenase generates cross-links and functional changes via oxidation of tyrosine and tryptophan residues. Free Radical Biology and Medicine, 2017, 112, 240-252.	2.9	60
136	Pulse radiolysis and electron spin resonance studies of the dehydration of radicals from 1,2-diols and related compounds. Journal of the Chemical Society Perkin Transactions II, 1986, , 1003.	0.9	59
137	Formation of Hydroxyl Radicals in the Human Lens is Related to the Severity of Nuclear Cataract. Experimental Eye Research, 2000, 70, 81-88.	2.6	59
138	Acetaminophen (paracetamol) inhibits myeloperoxidase-catalyzed oxidant production and biological damage at therapeutically achievable concentrations. Biochemical Pharmacology, 2010, 79, 1156-1164.	4.4	59
139	High plasma thiocyanate levels in smokers are a key determinant of thiol oxidation induced by myeloperoxidase. Free Radical Biology and Medicine, 2011, 51, 1815-1822.	2.9	59
140	Dietary advanced glycation end-products aggravate non-alcoholic fatty liver disease. World Journal of Gastroenterology, 2016, 22, 8026.	3.3	59
141	Identification of initiating agents in myoglobin-induced lipid peroxidation. Biochemical and Biophysical Research Communications, 1991, 179, 1414-1419.	2.1	58
142	Oxidation and Inactivation of SERCA by Selective Reaction of Cysteine Residues with Amino Acid Peroxides. Chemical Research in Toxicology, 2007, 20, 1462-1469.	3.3	58
143	Radical-Induced Damage to Bovine Serum Albumin: Role of the Cysteine Residue. Free Radical Research Communications, 1993, 18, 353-367.	1.8	57
144	β -Scission of C-3 (β -Carbon) Alkoxy Radicals on Peptides and Proteins: A Novel Pathway Which Results in the Formation of α -Carbon Radicals and the Loss of Amino Acid Side Chains. Chemical Research in Toxicology, 2000, 13, 1087-1095.	3.3	57

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145	Superoxide radicals have a protective role during H ₂ O ₂ stress. <i>Molecular Biology of the Cell</i> , 2013, 24, 2876-2884.	2.1	57
146	A Critical Role for Thioredoxin-Interacting Protein in Diabetes-Related Impairment of Angiogenesis. <i>Diabetes</i> , 2014, 63, 675-687.	0.6	57
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