Michael Jonathan Davies

List of Publications by Year
in descending order

457 papers	34,435 citations	4831 87 h-index	6024 165 g-index
485 all docs	485 docs citations	485 times ranked	30615 citing authors

#	Article	IF	Citations
1	A Novel Method for Measuring Antioxidant Capacity and its Application to Monitoring the Antioxidant Status in Premature Neonates. Clinical Science, 1993, 84, 407-412.	1.8	2,511
2	Biochemistry and pathology of radical-mediated protein oxidation. Biochemical Journal, 1997, 324, 1-18.	1.7	1,519
3	The oxidative environment and protein damage. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2005, 1703, 93-109.	1.1	1,142
4	Singlet oxygen-mediated damage to proteins and its consequences. Biochemical and Biophysical Research Communications, 2003, 305, 761-770.	1.0	858
5	Absolute Rate Constants for the Reaction of Hypochlorous Acid with Protein Side Chains and Peptide Bonds. Chemical Research in Toxicology, 2001, 14, 1453-1464.	1.7	716
6	Protein oxidation and peroxidation. Biochemical Journal, 2016, 473, 805-825.	1.7	670
7	Direct detection of free radicals in the reperfused rat heart using electron spin resonance spectroscopy.. Circulation Research, 1987, 61, 757-760.	2.0	625
8	Generation and propagation of radical reactions on proteins. Biochimica Et Biophysica Acta - Bioenergetics, 2001, 1504, 196-219.	0.5	616
9	Hypochlorite-induced oxidation of amino acids, peptides and proteins. Amino Acids, 2003, 25, 259-274.	1.2	518
10	Mammalian Heme Peroxidases: From Molecular Mechanisms to Health Implications. Antioxidants and Redox Signaling, 2008, 10, 1199-1234.	2.5	490
11	Defining roles of specific reactive oxygen species (ROS) in cell biology and physiology. Nature Reviews Molecular Cell Biology, 2022, 23, 499-515.	16.1	469
12	The modern pharmacology of paracetamol: therapeutic actions, mechanism of action, metabolism, toxicity and recent pharmacological findings. Inflammopharmacology, 2013, 21, 201-232.	1.9	440
13	Photo-oxidation of proteins. Photochemical and Photobiological Sciences, 2012, 11, 38-53.	1.6	438
14	Stable markers of oxidant damage to proteins and their application in the study of human disease. Free Radical Biology and Medicine, 1999, 27, 1151-1163.	1.3	410
15	Quantification of protein modification by oxidants. Free Radical Biology and Medicine, 2009, 46, 965-988.	1.3	398
16	Photo-oxidation of proteins and its role in cataractogenesis. Journal of Photochemistry and Photobiology B: Biology, 2001, 63, 114-125.	1.7	391
17	Guidelines for measuring reactive oxygen species and oxidative damage in cells and in vivo. Nature Metabolism, 2022, 4, 651-662.	5.1	356
18	Reactive species formed on proteins exposed to singlet oxygen. Photochemical and Photobiological Sciences, 2004, 3, 17.	1.6	348

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19	Myeloperoxidase-derived oxidation: mechanisms of biological damage and its prevention. Journal of Clinical Biochemistry and Nutrition, 2010, 48, 8-19.	0.6	324
20	THE ANTIOXIDANT POTENTIAL OF PROPOFOL (2,6-DIISOPROPYLPHENOL) â€. British Journal of Anaesthesia, 1992, 68, 613-618.	1.5	321
21	Reactions of Myeloperoxidase-Derived Oxidants with Biological Substrates:Gaining Chemical Insight into Human Inflammatory Diseases. Current Medicinal Chemistry, 2006, 13, 3271-3290.	1.2	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€. Biochemistry, 2006, 45, 8152-8162.	1.2	304
23	Hypochlorite-induced damage to proteins: formation of nitrogen-centred radicals from lysine residues and their role in protein fragmentation. Biochemical Journal, 1998, 332, 617-625.	1.7	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. Arteriosclerosis, Thrombosis, and Vascular Biology, 2004, 24, 949-954.	1.1	251
25	Detection, identification, and quantification of oxidative protein modifications. Journal of Biological Chemistry, 2019, 294, 19683-19708.	1.6	250
26	Evidence for roles of radicals in protein oxidation in advanced human atherosclerotic plaque. Biochemical Journal, 1998, 333, 519-525.	1.7	230
27	Reactive species and their accumulation on radical-damaged proteins. Trends in Biochemical Sciences, 1993, 18, 437-441.	3.7	222
28	Determination of protein carbonyls in plasma, cell extracts, tissue homogenates, isolated proteins: Focus on sample preparation and derivatization conditions. Redox Biology, 2015, 5, 367-380.	3.9	222
29	Singlet-oxygen-mediated amino acid and protein oxidation: Formation of tryptophan peroxides and decomposition products. Free Radical Biology and Medicine, 2009, 47, 92-102.	1.3	213
30	Inactivation of cellular enzymes by carbonyls and protein-bound glycation/glycoxidation products. Archives of Biochemistry and Biophysics, 2002, 403, 259-269.	1.4	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€. Biochemistry, 2004, 43, 4799-4809.	1.2	182
32	Ascorbyl radical formation in patients with sepsis: Effect of ascorbate loading. Free Radical Biology and Medicine, 1996, 20, 139-143.	1.3	180
33	Singlet Oxygenâ€“mediated Protein Oxidation: Evidence for the Formation of Reactive Side Chain Peroxides on Tyrosine ResiduesÂ¶. Photochemistry and Photobiology, 2002, 76, 35.	1.3	179
34	The Role of Myeloperoxidase in Biomolecule Modification, Chronic Inflammation, and Disease. Antioxidants and Redox Signaling, 2020, 32, 957-981.	2.5	173
35	Hypochlorite-Induced Damage to DNA, RNA, and Polynucleotides:â€‰ Formation of Chloramines and Nitrogen-Centered Radicals. Chemical Research in Toxicology, 2002, 15, 83-92.	1.7	170
36	Hypochlorite-induced oxidation of proteins in plasma: formation of chloramines and nitrogen-centred radicals and their role in protein fragmentation. Biochemical Journal, 1999, 340, 539-548.	1.7	169

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37	Oxidative damage to extracellular matrix and its role in human pathologies. Free Radical Biology and Medicine, 2008, 44, 1973-2001.	1.3	167
38	Detection and characterisation of radicals in biological materials using EPR methodology. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 708-721.	1.1	161
39	Cardiac spheroids as promising in vitro models to study the human heart microenvironment. Scientific Reports, 2017, 7, 7005.	1.6	161
40	Modification of low-density lipoprotein by myeloperoxidase-derived oxidants and reagent hypochlorous acid. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2006, 1761, 392-415.	1.2	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. Methods, 2016, 109, 21-30.	1.9	145
43	Free radical mechanisms in relation to tissue injury. Proceedings of the Nutrition Society, 1987, 46, 1-12.	0.4	144
44	Detection of peroxyl and alkoyl radicals produced by reaction of hydroperoxides with heme-proteins by electron spin resonance spectroscopy. Biochimica Et Biophysica Acta - General Subjects, 1988, 964, 28-35.	1.1	142
45	Xanthine oxidase activity and free radical generation in patients with sepsis syndrome. Critical Care Medicine, 1996, 24, 1649-1653.	0.4	139
46	Identification of a globin free radical in equine myoglobin treated with peroxides. BBA - Proteins and Proteomics, 1991, 1077, 86-90.	2.1	138
47	Reactions and reactivity of myeloperoxidase-derived oxidants: Differential biological effects of hypochlorous and hypothiocyanous acids. Free Radical Research, 2012, 46, 975-995.	1.5	137
48	Evidence for the Formation of Adducts and S-(Carboxymethyl)cysteine on Reaction of Î±-Dicarbonyl Compounds with Thiol Groups on Amino Acids, Peptides, and Proteins. Chemical Research in Toxicology, 2005, 18, 1232-1241.	1.7	135
49	Desferrioxamine (Desferal) and superoxide free radicals. Formation of an enzyme-damaging nitroxide. Biochemical Journal, 1987, 246, 725-729.	1.7	132
50	Detection of peroxyl and alkoxyl radicals produced by reaction of hydroperoxides with rat liver microsomal fractions. Biochemical Journal, 1989, 257, 603-606.	1.7	130
51	Increased levels of serum protein oxidation and correlation with disease activity in systemic lupus erythematosus. Arthritis and Rheumatism, 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. Free Radical Biology and Medicine, 2014, 73, 60-66.	1.3	126
53	The Cytoplasmic Cu,Zn Superoxide Dismutase of Saccharomyces cerevisiae Is Required for Resistance to Freeze-Thaw Stress. Journal of Biological Chemistry, 1998, 273, 22921-22928.	1.6	125
54	Nonenzymatic Glycation Impairs the Antiinflammatory Properties of Apolipoprotein A-I. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 766-772.	1.1	125

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55	The impact of glycation on apolipoprotein A-I structure and its ability to activate lecithin:cholesterol acyltransferase. Diabetologia, 2007, 50, 643-653.	2.9	122
56	Direct Detection of Radicals in Intact Soybean Nodules: Presence of Nitric Oxide-Leghemoglobin Complexes. Free Radical Biology and Medicine, 1998, 24, 1242-1249.	1.3	121
57	Sensitizer-mediated photooxidation of histidine residues: Evidence for the formation of reactive side-chain peroxides. Free Radical Biology and Medicine, 2006, 40, 698-710.	1.3	120
58	Ascorbic acid may protect against human gastric cancer by scavenging mucosal oxygen radicals. Carcinogenesis, 1996, 17, 559-562.	1.3	117
59	Hypochlorous Acid-Mediated Oxidation of Lipid Components and Antioxidants Present in Low-Density Lipoproteins:Â Absolute Rate Constants, Product Analysis, and Computational Modeling. Chemical Research in Toxicology, 2003, 16, 439-449.	1.7	117
60	Hypothiocyanous acid reactivity with low-molecular-mass and protein thiols: absolute rate constants and assessment of biological relevance. Biochemical Journal, 2009, 422, 111-117.	1.7	115
61	Markers of protein oxidation: different oxidants give rise to variable yields of bound and released carbonyl products. Free Radical Biology and Medicine, 2004, 36, 1175-1184.	1.3	113
62	Direct detection and identification of radicals generated during the hydroxyl radical-induced degradation of hyaluronic acid and related materials. Free Radical Biology and Medicine, 1996, 21, 275-290.	1.3	110
63	Degradation of Hyaluronic Acid, Poly- and Mono-Saccharides, and Model Compounds by Hypochlorite: Evidence for Radical Intermediates and Fragmentation. Free Radical Biology and Medicine, 1998, 24, 1396-1410.	1.3	110
64	Protein and Peptide Alkoxyl Radicals Can Give Rise to C-Terminal Decarboxylation and Backbone Cleavage. Archives of Biochemistry and Biophysics, 1996, 336, 163-172.	1.4	109
65	Oxidation of myosin by haem proteins generates myosin radicals and protein cross-links. Biochemical Journal, 2008, 410, 565-574.	1.7	109
66	What Are the Plasma Targets of the Oxidant Hypochlorous Acid? A Kinetic Modeling Approach. Chemical Research in Toxicology, 2009, 22, 807-817.	1.7	109
67	Seleniumâ€containing amino acids as direct and indirect antioxidants. IUBMB Life, 2012, 64, 863-871.	1.5	109
68	Protein oxidation and ageing. Experimental Gerontology, 2001, 36, 1503-1518.	1.2	108
69	Studies on the metal-ion and lipoxygenase-catalysed breakdown of hydroperoxides using electron-spin-resonance spectroscopy. Biochemical Journal, 1987, 245, 167-173.	1.7	107
70	The role of vascular-derived perlecan in modulating cell adhesion, proliferation and growth factor signaling. Matrix Biology, 2014, 35, 112-122.	1.5	105
71	Electron spin resonance and pulse radiolysis studies on the spin trapping of sulphur-centered radicals. Chemico-Biological Interactions, 1987, 61, 177-188.	1.7	103
72	Detection of Myoglobin-Derived Radicals On Reaction of Metmyoglobin With Hydrogen Peroxide and Other Peroxidic Compounds. Free Radical Research Communications, 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. Biochemical Journal, 1999, 339, 489-495.	1.7	101
74	Detection of HOCl-mediated protein oxidation products in the extracellular matrix of human atherosclerotic plaques. Biochemical Journal, 2003, 370, 729-735.	1.7	101
75	Hypochlorous Acid-Mediated Protein Oxidation:â€‰ How Important Are Chloramine Transfer Reactions and Protein Tertiary Structure?. Biochemistry, 2007, 46, 9853-9864.	1.2	101
76	Exploring oxidative modifications of tyrosine: An update on mechanisms of formation, advances in analysis and biological consequences. Free Radical Research, 2015, 49, 347-373.	1.5	101
77	Reactivity of disulfide bonds is markedly affected by structure and environment: implications for protein modification and stability. Scientific Reports, 2016, 6, 38572.	1.6	101
78	Requirements for superoxide-dependent tyrosine hydroperoxide formation in peptides. Biochemical Journal, 2004, 381, 241-248.	1.7	100
79	Quinone-induced protein modifications: Kinetic preference for reaction of 1,2-benzoquinones with thiol groups in proteins. Free Radical Biology and Medicine, 2016, 97, 148-157.	1.3	100
80	Kinetic Analysis of the Role of Histidine Chloramines in Hypochlorous Acid Mediated Protein Oxidationâ€. Biochemistry, 2005, 44, 7378-7387.	1.2	96
81	Myoglobin-Induced Oxidative Damage: Evidence for Radical Transfer from Oxidized Myoglobin to Other Proteins and Antioxidants. Archives of Biochemistry and Biophysics, 1999, 362, 94-104.	1.4	94
82	Protein-bound kynurenine is a photosensitizer of oxidative damage. Free Radical Biology and Medicine, 2004, 37, 1479-1489.	1.3	93
83	Inactivation of Protease Inhibitors and Lysozyme by Hypochlorous Acid:â€‰ Role of Side-Chain Oxidation and Protein Unfolding in Loss of Biological Function. Chemical Research in Toxicology, 2005, 18, 1600-1610.	1.7	93
84	Hypochlorite and superoxide radicals can act synergistically to induce fragmentation of hyaluronan and chondroitin sulphates. Biochemical Journal, 2004, 381, 175-184.	1.7	92
85	Low zinc and selenium concentrations in sepsis are associated with oxidative damage and inflammation. British Journal of Anaesthesia, 2015, 114, 990-999.	1.5	92
86	The formation of free radicals by cardiac myocytes under oxidative stress and the effects of electron-donating drugs. Biochemical Journal, 1991, 277, 833-837.	1.7	90
87	Studies on the photolytic breakdown of hydroperoxides and peroxidized fatty acids by using electron spin resonance spectroscopy. Spin trapping of alkoxyl and peroxyl radicals in organic solvents. Biochemical Journal, 1986, 240, 789-795.	1.7	89
88	Detection and reactions of the globin radical in haemoglobin. BBA - Proteins and Proteomics, 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. Journal of the Chemical Society Perkin Transactions II, 1998, , 1937-1946.	0.9	88
90	Radical chemistry of epigallocatechin gallate and its relevance to protein damage. Archives of Biochemistry and Biophysics, 2003, 414, 115-120.	1.4	88

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91	Oxidation and Antioxidation of Human Low-Density Lipoprotein and Plasma Exposed to 3-Morpholinosydnonimine and Reagent Peroxynitrite. Chemical Research in Toxicology, 1998, 11, 484-494.	1.7	86
92	Hypochlorite-Mediated Fragmentation of Hyaluronan, Chondroitin Sulfates, and RelatedN-Acetyl Glycosamines:Â Evidence for Chloramide Intermediates, Free Radical Transfer Reactions, and Site-Specific Fragmentation. Journal of the American Chemical Society, 2003, 125, 13719-13733.	6.6	86
93	Nucleophilic substitution reactions of spin adducts. Implications for the correct identification of reaction intermediates by EPR/spin trapping. Journal of the Chemical Society Perkin Transactions II, 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 Eimeria maxima. Eukaryotic Cell, 2003, 2, 456-464.	3.4	85
95	The retina: oxidative stress and diabetes. Redox Report, 2003, 8, 187-192.	1.4	85
96	Reactions of Hypochlorous Acid with Tyrosine and Peptidyl-tyrosyl Residues Give Dichlorinated and Aldehydic Products in Addition to 3-Chlorotyrosine. Journal of Biological Chemistry, 2000, 275, 10851-10858.	1.6	84
97	Oxidative damage to collagen and related substrates by metal ion/hydrogen peroxide systems: random attack or site-specific damage?. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 1997, 1360, 84-96.	1.8	80
98	Radicals Derived from Histone Hydroperoxides Damage Nucleobases in RNA and DNA. Chemical Research in Toxicology, 2000, 13, 665-672.	1.7	80
99	Reaction between protein radicals and other biomolecules. Free Radical Biology and Medicine, 2002, 33, 201-209.	1.3	80
100	EPR Spin trapping of protein radicals. Free Radical Biology and Medicine, 2004, 36, 1072-1086.	1.3	80
101	Processed foods drive intestinal barrier permeability and microvascular diseases. Science Advances, 2021, 7, .	4.7	80
102	A new method for measuring antioxidant activity. Biochemical Society Transactions, 1993, 21, 95S-95S.	1.6	79
103	EPR studies on the selectivity of hydroxyl radical attack on amino acids and peptides. Journal of the Chemical Society Perkin Transactions II, 1998, , 2617-2622.	0.9	79
104	Photo-oxidation of cells generates long-lived intracellular protein peroxides. Free Radical Biology and Medicine, 2003, 34, 637-647.	1.3	77
105	Inhibition of glyceraldehyde-3-phosphate dehydrogenase by peptide and protein peroxides generated by singlet oxygen attack. FEBS Journal, 2002, 269, 1916-1925.	0.2	76
106	Protective mechanisms against peptide and protein peroxides generated by singlet oxygen. Free Radical Biology and Medicine, 2004, 36, 484-496.	1.3	76
107	Tryptophan-derived ultraviolet filter compounds covalently bound to lens proteins are photosensitizers of oxidative damage. Free Radical Biology and Medicine, 2008, 44, 1108-1119.	1.3	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. Biochemical Journal, 2008, 414, 271-280.	1.7	76

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109	Hypochlorite-Induced Damage to Nucleosides:â€‰ Formation of Chloramines and Nitrogen-Centered Radicals. Chemical Research in Toxicology, 2001, 14, 1071-1081.	1.7	75
110	Carnosine and its constituents inhibit glycation of low-density lipoproteins that promotes foam cell formation in vitro. FEBS Letters, 2007, 581, 1067-1070.	1.3	75
111	A Kinetic and ESR Investigation of Iron(II) Oxalate Oxidation by Hydrogen Peroxide and Dioxygen as a Source of Hydroxyl Radicals. Free Radical Research, 1997, 27, 447-458.	1.5	74
112	Glycation of low-density lipoproteins by methylglyoxal and glycolaldehyde gives rise to the in vitro formation of lipid-laden cells. Diabetologia, 2005, 48, 361-369.	2.9	74
113	Formation of Long-Lived Radicals on Proteins by Radical Transfer from Heme Enzymesâ€"A Common Process?. Archives of Biochemistry and Biophysics, 1999, 362, 105-112.	1.4	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. Biochemical Journal, 2010, 430, 161-169.	1.7	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. Journal of Agricultural and Food Chemistry, 2011, 59, 7939-7947.	2.4	73
116	Selenium-containing amino acids are targets for myeloperoxidase-derived hypothiocyanous acid: determination of absolute rate constants and implications for biological damage. Biochemical Journal, 2012, 441, 305-316.	1.7	73
117	Glutathionylation Mediates Angiotensin IIâ€"Induced eNOS Uncoupling, Amplifying NADPH Oxidaseâ€Dependent Endothelial Dysfunction. Journal of the American Heart Association, 2014, 3, e000731.	1.6	73
118	Role of myeloperoxidase and oxidant formation in the extracellular environment in inflammation-induced tissue damage. Free Radical Biology and Medicine, 2021, 172, 633-651.	1.3	73
119	Direct detection of a globin-derived radical in leghaemoglobin treated with peroxides. Biochemical Journal, 1992, 281, 197-201.	1.7	72
120	Inhibition of myeloperoxidase-mediated hypochlorous acid production by nitroxides. Biochemical Journal, 2009, 421, 79-86.	1.7	71
121	Oxidation of DNA, proteins and lipids by DOPA, protein-bound DOPA, and related catechol(amine)s. Toxicology, 2002, 177, 23-37.	2.0	70
122	Histone H1- and other protein- and amino acid-hydroperoxides can give rise to free radicals which oxidize DNA. Biochemical Journal, 1999, 344, 125-134.	1.7	69
123	Beta-scission of side-chain alkoxyl radicals on peptides and proteins results in the loss of side-chains as aldehydes and ketones. Free Radical Biology and Medicine, 2002, 32, 1171-1184.	1.3	69
124	The Vinyl Ether Linkages of Plasmalogens Are Favored Targets for Myeloperoxidase-Derived Oxidants: A Kinetic Study. Biochemistry, 2008, 47, 8237-8245.	1.2	68
125	Reaction of protein chloramines with DNA and nucleosides: evidence for the formation of radicals, proteinâ€"DNA cross-links and DNA fragmentation. Biochemical Journal, 2002, 365, 605-615.	1.7	66
126	Evidence for inactivation of cysteine proteases by reactive carbonyls via glycation of active site thiols. Biochemical Journal, 2006, 398, 197-206.	1.7	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.	1.4	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.	1.7	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.	3.9	64
131	Nitric Oxide and Nitroxides Can Act as Efficient Scavengers of Protein-Derived Free Radicals. Chemical Research in Toxicology, 2008, 21, 2111-2119.	1.7	63
132	Electron spin resonance studies. Part 68. Addition versus overall one-electron abstraction in the oxidation of alkenes and dienes by SO4â€"Ë™, Cl2â€"Ë™, and Ë™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.	1.5	60
134	The protein oxidation product 3,4-dihydroxyphenylalanine (DOPA) mediates oxidative DNA damage. Biochemical Journal, 1998, 330, 1059-1067.	1.7	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.	1.3	60
136	Pulse radiolysis and election 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.	1.2	59
138	Acetaminophen (paracetamol) inhibits myeloperoxidase-catalyzed oxidant production and biological damage at therapeutically achievable concentrations. Biochemical Pharmacology, 2010, 79, 1156-1164.	2.0	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.	1.3	59
140	Dietary advanced glycation end-products aggravate non-alcoholic fatty liver disease. World Journal of Gastroenterology, 2016, 22, 8026.	1.4	59
141	Identification of initiating agents in myoglobin-induced lipid peroxidation. Biochemical and Biophysical Research Communications, 1991, 179, 1414-1419.	1.0	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.	1.7	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	Î²-Scission of C-3 (Î²-Carbon) Alkoxyl Radicals on Peptides and Proteins:â€‰ A Novel Pathway Which Results in the Formation of Î±-Carbon Radicals and the Loss of Amino Acid Side Chains. Chemical Research in Toxicology, 2000, 13, 1087-1095.	1.7	57

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145	Superoxide radicals have a protective role during H₂O₂stress. Molecular Biology of the Cell, 2013, 24, 2876-2884.	0.9	57
146	A Critical Role for Thioredoxin-Interacting Protein in Diabetes-Related Impairment of Angiogenesis. Diabetes, 2014, 63, 675-687.	0.3	57
147	Desferrioxamine as a lipid chain-breaking antioxidant in sickle erythrocyte membranes. FEBS Letters, 1990, 264, 145-148.	1.3	55
148	Inhibition of cathepsins and related proteases by amino acid, peptide, and protein hydroperoxides. Free Radical Biology and Medicine, 2006, 40, 1539-1548.	1.3	55
149	Myeloperoxidase-derived oxidants modify apolipoprotein A-I and generate dysfunctional high-density lipoproteins: comparison of hypothiocyanous acid (HOSCN) with hypochlorous acid (HOCl). Biochemical Journal, 2013, 449, 531-542.	1.7	55
150	Myeloperoxidase-derived oxidants selectively disrupt the protein core of the heparan sulfate proteoglycan perlecan. Matrix Biology, 2010, 29, 63-73.	1.5	54
151	Quantification of hydroxyl radical-derived oxidation products in peptides containing glycine, alanine, valine, and proline. Free Radical Biology and Medicine, 2012, 52, 328-339.	1.3	54
152	Supplementation with carnosine decreases plasma triglycerides andÂmodulates atherosclerotic plaque composition in diabetic apoÂEâˆ'/âˆ' mice. Atherosclerosis, 2014, 232, 403-409.	0.4	54
153	Dermal fibroblasts have different extracellular matrix profiles induced by TGF-Î², PDGF and IL-6 in a model for skin fibrosis. Scientific Reports, 2020, 10, 17300.	1.6	54
154	Photodynamically Generated Bovine Serum Albumin Radicals: Evidence for Damage Transfer and Oxidation at Cysteine and Tryptophan Residues. Free Radical Biology and Medicine, 1998, 24, 754-766.	1.3	53
155	Oxidation of heparan sulphate by hypochlorite: role of N-chloro derivatives and dichloramine-dependent fragmentation. Biochemical Journal, 2005, 391, 125-134.	1.7	53
156	Electron spin resonance studies. Part 69. Oxidation of some aliphatic carboxylic acids, carboxylate anions, and related compounds by the sulphate radical anion (SO4â€"Ë™). Journal of the Chemical Society Perkin Transactions II, 1985, , 1199-1204.	0.9	52
157	Glycosaminoglycans are fragmented by hydroxyl, carbonate, and nitrogen dioxide radicals in a site-selective manner: implications for peroxynitrite-mediated damage at sites of inflammation. Free Radical Biology and Medicine, 2009, 47, 389-400.	1.3	52
158	Removal of amino acid, peptide and protein hydroperoxides by reaction with peroxiredoxins 2 and 3. Biochemical Journal, 2010, 432, 313-321.	1.7	52
159	Hypochlorite- and Hypobromite-Mediated Radical Formation and Its Role in Cell Lysis. Archives of Biochemistry and Biophysics, 2001, 395, 137-145.	1.4	51
160	Inactivation of cellular caspases by peptide-derived tryptophan and tyrosine peroxides. FEBS Letters, 2002, 527, 289-292.	1.3	51
161	The Role of Aromatic Amino Acid Oxidation, Protein Unfolding, and Aggregation in the Hypobromous Acid-Induced Inactivation of Trypsin Inhibitor and Lysozyme. Chemical Research in Toxicology, 2005, 18, 1669-1677.	1.7	51
162	Identification of Plasma Proteins That Are Susceptible to Thiol Oxidation by Hypochlorous Acid and <i>N</i>-Chloramines. Chemical Research in Toxicology, 2008, 21, 1832-1840.	1.7	51

#	Article	IF	Citations
163	The nitroxide TEMPO is an efficient scavenger of protein radicals: Cellular and kinetic studies. Free Radical Biology and Medicine, 2012, 53, 1664-1674.	1.3	51
164	Formation and detection of oxidant-generated tryptophan dimers in peptides and proteins. Free Radical Biology and Medicine, 2017, 113, 132-142.	1.3	51
165	Mechanisms and consequences of oxidative damage to extracellular matrix. Biochemical Society Transactions, 2011, 39, 1279-1287.	1.6	50
166	Kinetics of Hypobromous Acid-Mediated Oxidation of Lipid Components and Antioxidants. Chemical Research in Toxicology, 2007, 20, 1980-1988.	1.7	49
167	Hypobromous acid and bromamine production by neutrophils and modulation by superoxide. Biochemical Journal, 2009, 417, 773-781.	1.7	49
168	Selenium-containing indolyl compounds: Kinetics of reaction with inflammation-associated oxidants and protective effect against oxidation of extracellular matrix proteins. Free Radical Biology and Medicine, 2017, 113, 395-405.	1.3	49
169	Hypochlorite-induced oxidation of thiols: Formation of thiyl radicals and the role of sulfenyl chlorides as intermediates. Free Radical Research, 2000, 33, 719-729.	1.5	48
170	Inactivation of thiol-dependent enzymes by hypothiocyanous acid: role of sulfenyl thiocyanate and sulfenic acid intermediates. Free Radical Biology and Medicine, 2012, 52, 1075-1085.	1.3	48
171	The role of reactive N-bromo species and radical intermediates in hypobromous acid-induced protein oxidation. Free Radical Biology and Medicine, 2005, 39, 900-912.	1.3	47
172	Degradation of matrix glycosaminoglycans by peroxynitrite/peroxynitrous acid: Evidence for a hydroxyl-radical-like mechanism. Free Radical Biology and Medicine, 2007, 42, 1278-1289.	1.3	47
173	Biomarkers of oxidative stress study V: Ozone exposure of rats and its effect on lipids, proteins, and DNA in plasma and urine. Free Radical Biology and Medicine, 2013, 61, 408-415.	1.3	47
174	Identification and characterization of protein cross-links induced by oxidative reactions. Expert Review of Proteomics, 2018, 15, 665-681.	1.3	47
175	Myeloperoxidase: Mechanisms, reactions and inhibition as a therapeutic strategy in inflammatory diseases. , 2021, 218, 107685.		47
176	Benzoyl Peroxide-Induced Damage to DNA and Its Components: Direct Evidence for the Generation of Base Adducts, Sugar Radicals, and Strand Breaks. Archives of Biochemistry and Biophysics, 1996, 332, 79-91.	1.4	46
177	Protein and Low Molecular Mass Thiols as Targets and Inhibitors of Glycation Reactions. Chemical Research in Toxicology, 2006, 19, 1668-1676.	1.7	46
178	Evidence for chronically elevated serum protein oxidation in systemic lupus erythematosus patients. Free Radical Research, 2009, 43, 117-127.	1.5	46
179	Role of Mitochondrial Reactive Oxygen Species in the Activation of Cellular Signals, Molecules, and Function. Handbook of Experimental Pharmacology, 2016, 240, 439-456.	0.9	46
180	Nature of oxide-supported copper(II) ions and copper derived from copper(II) chloride. Journal of the Chemical Society Faraday Transactions I, 1987, 83, 1347.	1.0	45

#	Article	IF	Citations
181	High plasma thiocyanate levels modulate protein damage induced by myeloperoxidase and perturb measurement of 3-chlorotyrosine. Free Radical Biology and Medicine, 2012, 53, 20-29.	1.3	45
182	Oxidation and modification of extracellular matrix and its role in disease. Free Radical Research, 2014, 48, 970-989.	1.5	45
183	Chromium(VI) Reduction by Catechol(amine)s Results in DNA Cleavage in Vitro:â€‰ Relevance to Chromium Genotoxicity. Chemical Research in Toxicology, 2001, 14, 500-510.	1.7	44
184	Heparan Sulfate Degradation via Reductive Homolysis of Its N-Chloro Derivatives. Journal of the American Chemical Society, 2006, 128, 3085-3097.	6.6	44
185	Oxidation of free, peptide and protein tryptophan residues mediated by AAPH-derived free radicals: role of alkoxyl and peroxyl radicals. RSC Advances, 2016, 6, 57948-57955.	1.7	44
186	Dynamics of reaction of [meso-tetrakis(2,6-dimethyl-3-sulfonatophenyl)porphinato]iron(III) hydrate with tert-butyl hydroperoxide in aqueous solution. II. Establishment of a mechanism that involves homolytic oxygen-oxygen bond breaking and one-electron oxidation of the iron(III) porphyrin. Journal of the American Chemical Society, 1989, 111, 1477-1483.	6.6	43
187	Protein Hydroperoxides and Carbonyl Groups Generated by Porphyrin-Induced Photo-oxidation of Bovine Serum Albumin. Archives of Biochemistry and Biophysics, 1998, 350, 249-258.	1.4	43
188	Induction of DNA damage by oxidised amino acids and proteins. Biogerontology, 2002, 3, 95-102.	2.0	43
189	Glycation and glycoxidation of low-density lipoproteins by glucose and low-molecular mass aldehydes. Formation of modified and oxidized particles. FEBS Journal, 2003, 270, 3572-3582.	0.2	43
190	Peroxynitrite-mediated oxidation of plasma fibronectin. Free Radical Biology and Medicine, 2016, 97, 602-615.	1.3	43
191	Applications of electron spin resonance spectroscopy to the identification of radicals produced during lipid peroxidation. Chemistry and Physics of Lipids, 1987, 44, 149-173.	1.5	42
192	3-Hydroxylysine, a Potential Marker for Studying Radical-Induced Protein Oxidationâ€. Chemical Research in Toxicology, 1998, 11, 1265-1273.	1.7	42
193	Superoxide radicals can act synergistically with hypochlorite to induce damage to proteins. FEBS Letters, 2002, 510, 41-44.	1.3	42
194	Hydrazine compounds inhibit glycation of low-density lipoproteins and prevent the in vitro formation of model foam cells from glycolaldehyde-modified low-density lipoproteins. Diabetologia, 2006, 49, 775-783.	2.9	42
195	Concentrations of iron correlate with the extent of protein, but not lipid, oxidation in advanced human atherosclerotic lesions. Free Radical Biology and Medicine, 2006, 40, 1636-1643.	1.3	42
196	Myeloperoxidase-derived oxidants inhibit sarco/endoplasmic reticulum Ca2+-ATPase activity and perturb Ca2+ homeostasis in human coronary artery endothelial cells. Free Radical Biology and Medicine, 2012, 52, 951-961.	1.3	42
197	The nitroxide radical TEMPOL prevents obesity, hyperlipidaemia, elevation of inflammatory cytokines, and modulates atherosclerotic plaque composition in apoEâˆ'/âˆ' mice. Atherosclerosis, 2015, 240, 234-241.	0.4	42
198	Chlorination and oxidation of human plasma fibronectin by myeloperoxidase-derived oxidants, and its consequences for smooth muscle cell function. Redox Biology, 2018, 19, 388-400.	3.9	42

#	Article	IF	Citations
199	Secondary radicals derived from chloramines of apolipoprotein B-100 contribute to HOCl-induced lipid peroxidation of low-density lipoproteins. Biochemical Journal, 1999, 339, 489.	1.7	41
200	Tryptophan residues are targets in hypothiocyanous acid-mediated protein oxidation. Biochemical Journal, 2008, 416, 441-452.	1.7	41
201	Peroxynitrite modifies the structure and function of the extracellular matrix proteoglycan perlecan by reaction with both the protein core and the heparan sulfate chains. Free Radical Biology and Medicine, 2010, 49, 282-293.	1.3	41
202	Comparative reactivity of the myeloperoxidase-derived oxidants hypochlorous acid and hypothiocyanous acid with human coronary artery endothelial cells. Free Radical Biology and Medicine, 2013, 65, 1352-1362.	1.3	41
203	Free radical formation in isolated murine keratinocytes treated with organic peroxides and its modulation by antioxidants. Carcinogenesis, 1993, 14, 1615-1620.	1.3	40
204	Cellular effects of peptide and protein hydroperoxides. Free Radical Biology and Medicine, 2010, 48, 1071-1078.	1.3	40
205	Electron spin resonance. Part 67. Oxidation of aliphatic sulphides and sulphoxides by the sulphate radical anion (SO4â€"Ë™) and of aliphatic radicals by the peroxydisulphate anion (S2O82â€"). Journal of the Chemical Society Perkin Transactions II, 1984, , 503-509.	0.9	39
206	Rearrangements in Model Peptide-Type Radicalsvia Intramolecular Hydrogen-Atom Transfer. Helvetica Chimica Acta, 2006, 89, 2254-2272.	1.0	39
207	Riboflavin-induced Type 1 photo-oxidation of tryptophan using a high intensity 365â€¯nm light emitting diode. Free Radical Biology and Medicine, 2019, 131, 133-143.	1.3	39
208	A Hydrogen-Donating Monohydroxamate Scavenges Ferryl Myoglobin Radicals. Free Radical Research, 1994, 20, 219-227.	1.5	38
209	The Bactericidal Action of Peroxides; An E.P.R. Spin-Trapping Study. Free Radical Research, 1994, 21, 147-167.	1.5	38
210	Singlet oxygen-mediated protein oxidation: evidence for the formation of reactive peroxides. Redox Report, 2000, 5, 159-161.	1.4	38
211	Fragmentation of extracellular matrix by hypochlorous acid. Biochemical Journal, 2003, 376, 219-227.	1.7	38
212	Degradation of extracellular matrix and its components by hypobromous acid. Biochemical Journal, 2007, 401, 587-596.	1.7	38
213	Inhibition of protein tyrosine phosphatases by amino acid, peptide, and protein hydroperoxides: Potential modulation of cell signaling by protein oxidation products. Free Radical Biology and Medicine, 2007, 42, 1543-1551.	1.3	38
214	Oxidative Crosslinking of Peptides and Proteins: Mechanisms of Formation, Detection, Characterization and Quantification. Molecules, 2022, 27, 15.	1.7	38
215	Direct evidence for hydroxyl radical-induced damage to nucleic acids by chromium(VI)-derived species: implications for chromium carcinogenesis. Carcinogenesis, 1995, 16, 875-882.	1.3	37
216	EPR Studies of Chromium(V) Intermediates Generated via Reduction of Chromium(VI) by DOPA and Related Catecholamines:Â Potential Role for Oxidized Amino Acids in Chromium-Induced Cancers. Inorganic Chemistry, 2000, 39, 2729-2739.	1.9	37

#	Article	IF	Citations
217	Deleterious effects of reactive aldehydes and glycated proteins on macrophage proteasomal function: Possible links between diabetes and atherosclerosis. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2010, 1802, 561-571.	1.8	37
218	Catalytic activity of selenomethionine in removing amino acid, peptide, and protein hydroperoxides. Free Radical Biology and Medicine, 2011, 51, 2288-2299.	1.3	37
219	Î±- and Î²-casein aggregation induced by riboflavin-sensitized photo-oxidation occurs via di-tyrosine cross-links and is oxygen concentration dependent. Food Chemistry, 2018, 256, 119-128.	4.2	37
220	Complex diseases and co-morbidities: polycystic ovary syndrome and type 2 diabetes mellitus. Endocrine Connections, 2019, 8, R71-R75.	0.8	37
221	Free radical formation in murine skin treated with tumour promoting organic peroxides. Carcinogenesis, 1993, 14, 1499-1503.	1.3	36
222	Cell-mediated reduction of protein and peptide hydroperoxides to reactive free radicals. Free Radical Biology and Medicine, 2003, 34, 44-55.	1.3	35
223	Accumulation of Zinc in Human Atherosclerotic Lesions Correlates With Calcium Levels But Does Not Protect Against Protein Oxidation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2008, 28, 1024-1030.	1.1	35
224	Peroxynitrous acid induces structural and functional modifications to basement membranes and its key component, laminin. Free Radical Biology and Medicine, 2015, 89, 721-733.	1.3	35
225	An EPR study of the transfer of radical-induced damage from the base to sugar in nucleic acid components: relevance to the occurrence of strand-breakage. Journal of the Chemical Society Perkin Transactions II, 1992, , 1379.	0.9	34
226	Serum protein oxidation and apolipoprotein CIII levels in people with systemic lupus erythematosus with and without nephritis. Free Radical Research, 2007, 41, 1301-1312.	1.5	34
227	Chemical Modification of Lysozyme, Glucose 6-Phosphate Dehydrogenase, and Bovine Eye Lens Proteins Induced by Peroxyl Radicals: Role of Oxidizable Amino Acid Residues. Chemical Research in Toxicology, 2013, 26, 67-77.	1.7	34
228	Inhibition of myeloperoxidase- and neutrophil-mediated oxidant production by tetraethyl and tetramethyl nitroxides. Free Radical Biology and Medicine, 2014, 70, 96-105.	1.3	34
229	Oxidation modifies the structure and function of the extracellular matrix generated by human coronary artery endothelial cells. Biochemical Journal, 2014, 459, 313-322.	1.7	34
230	Effect of Oxidation and Protein Unfolding on Cross-Linking of Î²-Lactoglobulin and Î±-Lactalbumin. Journal of Agricultural and Food Chemistry, 2017, 65, 10258-10269.	2.4	34
231	Superoxide radicals react with peptide-derived tryptophan radicals with very high rate constants to give hydroperoxides as major products. Free Radical Biology and Medicine, 2018, 118, 126-136.	1.3	34
232	Azocompounds as generators of defined radical species: Contributions and challenges for free radical research. Free Radical Biology and Medicine, 2020, 160, 78-91.	1.3	34
233	Neuroprotectant effects of iso-osmolar d-mannitol to prevent Pacific ciguatoxin-1 induced alterations in neuronal excitability: A comparison with other osmotic agents and free radical scavengers. Neuropharmacology, 2005, 49, 669-686.	2.0	33
234	Preventing Protein Oxidation with Sugars: Scavenging of Hypohalous Acids by 5-Selenopyranose and 4-Selenofuranose Derivatives. Chemical Research in Toxicology, 2012, 25, 2589-2599.	1.7	33

#	Article	IF	Citations
235	Thiocyanate supplementation decreases atherosclerotic plaque in mice expressing human myeloperoxidase. Free Radical Research, 2015, 49, 743-749.	1.5	33
236	Cellular targets of the myeloperoxidase-derived oxidant hypothiocyanous acid (HOSCN) and its role in the inhibition of glycolysis in macrophages. Free Radical Biology and Medicine, 2016, 94, 88-98.	1.3	33
237	Apolipoprotein A-I glycation by Glucose and Reactive Aldehydes Alters Phospholipid Affinity but Not Cholesterol Export from Lipid-Laden Macrophages. PLoS ONE, 2013, 8, e65430.	1.1	33
238	Studies on the Effects of Antioxidants and Inhibitors of Radical Generation on Free Radical Production in the Reperfused Rat Heart Using Electron Spin Resonance Spectroscopy. Free Radical Research Communications, 1990, 9, 223-232.	1.8	32
239	Glycation of low-density lipoprotein results in the time-dependent accumulation of cholesteryl esters and apolipoprotein B-100 protein in primary human monocyte-derived macrophages. FEBS Journal, 2007, 274, 1530-1541.	2.2	32
240	Regulation and control of nitric oxide (NO) in macrophages: Protecting the â€œprofessional killer cellâ€• from its own cytotoxic arsenal via MRP1 and GSTP1. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 995-999.	1.1	32
241	Characterisation and quantification of protein oxidative modifications and amino acid racemisation in powdered infant milk formula. Free Radical Research, 2019, 53, 68-81.	1.5	32
242	Characterization of disulfide (cystine) oxidation by HOCl in a model peptide: Evidence for oxygen addition, disulfide bond cleavage and adduct formation with thiols. Free Radical Biology and Medicine, 2020, 154, 62-74.	1.3	32
243	Lipid Oxidation in Human Low-Density Lipoprotein Induced by Metmyoglobin/H2O2:â€‰ Involvement of Î±-Tocopheroxyl and Phosphatidylcholine Alkoxyl Radicals. Chemical Research in Toxicology, 1999, 12, 1173-1181.	1.7	31
244	Hypochlorous acid oxidizes methionine and tryptophan residues in myoglobin. Free Radical Biology and Medicine, 2008, 45, 789-798.	1.3	31
245	Synthesis and antioxidant capacity of 5-selenopyranose derivatives. Chemical Communications, 2011, 47, 9693.	2.2	31
246	Peroxidase catalysed cross-linking of an intrinsically unstructured protein via dityrosine bonds in the oocyst wall of the apicomplexan parasite, Eimeria maxima. International Journal for Parasitology, 2011, 41, 1157-1164.	1.3	31
247	High plasma thiocyanate levels are associated with enhanced myeloperoxidase-induced thiol oxidation and long-term survival in subjects following a first myocardial infarction. Free Radical Research, 2014, 48, 1256-1266.	1.5	31
248	Copper ion / H2O2 oxidation of Cu/Zn-Superoxide dismutase: Implications for enzymatic activity and antioxidant action. Redox Biology, 2019, 26, 101262.	3.9	31
249	Histone H1- and other protein- and amino acid-hydroperoxides can give rise to free radicals which oxidize DNA. Biochemical Journal, 1999, 344, 125.	1.7	31
250	The efficacy of monohydroxamates as free radical scavenging agents compared with di- and trihydroxamates. Biochemical Pharmacology, 1993, 45, 357-366.	2.0	30
251	Identification of radicals from hyaluronan (hyaluronic acid) and cross-linked derivatives using electron paramagnetic resonance spectroscopy. Carbohydrate Polymers, 1999, 38, 17-22.	5.1	30
252	Photo-oxidation-induced inactivation of the selenium-containing protective enzymes thioredoxin reductase and glutathione peroxidase. Free Radical Biology and Medicine, 2012, 53, 1308-1316.	1.3	30

#	Article	IF	Citations
253	Targeting the <scp>AGEâ€RAGE</scp> axis improves renal function in the context of a healthy diet low in advanced glycation endâ€product content. Nephrology, 2013, 18, 47-56.	0.7	30
254	Mass-Spectrometry-Based Identification of Cross-Links in Proteins Exposed to Photo-Oxidation and Peroxyl Radicals Using 18O Labeling and Optimized Tandem Mass Spectrometry Fragmentation. Journal of Proteome Research, 2018, 17, 2017-2027.	1.8	30
255	Hypochlorous acid-modified extracellular matrix contributes to the behavioral switching of human coronary artery smooth muscle cells. Free Radical Biology and Medicine, 2019, 134, 516-526.	1.3	30
256	One-Electron Reduction of <i>N</i>-Chlorinated and <i>N</i>-Brominated Species Is a Source of Radicals and Bromine Atom Formation. Chemical Research in Toxicology, 2011, 24, 371-382.	1.7	29
257	Key role of cysteine residues and sulfenic acids in thermal- and H2O2-mediated modification of Î²-lactoglobulin. Free Radical Biology and Medicine, 2016, 97, 544-555.	1.3	29
258	Catalytic oxidant scavenging by selenium-containing compounds: Reduction of selenoxides and N-chloramines by thiols and redox enzymes. Redox Biology, 2017, 12, 872-882.	3.9	29
259	Exposure of tropoelastin to peroxynitrous acid gives high yields of nitrated tyrosine residues, di-tyrosine cross-links and altered protein structure and function. Free Radical Biology and Medicine, 2018, 115, 219-231.	1.3	29
260	Electron spin resonance spin trapping studies on the photolytic generation of halocarbon radicals. Chemico-Biological Interactions, 1986, 58, 137-147.	1.7	28
261	Direct Detection of Radical Production in the Ischaemic and Reperfused Myocardium: Current Status. Free Radical Research Communications, 1989, 7, 275-284.	1.8	28
262	Detection and identification of macromolecule-derived radicals by epr spin trapping. Research on Chemical Intermediates, 1993, 19, 669-679.	1.3	28
263	Reaction of ferric leghemoglobin with H2O2: formation of heme-protein cross-links and dimeric species. BBA - Proteins and Proteomics, 1995, 1251, 17-22.	2.1	28
264	Is protein methylation in the human lens a result of non-enzymatic methylation by S-adenosylmethionine?. Experimental Eye Research, 2012, 99, 48-54.	1.2	28
265	Kinetics of reaction of peroxynitrite with selenium- and sulfur-containing compounds: Absolute rate constants and assessment of biological significance. Free Radical Biology and Medicine, 2015, 89, 1049-1056.	1.3	28
266	Aggregation of Î±- and Î²- caseins induced by peroxyl radicals involves secondary reactions of carbonyl compounds as well as di-tyrosine and di-tryptophan formation. Free Radical Biology and Medicine, 2018, 124, 176-188.	1.3	28
267	Binding of rose bengal to lysozyme modulates photooxidation and cross-linking reactions involving tyrosine and tryptophan. Free Radical Biology and Medicine, 2019, 143, 375-386.	1.3	28
268	Oxidation of human plasma fibronectin by inflammatory oxidants perturbs endothelial cell function. Free Radical Biology and Medicine, 2019, 136, 118-134.	1.3	28
269	Effects of Î±-Tocopherol on Carbon Tetrachloride Metabolism in Rat Liver Microsomes. Free Radical Research Communications, 1987, 3, 325-330.	1.8	27
270	Leghemoglobin-derived Radicals. Journal of Biological Chemistry, 1996, 271, 32557-32562.	1.6	27

#	Article	IF	Citations
271	Direct detection of radical generation in rat liver nuclei on treatment with tumour-promoting hydroperoxides and related compounds. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 1994, 1226, 56-64.	1.8	26
272	Comparative time-courses of copper-ion-mediated protein and lipid oxidation in low-density lipoprotein. Archives of Biochemistry and Biophysics, 2002, 400, 223-232.	1.4	26
273	Effects of cross-link breakers, glycation inhibitors and insulin sensitisers on HDL function and the non-enzymatic glycation of apolipoprotein A-I. Diabetologia, 2008, 51, 1008-1017.	2.9	26
274	Cellular effects of photogenerated oxidants and long-lived, reactive, hydroperoxide photoproducts. Free Radical Biology and Medicine, 2010, 49, 1505-1515.	1.3	26
275	Myeloperoxidase-derived oxidants rapidly oxidize and disrupt zincâ€"cysteine/histidine clusters in proteins. Free Radical Biology and Medicine, 2012, 53, 2072-2080.	1.3	26
276	Reaction of low-molecular-mass organoselenium compounds (and their sulphur analogues) with inflammation-associated oxidants. Free Radical Research, 2015, 49, 750-767.	1.5	26
277	The immunoproteasome is induced by cytokines and regulates apoptosis in human islets. Journal of Endocrinology, 2017, 233, 369-379.	1.2	26
278	Structural and functional changes in RNAse A originating from tyrosine and histidine cross-linking and oxidation induced by singlet oxygen and peroxyl radicals. Free Radical Biology and Medicine, 2018, 126, 73-86.	1.3	26
279	Whey proteins: targets of oxidation, or mediators of redox protection. Free Radical Research, 2019, 53, 1136-1152.	1.5	26
280	Effects of Protein-Derived Amino Acid Modification Products Present in Infant Formula on Metabolic Function, Oxidative Stress, and Intestinal Permeability in Cell Models. Journal of Agricultural and Food Chemistry, 2019, 67, 5634-5646.	2.4	26
281	Reaction of quinones with proteins: Kinetics of adduct formation, effects on enzymatic activity and protein structure, and potential reversibility of modifications. Free Radical Biology and Medicine, 2019, 137, 169-180.	1.3	26
282	Electron spin resonance studies. Part 64. The hydroxyl radical-induced decarboxylation of methionine and some related compounds. Journal of the Chemical Society Perkin Transactions II, 1983, , 731.	0.9	25
283	Comparison of N-Methyl Hexanoylhydroxamic Acid, a Novel Antioxidant, with Desferrioxamine and N-Acetyl Cysteine Against Reperfusion-Induced Dysfunctions in Isolated Rat Heart. Journal of Cardiovascular Pharmacology, 1993, 22, 336.	0.8	25
284	Electron paramagnetic resonance studies of the reaction of aryl radicals with nucleic acids and their components. Journal of the Chemical Society Perkin Transactions II, 1995, , 2167.	0.9	25
285	Separation, detection, and quantification of hydroperoxides formed at side-chain and backbone sites on amino acids, peptides, and proteins. Free Radical Biology and Medicine, 2008, 45, 1279-1289.	1.3	25
286	A biotin enrichment strategy identifies novel carbonylated amino acids in proteins from human plasma. Journal of Proteomics, 2017, 156, 40-51.	1.2	25
287	1,4-Anhydro-4-seleno-d-talitol (SeTal) protects endothelial function in the mouse aorta by scavenging superoxide radicals under conditions of acute oxidative stress. Biochemical Pharmacology, 2017, 128, 34-45.	2.0	25
288	Binding of myeloperoxidase to the extracellular matrix of smooth muscle cells and subsequent matrix modification. Scientific Reports, 2020, 10, 666.	1.6	25

#	Article	IF	Citations
289	An Investigation of the Chromium Oxidation State of a Monoanionic Chromium Tris(catecholate) Complex by X-ray Absorption and EPR Spectroscopies. Inorganic Chemistry, 2001, 40, 214-217.	1.9	24
290	Competitive Reduction of Perferrylmyoglobin Radicals by Protein Thiols and Plant Phenols. Journal of Agricultural and Food Chemistry, 2014, 62, 11279-11288.	2.4	24
291	Bio-Activation of Polyether Ether Ketone Using Plasma Immersion Ion Implantation: A Kinetic Model. Plasma Processes and Polymers, 2015, 12, 180-193.	1.6	24
292	Comparative reactivity of the myeloperoxidase-derived oxidants HOCl and HOSCN with low-density lipoprotein (LDL): Implications for foam cell formation in atherosclerosis. Archives of Biochemistry and Biophysics, 2015, 573, 40-51.	1.4	24
293	Changes in mitochondrial homeostasis and redox status in astronauts following long stays in space. Scientific Reports, 2016, 6, 39015.	1.6	24
294	Effect of free cysteine on the denaturation and aggregation of holo Î±-lactalbumin. International Dairy Journal, 2018, 79, 52-61.	1.5	24
295	Kinetic assessment of Michael addition reactions of alpha, beta-unsaturated carbonyl compounds to amino acid and protein thiols. Free Radical Biology and Medicine, 2021, 169, 1-11.	1.3	24
296	Free radicals, myocytes and reperfusion injury. Biochemical Society Transactions, 1990, 18, 1056-1059.	1.6	23
297	Novel human lens metabolites from normal and cataractous human lenses. Tetrahedron, 2007, 63, 4990-4999.	1.0	23
298	Cross-linking of lens crystallin proteins induced by tryptophan metabolites and metal ions: implications for cataract development. Free Radical Research, 2016, 50, 1116-1130.	1.5	23
299	Early events in copper-ion catalyzed oxidation of Î±-synuclein. Free Radical Biology and Medicine, 2018, 121, 38-50.	1.3	23
300	Absolute quantitative analysis of intact and oxidized amino acids by LC-MS without prior derivatization. Redox Biology, 2020, 36, 101586.	3.9	23
301	Photo-oxidation of lysozyme triggered by riboflavin is O2-dependent, occurs via mixed type 1 and type 2 pathways, and results in inactivation, site-specific damage and intra- and inter-molecular crosslinks. Free Radical Biology and Medicine, 2020, 152, 61-73.	1.3	23
302	Oxidation of protein disulfide bonds by singlet oxygen gives rise to glutathionylated proteins. Redox Biology, 2021, 38, 101822.	3.9	23
303	Electron spin resonance studies. Part 65. The selectivity of radical attack on halogen-containing compounds. Journal of the Chemical Society Perkin Transactions II, 1983, , 1755.	0.9	22
304	Singlet Oxygen-mediated Protein Oxidation: Evidence for the Formation of Reactive Side Chain Peroxides on Tyrosine ResiduesÂ¶. Photochemistry and Photobiology, 2002, 76, 35-46.	1.3	22
305	Reactivity of selenium-containing compounds with myeloperoxidase-derived chlorinating oxidants: Second-order rate constants and implications for biological damage. Free Radical Biology and Medicine, 2015, 84, 279-288.	1.3	22
306	Rcent developments in EPR spin-trapping. Electron Paramagnetic Resonance, 0, , 47-73.	0.2	22

#	Article	IF	Citations
307	Computational Design of Effective, Bioinspired HOCl Antioxidants: The Role of Intramolecular Cl⁺ and H⁺ Shifts. Journal of the American Chemical Society, 2012, 134, 19240-19245.	6.6	21
308	1,4-Anhydro-4-seleno-d-talitol (SeTal): a remarkable selenium-containing therapeutic molecule. New Journal of Chemistry, 2019, 43, 9759-9765.	1.4	21
309	Generation of Aggregates of Î±-Lactalbumin by UV-B Light Exposure. Journal of Agricultural and Food Chemistry, 2020, 68, 6701-6714.	2.4	21
310	Modulation of hypochlorous acid (HOCl) induced damage to vascular smooth muscle cells by thiocyanate and selenium analogues. Redox Biology, 2021, 41, 101873.	3.9	21
311	Direct Detection of Free Radical Generation in an<i>In Vivo</i>Model of Acute Lung Injury. Free Radical Research Communications, 1991, 15, 167-176.	1.8	20
312	Detection of radicals produced by reaction of hydroperoxides with rat liver microsomal fractions. Biochimica Et Biophysica Acta - General Subjects, 1992, 1116, 192-203.	1.1	20
313	Glutathione-dependent conversion of ferryl leghaemoglobin into the ferric form: a potential protective process in soybean (Glycine max) root nodules. Biochemical Journal, 1993, 289, 435-438.	1.7	20
314	Glycation and glycoxidation of low-density lipoproteins by glucose and low-molecular mass aldehydes. FEBS Journal, 2003, 270, 3572-3582.	0.2	20
315	Guanine-specific DNA damage induced by Î³-irradiated histone. Biochemical Journal, 2005, 388, 813-818.	1.7	20
316	Unrestricted Mass Spectrometric Data Analysis for Identification, Localization, and Quantification of Oxidative Protein Modifications. Journal of Proteome Research, 2017, 16, 3978-3988.	1.8	20
317	Formation of protein cross-links by singlet oxygen-mediated disulfide oxidation. Redox Biology, 2021, 41, 101874.	3.9	20
318	Enzymatic cross-linking of collagens in organ fibrosis â€“ resolution and assessment. Expert Review of Molecular Diagnostics, 2021, 21, 1049-1064.	1.5	20
319	Photobiocatalysis by a Lytic Polysaccharide Monooxygenase Using Intermittent Illumination. ACS Sustainable Chemistry and Engineering, 2020, 8, 9301-9310.	3.2	20
320	EPR spin-trapping studies of the reaction of the hydroxyl radical with pyrimidine nucleobases, nucleosides and nucleotides, polynucleotides, and RNA. Direct evidence for sites of initial attack and for strand breakage. Journal of the Chemical Society Perkin Transactions II, 1993, , 2039.	0.9	19
321	Absolute rate constants for the formation of nitrogen-centred radicals from chloramines/amides and their reactions with antioxidants. Perkin Transactions II RSC, 2002, , 1461.	1.1	19
322	Effect of Side Chains on Competing Pathways for Î²-Scission Reactions of Peptide-Backbone Alkoxyl Radicals. Journal of Physical Chemistry A, 2006, 110, 10316-10323.	1.1	19
323	Reversible Binding of Kynurenine to Lens Proteins: Potential Protection by Glutathione in Young Lenses. , 2007, 48, 3705.		19
324	Perturbation of Human Coronary Artery Endothelial Cell Redox State and NADPH Generation by Methylglyoxal. PLoS ONE, 2014, 9, e86564.	1.1	19

#	Article	IF	Citations
325	The smoking-associated oxidant hypothiocyanous acid induces endothelial nitric oxide synthase dysfunction. Biochemical Journal, 2014, 457, 89-97.	1.7	19
326	Is polycystic ovary syndrome a 20th Century phenomenon?. Medical Hypotheses, 2019, 124, 31-34.	0.8	19
327	Interaction kinetics of selenium-containing compounds with oxidants. Free Radical Biology and Medicine, 2020, 155, 58-68.	1.3	19
328	Radical production from peroxide and peracid tumour promoters: EPR spin trapping studies. Biochimica Et Biophysica Acta - General Subjects, 1993, 1157, 23-31.	1.1	18
329	The reactivity of ascorbate with different redox states of leghaemoglobin. Phytochemistry, 1995, 39, 1281-1286.	1.4	18
330	Leghemoglobin: Properties and Reactions. Advances in Inorganic Chemistry, 1998, 46, 495-542.	0.4	18
331	EPR Spin-trapping studies of radical damage to DNA. Journal of the Chemical Society Perkin Transactions II, 1995, , 13.	0.9	17
332	Degradation of extracellular matrix by peroxynitrite/peroxynitrous acid. Free Radical Biology and Medicine, 2008, 45, 716-725.	1.3	17
333	Inhibition and crosslinking of the selenoprotein thioredoxin reductase-1 by p-benzoquinone. Redox Biology, 2020, 28, 101335.	3.9	17
334	Role of thiocyanate in the modulation of myeloperoxidase-derived oxidant induced damage to macrophages. Redox Biology, 2020, 36, 101666.	3.9	17
335	Anthocyanin complex niosome gel accelerates oral wound healing: In vitro and clinical studies. Nanomedicine: Nanotechnology, Biology, and Medicine, 2021, 37, 102423.	1.7	17
336	Identification of the site of the globin-derived radical in leghaemoglobins. BBA - Proteins and Proteomics, 1993, 1202, 182-188.	2.1	16
337	EPR Spin-trapping studies of the reaction of radicals derived from hydroperoxide tumour-promoters with nucleic acids and their components. Journal of the Chemical Society Perkin Transactions II, 1995, , 895.	0.9	16
338	Temperature Activated Diffusion of Radicals through Ion Implanted Polymers. ACS Applied Materials & Interfaces, 2015, 7, 26340-26345.	4.0	16
339	The myeloperoxidase-derived oxidant hypothiocyanous acid inhibits protein tyrosine phosphatases via oxidation of key cysteine residues. Free Radical Biology and Medicine, 2016, 90, 195-205.	1.3	16
340	Identification and quantification of sites of nitration and oxidation in the key matrix protein laminin and the structural consequences of these modifications. Redox Biology, 2019, 24, 101226.	3.9	16
341	Amino acid, peptide, and protein hydroperoxides and their decomposition products modify the activity of the 26S proteasome. Free Radical Biology and Medicine, 2011, 50, 389-399.	1.3	15
342	Analysis of protein chlorination by mass spectrometry. Redox Biology, 2019, 26, 101236.	3.9	15

#	Article	IF	Citations
343	Modulation of the Cellular Expression of Circulating Advanced Glycation End-Product Receptors in Type 2 Diabetic Nephropathy. Experimental Diabetes Research, 2010, 2010, 1-9.	3.8	14
344	Oxidant-induced glutathionylation at protein disulfide bonds. Free Radical Biology and Medicine, 2020, 160, 513-525.	1.3	14
345	Dynein regulates Kv7.4 channel trafficking from the cell membrane. Journal of General Physiology, 2021, 153, .	0.9	14
346	Effect of macromolecular crowding on protein oxidation: Consequences on the rate, extent and oxidation pathways. Redox Biology, 2021, 48, 102202.	3.9	14
347	EPR spin-trapping studies of radicals generated from the FeII-catalysed degradation of nucleobase, nucleoside, RNA and DNA hydroperoxidesâ€Šâ€. Journal of the Chemical Society Perkin Transactions II, 1997, , 2525-2532.	0.9	13
348	The leucine-rich repeat domain of human peroxidasin 1 promotes binding to laminin in basement membranes. Archives of Biochemistry and Biophysics, 2020, 689, 108443.	1.4	13
349	An EPR spin trapping study of albumin protein radicals formed by the photodynamic action of haematoporphyrin. Journal of Photochemistry and Photobiology B: Biology, 1993, 21, 167-173.	1.7	12
350	Conformational changes induced in bovine serum albumin by the photodynamic action of haematoporphyrin. Journal of Photochemistry and Photobiology B: Biology, 1994, 24, 117-122.	1.7	12
351	EPR spin-labelling and spin-trapping study of proteins in reverse micelles. Journal of the Chemical Society, Faraday Transactions, 1994, 90, 2643.	1.7	12
352	Site-specific hypochlorous acid-induced oxidation of recombinant human myoglobin affects specific amino acid residues and the rate of cytochrome b5-mediated heme reduction. Free Radical Biology and Medicine, 2010, 48, 35-46.	1.3	12
353	Inhibition of lysosomal function in macrophages incubated with elevated glucose concentrations: A potential contributory factor in diabetes-associated atherosclerosis. Atherosclerosis, 2012, 223, 144-151.	0.4	12
354	Methylglyoxal-induced modification of arginine residues decreases the activity of NADPH-generating enzymes. Free Radical Biology and Medicine, 2013, 61, 229-242.	1.3	12
355	Role of Myeloperoxidase Oxidants in the Modulation of Cellular Lysosomal Enzyme Function: A Contributing Factor to Macrophage Dysfunction in Atherosclerosis?. PLoS ONE, 2016, 11, e0168844.	1.1	12
356	Synthesis and antioxidant capacity of novel stable 5-tellurofuranose derivatives. Chemical Communications, 2018, 54, 2990-2993.	2.2	12
357	Carnosine and Carcinine Derivatives Rapidly React with Hypochlorous Acid to Form Chloramines and Dichloramines. Chemical Research in Toxicology, 2019, 32, 513-525.	1.7	12
358	Iodide modulates protein damage induced by the inflammation-associated heme enzyme myeloperoxidase. Redox Biology, 2020, 28, 101331.	3.9	12
359	Formation and characterization of crosslinks, including Tyrâ€"Trp species, on one electron oxidation of free Tyr and Trp residues by carbonate radical anion. RSC Advances, 2020, 10, 25786-25800.	1.7	12
360	The use of electron-spin-resonance techniques to detect free-radical formation and tissue damage. Proceedings of the Nutrition Society, 1988, 47, 397-405.	0.4	11

#	Article	IF	Citations
361	Effect of Exposure of Human Monocyte-Derived Macrophages to High, versus Normal, Glucose on Subsequent Lipid Accumulation from Glycated and Acetylated Low-Density Lipoproteins. Experimental Diabetes Research, 2011, 2011, 1-10.	3.8	11
362	Reduced metal ion concentrations in atherosclerotic plaques from subjects with Type 2 diabetes mellitus. Atherosclerosis, 2012, 222, 512-518.	0.4	11
363	Chasing great paths of Helmut Sies â€œOxidative Stressâ€• Archives of Biochemistry and Biophysics, 2016, 595, 54-60.	1.4	11
364	Effect of Methylglyoxal-Induced Glycation on the Composition and Structure of Î²-Lactoglobulin and Î±-Lactalbumin. Journal of Agricultural and Food Chemistry, 2019, 67, 699-710.	2.4	11
365	Modification of Cys residues in human thioredoxin-1 by p-benzoquinone causes inhibition of its catalytic activity and activation of the ASK1/p38-MAPK signalling pathway. Redox Biology, 2020, 29, 101400.	3.9	11
366	Myeloperoxidase-derived damage to human plasma fibronectin: Modulation by protein binding and thiocyanate ions (SCNâˆ’). Redox Biology, 2020, 36, 101641.	3.9	11
367	Cross-linking and modification of fibronectin by peroxynitrous acid: Mapping and quantification of damage provides a new model for domain interactions. Journal of Biological Chemistry, 2021, 296, 100360.	1.6	11
368	Oral pre-treatment with thiocyanate (SCNâˆ’) protects against myocardial ischaemiaâ€“reperfusion injury in rats. Scientific Reports, 2021, 11, 12712.	1.6	11
369	Myocardial Tissue Preparation for ESR Spectroscopy: Some Methods May Cause Artifactual Generation of Signals. Free Radical Research Communications, 1990, 9, 55-63.	1.8	10
370	A study of photochemically-generated protein radical spin adducts on bovine serum albumin: the detection of genuine spin-trapping and artefactual, non-radical addition in the same molecule. Redox Report, 1997, 3, 225-231.	1.4	10
371	The structure of Lactococcus lactis thioredoxin reductase reveals molecular features of photo-oxidative damage. Scientific Reports, 2017, 7, 46282.	1.6	10
372	The peroxyl radical-induced oxidation of Escherichia coli FtsZ and its single tryptophan mutant (Y222W) modifies specific side-chains, generates protein cross-links and affects biological function. Free Radical Biology and Medicine, 2017, 112, 60-68.	1.3	10
373	Crosslinking of human plasma C-reactive protein to human serum albumin via disulfide bond oxidation. Redox Biology, 2021, 41, 101925.	3.9	10
374	Reaction of cysteine residues with oxidized tyrosine residues mediates cross-linking of photo-oxidized casein proteins. Food Chemistry, 2022, 385, 132667.	4.2	10
375	Electrophile versus oxidant modification of cysteine residues: Kinetics as a key driver of protein modification. Archives of Biochemistry and Biophysics, 2022, 727, 109344.	1.4	10
376	E.s.r. evidence for the multiplicity of side-chain oxidation pathways in the acid-catalysed decomposition of substituted hydroxycyclohexadienyl radicals. Journal of the Chemical Society Chemical Communications, 1984, , 966.	2.0	9
377	The synthesis and use of a15N and2H isotopically-labelled derivative of the spin-trap 3, 5-dibromo-4-nitrosobenzenesulphonic acid. Redox Report, 1996, 2, 407-410.	1.4	9
378	Effects of a novel selenium substituted-sugar (1,4-anhydro-4-seleno-d-talitol, SeTal) on human coronary artery cell lines and mouse aortic rings. Biochemical Pharmacology, 2020, 173, 113631.	2.0	9

#	Article	IF	Citations
379	High concentrations of casein proteins exacerbate radical chain reactions and increase the extent of oxidative damage. Food Hydrocolloids, 2021, 121, 107060.	5.6	9
380	Influence of plasma halide, pseudohalide and nitrite ions on myeloperoxidase-mediated protein and extracellular matrix damage. Free Radical Biology and Medicine, 2022, 188, 162-174.	1.3	9
381	Electron Spin Resonance Studies on the Degradation of Hydroperoxides by Rat Liver Cytosol. Free Radical Research Communications, 1990, 9, 251-258.	1.8	8
382	Detection of intermediates formed on reaction of Hyaluronic acid and related materials with the hydroxyl radical. Biochemical Society Transactions, 1995, 23, 248S-248S.	1.6	8
383	Epr Studies on the Effects of Complexation of Heme by Hemopexin upon its Reactions with Organic Peroxides. Free Radical Research, 1995, 23, 559-569.	1.5	8
384	Photo-oxidation of proteins and its consequences. Comprehensive Series in Photosciences, 2001, 3, 251-275.	0.3	8
385	Manganese superoxide dismutase promotes interaction of actin, S100A4 and Talin, and enhances rat gastric tumor cell invasion. Journal of Clinical Biochemistry and Nutrition, 2015, 57, 13-20.	0.6	8
386	3-Hydroxykynurenine bound to eye lens proteins induces oxidative modifications in crystalline proteins through a type I photosensitizing mechanism. Free Radical Biology and Medicine, 2019, 141, 103-114.	1.3	8
387	Manipulation of myocardial alpha-tocopherol levels fails to affect reperfusion arrhythmias or functional recovery following ischemic challenge in the rat heart. Basic Research in Cardiology, 1989, 84, 421-430.	2.5	7
388	Direct Detection of Peroxyl Radicals Formed in the Reactions of Metmyoglobin and Methaemoglobin with t-butyl Hydroperoxide. Free Radical Research Communications, 1989, 7, 27-32.	1.8	7
389	Antioxidant drugs and the inhibition of low-density lipoprotein oxidation. Biochemical Society Transactions, 1993, 21, 362-366.	1.6	7
390	Detection of protein radicals formed by the photodynamic action of porphyrin sensitizers. Biochemical Society Transactions, 1995, 23, 261S-261S.	1.6	7
391	The reactivity of thiol compounds with different redox states of leghaemoglobin: evidence for competing reduction and addition pathways. BBA - Proteins and Proteomics, 1995, 1246, 74-81.	2.1	7
392	EPR spin-trapping studies of the reaction of hydroxyl and other electrophilic radicals with uridine and related compounds. Isotopic substitution to refine analyses and aid quantificationâ€Šâ€. Journal of the Chemical Society Perkin Transactions II, 1997, , 2533-2538.	0.9	7
393	Hypochlorite-induced damage to red blood cells: evidence for the formation of nitrogen-centred radicals. Redox Report, 2000, 5, 57-59.	1.4	7
394	Tryptophan oxidation in proteins exposed to thiocyanate-derived oxidants. Archives of Biochemistry and Biophysics, 2014, 564, 1-11.	1.4	7
395	Exposure of aconitase to smoking-related oxidants results in iron loss and increased iron response protein-1 activity: potential mechanisms for iron accumulation in human arterial cells. Journal of Biological Inorganic Chemistry, 2016, 21, 305-317.	1.1	7
396	UV oxidation of cyclic AMP receptor protein, a global bacterial gene regulator, decreases DNA binding and cleaves DNA at specific sites. Scientific Reports, 2020, 10, 3106.	1.6	7

#	Article	IF	Citations
397	Unexpected light emission from tyrosyl radicals as a probe for tyrosine oxidation. Free Radical Biology and Medicine, 2020, 153, 12-16.	1.3	7
398	Role of myeloperoxidase-derived oxidants in the induction of vascular smooth muscle cell damage. Free Radical Biology and Medicine, 2021, 166, 165-177.	1.3	7
399	Biological Free Radicals. Electron Paramagnetic Resonance, 0, , 1-42.	0.2	7
400	Dynamics of spin-labelled Î±-chymotrypsin in reverse micelles of differently charged surfactants. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 3151-3155.	1.7	6
401	Protein oxidation injury occurs during pediatric cardiopulmonary bypass. Journal of Thoracic and Cardiovascular Surgery, 2005, 130, 1054-1061.	0.4	6
402	Detection, Quantification, and Total Synthesis of Novel 3-Hydroxykynurenine Glucosideâ€"Derived Metabolites Present in Human Lenses. , 2014, 55, 849.		6
403	Myeloperoxidase Modulates Hydrogen Peroxide Mediated Cellular Damage in Murine Macrophages. Antioxidants, 2020, 9, 1255.	2.2	6
404	Suppressive effect of 1,4-anhydro-4-seleno-D-talitol (SeTal) on atopic dermatitis-like skin lesions in mice through regulation of inflammatory mediators. Journal of Trace Elements in Medicine and Biology, 2021, 67, 126795.	1.5	6
405	Structural Basis for Dityrosine-Mediated Inhibition of Î±-Synuclein Fibrillization. Journal of the American Chemical Society, 2022, 144, 11949-11954.	6.6	6
406	Desferrioxamine and membrane oxidation: radical scavenger or iron chelator?. Biochemical Society Transactions, 1989, 17, 1002-1003.	1.6	5
407	Studies on cervical intraepithelial neoplasia: The level of octadeca-9,11-dienoic acid and measurement of free radical content by electron spin resonance spectroscopy. American Journal of Obstetrics and Gynecology, 1990, 162, 854-858.	0.7	5
408	Detection of radicals in oxidised lipoproteins. Biochemical Society Transactions, 1993, 21, 87S-87S.	1.6	5
409	An investigation into the genotoxic species generated during reduction of chromium(VI) by catechol(amine)s. Redox Report, 2000, 5, 130-132.	1.4	5
410	Competitive kinetics as a tool to determine rate constants for reduction of ferrylmyoglobin by food components. Food Chemistry, 2016, 199, 36-41.	4.2	5
411	Personalized nutrition in ageing society: redox control of major-age related diseases through the NutRedOx Network (COST Action CA16112). Free Radical Research, 2019, 53, 1163-1170.	1.5	5
412	Peroxynitrous acid (ONOOH) modifies the structure of anastellin and influences its capacity to polymerize fibronectin. Redox Biology, 2020, 36, 101631.	3.9	5
413	Chlorination and Nitration of DNA and Nucleic Acid Components. , 2007, , 14-39.		5
414	A Study of the Effects of Complexation of Heme by Hemopexin upon its Reactions with Organic Peroxides. Biochemical Society Transactions, 1995, 23, 244S-244S.	1.6	4

#	Article	IF	Citations
415	Damage to DNA and RNA by tumour promoter-derived alkoxyl radicals: an EPR spin trapping study. Biochemical Society Transactions, 1995, 23, 259S-259S.	1.6	4
416	Perimenopausal Bone Loss: Principally due to Estrogen Depletion. Journal of Bone and Mineral Research, 2001, 16, 2367-2367.	3.1	4
417	Prevention of degradation of the natural high potency sweetener (2R,4R)-monatin in mock beverage solutions. Food Chemistry, 2015, 173, 645-651.	4.2	4
418	Tempus fugitâ€¦. Free Radical Research, 2019, 53, 1-1.	1.5	4
419	Oxidation of lysozyme induced by peroxyl radicals involves amino acid modifications, loss of activity, and formation of specific crosslinks. Free Radical Biology and Medicine, 2021, 167, 258-270.	1.3	4
420	The Use of Membrane Filtration to Increase Native Whey Proteins in Infant Formula. Dairy, 2021, 2, 515-529.	0.7	4
421	Proteomic Characterization of Atherosclerotic Lesions In Situ Using Percutaneous Coronary Intervention Angioplasty Balloonsâ€"Brief Report. Arteriosclerosis, Thrombosis, and Vascular Biology, 2022, 42, 857-864.	1.1	4
422	Peroxynitrous acid-modified extracellular matrix alters gene and protein expression in human coronary artery smooth muscle cells and induces a pro-inflammatory phenotype. Free Radical Biology and Medicine, 2022, 186, 43-52.	1.3	4
423	Effects of N-methyl hexanoylhydroxamic acid (NMHH) and myoglobin on endothelial damage by hydrogen peroxide. Cardiovascular Research, 1994, 28, 1641-1646.	1.8	3
424	Absence of Synproportionation Between Oxy and Ferryl Leghemoglobin. Free Radical Research, 1997, 27, 165-171.	1.5	3
425	Mechanisms of Degradation of the Natural High-Potency Sweetener (2R,4R)-Monatin in Mock Beverage Solutions. Journal of Agricultural and Food Chemistry, 2014, 62, 3476-3487.	2.4	3
426	Quantification of carbonate radical formation by the bicarbonate-dependent peroxidase activity of superoxide dismutase 1 using pyrogallol red bleaching. Redox Biology, 2019, 24, 101207.	3.9	3
427	Synthesis and cellular evaluation of click-chemistry probes to study the biological effects of alpha, beta-unsaturated carbonyls. Redox Biology, 2022, 52, 102299.	3.9	3
428	Quantification and Mechanisms of Oxidative Stress in Chronic Disease. Proceedings (mdpi), 2019, 11, 18.	0.2	2
429	M. jannaschii FtsZ, a key protein in bacterial cell division, is inactivated by peroxyl radical-mediated methionine oxidation. Free Radical Biology and Medicine, 2021, 166, 53-66.	1.3	2
430	The Effects of N-Methyl Butyrohydroxamic Acid and Other Monohydroxamates on Reperfusion-Induced Damage to Contractile Function in the Isolated Rat Heart. Free Radical Research Communications, 1993, 18, 269-277.	1.8	1
431	EDITORIAL. Free Radical Research, 2012, 46, 1-1.	1.5	1
432	A Novel Method for Isolating and Culturing Human Cardiomyocytes from Cryopreserved Tissues. Biophysical Journal, 2014, 106, 564a.	0.2	1

#	Article	IF	Citations
433	Bio-functionalisation of polyether ether ketone using plasma immersion ion implantation. Proceedings of SPIE, 2015, , .	0.8	1
434	Special issue for the International Conference on Electron Paramagnetic Resonance Spectroscopy and Imaging of Biological Systems (EPR-2017). Free Radical Research, 2018, 52, 305-306.	1.5	1
435	Oxidant-mediated modification and cross-linking of beta-2-microglobulin. Free Radical Biology and Medicine, 2022, 187, 59-71.	1.3	1
436	Myocardial haem proteins, oxidant stress & free radical generation. Free Radical Biology and Medicine, 1990, 9, 182.	1.3	0
437	Novel hydroxamates and myocardial reperfusion injury. Biochemical Society Transactions, 1993, 21, 96S-96S.	1.6	0
438	Novel monohydroxamate drugs attenuate myocardial reperfusion-induced arrhythmias. International Journal of Biochemistry and Cell Biology, 1996, 28, 405-413.	1.2	0
439	3.P.108 Protein-bound hydroxylated amino acid levels are elevated in human atherosclerolic plaque. Atherosclerosis, 1997, 134, 221.	0.4	0
440	3.P.96 Peroxynitrite oxidises LDL lipids via tocopherol-mediated peroxidation. Atherosclerosis, 1997, 134, 218.	0.4	0
441	STABLE MARKERS OF OXIDANT DAMAGE TO PROTEINS AND THEIR APPLICATION IN THE STUDY OF HUMAN DISEASE. , 2001, , 17-29.		0
442	Analysis of Aliphatic Amino Acid Alcohols in Oxidized Proteins. , 2002, 186, 101-110.		0
443	Sixth Asia-Pacific EPR/ESR Symposium (APES 2008) Cairns Australia 13â€"18 July, 2008. Applied Magnetic Resonance, 2009, 36, 131-132.	0.6	0
444	Modulation of Endothelial Cell Function by Myeloperoxidase-Derived Oxidants and its Contribution To Atherosclerosis. Free Radical Biology and Medicine, 2011, 51, S40-S41.	1.3	0
445	Myeloperoxidase-Derived Oxidants Rapidly and Efficiently Oxidise Protein Zinc-Thiol Clusters. Free Radical Biology and Medicine, 2012, 53, S146.	1.3	0
446	Oxidation of Endothelial Nitric Oxide Synthase (ENOS) by Myeloperoxidase-Derived Hypothiocyanous Acid (HOSCN) is a Potential Cause of Smoking-Associated Endothelial Dysfunction. Free Radical Biology and Medicine, 2012, 53, S180.	1.3	0
447	Hypothiocyanous Acid (HOSCN) Causes Rapid Reversible and Irreversible Oxidation of Macrophage Peroxiredoxins. Free Radical Biology and Medicine, 2012, 53, S137.	1.3	0
448	Inactivation of Cellular Cathepsin Enzymes by Low-Density Lipoprotein Modified by Myeloperoxidase-Derived Oxidants. Free Radical Biology and Medicine, 2012, 53, S164.	1.3	0
449	Peroxynitrite Modulates Endothelial Cell-Derived Extracellular Matrix in Human Atherosclerotic Lesions. Free Radical Biology and Medicine, 2012, 53, S134.	1.3	0
450	Back Cover: Plasma Process. Polym. 2âˆ•2015. Plasma Processes and Polymers, 2015, 12, 194-194.	1.6	0

#	Article	IF	Citations
451	Special issue for the 7th Biennial Meeting of Society for Free Radical Research-Asia (SFRR-Asia 2015) Tj ETQq1 1 0.784314 rgBT /Over	1.5	0
452	Oxidative modifications of Î±- and Î²- caseins induced by AAPH-derived peroxyl radicals: Role of tryptophan and tyrosine residues. Free Radical Biology and Medicine, 2017, 108, S42.	1.3	0
453	THU0335â€...FIBROSIS IS NOT JUST FIBROSIS â€" TGF-Ã®â€™ AND PDGF INDUCE DIFFERENT EXTRACELLULAR MATRIX PROFILE: A MODEL OF DERMAL FIBROBLASTS WHICH MIMICS SYSTEMIC SCLEROSIS POTENTIAL FOR EVALUATION OF ANTI-FIBROTIC COMPOUNDS WITH TRANSLATIONAL BIOMARKERS. , 2019, , .		0
454	Adduction reactions of alpha,beta-unsaturated carbonyls: using kinetics to determine biologically relevant reactions.. Free Radical Biology and Medicine, 2021, 165, 17.	1.3	0
455	FREE RADICALS, MYOCYTES AND REPERFUSION INJURY. , 1991, , 438-443.		0
456	DETECTION OF MYOGLOBIN-DERIVED RADICALS BY ESR SPECTROSCOPY. , 1991, , 160-164.		0
457	ESR studies of organic free radicals from carboxylic acids and their derivatives. , 0, , 227-266.		0