Michael Jonathan Davies

List of Publications by Year
in descending order

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	Oxidative Crosslinking of Peptides and Proteins: Mechanisms of Formation, Detection, Characterization and Quantification. Molecules, 2022, 27, 15.	3.8	38
2	Defining roles of specific reactive oxygen species (ROS) in cell biology and physiology. Nature Reviews Molecular Cell Biology, 2022, 23, 499-515.	37.0	469
3	Synthesis and cellular evaluation of click-chemistry probes to study the biological effects of alpha, beta-unsaturated carbonyls. Redox Biology, 2022, 52, 102299.	9.0	3
4	Reaction of cysteine residues with oxidized tyrosine residues mediates cross-linking of photo-oxidized casein proteins. Food Chemistry, 2022, 385, 132667.	8.2	10
5	Proteomic Characterization of Atherosclerotic Lesions In Situ Using Percutaneous Coronary Intervention Angioplasty Balloonsâ€"Brief Report. Arteriosclerosis, Thrombosis, and Vascular Biology, 2022, 42, 857-864.	2.4	4
6	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.	2.9	4
7	Oxidant-mediated modification and cross-linking of beta-2-microglobulin. Free Radical Biology and Medicine, 2022, 187, 59-71.	2.9	1
8	Structural Basis for Dityrosine-Mediated Inhibition of Î±-Synuclein Fibrillization. Journal of the American Chemical Society, 2022, 144, 11949-11954.	13.7	6
9	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.	2.9	9
10	Guidelines for measuring reactive oxygen species and oxidative damage in cells and in vivo. Nature Metabolism, 2022, 4, 651-662.	11.9	356
11	Electrophile versus oxidant modification of cysteine residues: Kinetics as a key driver of protein modification. Archives of Biochemistry and Biophysics, 2022, 727, 109344.	3.0	10
12	Myeloperoxidase: Mechanisms, reactions and inhibition as a therapeutic strategy in inflammatory diseases. , 2021, 218, 107685.		47
13	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.	3.4	11
14	Dynein regulates Kv7.4 channel trafficking from the cell membrane. Journal of General Physiology, 2021, 153, .	1.9	14
15	Adduction reactions of alpha,beta-unsaturated carbonyls: using kinetics to determine biologically relevant reactions.. Free Radical Biology and Medicine, 2021, 165, 17.	2.9	0
16	Processed foods drive intestinal barrier permeability and microvascular diseases. Science Advances, 2021, 7, .	10.3	80
17	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.	2.9	2
18	Role of myeloperoxidase-derived oxidants in the induction of vascular smooth muscle cell damage. Free Radical Biology and Medicine, 2021, 166, 165-177.	2.9	7

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19	Modulation of hypochlorous acid (HOCl) induced damage to vascular smooth muscle cells by thiocyanate and selenium analogues. Redox Biology, 2021, 41, 101873.	9.0	21
20	Formation of protein cross-links by singlet oxygen-mediated disulfide oxidation. Redox Biology, 2021, 41, 101874.	9.0	20
21	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.	2.9	4
22	Crosslinking of human plasma C-reactive protein to human serum albumin via disulfide bond oxidation. Redox Biology, 2021, 41, 101925.	9.0	10
23	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.	2.9	24
24	Oral pre-treatment with thiocyanate (SCNâˆ’) protects against myocardial ischaemiaâ€“reperfusion injury in rats. Scientific Reports, 2021, 11, 12712.	3.3	11
25	Enzymatic cross-linking of collagens in organ fibrosis â€“ resolution and assessment. Expert Review of Molecular Diagnostics, 2021, 21, 1049-1064.	3.1	20
26	Role of myeloperoxidase and oxidant formation in the extracellular environment in inflammation-induced tissue damage. Free Radical Biology and Medicine, 2021, 172, 633-651.	2.9	73
27	The Use of Membrane Filtration to Increase Native Whey Proteins in Infant Formula. Dairy, 2021, 2, 515-529.	2.0	4
28	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.	3.0	6
29	Anthocyanin complex niosome gel accelerates oral wound healing: In vitro and clinical studies. Nanomedicine: Nanotechnology, Biology, and Medicine, 2021, 37, 102423.	3.3	17
30	High concentrations of casein proteins exacerbate radical chain reactions and increase the extent of oxidative damage. Food Hydrocolloids, 2021, 121, 107060.	10.7	9
31	Oxidation of protein disulfide bonds by singlet oxygen gives rise to glutathionylated proteins. Redox Biology, 2021, 38, 101822.	9.0	23
32	Effect of macromolecular crowding on protein oxidation: Consequences on the rate, extent and oxidation pathways. Redox Biology, 2021, 48, 102202.	9.0	14
33	Iodide modulates protein damage induced by the inflammation-associated heme enzyme myeloperoxidase. Redox Biology, 2020, 28, 101331.	9.0	12
34	Inhibition and crosslinking of the selenoprotein thioredoxin reductase-1 by p-benzoquinone. Redox Biology, 2020, 28, 101335.	9.0	17
35	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.	4.4	9
36	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.	9.0	11

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37	Azocompounds as generators of defined radical species: Contributions and challenges for free radical research. Free Radical Biology and Medicine, 2020, 160, 78-91.	2.9	34
38	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.	3.6	12
39	Peroxynitrous acid (ONOOH) modifies the structure of anastellin and influences its capacity to polymerize fibronectin. Redox Biology, 2020, 36, 101631.	9.0	5
40	Role of thiocyanate in the modulation of myeloperoxidase-derived oxidant induced damage to macrophages. Redox Biology, 2020, 36, 101666.	9.0	17
41	Oxidant-induced glutathionylation at protein disulfide bonds. Free Radical Biology and Medicine, 2020, 160, 513-525.	2.9	14
42	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.	3.3	54
43	Myeloperoxidase-derived damage to human plasma fibronectin: Modulation by protein binding and thiocyanate ions (SCNâˆ'). Redox Biology, 2020, 36, 101641.	9.0	11
44	Myeloperoxidase Modulates Hydrogen Peroxide Mediated Cellular Damage in Murine Macrophages. Antioxidants, 2020, 9, 1255.	5.1	6
45	Generation of Aggregates of Î±-Lactalbumin by UV-B Light Exposure. Journal of Agricultural and Food Chemistry, 2020, 68, 6701-6714.	5.2	21
46	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.	2.9	32
47	Absolute quantitative analysis of intact and oxidized amino acids by LC-MS without prior derivatization. Redox Biology, 2020, 36, 101586.	9.0	23
48	The leucine-rich repeat domain of human peroxidasin 1 promotes binding to laminin in basement membranes. Archives of Biochemistry and Biophysics, 2020, 689, 108443.	3.0	13
49	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.	2.9	23
50	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.	3.3	7
51	Binding of myeloperoxidase to the extracellular matrix of smooth muscle cells and subsequent matrix modification. Scientific Reports, 2020, 10, 666.	3.3	25
52	The Role of Myeloperoxidase in Biomolecule Modification, Chronic Inflammation, and Disease. Antioxidants and Redox Signaling, 2020, 32, 957-981.	5.4	173
53	Unexpected light emission from tyrosyl radicals as a probe for tyrosine oxidation. Free Radical Biology and Medicine, 2020, 153, 12-16.	2.9	7
54	Interaction kinetics of selenium-containing compounds with oxidants. Free Radical Biology and Medicine, 2020, 155, 58-68.	2.9	19

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55	Photobiocatalysis by a Lytic Polysaccharide Monooxygenase Using Intermittent Illumination. ACS Sustainable Chemistry and Engineering, 2020, 8, 9301-9310.	6.7	20
56	Tempus fugitâ€¦. Free Radical Research, 2019, 53, 1-1.	3.3	4
57	Copper ion / H2O2 oxidation of Cu/Zn-Superoxide dismutase: Implications for enzymatic activity and antioxidant action. Redox Biology, 2019, 26, 101262.	9.0	31
58	Detection, identification, and quantification of oxidative protein modifications. Journal of Biological Chemistry, 2019, 294, 19683-19708.	3.4	250
59	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.	2.9	28
60	Whey proteins: targets of oxidation, or mediators of redox protection. Free Radical Research, 2019, 53, 1136-1152.	3.3	26
61	Is polycystic ovary syndrome a 20th Century phenomenon?. Medical Hypotheses, 2019, 124, 31-34.	1.5	19
62	Carnosine and Carcinine Derivatives Rapidly React with Hypochlorous Acid to Form Chloramines and Dichloramines. Chemical Research in Toxicology, 2019, 32, 513-525.	3.3	12
63	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.	3.3	5
64	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.	2.9	30
65	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.	2.9	8
66	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.	9.0	16
67	1,4-Anhydro-4-seleno-d-talitol (SeTal): a remarkable selenium-containing therapeutic molecule. New Journal of Chemistry, 2019, 43, 9759-9765.	2.8	21
68	Analysis of protein chlorination by mass spectrometry. Redox Biology, 2019, 26, 101236.	9.0	15
69	Quantification and Mechanisms of Oxidative Stress in Chronic Disease. Proceedings (mdpi), 2019, 11, 18.	0.2	2
70	Quantification of carbonate radical formation by the bicarbonate-dependent peroxidase activity of superoxide dismutase 1 using pyrogallol red bleaching. Redox Biology, 2019, 24, 101207.	9.0	3
71	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.	5.2	26
72	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.	2.9	26

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73	Oxidation of human plasma fibronectin by inflammatory oxidants perturbs endothelial cell function. Free Radical Biology and Medicine, 2019, 136, 118-134.	2.9	28
74	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
75	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.	5.2	11
76	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
77	Characterisation and quantification of protein oxidative modifications and amino acid racemisation in powdered infant milk formula. Free Radical Research, 2019, 53, 68-81.	3.3	32
78	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.	2.9	39
79	Complex diseases and co-morbidities: polycystic ovary syndrome and type 2 diabetes mellitus. Endocrine Connections, 2019, 8, R71-R75.	1.9	37
80	Synthesis and antioxidant capacity of novel stable 5-tellurofuranose derivatives. Chemical Communications, 2018, 54, 2990-2993.	4.1	12
81	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.	2.9	34
82	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.	8.2	37
83	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.	3.3	1
84	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.	3.7	30
85	Effect of free cysteine on the denaturation and aggregation of holo Î±-lactalbumin. International Dairy Journal, 2018, 79, 52-61.	3.0	24
86	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.	2.9	29
87	Early events in copper-ion catalyzed oxidation of Î±-synuclein. Free Radical Biology and Medicine, 2018, 121, 38-50.	2.9	23
88	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.	9.0	42
89	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.	2.9	26
90	Identification and characterization of protein cross-links induced by oxidative reactions. Expert Review of Proteomics, 2018, 15, 665-681.	3.0	47

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91	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.	2.9	28
92	A biotin enrichment strategy identifies novel carbonylated amino acids in proteins from human plasma. Journal of Proteomics, 2017, 156, 40-51.	2.4	25
93	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.	2.4	32
94	Catalytic oxidant scavenging by selenium-containing compounds: Reduction of selenoxides and N-chloramines by thiols and redox enzymes. Redox Biology, 2017, 12, 872-882.	9.0	29
95	The immunoproteasome is induced by cytokines and regulates apoptosis in human islets. Journal of Endocrinology, 2017, 233, 369-379.	2.6	26
96	The structure of Lactococcus lactis thioredoxin reductase reveals molecular features of photo-oxidative damage. Scientific Reports, 2017, 7, 46282.	3.3	10
97	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.	4.4	25
98	Formation and detection of oxidant-generated tryptophan dimers in peptides and proteins. Free Radical Biology and Medicine, 2017, 113, 132-142.	2.9	51
99	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.	2.9	49
100	Unrestricted Mass Spectrometric Data Analysis for Identification, Localization, and Quantification of Oxidative Protein Modifications. Journal of Proteome Research, 2017, 16, 3978-3988.	3.7	20
101	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.	2.9	10
102	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.	2.9	0
103	Cardiac spheroids as promising in vitro models to study the human heart microenvironment. Scientific Reports, 2017, 7, 7005.	3.3	161
104	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
105	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.	5.2	34
106	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
107	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.	2.5	12
108	Cross-linking of lens crystallin proteins induced by tryptophan metabolites and metal ions: implications for cataract development. Free Radical Research, 2016, 50, 1116-1130.	3.3	23

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109	Role of Mitochondrial Reactive Oxygen Species in the Activation of Cellular Signals, Molecules, and Function. Handbook of Experimental Pharmacology, 2016, 240, 439-456.	1.8	46
110	Reactivity of disulfide bonds is markedly affected by structure and environment: implications for protein modification and stability. Scientific Reports, 2016, 6, 38572.	3.3	101
111	Changes in mitochondrial homeostasis and redox status in astronauts following long stays in space. Scientific Reports, 2016, 6, 39015.	3.3	24
112	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.	2.9	100
113	Protein oxidation and peroxidation. Biochemical Journal, 2016, 473, 805-825.	3.7	670
114	Chasing great paths of Helmut Sies â€œOxidative Stressâ€• Archives of Biochemistry and Biophysics, 2016, 595, 54-60.	3.0	11
115	Peroxynitrite-mediated oxidation of plasma fibronectin. Free Radical Biology and Medicine, 2016, 97, 602-615.	2.9	43
116	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.	2.9	29
117	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.	3.6	44
118	Special issue for the 7th Biennial Meeting of Society for Free Radical Research-Asia (SFRR-Asia 2015) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.3	0
119	Detection and characterisation of radicals using electron paramagnetic resonance (EPR) spin trapping and related methods. Methods, 2016, 109, 21-30.	3.8	145
120	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.	2.9	33
121	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.	2.9	16
122	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.	2.6	7
123	Competitive kinetics as a tool to determine rate constants for reduction of ferrylmyoglobin by food components. Food Chemistry, 2016, 199, 36-41.	8.2	5
124	Dietary advanced glycation end-products aggravate non-alcoholic fatty liver disease. World Journal of Gastroenterology, 2016, 22, 8026.	3.3	59
125	Back Cover: Plasma Process. Polym. 2âˆ•2015. Plasma Processes and Polymers, 2015, 12, 194-194.	3.0	0
126	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.	1.4	8

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127	Low zinc and selenium concentrations in sepsis are associated with oxidative damage and inflammation. British Journal of Anaesthesia, 2015, 114, 990-999.	3.4	92
128	Thiocyanate supplementation decreases atherosclerotic plaque in mice expressing human myeloperoxidase. Free Radical Research, 2015, 49, 743-749.	3.3	33
129	Bio-functionalisation of polyether ether ketone using plasma immersion ion implantation. Proceedings of SPIE, 2015, , .	0.8	1
130	Bio-Activation of Polyether Ether Ketone Using Plasma Immersion Ion Implantation: A Kinetic Model. Plasma Processes and Polymers, 2015, 12, 180-193.	3.0	24
131	Prevention of degradation of the natural high potency sweetener (2R,4R)-monatin in mock beverage solutions. Food Chemistry, 2015, 173, 645-651.	8.2	4
132	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.	0.8	42
133	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.	3.0	24
134	Exploring oxidative modifications of tyrosine: An update on mechanisms of formation, advances in analysis and biological consequences. Free Radical Research, 2015, 49, 347-373.	3.3	101
135	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.	2.9	22
136	Reaction of low-molecular-mass organoselenium compounds (and their sulphur analogues) with inflammation-associated oxidants. Free Radical Research, 2015, 49, 750-767.	3.3	26
137	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.	9.0	222
138	Peroxynitrous acid induces structural and functional modifications to basement membranes and its key component, laminin. Free Radical Biology and Medicine, 2015, 89, 721-733.	2.9	35
139	Temperature Activated Diffusion of Radicals through Ion Implanted Polymers. ACS Applied Materials & Interfaces, 2015, 7, 26340-26345.	8.0	16
140	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.	2.9	28
141	Perturbation of Human Coronary Artery Endothelial Cell Redox State and NADPH Generation by Methylglyoxal. PLoS ONE, 2014, 9, e86564.	2.5	19
142	The smoking-associated oxidant hypothiocyanous acid induces endothelial nitric oxide synthase dysfunction. Biochemical Journal, 2014, 457, 89-97.	3.7	19
143	Glutathionylation Mediates Angiotensin IIâ€“Induced eNOS Uncoupling, Amplifying NADPH Oxidaseâ€Dependent Endothelial Dysfunction. Journal of the American Heart Association, 2014, 3, e000731.	3.7	73
144	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.	3.3	31

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145	Detection and characterisation of radicals in biological materials using EPR methodology. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 708-721.	2.4	161
146	Inhibition of myeloperoxidase- and neutrophil-mediated oxidant production by tetraethyl and tetramethyl nitroxides. Free Radical Biology and Medicine, 2014, 70, 96-105.	2.9	34
147	Supplementation with carnosine decreases plasma triglycerides andÂmodulates atherosclerotic plaque composition in diabetic apoÂEâˆ’/âˆ’ mice. Atherosclerosis, 2014, 232, 403-409.	0.8	54
148	Oxidation and modification of extracellular matrix and its role in disease. Free Radical Research, 2014, 48, 970-989.	3.3	45
149	Competitive Reduction of Perferrylmyoglobin Radicals by Protein Thiols and Plant Phenols. Journal of Agricultural and Food Chemistry, 2014, 62, 11279-11288.	5.2	24
150	Tryptophan oxidation in proteins exposed to thiocyanate-derived oxidants. Archives of Biochemistry and Biophysics, 2014, 564, 1-11.	3.0	7
151	A Critical Role for Thioredoxin-Interacting Protein in Diabetes-Related Impairment of Angiogenesis. Diabetes, 2014, 63, 675-687.	0.6	57
152	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.	5.2	3
153	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.	2.9	126
154	A Novel Method for Isolating and Culturing Human Cardiomyocytes from Cryopreserved Tissues. Biophysical Journal, 2014, 106, 564a.	0.5	1
155	Detection, Quantification, and Total Synthesis of Novel 3-Hydroxykynurenine Glucosideâ€"Derived Metabolites Present in Human Lenses. , 2014, 55, 849.		6
156	Oxidation modifies the structure and function of the extracellular matrix generated by human coronary artery endothelial cells. Biochemical Journal, 2014, 459, 313-322.	3.7	34
157	The role of vascular-derived perlecan in modulating cell adhesion, proliferation and growth factor signaling. Matrix Biology, 2014, 35, 112-122.	3.6	105
158	The modern pharmacology of paracetamol: therapeutic actions, mechanism of action, metabolism, toxicity and recent pharmacological findings. Inflammopharmacology, 2013, 21, 201-232.	3.9	440
159	Methylglyoxal-induced modification of arginine residues decreases the activity of NADPH-generating enzymes. Free Radical Biology and Medicine, 2013, 61, 229-242.	2.9	12
160	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.	2.9	47
161	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.	3.7	55
162	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.	1.6	30

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