Ronald P Mason

List of Publications by Year
in descending order

413 papers	23,283 citations	5574 82 h-index	16183 124 g-index
413 all docs	413 docs citations	413 times ranked	19088 citing authors

#	Article	IF	Citations
1	Biomarkers of Oxidative Stress Study II: Are oxidation products of lipids, proteins, and DNA markers of CCl4 poisoning?. Free Radical Biology and Medicine, 2005, 38, 698-710.	2.9	621
2	NADPH oxidaseâ€“derived free radicals are key oxidants in alcohol-induced liver disease. Journal of Clinical Investigation, 2000, 106, 867-872.	8.2	440
3	Evidence for free radical formation during the oxidation of 2â€²-7â€²-dichlorofluorescin to the fluorescent dye 2â€²-7â€²-dichlorofluorescein by horseradish peroxidase:Possible implications for oxidative stress measurements. Free Radical Biology and Medicine, 1999, 27, 873-881.	2.9	352
4	The Origin of the Hydroxyl Radical Oxygen in the Fenton Reaction. Free Radical Biology and Medicine, 1997, 22, 885-888.	2.9	341
5	The role of catalytic superoxide formation in the O2 inhibition of nitroreductase. Biochemical and Biophysical Research Communications, 1975, 67, 1267-1274.	2.1	304
6	Electron spin resonance studies of anisotropic rotational reorientation and slow tumbling in liquid and frozen media. III. Perdeuterated 2,2,6,6-tetramethyl-4-piperidone N-oxide and an analysis of fluctuating torques. The Journal of Physical Chemistry, 1975, 79, 489-511.	2.9	303
7	Spin-trapping and direct electron spin resonance investigations of the redox metabolism of quinone anticancer drugs. Biochimica Et Biophysica Acta - General Subjects, 1980, 630, 119-130.	2.4	299
8	Mitochondrial Dysfunction in SOD1^{G93A}-Bearing Astrocytes Promotes Motor Neuron Degeneration: Prevention by Mitochondrial-Targeted Antioxidants. Journal of Neuroscience, 2008, 28, 4115-4122.	3.6	285
9	Redox cycling and sulphydryl arylation; Their relative importance in the mechanism of quinone cytotoxicity to isolated hepatocytes. Chemico-Biological Interactions, 1988, 65, 157-173.	4.0	276
10	Overexpression of Cytochrome P450 CYP2J2 Protects against Hypoxia-Reoxygenation Injury in Cultured Bovine Aortic Endothelial Cells. Molecular Pharmacology, 2001, 60, 310-320.	2.3	258
11	The role of kupffer cell oxidant production in early ethanol-induced liver disease,. Free Radical Biology and Medicine, 2001, 31, 1544-1549.	2.9	231
12	Inducible nitric oxide synthase is required in alcohol-induced liver injury: studies with knockout mice. Gastroenterology, 2003, 125, 1834-1844.	1.3	227
13	DNA Damage Induced by Methylated Trivalent Arsenicals Is Mediated by Reactive Oxygen Species. Chemical Research in Toxicology, 2002, 15, 1627-1634.	3.3	224
14	Phototoxicity of nano titanium dioxides in HaCaT keratinocytesâ€”Generation of reactive oxygen species and cell damage. Toxicology and Applied Pharmacology, 2012, 263, 81-88.	2.8	205
15	Phenoxyl Free Radical Formation during the Oxidation of the Fluorescent Dye 2â€²,7â€²-Dichlorofluorescein by Horseradish Peroxidase. Journal of Biological Chemistry, 1999, 274, 28161-28168.	3.4	202
16	The oxidation of 2â€²,7â€²-dichlorofluorescin to reactive oxygen species: A self-fulfilling prophesy?. Free Radical Biology and Medicine, 2006, 40, 968-975.	2.9	201
17	Mechanism of microsomal and mitochondrial nitroreductase. Electron spin resonance evidence for nitroaromatic free radical intermediates. Biochemistry, 1975, 14, 1626-1632.	2.5	193
18	Direct evidence for in vivo hydroxyl-radical generation in experimental iron overload: an ESR spin-trapping investigation.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 8440-8444.	7.1	188

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19	Overexpression of Manganese Superoxide Dismutase Prevents Alcohol-induced Liver Injury in the Rat. Journal of Biological Chemistry, 2001, 276, 36664-36672.	3.4	184
20	Free Radicals in Toxicology. Toxicology and Applied Pharmacology, 1993, 120, 168-178.	2.8	169
21	[9] Spin-trapping methods for detecting superoxide and hydroxyl free radicals in vitro and in vivo. Methods in Enzymology, 1990, 186, 127-133.	1.0	167
22	In Vivo Evidence of Free Radical Formation in the Rat Lung after Exposure to an Emission Source Air Pollution Particle. Chemical Research in Toxicology, 1997, 10, 1104-1108.	3.3	165
23	Hydroxyl Radical Formation from Cuprous Ion and Hydrogen Peroxide: A Spin-Trapping Study. Archives of Biochemistry and Biophysics, 1995, 316, 515-522.	3.0	163
24	Nitric Oxide Trapping of the Tyrosyl Radical of Prostaglandin H Synthase-2 Leads to Tyrosine Iminoxyl Radical and Nitrotyrosine Formation. Journal of Biological Chemistry, 1997, 272, 17086-17090.	3.4	157
25	Biomarkers of oxidative stress study. Free Radical Biology and Medicine, 2005, 38, 711-718.	2.9	157
26	Using anti-5,5-dimethyl-1-pyrroline N-oxide (anti-DMPO) to detect protein radicals in time and space with immuno-spin trapping. Free Radical Biology and Medicine, 2004, 36, 1214-1223.	2.9	153
27	Photoreduction of the fluorescent dye 2â€²-7â€²-dichlorofluorescein: a spin trapping and direct electron spin resonance study with implications for oxidative stress measurements. Free Radical Biology and Medicine, 1999, 26, 148-161.	2.9	152
28	Photooxidation of Amplex red to resorufin: Implications of exposing the Amplex red assay to light. Free Radical Biology and Medicine, 2012, 53, 1080-1087.	2.9	151
29	In vivo lipidâ€derived free radical formation by NADPH oxidase in acute lung injury induced by lipopolysaccharide: a model for ARDS. FASEB Journal, 2002, 16, 1713-1720.	0.5	148
30	Biomarkers of oxidative stress study: are plasma antioxidants markers of CCl4 poisoning?. Free Radical Biology and Medicine, 2000, 28, 838-845.	2.9	144
31	Site-specific spin trapping of tyrosine radicals in the oxidation of metmyoglobin by hydrogen peroxide. Biochemical Journal, 1998, 330, 1293-1299.	3.7	140
32	Direct evidence for inhibition of free radical formation from Cu(I) and hydrogen peroxide by glutathione and other potential ligands using the EPR spin-trapping technique. Archives of Biochemistry and Biophysics, 1992, 295, 205-213.	3.0	138
33	Classifying oxidative stress by F2-isoprostane levels across human diseases: A meta-analysis. Redox Biology, 2017, 12, 582-599.	9.0	134
34	Sulfate anion free radical formation by the peroxidation of (Bi) sulfite and its reaction with hydroxyl radical scavengers. Archives of Biochemistry and Biophysics, 1988, 267, 681-689.	3.0	130
35	Delivery of the Cu/Znâ€“Superoxide dismutase gene with adenovirus reduces early alcohol-induced liver injury in rats. Gastroenterology, 2001, 120, 1241-1250.	1.3	128
36	Diphenyleneiodonium sulfate, an NADPH oxidase inhibitor, prevents early alcohol-induced liver injury in the rat. American Journal of Physiology - Renal Physiology, 2001, 280, G1005-G1012.	3.4	128

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37	ESR Spin-trapping of a Protein-derived Tyrosyl Radical from the Reaction of Cytochrome with Hydrogen Peroxide. Journal of Biological Chemistry, 1996, 271, 15498-15503.	3.4	127
38	ESR spin trapping investigation of radical formation from the reaction between hematin and tert-butyl hydroperoxide. Free Radical Biology and Medicine, 1996, 20, 199-206.	2.9	126
39	The production of reactive oxygen species by dietary flavonols. Free Radical Biology and Medicine, 1990, 9, 441-449.	2.9	125
40	Iron supplementation generates hydroxyl radical in vivo. An ESR spin-trapping investigation.. Journal of Clinical Investigation, 1995, 96, 1653-1657.	8.2	119
41	EVIDENCE THAT FREE RADICALS ARE INVOLVED IN GRAFT FAILURE FOLLOWING ORTHOTOPIC LIVER TRANSPLANTATION IN THE RATâ€"AN ELECTRON PARAMAGNETIC RESONANCE SPIN TRAPPING STUDY. Transplantation, 1992, 54, 199-204.	1.0	118
42	Nitric Oxide Trapping of Tyrosyl Radicals Generated during Prostaglandin Endoperoxide Synthase Turnover. Journal of Biological Chemistry, 1998, 273, 8903-8909.	3.4	116
43	Detection of Nitrosyl Hemoglobin in Venous Blood in the Treatment of Sickle Cell Anemia with Hydroxyurea. Molecular Pharmacology, 1999, 55, 1006-1010.	2.3	115
44	Reexamination of the mechanism of hydroxyl radical adducts formed from the reaction between familial amyotrophic lateral sclerosis-associated Cu,Zn superoxide dismutase mutants and H2O2. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 6675-6680.	7.1	114
45	Reaction of Human Hemoglobin with Peroxynitrite. Journal of Biological Chemistry, 2003, 278, 44049-44057.	3.4	114
46	When are metal ion-dependent hydroxyl and alkoxyl radical adducts of 5,5-dimethyl-1-pyrroline N-oxide artifacts?. Archives of Biochemistry and Biophysics, 1992, 296, 640-644.	3.0	113
47	Spin trapping of polyunsaturated fatty acid-derived peroxyl radicals: reassignment to alkoxyl radical adducts. Free Radical Biology and Medicine, 2001, 30, 187-197.	2.9	113
48	Leptin is key to peroxynitrite-mediated oxidative stress and Kupffer cell activation in experimental non-alcoholic steatohepatitis. Journal of Hepatology, 2013, 58, 778-784.	3.7	113
49	Mechanism of Radical Production from the Reaction of Cytochrome c with Organic Hydroperoxides.. Journal of Biological Chemistry, 1995, 270, 12709-12716.	3.4	112
50	Tripping up Trp: Modification of protein tryptophan residues by reactive oxygen species, modes of detection, and biological consequences. Free Radical Biology and Medicine, 2015, 89, 220-228.	2.9	112
51	Requirement of Arsenic Biomethylation for Oxidative DNA Damage. Journal of the National Cancer Institute, 2009, 101, 1670-1681.	6.3	110
52	Immunological identification of the heart myoglobin radical formed by hydrogen peroxide. Free Radical Biology and Medicine, 2002, 33, 364-369.	2.9	109
53	Identification of Free Radicals on Hemoglobin from its Self-peroxidation Using Mass Spectrometry and Immuno-spin Trapping. Journal of Biological Chemistry, 2004, 279, 11600-11607.	3.4	109
54	Redox regulation of <scp>NF</scp>â€ºB p50 and M1 polarization in microglia. Glia, 2015, 63, 423-440.	4.9	109

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55	In VivoProduction of Nitric Oxide in Rats after Administration of Hydroxyurea. Molecular Pharmacology, 1997, 52, 1081-1086.	2.3	108
56	Effect of Oxidative Stress on Membrane Structure: Small-Angle X-Ray Diffraction Analysis. Free Radical Biology and Medicine, 1997, 23, 419-425.	2.9	108
57	Separation and identification of DMPO adducts of oxygen-centered radicals formed from organic hydroperoxides by HPLC-ESR, ESI-MS and MS/MS. Journal of the American Society for Mass Spectrometry, 2003, 14, 862-871.	2.8	108
58	The enzymatic oxidation of Desferal to a nitroxide free radical. FEBS Letters, 1987, 222, 246-250.	2.8	107
59	Formation of reactive sulfite-derived free radicals by the activation of human neutrophils: An ESR study. Free Radical Biology and Medicine, 2012, 52, 1264-1271.	2.9	105
60	Cupricâ€“amyloid Î² peptide complex stimulates oxidation of ascorbate and generation of hydroxyl radical. Free Radical Biology and Medicine, 2004, 36, 340-347.	2.9	104
61	Self-peroxidation of Metmyoglobin Results in Formation of an Oxygen-reactive Tryptophan-centered Radical. Journal of Biological Chemistry, 1995, 270, 16075-16081.	3.4	103
62	Reassignment of organic peroxyl radical adducts. Free Radical Biology and Medicine, 1999, 27, 864-872.	2.9	101
63	Free-Radical Intermediates in the Metabolism of Toxic Chemicals. , 1982, , 161-222.		101
64	Antioxidant properties of calcium antagonists related to membrane biophysical interactions. American Journal of Cardiology, 1999, 84, 16-22.	1.6	100
65	Estimating microsecond rotational correlation times from lifetime broadening of nitroxide electron spin resonance spectra near the rigid limit. The Journal of Physical Chemistry, 1974, 78, 1321-1323.	2.9	99
66	The metabolism of 17Î²-estradiol by lactoperoxidase: a possible source of oxidative stress in breast cancer. Carcinogenesis, 1994, 15, 2637-2643.	2.8	99
67	Peroxidation of a Specific Tryptophan of Metmyoglobin by Hydrogen Peroxide. Journal of Biological Chemistry, 1997, 272, 2359-2362.	3.4	99
68	Protein Oxidation of Cytochrome c by Reactive Halogen Species Enhances Its Peroxidase Activity. Journal of Biological Chemistry, 2002, 277, 29781-29791.	3.4	99
69	Different behaviors of benznidazole as free radical generator with mammalian and Trypanosoma cruzi microsomal preparations. Archives of Biochemistry and Biophysics, 1982, 218, 585-591.	3.0	97
70	Formation of glutathione-conjugated semiquinones by the reaction of quinones with glutathione: An ESR study. Archives of Biochemistry and Biophysics, 1987, 252, 41-48.	3.0	97
71	The electron spin resonance spectrum of the tyrosyl radical. Journal of the American Chemical Society, 1985, 107, 3401-3406.	13.7	96
72	The role of gutâ€derived bacterial toxins and free radicals in alcoholâ€induced liver injury. Journal of Gastroenterology and Hepatology (Australia), 1998, 13, S39-S50.	2.8	96

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73	In vivo thiyl free radical formation from hemoglobin following administration of hydroperoxides. Archives of Biochemistry and Biophysics, 1990, 277, 402-409.	3.0	93
74	Inhibition of Excessive Neuronal Apoptosis by the Calcium Antagonist Amlodipine and Antioxidants in Cerebellar Granule Cells. Journal of Neurochemistry, 2001, 72, 1448-1456.	3.9	93
75	[17O]oxygen hyperfine structure for the hydroxyl and superoxide radical adducts of the spin traps DMPO, PBN and 4-POBN. Biochemical and Biophysical Research Communications, 1986, 141, 622-628.	2.1	92
76	SPECTROSCOPIC STUDIES OF CUTANEOUS PHOTOSENSITIZING AGENTSâ€"I. SPIN TRAPPING OF PHOTOLYSIS PRODUCTS FROM SULFANILAMIDE, 4-AMINOBENZOIC ACID AND RELATED COMPOUNDS. Photochemistry and Photobiology, 1980, 32, 563-571.	2.5	91
77	Acetaminophen: enzymatic formation of a transient phenoxyl free radical. Biochemical Pharmacology, 1984, 33, 2933-2936.	4.4	91
78	Amyloid Î² Peptides Do Not Form Peptide-derived Free Radicals Spontaneously, but Can Enhance Metal-catalyzed Oxidation of Hydroxylamines to Nitroxides. Journal of Biological Chemistry, 1999, 274, 9392-9399.	3.4	91
79	CYP2E1 is not involved in early alcohol-induced liver injury. American Journal of Physiology - Renal Physiology, 1999, 277, G1259-G1267.	3.4	89
80	In Vivo Metabolism of tert-Butyl Hydroperoxide to Methyl Radicals. EPR Spin-Trapping and DNA Methylation Studies. Chemical Research in Toxicology, 2000, 13, 1056-1064.	3.3	89
81	In Vivo Spin Trapping of Xenobiotic Free Radical Metabolites. Archives of Biochemistry and Biophysics, 1993, 303, 185-194.	3.0	88
82	Reinterpreting the best biomarker of oxidative stress: The 8-iso-PGF2Î±/PGF2Î± ratio distinguishes chemical from enzymatic lipid peroxidation. Free Radical Biology and Medicine, 2015, 83, 245-251.	2.9	88
83	Phthalates Rapidly Increase Production of Reactive Oxygen Species in Vivo: Role of Kupffer Cells. Molecular Pharmacology, 2001, 59, 744-750.	2.3	86
84	Fluorescent proteins such as eGFP lead to catalytic oxidative stress in cells. Redox Biology, 2017, 12, 462-468.	9.0	86
85	A comparison of cobalt(II) and iron(II) hydroxyl and superoxide free radical formation. Archives of Biochemistry and Biophysics, 1989, 275, 98-111.	3.0	83
86	Possible Role of Caspase-3 Inhibition in Cadmium-Induced Blockage of Apoptosis. Toxicology and Applied Pharmacology, 2000, 164, 321-329.	2.8	83
87	Interpretation of electron spin resonance spectra of spin labels undergoing very anisotropic rotational reorientation. Comments. The Journal of Physical Chemistry, 1974, 78, 1324-1329.	2.9	80
88	Formation of Protein Tyrosine ortho-Semiquinone Radical and Nitrotyrosine from Cytochrome c-derived Tyrosyl Radical. Journal of Biological Chemistry, 2004, 279, 18054-18062.	3.4	80
89	Isolation and identification of Î±-(4-pyridyl-1-oxide)-N-tert-butylnitrone radical adducts formed by the decomposition of the hydroperoxides of linoleic acid, linolenic acid, and arachidonic acid by soybean lipoxygenase. Archives of Biochemistry and Biophysics, 1991, 285, 172-180.	3.0	79
90	Cyclosporin A increases hypoxia and free radical production in rat kidneys: prevention by dietary glycine. American Journal of Physiology - Renal Physiology, 1998, 275, F595-F604.	2.7	79

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91	The fidelity of spin trapping with DMPO in biological systems. Magnetic Resonance in Chemistry, 2011, 49, 152-158.	1.9	79
92	In vivo identification of aflatoxin-induced free radicals in rat bile. Free Radical Biology and Medicine, 2003, 35, 1330-1340.	2.9	78
93	Light-enhanced free radical formation and trypanocidal action of gentian violet (crystal violet). Science, 1983, 220, 1292-1295.	12.6	77
94	The Fate of the Oxidizing Tyrosyl Radical in the Presence of Glutathione and Ascorbate. Journal of Biological Chemistry, 1998, 273, 30116-30121.	3.4	76
95	Immunochemical detection of hemoglobin-derived radicals formed by reaction with hydrogen peroxide: involvement of a protein-tyrosyl radical. Free Radical Biology and Medicine, 2003, 34, 830-839.	2.9	76
96	Superoxide and peroxyl radical generation from the reduction of polyunsaturated fatty acid hydroperoxides by soybean lipoxygenase. Archives of Biochemistry and Biophysics, 1991, 290, 153-159.	3.0	75
97	Noninvasive diagnostic tool for inflammation-induced oxidative stress using electron spin resonance spectroscopy and an extracellular cyclic hydroxylamine. Archives of Biochemistry and Biophysics, 2002, 402, 218-226.	3.0	75
98	Myeloperoxidase-induced Genomic DNA-centered Radicals. Journal of Biological Chemistry, 2010, 285, 20062-20071.	3.4	75
99	Nitric Oxide-forming Reaction between the Iron-N-Methyl-d-glucamine Dithiocarbamate Complex and Nitrite. Journal of Biological Chemistry, 2000, 275, 1551-1556.	3.4	74
100	Oxygen-derived free-radical and active oxygen complex formation from cobalt(II) chelates in vitro. Chemical Research in Toxicology, 1992, 5, 109-115.	3.3	73
101	Involvement of inducible nitric oxide synthase in hydroxyl radical-mediated lipid peroxidation in streptozotocin-induced diabetes. Free Radical Biology and Medicine, 2008, 45, 866-874.	2.9	73
102	Inducible nitric oxide synthase is key to peroxynitrite-mediated, LPS-induced protein radical formation in murine microglial BV2 cells. Free Radical Biology and Medicine, 2014, 73, 51-59.	2.9	73
103	Protective effect of glycine on renal injury induced by ischemia-reperfusion in vivo. American Journal of Physiology - Renal Physiology, 2002, 282, F417-F423.	2.7	72
104	THE INFLUENCE OF INORGANIC IONS AND ACCLIMATION SALINITY ON HEMOCYANIN-OXYGEN BINDING IN THE BLUE CRABCALLINECTES SAPIDUS. Biological Bulletin, 1983, 164, 104-123.	1.8	71
105	An in vivo ESR spin-trapping study: Free radical generation in rats from formate intoxication-- role of the Fenton reaction. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 13549-13553.	7.1	71
106	Characterization of the free radical formed in aerobic microsomal incubations containing carbon tetrachloride and NADPH. Biochemical and Biophysical Research Communications, 1979, 89, 1065-1072.	2.1	70
107	The oxidation of arachidonic acid by the cyclooxygenase activity of purified prostaglandin H synthase: Spin trapping of a carbon-centered free radical intermediate. Archives of Biochemistry and Biophysics, 1986, 249, 126-136.	3.0	70
108	A novel effect of an opioid receptor antagonist, naloxone, on the production of reactive oxygen species by microglia: a study by electron paramagnetic resonance spectroscopy. Brain Research, 2000, 854, 224-229.	2.2	70

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109	Prevention of hepatic ischemia-reperfusion injury by green tea extract. American Journal of Physiology - Renal Physiology, 2002, 283, G957-G964.	3.4	70
110	One-electron reduction of daunomycin, daunomycinone, and 7-deoxydaunomycinone by the xanthine/xanthine oxidase system: detection of semiquinone free radicals by electron spin resonance. Journal of the American Chemical Society, 1987, 109, 348-351.	13.7	68
111	Nitric Oxide: A Prostaglandin H Synthase 1 and 2 Reducing Cosubstrate That Does Not Stimulate Cyclooxygenase Activity or Prostaglandin H Synthase Expression in Murine Macrophages. Archives of Biochemistry and Biophysics, 1996, 335, 369-376.	3.0	68
112	NO Interacts with the Tyrosine Radical YDâ€¢ of Photosystem II To Form an Iminoxyl Radical. Biochemistry, 1997, 36, 1411-1417.	2.5	68
113	The reaction of oxygen with radicals from oxidation of tryptophan and indole-3-acetic acid. Biophysical Chemistry, 1997, 67, 229-237.	2.8	67
114	Copper-catalyzed Protein Oxidation and Its Modulation by Carbon Dioxide. Journal of Biological Chemistry, 2005, 280, 27402-27411.	3.4	67
115	Cadmium generates reactive oxygen- and carbon-centered radical species in rats: Insights from in vivo spin-trapping studies. Free Radical Biology and Medicine, 2008, 45, 475-481.	2.9	67
116	Free radical production requires both inducible nitric oxide synthase and xanthine oxidase in LPS-treated skin. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4616-4621.	7.1	66
117	Formation of free-radical metabolites in the reaction between soybean lipoxygenase and its inhibitors. An ESR study. Biochemistry, 1989, 28, 8363-8367.	2.5	65
118	Cu/Zn-Superoxide Dismutase Gene Attenuates Ischemia-Reperfusion Injury in the Rat Kidney. Journal of the American Society of Nephrology: JASN, 2001, 12, 2691-2700.	6.1	65
119	[55] Assay of in situ radicals by electron spin resonance. Methods in Enzymology, 1984, 105, 416-422.	1.0	64
120	Epoxidation of (+/-)-7,8-dihydroxy-7,8-dihydrobenzo[a]pyrene during (bi)sulfite autoxidation: activation of a procarcinogen by a cocarcinogen.. Proceedings of the National Academy of Sciences of the United States of America, 1986, 83, 7499-7502.	7.1	64
121	Role of Superoxide and Trace Transition Metals in the Production of Î±-Hydroxyethyl Radical from Ethanol by Microsomes from Alcohol Dehydrogenase-Deficient Deermice. Archives of Biochemistry and Biophysics, 1993, 303, 339-348.	3.0	64
122	A long-lived tyrosyl radical from the reaction between horse metmyoglobin and hydrogen peroxide. Free Radical Biology and Medicine, 2000, 28, 709-719.	2.9	63
123	Comparison of the Effect of Adenoviral Delivery of Three Superoxide Dismutase Genes Against Hepatic Ischemia-Reperfusion Injury. Human Gene Therapy, 2001, 12, 2167-2177.	2.7	63
124	Acute cadmium exposure induces stress-related gene expression in wild-type and metallothionein-I/II-null mice. Free Radical Biology and Medicine, 2002, 32, 525-535.	2.9	63
125	Electron Transfer between a Tyrosyl Radical and a Cysteine Residue in Hemoproteins:Â Spin Trapping Analysis. Journal of the American Chemical Society, 2007, 129, 13493-13501.	13.7	62
126	Combined liquid chromatography/electron paramagnetic resonance spectrometry/electrospray ionization mass spectrometry for radical identification. Analytical Chemistry, 1992, 64, 2244-2252.	6.5	61

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127	Detection of free radicals produced from the reaction of cytochrome P-450 with linoleic acid hydroperoxide. Biochemical Journal, 1997, 328, 565-571.	3.7	61
128	Nitroxide Radical Adducts in Biology: Chemistry, Applications, and Pitfalls. Biological Magnetic Resonance, 1989, , 489-546.	0.4	60
129	PRIMARY NONFUNCTION OF FATTY LIVERS PRODUCED BY ALCOHOL IS ASSOCIATED WITH A NEW, ANTIOXIDANT-INSENSITIVE FREE RADICAL SPECIES. Transplantation, 1995, 59, 674-679.	1.0	60
130	The Mechanism by which 4-Hydroxy-2,2,6,6-tetramethylpiperidene-1-oxyl (Tempol) Diverts Peroxynitrite Decomposition from Nitrating to Nitrosating Species. Chemical Research in Toxicology, 2002, 15, 506-511.	3.3	60
131	A novel protocol to identify and quantify all spin trapped free radicals from in vitro/in vivo interaction of HO and DMSO: LC/ESR, LC/MS, and dual spin trapping combinations. Free Radical Biology and Medicine, 2005, 38, 125-135.	2.9	60
132	An electron paramagnetic resonance study of the interactions between the adriamycin semiquinone, hydrogen peroxide, iron-chelators, and radical scavengers. Archives of Biochemistry and Biophysics, 1991, 286, 164-170.	3.0	59
133	Identification of all classes of spin-trapped carbon-centered radicals in soybean lipoxygenase-dependent lipid peroxidations of Ï‰-6 polyunsaturated fatty acids via LC/ESR, LC/MS, and tandem MS. Free Radical Biology and Medicine, 2003, 34, 1017-1028.	2.9	59
134	Mechanism of hydrogen peroxide-induced Cu,Zn-superoxide dismutase-centered radical formation as explored by immuno-spin trapping:. Free Radical Biology and Medicine, 2005, 38, 201-214.	2.9	59
135	Characterization of the high-resolution ESR spectra of superoxide radical adducts of 5-(diethoxyphosphoryl)-5-methyl-1-pyrrolineN-oxide (DEPMPO) and 5,5-dimethyl-1-pyrrolineN-oxide (DMPO). Analysis of conformational exchange. Free Radical Research, 2005, 39, 825-836.	3.3	59
136	Reaction of Cytochrome P450 with Cumene Hydroperoxide:â€‰ ESR Spin-Trapping Evidence for the Homolytic Scission of the Peroxide Oâ€”O Bond by Ferric Cytochrome P450 1A2. Chemical Research in Toxicology, 1996, 9, 318-325.	3.3	58
137	Synergistic Production of Lung Free Radicals by Diesel Exhaust Particles and Endotoxin. American Journal of Respiratory and Critical Care Medicine, 2005, 171, 379-387.	5.6	58
138	In vivo Free Radical Generation by Chromium (VI): An Electron Spin Resonance Spin-Trapping Investigation. Chemical Research in Toxicology, 1994, 7, 800-805.	3.3	57
139	An Electron Spin Resonance Spin-trapping Investigation of the Free Radicals Formed by the Reaction of Mitochondrial Cytochromec Oxidase with H2O2. Journal of Biological Chemistry, 1999, 274, 3308-3314.	3.4	57
140	Studies on the photosensitized reduction of resorufin and implications for the detection of oxidative stress with Amplex Red. Free Radical Biology and Medicine, 2011, 51, 153-159.	2.9	57
141	Free radical intermediates during peroxidase oxidation of 2-t-butyl-4-methoxyphenol, 2,6-di-t-butyl-4-methylphenol, and related phenol compounds. Archives of Biochemistry and Biophysics, 1989, 269, 423-432.	3.0	56
142	Dietary Glycine and Renal Denervation Prevents Cyclosporin A-Induced Hydroxyl Radical Production in Rat Kidney. Molecular Pharmacology, 1999, 56, 455-463.	2.3	56
143	Immuno-spin trapping of protein and DNA radicals: â€œTaggingâ€•free radicals to locate and understand the redox process. Free Radical Biology and Medicine, 2009, 46, 853-865.	2.9	56
144	Reinterpreting the best biomarker of oxidative stress: The 8-iso-prostaglandin F2Î±/prostaglandin F2Î± ratio shows complex origins of lipid peroxidation biomarkers in animal models. Free Radical Biology and Medicine, 2016, 95, 65-73.	2.9	56

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145	SPECTROSCOPIC STUDIES OF CUTANEOUS PHOTOSENSITIZING AGENTSâ€"II. SPIN TRAPPING OF PHOTOLYSIS PRODUCTS FROM SULFANILAMIDE AND 4-AMINOBENZOIC ACID USING 5,5-DIMETHYL-1-PYRROLINE-1-OXIDE. Photochemistry and Photobiology, 1981, 34, 147-156.	2.5	56
146	A search for oxygen-centered free radicals in the lipoxygenase/linoleic acid system. Biochemical and Biophysical Research Communications, 1986, 141, 614-621.	2.1	55
147	Identification of protein-derived tyrosyl radical in the reaction of cytochrome c and hydrogen peroxide: characterization by ESR spin-trapping, HPLC and MS. Biochemical Journal, 2002, 363, 281-288.	3.7	55
148	In vivo copper-mediated free radical production: an ESR spin-trapping study. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2002, 58, 1227-1239.	3.9	55
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