

Rafael Radi

List of Publications by Year in descending order

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270
papers

40,218
citations

2203

99
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2558

195
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276
all docs

276
docs citations

276
times ranked

24294
citing authors

#	ARTICLE	IF	CITATIONS
1	Peroxynitrite oxidation of sulfhydryls.. Journal of Biological Chemistry, 1991, 266, 4244-4250.	1.6	2,220
2	Peroxynitrite-induced membrane lipid peroxidation: The cytotoxic potential of superoxide and nitric oxide. Archives of Biochemistry and Biophysics, 1991, 288, 481-487.	1.4	2,105
3	Peroxynitrite oxidation of sulfhydryls. The cytotoxic potential of superoxide and nitric oxide. Journal of Biological Chemistry, 1991, 266, 4244-50.	1.6	1,873
4	Peroxynitrite: biochemistry, pathophysiology and development of therapeutics. Nature Reviews Drug Discovery, 2007, 6, 662-680.	21.5	1,732
5	Nitric oxide, oxidants, and protein tyrosine nitration. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 4003-4008.	3.3	1,314
6	Nitric oxide regulation of superoxide and peroxynitrite-dependent lipid peroxidation. Formation of novel nitrogen-containing oxidized lipid derivatives. Journal of Biological Chemistry, 1994, 269, 26066-26075.	1.6	1,184
7	Nitric oxide regulation of superoxide and peroxynitrite-dependent lipid peroxidation. Formation of novel nitrogen-containing oxidized lipid derivatives. Journal of Biological Chemistry, 1994, 269, 26066-75.	1.6	950
8	Oxygen radicals, nitric oxide, and peroxynitrite: Redox pathways in molecular medicine. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5839-5848.	3.3	723
9	Inhibition of Mitochondrial Electron Transport by Peroxynitrite. Archives of Biochemistry and Biophysics, 1994, 308, 89-95.	1.4	682
10	Unraveling peroxynitrite formation in biological systems. Free Radical Biology and Medicine, 2001, 30, 463-488.	1.3	677
11	Differential Inhibitory Action of Nitric Oxide and Peroxynitrite on Mitochondrial Electron Transport. Archives of Biochemistry and Biophysics, 1996, 328, 309-316.	1.4	659
12	Chemical Biology of Peroxynitrite: Kinetics, Diffusion, and Radicals. ACS Chemical Biology, 2009, 4, 161-177.	1.6	647
13	Peroxynitrite, a Stealthy Biological Oxidant. Journal of Biological Chemistry, 2013, 288, 26464-26472.	1.6	643
14	Peroxynitrite reactions and formation in mitochondria. Free Radical Biology and Medicine, 2002, 33, 1451-1464.	1.3	561
15	Peroxynitrite Reaction with Carbon Dioxide/Bicarbonate: Kinetics and Influence on Peroxynitrite-Mediated Oxidations. Archives of Biochemistry and Biophysics, 1996, 333, 49-58.	1.4	546
16	The thiol pool in human plasma: The central contribution of albumin to redox processes. Free Radical Biology and Medicine, 2013, 65, 244-253.	1.3	529
17	Aconitase is readily inactivated by peroxynitrite, but not by its precursor, nitric oxide.. Journal of Biological Chemistry, 1994, 269, 29409-29415.	1.6	522
18	Peroxynitrite reactivity with amino acids and proteins. Amino Acids, 2003, 25, 295-311.	1.2	495

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19	Protein Tyrosine Nitration: Biochemical Mechanisms and Structural Basis of Functional Effects. <i>Accounts of Chemical Research</i> , 2013, 46, 550-559.	7.6	419
20	Aconitase is readily inactivated by peroxynitrite, but not by its precursor, nitric oxide. <i>Journal of Biological Chemistry</i> , 1994, 269, 29409-15.	1.6	418
21	Biochemistry of Peroxynitrite and Protein Tyrosine Nitration. <i>Chemical Reviews</i> , 2018, 118, 1338-1408.	23.0	404
22	Diffusion of peroxynitrite across erythrocyte membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 3566-3571.	3.3	398
23	Protein tyrosine nitration—Functional alteration or just a biomarker?. <i>Free Radical Biology and Medicine</i> , 2008, 45, 357-366.	1.3	367
24	Peroxynitrite-induced luminol chemiluminescence. <i>Biochemical Journal</i> , 1993, 290, 51-57.	1.7	359
25	Guidelines for measuring reactive oxygen species and oxidative damage in cells and in vivo. <i>Nature Metabolism</i> , 2022, 4, 651-662.	5.1	356
26	Nitric Oxide and Superoxide Contribute to Motor Neuron Apoptosis Induced by Trophic Factor Deprivation. <i>Journal of Neuroscience</i> , 1998, 18, 923-931.	1.7	327
27	Fundamentals on the biochemistry of peroxynitrite and protein tyrosine nitration. <i>Redox Biology</i> , 2018, 14, 618-625.	3.9	326
28	Detection of catalase in rat heart mitochondria. <i>Journal of Biological Chemistry</i> , 1991, 266, 22028-34.	1.6	326
29	Cytochrome c Nitration by Peroxynitrite. <i>Journal of Biological Chemistry</i> , 2000, 275, 21409-21415.	1.6	321
30	Sulfenic Acid Formation in Human Serum Albumin by Hydrogen Peroxide and Peroxynitrite. <i>Biochemistry</i> , 2003, 42, 9906-9914.	1.2	289
31	Mitochondrial Dysfunction in SOD1 ^{G93A} -Bearing Astrocytes Promotes Motor Neuron Degeneration: Prevention by Mitochondrial-Targeted Antioxidants. <i>Journal of Neuroscience</i> , 2008, 28, 4115-4122.	1.7	285
32	Peroxynitrite-Induced Cytotoxicity in PC12 Cells: Evidence for an Apoptotic Mechanism Differentially Modulated by Neurotrophic Factors. <i>Journal of Neurochemistry</i> , 1995, 65, 1543-1550.	2.1	269
33	Biochemistry of protein tyrosine nitration in cardiovascular pathology. <i>Cardiovascular Research</i> , 2007, 75, 291-302.	1.8	257
34	Pathways of peroxynitrite oxidation of thiol groups. <i>Biochemical Journal</i> , 1997, 322, 167-173.	1.7	245
35	Nitric Oxide and Peroxynitrite Interactions with Mitochondria. <i>Biological Chemistry</i> , 2002, 383, 401-9.	1.2	245
36	Factors Affecting Protein Thiol Reactivity and Specificity in Peroxide Reduction. <i>Chemical Research in Toxicology</i> , 2011, 24, 434-450.	1.7	244

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37	Peroxynitrite-Dependent Tryptophan Nitration. <i>Chemical Research in Toxicology</i> , 1996, 9, 390-396.	1.7	241
38	Even free radicals should follow some rules: A Guide to free radical research terminology and methodology. <i>Free Radical Biology and Medicine</i> , 2015, 78, 233-235.	1.3	241
39	Direct EPR Detection of the Carbonate Radical Anion Produced from Peroxynitrite and Carbon Dioxide. <i>Journal of Biological Chemistry</i> , 1999, 274, 10802-10806.	1.6	240
40	Kinetics of Peroxynitrite Reaction with Amino Acids and Human Serum Albumin. <i>Journal of Biological Chemistry</i> , 1999, 274, 842-848.	1.6	236
41	Peroxynitrite inhibits T lymphocyte activation and proliferation by promoting impairment of tyrosine phosphorylation and peroxynitrite-driven apoptotic death. <i>Journal of Immunology</i> , 1999, 162, 3356-66.	0.4	226
42	Reactivity of hydrogen sulfide with peroxynitrite and other oxidants of biological interest. <i>Free Radical Biology and Medicine</i> , 2011, 50, 196-205.	1.3	199
43	Peroxynitrite-Mediated Cytotoxicity to <i>Trypanosoma cruzi</i> . <i>Archives of Biochemistry and Biophysics</i> , 1993, 304, 279-286.	1.4	197
44	Intraphagosomal Peroxynitrite as a Macrophage-derived Cytotoxin against Internalized <i>Trypanosoma cruzi</i> . <i>Journal of Biological Chemistry</i> , 2011, 286, 6627-6640.	1.6	197
45	Multifunctional Cytochrome <i>c</i> : Learning New Tricks from an Old Dog. <i>Chemical Reviews</i> , 2017, 117, 13382-13460.	23.0	189
46	On the pH-dependent yield of hydroxyl radical products from peroxynitrite. <i>Free Radical Biology and Medicine</i> , 1994, 16, 331-338.	1.3	183
47	Kinetics of Cytochrome <i>c</i> ²⁺ Oxidation by Peroxynitrite: Implications for Superoxide Measurements in Nitric Oxide-Producing Biological-Systems. <i>Archives of Biochemistry and Biophysics</i> , 1995, 319, 491-497.	1.4	177
48	Nitro-fatty Acid Reaction with Glutathione and Cysteine. <i>Journal of Biological Chemistry</i> , 2007, 282, 31085-31093.	1.6	176
49	Reaction of Peroxynitrite with Mn-Superoxide Dismutase. <i>Journal of Biological Chemistry</i> , 2001, 276, 11631-11638.	1.6	175
50	Spin-Trapping Studies of Peroxynitrite Decomposition and of 3-Morpholinopyridone N-Ethylcarbamide Autooxidation: Direct Evidence for Metal-Independent Formation of Free-Radical Intermediates. <i>Archives of Biochemistry and Biophysics</i> , 1994, 310, 118-125.	1.4	169
51	Glyceraldehyde-3-Phosphate Dehydrogenase Inactivation by Peroxynitrite. <i>Archives of Biochemistry and Biophysics</i> , 1998, 360, 187-194.	1.4	168
52	Xanthine Oxidase-mediated Decomposition of S-Nitrosothiols. <i>Journal of Biological Chemistry</i> , 1998, 273, 7828-7834.	1.6	167
53	Nitric Oxide Diffusion in Membranes Determined by Fluorescence Quenching. <i>Archives of Biochemistry and Biophysics</i> , 1996, 328, 208-212.	1.4	165
54	Nitric Oxide Reaction with Lipid Peroxyl Radicals Spares α -Tocopherol during Lipid Peroxidation. <i>Journal of Biological Chemistry</i> , 2000, 275, 10812-10818.	1.6	161

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55	Peroxynitrite Reaction with the Reduced and the Oxidized Forms of Lipoic Acid: New Insights into the Reaction of Peroxynitrite with Thiols. Archives of Biochemistry and Biophysics, 2002, 397, 91-98.	1.4	161
56	Chemiluminescent Detection of Oxidants in Vascular Tissue. Circulation Research, 1999, 84, 1203-1211.	2.0	156
57	Nitration and Inactivation of Tyrosine Hydroxylase by Peroxynitrite. Journal of Biological Chemistry, 2001, 276, 46017-46023.	1.6	156
58	Peroxynitrite Reactions and Diffusion in Biology. Chemical Research in Toxicology, 1998, 11, 720-721.	1.7	155
59	Catalytic Scavenging of Peroxynitrite by Isomeric Mn(III) N-Methylpyridylporphyrins in the Presence of Reductants. Chemical Research in Toxicology, 1999, 12, 442-449.	1.7	155
60	Reactions of Manganese Porphyrins with Peroxynitrite and Carbonate Radical Anion. Journal of Biological Chemistry, 2003, 278, 27432-27438.	1.6	155
61	Mercaptoethylguanidine and Guanidine Inhibitors of Nitric-oxide Synthase React with Peroxynitrite and Protect against Peroxynitrite-induced Oxidative Damage. Journal of Biological Chemistry, 1997, 272, 9030-9036.	1.6	153
62	Multiple thioredoxin-mediated routes to detoxify hydroperoxides in Mycobacterium tuberculosis. Archives of Biochemistry and Biophysics, 2004, 423, 182-191.	1.4	151
63	Pre-steady state kinetic characterization of human peroxiredoxin 5: Taking advantage of Trp84 fluorescence increase upon oxidation. Archives of Biochemistry and Biophysics, 2007, 467, 95-106.	1.4	149
64	Cytochrome c-catalyzed oxidation of organic molecules by hydrogen peroxide. Archives of Biochemistry and Biophysics, 1991, 288, 112-117.	1.4	147
65	Reactivity of Sulfenic Acid in Human Serum Albumin. Biochemistry, 2008, 47, 358-367.	1.2	144
66	Reactions of Nitric Oxide with Metalloproteins. Chemical Research in Toxicology, 1996, 9, 828-835.	1.7	141
67	Peroxynitrite-mediated oxidation of albumin to the protein-thiyl free radical. FEBS Letters, 1994, 348, 287-290.	1.3	136
68	Protein tyrosine nitration in hydrophilic and hydrophobic environments. Amino Acids, 2007, 32, 501-515.	1.2	132
69	Cytochrome c-catalyzed membrane lipid peroxidation by hydrogen peroxide. Archives of Biochemistry and Biophysics, 1991, 288, 118-125.	1.4	129
70	Direct Measurement of Nitric Oxide and Oxygen Partitioning into Liposomes and Low Density Lipoprotein. Journal of Biological Chemistry, 2005, 280, 8850-8854.	1.6	128
71	Nitric Oxide-Derived Oxidants with a Focus on Peroxynitrite: Molecular Targets, Cellular Responses and Therapeutic Implications. Current Pharmaceutical Design, 2011, 17, 3905-3932.	0.9	128
72	Insights into the redox biology of Trypanosoma cruzi: Trypanothione metabolism and oxidant detoxification. Free Radical Biology and Medicine, 2008, 45, 733-742.	1.3	127

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73	Macrophage-derived peroxynitrite diffusion and toxicity to <i>Trypanosoma cruzi</i> . <i>Archives of Biochemistry and Biophysics</i> , 2004, 432, 222-232.	1.4	126
74	Neuroprotective effects of the mitochondria-targeted antioxidant MitoQ in a model of inherited amyotrophic lateral sclerosis. <i>Free Radical Biology and Medicine</i> , 2014, 70, 204-213.	1.3	126
75	Mitochondrial superoxide radicals mediate programmed cell death in <i>Trypanosoma cruzi</i> : cytoprotective action of mitochondrial iron superoxide dismutase overexpression. <i>Biochemical Journal</i> , 2007, 403, 323-334.	1.7	125
76	Inactivation of human Cu,Zn superoxide dismutase by peroxynitrite and formation of histidinyl radical. <i>Free Radical Biology and Medicine</i> , 2004, 37, 813-822.	1.3	124
77	Kinetic and mechanistic considerations to assess the biological fate of peroxynitrite. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 768-780.	1.1	124
78	Peroxynitrite and drug-dependent toxicity. <i>Toxicology</i> , 2005, 208, 273-288.	2.0	122
79	Peroxiredoxins play a major role in protecting <i>Trypanosoma cruzi</i> against macrophage- and endogenously-derived peroxynitrite. <i>Biochemical Journal</i> , 2008, 410, 359-368.	1.7	122
80	Peroxynitrite Inactivates Thiol-Containing Enzymes of <i>Trypanosoma cruzi</i> Energetic Metabolism and Inhibits Cell Respiration. <i>Archives of Biochemistry and Biophysics</i> , 1994, 308, 96-102.	1.4	121
81	Pure MnTBAP selectively scavenges peroxynitrite over superoxide: Comparison of pure and commercial MnTBAP samples to MnTE-2-PyP in two models of oxidative stress injury, an SOD-specific <i>Escherichia coli</i> model and carrageenan-induced pleurisy. <i>Free Radical Biology and Medicine</i> , 2009, 46, 192-201.	1.3	119
82	Ca ²⁺ -Independent Permeabilization of the Inner Mitochondrial Membrane by Peroxynitrite Is Mediated by Membrane Protein Thiol Cross-Linking and Lipid Peroxidation. <i>Archives of Biochemistry and Biophysics</i> , 1997, 345, 243-250.	1.4	117
83	Desferrioxamine inhibition of the hydroxyl radical-like reactivity of peroxynitrite: Role of the hydroxamic groups. <i>Free Radical Biology and Medicine</i> , 1995, 19, 11-19.	1.3	115
84	Kinetics of Peroxiredoxins and their Role in the Decomposition of Peroxynitrite. <i>Sub-Cellular Biochemistry</i> , 2007, 44, 83-113.	1.0	115
85	L-Arginine-dependent suppression of apoptosis in <i>Trypanosoma cruzi</i> : Contribution of the nitric oxide and polyamine pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 7301-7306.	3.3	114
86	Reaction of Human Hemoglobin with Peroxynitrite. <i>Journal of Biological Chemistry</i> , 2003, 278, 44049-44057.	1.6	114
87	<i>Trypanosoma brucei</i> and <i>Trypanosoma cruzi</i> Tryparedoxin Peroxidases Catalytically Detoxify Peroxynitrite via Oxidation of Fast Reacting Thiols. <i>Journal of Biological Chemistry</i> , 2004, 279, 34175-34182.	1.6	114
88	Protein and lipid nitration: Role in redox signaling and injury. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2008, 1780, 1318-1324.	1.1	114
89	Mitochondrial Superoxide Production and Nuclear Factor Erythroid 2-Related Factor 2 Activation in p75 Neurotrophin Receptor-Induced Motor Neuron Apoptosis. <i>Journal of Neuroscience</i> , 2007, 27, 7777-7785.	1.7	110
90	Fighting the oxidative assault: the <i>Trypanosoma cruzi</i> journey to infection. <i>Current Opinion in Microbiology</i> , 2009, 12, 415-421.	2.3	110

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91	Alternative Conformations of Cytochrome <i>c</i> : Structure, Function, and Detection. <i>Biochemistry</i> , 2016, 55, 407-428.	1.2	110
92	Detection and quantification of nitric oxide-derived oxidants in biological systems. <i>Journal of Biological Chemistry</i> , 2019, 294, 14776-14802.	1.6	110
93	One- and two-electron oxidation of thiols: mechanisms, kinetics and biological fates. <i>Free Radical Research</i> , 2016, 50, 150-171.	1.5	109
94	Xanthine Oxidase Binding to Glycosaminoglycans: Kinetics and Superoxide Dismutase Interactions of Immobilized Xanthine Oxidase-Heparin Complexes. <i>Archives of Biochemistry and Biophysics</i> , 1997, 339, 125-135.	1.4	108
95	Time Course and Site(s) of Cytochrome <i>c</i> Tyrosine Nitration by Peroxynitrite. <i>Biochemistry</i> , 2005, 44, 8038-8046.	1.2	108
96	Mitochondrial aconitase reaction with nitric oxide, S-nitrosoglutathione, and peroxynitrite: Mechanisms and relative contributions to aconitase inactivation. <i>Free Radical Biology and Medicine</i> , 2007, 42, 1075-1088.	1.3	108
97	Enzymes of the antioxidant network as novel determiners of <i>Trypanosoma cruzi</i> virulence. <i>International Journal for Parasitology</i> , 2009, 39, 1455-1464.	1.3	107
98	Thiol and Sulfenic Acid Oxidation of AhpE, the One-Cysteine Peroxiredoxin from <i>Mycobacterium tuberculosis</i> : Kinetics, Acidity Constants, and Conformational Dynamics. <i>Biochemistry</i> , 2009, 48, 9416-9426.	1.2	104
99	Enhanced mitochondrial superoxide in hyperglycemic endothelial cells: direct measurements and formation of hydrogen peroxide and peroxynitrite. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 293, H3404-H3414.	1.5	101
100	Diffusion of Peroxynitrite in the Presence of Carbon Dioxide. <i>Archives of Biochemistry and Biophysics</i> , 1999, 368, 23-30.	1.4	100
101	Trypanothione: A unique bis-glutathionyl derivative in trypanosomatids. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 3199-3216.	1.1	100
102	<i>Trypanosoma cruzi</i> Antioxidant Enzymes As Virulence Factors in Chagas Disease. <i>Antioxidants and Redox Signaling</i> , 2013, 19, 723-734.	2.5	97
103	Tyrosine nitration by superoxide and nitric oxide fluxes in biological systems: Modeling the impact of superoxide dismutase and nitric oxide diffusion. <i>Free Radical Biology and Medicine</i> , 2005, 39, 728-741.	1.3	96
104	Nitric Oxide and Peroxynitrite-Dependent Aconitase Inactivation and Iron-Regulatory Protein-1 Activation in Mammalian Fibroblasts. <i>Archives of Biochemistry and Biophysics</i> , 1998, 359, 215-224.	1.4	95
105	Nitration of Solvent-exposed Tyrosine 74 on Cytochrome <i>c</i> Triggers Heme Iron-Methionine 80 Bond Disruption. <i>Journal of Biological Chemistry</i> , 2009, 284, 17-26.	1.6	94
106	Disruption of the M80-Fe ligation stimulates the translocation of cytochrome <i>c</i> to the cytoplasm and nucleus in nonapoptotic cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 2653-2658.	3.3	93
107	[37] Peroxynitrite reactions with carbon dioxide-bicarbonate. <i>Methods in Enzymology</i> , 1999, 301, 353-367.	0.4	92
108	Mitochondrial protein tyrosine nitration. <i>Free Radical Research</i> , 2011, 45, 37-52.	1.5	91

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109	Peroxynitrite Detoxification and Its Biologic Implications. <i>Antioxidants and Redox Signaling</i> , 2008, 10, 1607-1620.	2.5	90
110	Inactivation and nitration of human superoxide dismutase (SOD) by fluxes of nitric oxide and superoxide. <i>Free Radical Biology and Medicine</i> , 2007, 42, 1359-1368.	1.3	89
111	Modulation of Astrocytic Mitochondrial Function by Dichloroacetate Improves Survival and Motor Performance in Inherited Amyotrophic Lateral Sclerosis. <i>PLoS ONE</i> , 2012, 7, e34776.	1.1	85
112	Peroxynitrite, a potent macrophage-derived oxidizing cytotoxin to combat invading pathogens. <i>BioFactors</i> , 2014, 40, 215-225.	2.6	84
113	Cytochrome c: a catalyst and target of nitrite-hydrogen peroxide-dependent protein nitration. <i>Archives of Biochemistry and Biophysics</i> , 2004, 421, 99-107.	1.4	83
114	Formation of Protein Tyrosine ortho-Semiquinone Radical and Nitrotyrosine from Cytochrome c-derived Tyrosyl Radical. <i>Journal of Biological Chemistry</i> , 2004, 279, 18054-18062.	1.6	80
115	Neurovascular coupling in hippocampus is mediated via diffusion by neuronal-derived nitric oxide. <i>Free Radical Biology and Medicine</i> , 2014, 73, 421-429.	1.3	80
116	Physiologic Levels of Uric Acid Inhibit Xanthine Oxidase in Human Plasma. <i>Pediatric Research</i> , 1993, 34, 303-307.	1.1	78
117	Superoxide-mediated inactivation of nitric oxide and peroxynitrite formation by tobacco smoke in vascular endothelium: studies in cultured cells and smokers. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 296, H1781-H1792.	1.5	76
118	Oxidation of ubiquinol by peroxynitrite: implications for protection of mitochondria against nitrosative damage. <i>Biochemical Journal</i> , 2000, 349, 35-42.	1.7	74
119	Mechanistic Studies of Peroxynitrite-Mediated Tyrosine Nitration in Membranes Using the Hydrophobic Probe N-t-BOC-l-tyrosine tert-Butyl Ester. <i>Biochemistry</i> , 2006, 45, 6813-6825.	1.2	74
120	Reduction of manganese porphyrins by flavoenzymes and submitochondrial particles: A catalytic cycle for the reduction of peroxynitrite. <i>Free Radical Biology and Medicine</i> , 2006, 41, 503-512.	1.3	73
121	Involvement of inducible nitric oxide synthase in hydroxyl radical-mediated lipid peroxidation in streptozotocin-induced diabetes. <i>Free Radical Biology and Medicine</i> , 2008, 45, 866-874.	1.3	73
122	Diffusion of Nitric Oxide into Low Density Lipoprotein. <i>Journal of Biological Chemistry</i> , 2002, 277, 932-936.	1.6	72
123	Lipid Peroxyl Radicals Mediate Tyrosine Dimerization and Nitration in Membranes. <i>Chemical Research in Toxicology</i> , 2010, 23, 821-835.	1.7	72
124	Peroxynitrite-Mediated Decarboxylation of Pyruvate to Both Carbon Dioxide and Carbon Dioxide Radical Anion. <i>Chemical Research in Toxicology</i> , 1997, 10, 786-794.	1.7	71
125	A comprehensive evaluation of catalase-like activity of different classes of redox-active therapeutics. <i>Free Radical Biology and Medicine</i> , 2015, 86, 308-321.	1.3	71
126	Tyrosine-Nitrated Proteins: Proteomic and Bioanalytical Aspects. <i>Antioxidants and Redox Signaling</i> , 2017, 26, 313-328.	2.5	71

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127	Fluorescence and chemiluminescence approaches for peroxynitrite detection. <i>Free Radical Biology and Medicine</i> , 2018, 128, 59-68.	1.3	71
128	Leghemoglobin is nitrated in functional legume nodules in a tyrosine residue within the heme cavity by a nitrite/peroxide-dependent mechanism. <i>Plant Journal</i> , 2015, 81, 723-735.	2.8	70
129	Reaction between Peroxynitrite and Hydrogen Peroxide: Formation of Oxygen and Slowing of Peroxynitrite Decomposition. <i>Chemical Research in Toxicology</i> , 1995, 8, 859-864.	1.7	69
130	Reactions of manganese porphyrins and manganese-superoxide dismutase with peroxynitrite. <i>Methods in Enzymology</i> , 2002, 349, 23-37.	0.4	69
131	Catalysis of Peroxide Reduction by Fast Reacting Protein Thiols. <i>Chemical Reviews</i> , 2019, 119, 10829-10855.	23.0	68
132	Reactive species and pathogen antioxidant networks during phagocytosis. <i>Journal of Experimental Medicine</i> , 2019, 216, 501-516.	4.2	67
133	The trypanothione-thiol system in <i>Trypanosoma cruzi</i> as a key antioxidant mechanism against peroxynitrite-mediated cytotoxicity. <i>Archives of Biochemistry and Biophysics</i> , 2003, 412, 55-64.	1.4	66
134	Aconitases: Non-redox Iron-Sulfur Proteins Sensitive to Reactive Species. <i>Accounts of Chemical Research</i> , 2019, 52, 2609-2619.	7.6	66
135	Formation of Spin Trap Adducts during the Decomposition of Peroxynitrite. <i>Archives of Biochemistry and Biophysics</i> , 1998, 349, 36-46.	1.4	65
136	Peroxynitrite formation from biochemical and cellular fluxes of nitric oxide and superoxide. <i>Methods in Enzymology</i> , 2002, 359, 353-366.	0.4	65
137	Sensitive detection and estimation of cell-derived peroxynitrite fluxes using fluorescein-boronate. <i>Free Radical Biology and Medicine</i> , 2016, 101, 284-295.	1.3	65
138	The Role of Cytochrome c and Mitochondrial Catalase in Hydroperoxide-Induced Heart Mitochondrial Lipid Peroxidation. <i>Archives of Biochemistry and Biophysics</i> , 1993, 300, 409-415.	1.4	64
139	The Biological Chemistry of Peroxynitrite. , 2000, , 57-82.		64
140	Topography of tyrosine residues and their involvement in peroxidation of polyunsaturated cardiolipin in cytochrome c/cardiolipin peroxidase complexes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011, 1808, 2147-2155.	1.4	64
141	Intragastric nitration by dietary nitrite: Implications for modulation of protein and lipid signaling. <i>Free Radical Biology and Medicine</i> , 2012, 52, 693-698.	1.3	64
142	Kinetic Studies on Peroxynitrite Reduction by Peroxiredoxins. <i>Methods in Enzymology</i> , 2008, 441, 173-196.	0.4	63
143	Mitochondrial calcium overload triggers complement-dependent superoxide-mediated programmed cell death in <i>Trypanosoma cruzi</i> . <i>Biochemical Journal</i> , 2009, 418, 595-604.	1.7	63
144	Kinetics of reduction of tyrosine phenoxyl radicals by glutathione. <i>Archives of Biochemistry and Biophysics</i> , 2011, 506, 242-249.	1.4	62

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145	Cyclosporine A-induced nitration of tyrosine 34 MnSOD in endothelial cells: role of mitochondrial superoxide. <i>Cardiovascular Research</i> , 2010, 87, 356-365.	1.8	61
146	Molecular Basis of the Mechanism of Thiol Oxidation by Hydrogen Peroxide in Aqueous Solution: Challenging the S ₂ Paradigm. <i>Chemical Research in Toxicology</i> , 2012, 25, 741-746.	1.7	61
147	[33] Kinetic analysis of reactivity of peroxynitrite with biomolecules. <i>Methods in Enzymology</i> , 1996, 269, 354-366.	0.4	59
148	Binding of Xanthine Oxidase to Glycosaminoglycans Limits Inhibition by Oxypurinol. <i>Journal of Biological Chemistry</i> , 2004, 279, 37231-37234.	1.6	59
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