

# Rafael Radi

## List of Publications by Citations

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264  
papers

34,250  
citations

92  
h-index

181  
g-index

276  
ext. papers

36,697  
ext. citations

6.7  
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7.56  
L-index

#	Paper	IF	Citations
264	Peroxynitrite-induced membrane lipid peroxidation: the cytotoxic potential of superoxide and nitric oxide. <i>Archives of Biochemistry and Biophysics</i> , <b>1991</b> , 288, 481-7	4.1	1946
263	Peroxynitrite oxidation of sulfhydryls.. <i>Journal of Biological Chemistry</i> , <b>1991</b> , 266, 4244-4250	5.4	1885
262	Peroxynitrite oxidation of sulfhydryls. The cytotoxic potential of superoxide and nitric oxide. <i>Journal of Biological Chemistry</i> , <b>1991</b> , 266, 4244-50	5.4	1776
261	Peroxynitrite: biochemistry, pathophysiology and development of therapeutics. <i>Nature Reviews Drug Discovery</i> , <b>2007</b> , 6, 662-80	64.1	1453
260	Nitric oxide, oxidants, and protein tyrosine nitration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 4003-8	11.5	1175
259	Nitric oxide regulation of superoxide and peroxynitrite-dependent lipid peroxidation. Formation of novel nitrogen-containing oxidized lipid derivatives. <i>Journal of Biological Chemistry</i> , <b>1994</b> , 269, 26066-26075	5.4	998
258	Nitric oxide regulation of superoxide and peroxynitrite-dependent lipid peroxidation. Formation of novel nitrogen-containing oxidized lipid derivatives. <i>Journal of Biological Chemistry</i> , <b>1994</b> , 269, 26066-75	5.4	876
257	Inhibition of mitochondrial electron transport by peroxynitrite. <i>Archives of Biochemistry and Biophysics</i> , <b>1994</b> , 308, 89-95	4.1	633
256	Differential inhibitory action of nitric oxide and peroxynitrite on mitochondrial electron transport. <i>Archives of Biochemistry and Biophysics</i> , <b>1996</b> , 328, 309-16	4.1	606
255	Unraveling peroxynitrite formation in biological systems. <i>Free Radical Biology and Medicine</i> , <b>2001</b> , 30, 463-88	7.8	598
254	Chemical biology of peroxynitrite: kinetics, diffusion, and radicals. <i>ACS Chemical Biology</i> , <b>2009</b> , 4, 161-77	4.9	544
253	Peroxynitrite, a stealthy biological oxidant. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 26464-72	5.4	514
252	Peroxynitrite reaction with carbon dioxide/bicarbonate: kinetics and influence on peroxynitrite-mediated oxidations. <i>Archives of Biochemistry and Biophysics</i> , <b>1996</b> , 333, 49-58	4.1	507
251	Peroxynitrite reactions and formation in mitochondria. <i>Free Radical Biology and Medicine</i> , <b>2002</b> , 33, 1451-64	7.8	492
250	Peroxynitrite reactivity with amino acids and proteins. <i>Amino Acids</i> , <b>2003</b> , 25, 295-311	3.5	438
249	Aconitase is readily inactivated by peroxynitrite, but not by its precursor, nitric oxide.. <i>Journal of Biological Chemistry</i> , <b>1994</b> , 269, 29409-29415	5.4	437
248	The thiol pool in human plasma: the central contribution of albumin to redox processes. <i>Free Radical Biology and Medicine</i> , <b>2013</b> , 65, 244-253	7.8	408

247	Oxygen radicals, nitric oxide, and peroxynitrite: Redox pathways in molecular medicine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 5839-5848	11.5	381
246	Aconitase is readily inactivated by peroxynitrite, but not by its precursor, nitric oxide. <i>Journal of Biological Chemistry</i> , <b>1994</b> , 269, 29409-15	5.4	379
245	Diffusion of peroxynitrite across erythrocyte membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1998</b> , 95, 3566-71	11.5	365
244	Protein tyrosine nitration: biochemical mechanisms and structural basis of functional effects. <i>Accounts of Chemical Research</i> , <b>2013</b> , 46, 550-9	24.3	343
243	Peroxynitrite-induced luminol chemiluminescence. <i>Biochemical Journal</i> , <b>1993</b> , 290 ( Pt 1), 51-7	3.8	328
242	Protein tyrosine nitration--functional alteration or just a biomarker?. <i>Free Radical Biology and Medicine</i> , <b>2008</b> , 45, 357-66	7.8	323
241	Detection of catalase in rat heart mitochondria. <i>Journal of Biological Chemistry</i> , <b>1991</b> , 266, 22028-34	5.4	314
240	Nitric oxide and superoxide contribute to motor neuron apoptosis induced by trophic factor deprivation. <i>Journal of Neuroscience</i> , <b>1998</b> , 18, 923-31	6.6	313
239	Cytochrome c nitration by peroxynitrite. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 21409-15	5.4	281
238	Sulfenic acid formation in human serum albumin by hydrogen peroxide and peroxynitrite. <i>Biochemistry</i> , <b>2003</b> , 42, 9906-14	3.2	271
237	Peroxynitrite-induced cytotoxicity in PC12 cells: evidence for an apoptotic mechanism differentially modulated by neurotrophic factors. <i>Journal of Neurochemistry</i> , <b>1995</b> , 65, 1543-50	6	244
236	Biochemistry of Peroxynitrite and Protein Tyrosine Nitration. <i>Chemical Reviews</i> , <b>2018</b> , 118, 1338-1408	68.1	241
235	Peroxynitrite-dependent tryptophan nitration. <i>Chemical Research in Toxicology</i> , <b>1996</b> , 9, 390-6	4	229
234	Pathways of peroxynitrite oxidation of thiol groups. <i>Biochemical Journal</i> , <b>1997</b> , 322 ( Pt 1), 167-73	3.8	227
233	Mitochondrial dysfunction in SOD1G93A-bearing astrocytes promotes motor neuron degeneration: prevention by mitochondrial-targeted antioxidants. <i>Journal of Neuroscience</i> , <b>2008</b> , 28, 4115-22	6.6	223
232	Fundamentals on the biochemistry of peroxynitrite and protein tyrosine nitration. <i>Redox Biology</i> , <b>2018</b> , 14, 618-625	11.3	221
231	Peroxynitrite inhibits T lymphocyte activation and proliferation by promoting impairment of tyrosine phosphorylation and peroxynitrite-driven apoptotic death. <i>Journal of Immunology</i> , <b>1999</b> , 162, 3356-66	5.3	221
230	Biochemistry of protein tyrosine nitration in cardiovascular pathology. <i>Cardiovascular Research</i> , <b>2007</b> , 75, 291-302	9.9	219

229	Factors affecting protein thiol reactivity and specificity in peroxide reduction. <i>Chemical Research in Toxicology</i> , <b>2011</b> , 24, 434-50	4	215
228	Direct EPR detection of the carbonate radical anion produced from peroxyxynitrite and carbon dioxide. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 10802-6	5.4	215
227	Nitric oxide and peroxyxynitrite interactions with mitochondria. <i>Biological Chemistry</i> , <b>2002</b> , 383, 401-9	4.5	214
226	Kinetics of peroxyxynitrite reaction with amino acids and human serum albumin. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 842-8	5.4	211
225	Even free radicals should follow some rules: a guide to free radical research terminology and methodology. <i>Free Radical Biology and Medicine</i> , <b>2015</b> , 78, 233-5	7.8	191
224	Peroxyxynitrite-mediated cytotoxicity to <i>Trypanosoma cruzi</i> . <i>Archives of Biochemistry and Biophysics</i> , <b>1993</b> , 304, 279-86	4.1	170
223	On the pH-dependent yield of hydroxyl radical products from peroxyxynitrite. <i>Free Radical Biology and Medicine</i> , <b>1994</b> , 16, 331-8	7.8	168
222	Kinetics of cytochrome c2+ oxidation by peroxyxynitrite: implications for superoxide measurements in nitric oxide-producing biological systems. <i>Archives of Biochemistry and Biophysics</i> , <b>1995</b> , 319, 491-7	4.1	166
221	Intraphagosomal peroxyxynitrite as a macrophage-derived cytotoxin against internalized <i>Trypanosoma cruzi</i> : consequences for oxidative killing and role of microbial peroxiredoxins in infectivity. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 6627-40	5.4	162
220	Reactivity of hydrogen sulfide with peroxyxynitrite and other oxidants of biological interest. <i>Free Radical Biology and Medicine</i> , <b>2011</b> , 50, 196-205	7.8	160
219	Glyceraldehyde-3-phosphate dehydrogenase inactivation by peroxyxynitrite. <i>Archives of Biochemistry and Biophysics</i> , <b>1998</b> , 360, 187-94	4.1	156
218	Spin-trapping studies of peroxyxynitrite 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> , <b>1994</b> , 310, 118-25	4.1	155
217	Reaction of peroxyxynitrite with Mn-superoxide dismutase. Role of the metal center in decomposition kinetics and nitration. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 11631-8	5.4	153
216	Nitro-fatty acid reaction with glutathione and cysteine. Kinetic analysis of thiol alkylation by a Michael addition reaction. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 31085-93	5.4	152
215	Catalytic scavenging of peroxyxynitrite by isomeric Mn(III) N-methylpyridylporphyrins in the presence of reductants. <i>Chemical Research in Toxicology</i> , <b>1999</b> , 12, 442-9	4	152
214	Nitric oxide diffusion in membranes determined by fluorescence quenching. <i>Archives of Biochemistry and Biophysics</i> , <b>1996</b> , 328, 208-12	4.1	152
213	Peroxyxynitrite reactions and diffusion in biology. <i>Chemical Research in Toxicology</i> , <b>1998</b> , 11, 720-1	4	146
212	Chemiluminescent detection of oxidants in vascular tissue. Lucigenin but not coelenterazine enhances superoxide formation. <i>Circulation Research</i> , <b>1999</b> , 84, 1203-11	15.7	146

211	Xanthine oxidase-mediated decomposition of S-nitrosothiols. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 7828-34	5.4	145
210	Peroxynitrite reaction with the reduced and the oxidized forms of lipoic acid: new insights into the reaction of peroxynitrite with thiols. <i>Archives of Biochemistry and Biophysics</i> , <b>2002</b> , 397, 91-8	4.1	145
209	Reactions of manganese porphyrins with peroxynitrite and carbonate radical anion. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 27432-8	5.4	143
208	Mercaptoethylguanidine and guanidine inhibitors of nitric-oxide synthase react with peroxynitrite and protect against peroxynitrite-induced oxidative damage. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 9030-6	5.4	138
207	Nitric oxide reaction with lipid peroxyl radicals spares alpha-tocopherol during lipid peroxidation. Greater oxidant protection from the pair nitric oxide/alpha-tocopherol than alpha-tocopherol/ascorbate. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 10812-8	5.4	137
206	Pre-steady state kinetic characterization of human peroxiredoxin 5: taking advantage of Trp84 fluorescence increase upon oxidation. <i>Archives of Biochemistry and Biophysics</i> , <b>2007</b> , 467, 95-106	4.1	136
205	Nitration and inactivation of tyrosine hydroxylase by peroxynitrite. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 46017-23	5.4	129
204	Reactions of nitric oxide with metalloproteins. <i>Chemical Research in Toxicology</i> , <b>1996</b> , 9, 828-35	4	128
203	Cytochrome c-catalyzed oxidation of organic molecules by hydrogen peroxide. <i>Archives of Biochemistry and Biophysics</i> , <b>1991</b> , 288, 112-7	4.1	128
202	Reactivity of sulfenic acid in human serum albumin. <i>Biochemistry</i> , <b>2008</b> , 47, 358-67	3.2	126
201	Multiple thioredoxin-mediated routes to detoxify hydroperoxides in Mycobacterium tuberculosis. <i>Archives of Biochemistry and Biophysics</i> , <b>2004</b> , 423, 182-91	4.1	125
200	Cytochrome c-catalyzed membrane lipid peroxidation by hydrogen peroxide. <i>Archives of Biochemistry and Biophysics</i> , <b>1991</b> , 288, 118-25	4.1	120
199	Peroxynitrite-mediated oxidation of albumin to the protein-thiyl free radical. <i>FEBS Letters</i> , <b>1994</b> , 348, 287-90	3.8	119
198	Peroxynitrite inactivates thiol-containing enzymes of Trypanosoma cruzi energetic metabolism and inhibits cell respiration. <i>Archives of Biochemistry and Biophysics</i> , <b>1994</b> , 308, 96-102	4.1	117
197	Multifunctional Cytochrome c: Learning New Tricks from an Old Dog. <i>Chemical Reviews</i> , <b>2017</b> , 117, 13387-13460	5.3	116
196	Insights into the redox biology of Trypanosoma cruzi: Trypanothione metabolism and oxidant detoxification. <i>Free Radical Biology and Medicine</i> , <b>2008</b> , 45, 733-42	7.8	116
195	Direct measurement of nitric oxide and oxygen partitioning into liposomes and low density lipoprotein. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 8850-4	5.4	116
194	Mitochondrial superoxide radicals mediate programmed cell death in Trypanosoma cruzi: cytoprotective action of mitochondrial iron superoxide dismutase overexpression. <i>Biochemical Journal</i> , <b>2007</b> , 403, 323-34	3.8	115

193	Protein tyrosine nitration in hydrophilic and hydrophobic environments. <i>Amino Acids</i> , <b>2007</b> , 32, 501-15	3.5	113
192	Nitric oxide-derived oxidants with a focus on peroxynitrite: molecular targets, cellular responses and therapeutic implications. <i>Current Pharmaceutical Design</i> , <b>2011</b> , 17, 3905-32	3.3	109
191	Inactivation of human Cu,Zn superoxide dismutase by peroxynitrite and formation of histidinyl radical. <i>Free Radical Biology and Medicine</i> , <b>2004</b> , 37, 813-22	7.8	109
190	Macrophage-derived peroxynitrite diffusion and toxicity to <i>Trypanosoma cruzi</i> . <i>Archives of Biochemistry and Biophysics</i> , <b>2004</b> , 432, 222-32	4.1	108
189	Ca <sup>2+</sup> -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> , <b>1997</b> , 345, 243-50	4.1	107
188	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> , <b>2002</b> , 43, 182-201	7.8	105
187	Kinetics of peroxiredoxins and their role in the decomposition of peroxynitrite. <i>Sub-Cellular Biochemistry</i> , <b>2007</b> , 44, 83-113	5.5	105
186	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> , <b>2001</b> , 98, 7301-6	11.5	105
185	<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> , <b>2004</b> , 279, 34175-82	5.4	104
184	Peroxynitrite and drug-dependent toxicity. <i>Toxicology</i> , <b>2005</b> , 208, 273-88	4.4	104
183	Peroxiredoxins play a major role in protecting <i>Trypanosoma cruzi</i> against macrophage- and endogenously-derived peroxynitrite. <i>Biochemical Journal</i> , <b>2008</b> , 410, 359-68	3.8	101
182	Reaction of human hemoglobin with peroxynitrite. Isomerization to nitrate and secondary formation of protein radicals. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 44049-57	5.4	101
181	Kinetic and mechanistic considerations to assess the biological fate of peroxynitrite. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2014</b> , 1840, 768-80	4	100
180	Enzymes of the antioxidant network as novel determiners of <i>Trypanosoma cruzi</i> virulence. <i>International Journal for Parasitology</i> , <b>2009</b> , 39, 1455-64	4.3	100
179	Desferrioxamine inhibition of the hydroxyl radical-like reactivity of peroxynitrite: role of the hydroxamic groups. <i>Free Radical Biology and Medicine</i> , <b>1995</b> , 19, 11-9	7.8	100
178	Neuroprotective effects of the mitochondria-targeted antioxidant MitoQ in a model of inherited amyotrophic lateral sclerosis. <i>Free Radical Biology and Medicine</i> , <b>2014</b> , 70, 204-13	7.8	97
177	Protein and lipid nitration: role in redox signaling and injury. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2008</b> , 1780, 1318-24	4	97
176	Time course and site(s) of cytochrome c tyrosine nitration by peroxynitrite. <i>Biochemistry</i> , <b>2005</b> , 44, 8038-46	3.6	97



175	Diffusion of peroxynitrite in the presence of carbon dioxide. <i>Archives of Biochemistry and Biophysics</i> , <b>1999</b> , 368, 23-30	4.1	95
174	Fighting the oxidative assault: the Trypanosoma cruzi journey to infection. <i>Current Opinion in Microbiology</i> , <b>2009</b> , 12, 415-21	7.9	93
173	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> , <b>2007</b> , 27, 7777-85	6.6	92
172	Thiol and sulfenic acid oxidation of AhpE, the one-cysteine peroxiredoxin from Mycobacterium tuberculosis: kinetics, acidity constants, and conformational dynamics. <i>Biochemistry</i> , <b>2009</b> , 48, 9416-26	3.2	91
171	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> , <b>2007</b> , 293, H3404-14	5.2	91
170	Mitochondrial aconitase reaction with nitric oxide, S-nitrosoglutathione, and peroxynitrite: mechanisms and relative contributions to aconitase inactivation. <i>Free Radical Biology and Medicine</i> , <b>2007</b> , 42, 1075-88	7.8	90
169	Nitric oxide and peroxynitrite-dependent aconitase inactivation and iron-regulatory protein-1 activation in mammalian fibroblasts. <i>Archives of Biochemistry and Biophysics</i> , <b>1998</b> , 359, 215-24	4.1	89
168	Xanthine oxidase binding to glycosaminoglycans: kinetics and superoxide dismutase interactions of immobilized xanthine oxidase-heparin complexes. <i>Archives of Biochemistry and Biophysics</i> , <b>1997</b> , 339, 125-35	4.1	87
167	Peroxynitrite detoxification and its biologic implications. <i>Antioxidants and Redox Signaling</i> , <b>2008</b> , 10, 1607-20	8.4	86
166	One- and two-electron oxidation of thiols: mechanisms, kinetics and biological fates. <i>Free Radical Research</i> , <b>2016</b> , 50, 150-71	4	85
165	Nitration of solvent-exposed tyrosine 74 on cytochrome c triggers heme iron-methionine 80 bond disruption. Nuclear magnetic resonance and optical spectroscopy studies. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 17-26	5.4	85
164	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> , <b>2005</b> , 39, 728-41	7.8	85
163	Trypanothione: a unique bis-glutathionyl derivative in trypanosomatids. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2013</b> , 1830, 3199-216	4	81
162	Disruption of the M80-Fe ligation stimulates the translocation of cytochrome c to the cytoplasm and nucleus in nonapoptotic cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 2653-8	11.5	81
161	Peroxynitrite reactions with carbon dioxide-bicarbonate. <i>Methods in Enzymology</i> , <b>1999</b> , 301, 353-67	1.7	81
160	Alternative Conformations of Cytochrome c: Structure, Function, and Detection. <i>Biochemistry</i> , <b>2016</b> , 55, 407-28	3.2	80
159	Inactivation and nitration of human superoxide dismutase (SOD) by fluxes of nitric oxide and superoxide. <i>Free Radical Biology and Medicine</i> , <b>2007</b> , 42, 1359-68	7.8	78
158	Cytochrome c: a catalyst and target of nitrite-hydrogen peroxide-dependent protein nitration. <i>Archives of Biochemistry and Biophysics</i> , <b>2004</b> , 421, 99-107	4.1	76

157	Mitochondrial protein tyrosine nitration. <i>Free Radical Research</i> , <b>2011</b> , 45, 37-52	4	74
156	Modulation of astrocytic mitochondrial function by dichloroacetate improves survival and motor performance in inherited amyotrophic lateral sclerosis. <i>PLoS ONE</i> , <b>2012</b> , 7, e34776	3.7	70
155	Formation of protein tyrosine ortho-semiquinone radical and nitrotyrosine from cytochrome c-derived tyrosyl radical. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 18054-62	5.4	70
154	Reduction of manganese porphyrins by flavoenzymes and submitochondrial particles: a catalytic cycle for the reduction of peroxynitrite. <i>Free Radical Biology and Medicine</i> , <b>2006</b> , 41, 503-12	7.8	69
153	Oxidation of ubiquinol by peroxynitrite: implications for protection of mitochondria against nitrosative damage. <i>Biochemical Journal</i> , <b>2000</b> , 349, 35-42	3.8	69
152	Physiologic levels of uric acid inhibit xanthine oxidase in human plasma. <i>Pediatric Research</i> , <b>1993</b> , 34, 303-7	3.2	69
151	Mechanistic studies of peroxynitrite-mediated tyrosine nitration in membranes using the hydrophobic probe N-t-BOC-L-tyrosine tert-butyl ester. <i>Biochemistry</i> , <b>2006</b> , 45, 6813-25	3.2	68
150	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> , <b>2009</b> , 296, H1781-92	5.2	67
149	Reactions of manganese porphyrins and manganese-superoxide dismutase with peroxynitrite. <i>Methods in Enzymology</i> , <b>2002</b> , 349, 23-37	1.7	66
148	Reaction between peroxynitrite and hydrogen peroxide: formation of oxygen and slowing of peroxynitrite decomposition. <i>Chemical Research in Toxicology</i> , <b>1995</b> , 8, 859-64	4	66
147	Lipid peroxy radicals mediate tyrosine dimerization and nitration in membranes. <i>Chemical Research in Toxicology</i> , <b>2010</b> , 23, 821-35	4	65
146	Involvement of inducible nitric oxide synthase in hydroxyl radical-mediated lipid peroxidation in streptozotocin-induced diabetes. <i>Free Radical Biology and Medicine</i> , <b>2008</b> , 45, 866-74	7.8	65
145	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> , <b>2003</b> , 412, 55-64	4.1	65
144	<i>Trypanosoma cruzi</i> antioxidant enzymes as virulence factors in Chagas disease. <i>Antioxidants and Redox Signaling</i> , <b>2013</b> , 19, 723-34	8.4	64
143	Peroxynitrite-mediated decarboxylation of pyruvate to both carbon dioxide and carbon dioxide radical anion. <i>Chemical Research in Toxicology</i> , <b>1997</b> , 10, 786-94	4	63
142	Diffusion of nitric oxide into low density lipoprotein. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 932-6	5.4	63
141	Neurovascular coupling in hippocampus is mediated via diffusion by neuronal-derived nitric oxide. <i>Free Radical Biology and Medicine</i> , <b>2014</b> , 73, 421-9	7.8	62
140	Peroxynitrite, a potent macrophage-derived oxidizing cytotoxin to combat invading pathogens. <i>BioFactors</i> , <b>2014</b> , 40, 215-25	6.1	61



139	Formation of spin trap adducts during the decomposition of peroxynitrite. <i>Archives of Biochemistry and Biophysics</i> , <b>1998</b> , 349, 36-46	4.1	61
138	The role of cytochrome c and mitochondrial catalase in hydroperoxide-induced heart mitochondrial lipid peroxidation. <i>Archives of Biochemistry and Biophysics</i> , <b>1993</b> , 300, 409-15	4.1	60
137	A comprehensive evaluation of catalase-like activity of different classes of redox-active therapeutics. <i>Free Radical Biology and Medicine</i> , <b>2015</b> , 86, 308-21	7.8	59
136	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> , <b>2011</b> , 1808, 2147-55	3.8	58
135	Mitochondrial calcium overload triggers complement-dependent superoxide-mediated programmed cell death in <i>Trypanosoma cruzi</i> . <i>Biochemical Journal</i> , <b>2009</b> , 418, 595-604	3.8	58
134	Molecular basis of the mechanism of thiol oxidation by hydrogen peroxide in aqueous solution: challenging the SN2 paradigm. <i>Chemical Research in Toxicology</i> , <b>2012</b> , 25, 741-6	4	56
133	Intragastric nitration by dietary nitrite: implications for modulation of protein and lipid signaling. <i>Free Radical Biology and Medicine</i> , <b>2012</b> , 52, 693-698	7.8	55
132	Peroxynitrite formation from biochemical and cellular fluxes of nitric oxide and superoxide. <i>Methods in Enzymology</i> , <b>2002</b> , 359, 353-66	1.7	55
131	Kinetics of reduction of tyrosine phenoxyl radicals by glutathione. <i>Archives of Biochemistry and Biophysics</i> , <b>2011</b> , 506, 242-9	4.1	54
130	Kinetic studies on peroxynitrite reduction by peroxiredoxins. <i>Methods in Enzymology</i> , <b>2008</b> , 441, 173-96	1.7	54
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