

Rafael Radi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

264
papers

34,250
citations

92
h-index

181
g-index

276
ext. papers

36,697
ext. citations

6.7
avg, IF

7.56
L-index

#	Paper	IF	Citations
264	Mitochondrial Peroxiredoxin Promotes Infectivity in Macrophages and Attenuates Nifurtimox Toxicity.. <i>Frontiers in Cellular and Infection Microbiology</i> , 2022 , 12, 749476	5.9	0
263	Thiol oxidation by biologically-relevant reactive species 2022 , 99-113		
262	Cardiolipin interactions with cytochrome c increase tyrosine nitration yields and site-specificity. <i>Archives of Biochemistry and Biophysics</i> , 2021 , 703, 108824	4.1	2
261	The Thiol-Modifier Effects of Organoselenium Compounds and Their Cytoprotective Actions in Neuronal Cells. <i>Neurochemical Research</i> , 2021 , 46, 120-130	4.6	18
260	The effects of nitric oxide or oxygen on the stable products formed from the tyrosine phenoxyl radical. <i>Free Radical Research</i> , 2021 , 55, 141-153	4	1
259	The mitochondrial thioredoxin reductase system (TrxR2) in vascular endothelium controls peroxynitrite levels and tissue integrity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	8
258	Nox2-derived superoxide radical is crucial to control acute Trypanosoma cruzi infection. <i>Redox Biology</i> , 2021 , 46, 102085	11.3	3
257	Decreased proteasomal cleavage at nitrotyrosine sites in proteins and peptides. <i>Redox Biology</i> , 2021 , 46, 102106	11.3	2
256	3-Nitrotyrosine and related derivatives in proteins: precursors, radical intermediates and impact in function. <i>Essays in Biochemistry</i> , 2020 , 64, 111-133	7.6	21
255	Multiscale Modeling of Thiol Overoxidation in Peroxiredoxins by Hydrogen Peroxide. <i>Journal of Chemical Information and Modeling</i> , 2020 , 60, 843-853	6.1	3
254	Neuronal Parasitism, Early Myenteric Neurons Depopulation and Continuous Axonal Networking Damage as Underlying Mechanisms of the Experimental Intestinal Chagas Disease. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020 , 10, 583899	5.9	3
253	Tracking isotopically labeled oxidants using boronate-based redox probes. <i>Journal of Biological Chemistry</i> , 2020 , 295, 6665-6676	5.4	10
252	Hypoxic-Ischemic Encephalopathy and Mitochondrial Dysfunction: Facts, Unknowns, and Challenges. <i>Antioxidants and Redox Signaling</i> , 2020 , 33, 247-262	8.4	12
251	Catalysis of Peroxide Reduction by Fast Reacting Protein Thiols. <i>Chemical Reviews</i> , 2019 , 119, 10829-10855	15.1	37
250	The origins of nitric oxide and peroxynitrite research in Uruguay: 25 years of contributions to the biochemical and biomedical sciences. <i>Nitric Oxide - Biology and Chemistry</i> , 2019 , 87, 83-89	5	3
249	Carbon dioxide-catalyzed peroxynitrite reactivity - The resilience of the radical mechanism after two decades of research. <i>Free Radical Biology and Medicine</i> , 2019 , 135, 210-215	7.8	17
248	Cytosolic Fe-superoxide dismutase safeguards from macrophage-derived superoxide radical. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 8879-8888	11.5	16

247	Free radical-dependent inhibition of prostaglandin endoperoxide H Synthase-2 by nitro-arachidonic acid. <i>Free Radical Biology and Medicine</i> , 2019 , 144, 176-182	7.8	3
246	Reactive species and pathogen antioxidant networks during phagocytosis. <i>Journal of Experimental Medicine</i> , 2019 , 216, 501-516	16.6	38
245	Lung nitroxidative stress in mechanically-ventilated septic patients: A pilot study. <i>Journal of Critical Care</i> , 2019 , 51, 204-212	4	2
244	Detection and quantification of nitric oxide-derived oxidants in biological systems. <i>Journal of Biological Chemistry</i> , 2019 , 294, 14776-14802	5.4	48
243	Kinetics of formation and reactivity of the persulfide in the one-cysteine peroxiredoxin from. <i>Journal of Biological Chemistry</i> , 2019 , 294, 13593-13605	5.4	18
242	Aconitases: Non-redox Iron-Sulfur Proteins Sensitive to Reactive Species. <i>Accounts of Chemical Research</i> , 2019 , 52, 2609-2619	24.3	28
241	A computational investigation of the reactions of tyrosyl, tryptophanyl, and cysteinyl radicals with nitric oxide and molecular oxygen. <i>Free Radical Research</i> , 2019 , 53, 18-25	4	5
240	Rapid peroxynitrite reduction by human peroxiredoxin 3: Implications for the fate of oxidants in mitochondria. <i>Free Radical Biology and Medicine</i> , 2019 , 130, 369-378	7.8	26
239	Diphenyl diselenide protects neuronal cells against oxidative stress and mitochondrial dysfunction: Involvement of the glutathione-dependent antioxidant system. <i>Redox Biology</i> , 2019 , 20, 118-129	11.3	28
238	Fluorescence and chemiluminescence approaches for peroxynitrite detection. <i>Free Radical Biology and Medicine</i> , 2018 , 128, 59-68	7.8	45
237	Biochemistry of Peroxynitrite and Protein Tyrosine Nitration. <i>Chemical Reviews</i> , 2018 , 118, 1338-1408	68.1	241
236	Cardiomyocyte diffusible redox mediators control infection: role of parasite mitochondrial iron superoxide dismutase. <i>Biochemical Journal</i> , 2018 , 475, 1235-1251	3.8	21
235	Propagation of free-radical reactions in concentrated protein solutions. <i>Free Radical Research</i> , 2018 , 52, 159-170	4	8
234	Respiratory analysis of coupled mitochondria in cryopreserved liver biopsies. <i>Redox Biology</i> , 2018 , 17, 207-212	11.3	16
233	Chemistry and Redox Biology of Mycothiol. <i>Antioxidants and Redox Signaling</i> , 2018 , 28, 487-504	8.4	27
232	Fundamentals on the biochemistry of peroxynitrite and protein tyrosine nitration. <i>Redox Biology</i> , 2018 , 14, 618-625	11.3	221
231	Human Mn-superoxide dismutase inactivation by peroxynitrite: a paradigm of metal-catalyzed tyrosine nitration in vitro and in vivo. <i>Metallomics</i> , 2018 , 10, 679-695	4.5	11
230	Redox-sensitive GFP fusions for monitoring the catalytic mechanism and inactivation of peroxiredoxins in living cells. <i>Redox Biology</i> , 2018 , 14, 549-556	11.3	28

229	Manganese porphyrin redox state in endothelial cells: Resonance Raman studies and implications for antioxidant protection towards peroxynitrite. <i>Free Radical Biology and Medicine</i> , 2018 , 126, 379-392	7.8	9
228	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> , 2018 , 115, 5839-5848	11.5	381
227	Tyrosine-Nitrated Proteins: Proteomic and Bioanalytical Aspects. <i>Antioxidants and Redox Signaling</i> , 2017 , 26, 313-328	8.4	52
226	Kinetics, subcellular localization, and contribution to parasite virulence of a hybrid type A heme peroxidase (APx-CcP). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E1326-E1335	11.5	17
225	Tyrosine oxidation and nitration in transmembrane peptides is connected to lipid peroxidation. <i>Archives of Biochemistry and Biophysics</i> , 2017 , 622, 9-25	4.1	9
224	Iron-sulfur glutaredoxin 2 protects oligodendrocytes against damage induced by nitric oxide release from activated microglia. <i>Glia</i> , 2017 , 65, 1521-1534	9	26
223	Ohr plays a central role in bacterial responses against fatty acid hydroperoxides and peroxynitrite. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E132-E141	11.5	32
222	Multifunctional Cytochrome c: Learning New Tricks from an Old Dog. <i>Chemical Reviews</i> , 2017 , 117, 13387-13460	16	16
221	Peroxynitrite Formation and Detection in Living Cells 2017 , 271-288		3
220	One- and two-electron oxidation of thiols: mechanisms, kinetics and biological fates. <i>Free Radical Research</i> , 2016 , 50, 150-71	4	85
219	PrxQ B from Mycobacterium tuberculosis is a monomeric, thioredoxin-dependent and highly efficient fatty acid hydroperoxide reductase. <i>Free Radical Biology and Medicine</i> , 2016 , 101, 249-260	7.8	16
218	Role of nitrite, urate and pepsin in the gastroprotective effects of saliva. <i>Redox Biology</i> , 2016 , 8, 407-14	11.3	18
217	Redox-Active Sensing by Bacterial DksA Transcription Factors Is Determined by Cysteine and Zinc Content. <i>MBio</i> , 2016 , 7, e02161-15	7.8	26
216	Alternative Conformations of Cytochrome c: Structure, Function, and Detection. <i>Biochemistry</i> , 2016 , 55, 407-28	3.2	80
215	Nitro-Arachidonic Acid Prevents Angiotensin II-Induced Mitochondrial Dysfunction in a Cell Line of Kidney Proximal Tubular Cells. <i>PLoS ONE</i> , 2016 , 11, e0150459	3.7	6
214	Biochemistry of Nitric Oxide and Peroxynitrite: Sources, Targets and Biological Implications 2016 , 49-77		4
213	Mechanism of the Reaction of Human Manganese Superoxide Dismutase with Peroxynitrite: Nitration of Critical Tyrosine 34. <i>Biochemistry</i> , 2016 , 55, 3403-17	3.2	32
212	Sensitive detection and estimation of cell-derived peroxynitrite fluxes using fluorescein-boronate. <i>Free Radical Biology and Medicine</i> , 2016 , 101, 284-295	7.8	51

211	A comprehensive evaluation of catalase-like activity of different classes of redox-active therapeutics. <i>Free Radical Biology and Medicine</i> , 2015 , 86, 308-21	7.8	59
210	Oxidative Inactivation of Nitric Oxide and Peroxynitrite Formation in the Vasculature. <i>ACS Symposium Series</i> , 2015 , 91-145	0.4	5
209	Nitric oxide diffusion to red blood cells limits extracellular, but not intraphagosomal, peroxynitrite formation by macrophages. <i>Free Radical Biology and Medicine</i> , 2015 , 87, 346-55	7.8	17
208	Defective Human Sperm Cells Are Associated with Mitochondrial Dysfunction and Oxidant Production. <i>Biology of Reproduction</i> , 2015 , 93, 119	3.9	31
207	Molecular Basis of Hydroperoxide Specificity in Peroxiredoxins: The Case of AhpE from <i>Mycobacterium tuberculosis</i> . <i>Biochemistry</i> , 2015 , 54, 7237-47	3.2	15
206	Impact of SIN-1-derived peroxynitrite flux on endothelial cell redox homeostasis and bioenergetics: protective role of diphenyl diselenide via induction of peroxiredoxins. <i>Free Radical Research</i> , 2015 , 49, 122-32	4	26
205	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, 233-5	7.8	191
204	Specific methionine oxidation of cytochrome c in complexes with zwitterionic lipids by hydrogen peroxide: potential implications for apoptosis. <i>Chemical Science</i> , 2015 , 6, 705-713	9.4	44
203	Active Site Structure and Peroxidase Activity of Oxidatively Modified Cytochrome c Species in Complexes with Cardiolipin. <i>Biochemistry</i> , 2015 , 54, 7491-504	3.2	45
202	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, 723-35	6.9	43
201	Insights into the mechanism of the reaction between hydrogen sulfide and peroxynitrite. <i>Free Radical Biology and Medicine</i> , 2015 , 80, 93-100	7.8	35
200	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, 204-13	7.8	97
199	Metabolic control analysis of mitochondrial aconitase: influence over respiration and mitochondrial superoxide and hydrogen peroxide production. <i>Free Radical Research</i> , 2014 , 48, 684-93	4	26
198	Rational design of superoxide dismutase (SOD) mimics: the evaluation of the therapeutic potential of new cationic Mn porphyrins with linear and cyclic substituents. <i>Inorganic Chemistry</i> , 2014 , 53, 11467-83 ^{5.1}	5.1	40
197	The extraordinary catalytic ability of peroxiredoxins: a combined experimental and QM/MM study on the fast thiol oxidation step. <i>Chemical Communications</i> , 2014 , 50, 10070-3	5.8	37
196	Coupling of tyrosine deprotonation and axial ligand exchange in nitrocytochrome c. <i>Chemical Communications</i> , 2014 , 50, 2592-4	5.8	19
195	Structural and molecular basis of the peroxynitrite-mediated nitration and inactivation of <i>Trypanosoma cruzi</i> iron-superoxide dismutases (Fe-SODs) A and B: disparate susceptibilities due to the repair of Tyr35 radical by Cys83 in Fe-SODB through intramolecular electron transfer. <i>Journal of Biological Chemistry</i> , 2014 , 289, 12760-78	5.4	43
194	Neurovascular coupling in hippocampus is mediated via diffusion by neuronal-derived nitric oxide. <i>Free Radical Biology and Medicine</i> , 2014 , 73, 421-9	7.8	62

193	Peroxynitrite, a potent macrophage-derived oxidizing cytotoxin to combat invading pathogens. <i>BioFactors</i> , 2014 , 40, 215-25	6.1	61
192	Mycothioli/mycoredoxin 1-dependent reduction of the peroxiredoxin AhpE from Mycobacterium tuberculosis. <i>Journal of Biological Chemistry</i> , 2014 , 289, 5228-39	5.4	41
191	Metal-catalyzed protein tyrosine nitration in biological systems. <i>Redox Report</i> , 2014 , 19, 221-31	5.9	27
190	Kinetic and mechanistic considerations to assess the biological fate of peroxynitrite. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014 , 1840, 768-80	4	100
189	The thiol pool in human plasma: the central contribution of albumin to redox processes. <i>Free Radical Biology and Medicine</i> , 2013 , 65, 244-253	7.8	408
188	Mechanism of cysteine oxidation by peroxynitrite: An integrated experimental and theoretical study. <i>Archives of Biochemistry and Biophysics</i> , 2013 , 539, 81-6	4.1	28
187	Peroxynitrite, a stealthy biological oxidant. <i>Journal of Biological Chemistry</i> , 2013 , 288, 26464-72	5.4	514
186	Trypanosoma cruzi antioxidant enzymes as virulence factors in Chagas disease. <i>Antioxidants and Redox Signaling</i> , 2013 , 19, 723-34	8.4	64
185	Protein tyrosine nitration: biochemical mechanisms and structural basis of functional effects. <i>Accounts of Chemical Research</i> , 2013 , 46, 550-9	24.3	343
184	Protective effect of diphenyl diselenide against peroxynitrite-mediated endothelial cell death: a comparison with ebselen. <i>Nitric Oxide - Biology and Chemistry</i> , 2013 , 31, 20-30	5	51
183	Nitroarachidonic acid prevents NADPH oxidase assembly and superoxide radical production in activated macrophages. <i>Free Radical Biology and Medicine</i> , 2013 , 58, 126-33	7.8	31
182	Trypanothione: a unique bis-glutathionyl derivative in trypanosomatids. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013 , 1830, 3199-216	4	81
181	Peroxynitrite as a Cytotoxic Effector Against Trypanosoma Cruzi: Oxidative Killing and Antioxidant Resistance Mechanisms 2013 , 215-236		
180	Electrostatically driven second-sphere ligand switch between high and low reorganization energy forms of native cytochrome c. <i>Journal of the American Chemical Society</i> , 2013 , 135, 4389-97	16.4	34
179	Peroxynitrite formation in nitric oxide-exposed submitochondrial particles: detection, oxidative damage and catalytic removal by Mn-porphyrins. <i>Archives of Biochemistry and Biophysics</i> , 2013 , 529, 45-54	4.1	29
178	Pepsin is nitrated in the rat stomach, acquiring antiulcerogenic activity: a novel interaction between dietary nitrate and gut proteins. <i>Free Radical Biology and Medicine</i> , 2013 , 58, 26-34	7.8	26
177	Modulation of the reactivity of the thiol of human serum albumin and its sulfenic derivative by fatty acids. <i>Archives of Biochemistry and Biophysics</i> , 2012 , 521, 102-10	4.1	43
176	Molecular basis of intramolecular electron transfer in proteins during radical-mediated oxidations: computer simulation studies in model tyrosine-cysteine peptides in solution. <i>Archives of Biochemistry and Biophysics</i> , 2012 , 525, 82-91	4.1	29

175	Kinetics of oxidation of tyrosine by a model alkoxyl radical. <i>Free Radical Research</i> , 2012 , 46, 1150-6	4	15
174	NADPH phagocyte oxidase knockout mice control <i>Trypanosoma cruzi</i> proliferation, but develop circulatory collapse and succumb to infection. <i>PLoS Neglected Tropical Diseases</i> , 2012 , 6, e1492	4.8	18
173	Modulation of astrocytic mitochondrial function by dichloroacetate improves survival and motor performance in inherited amyotrophic lateral sclerosis. <i>PLoS ONE</i> , 2012 , 7, e34776	3.7	70
172	Molecular basis of the mechanism of thiol oxidation by hydrogen peroxide in aqueous solution: challenging the SN2 paradigm. <i>Chemical Research in Toxicology</i> , 2012 , 25, 741-6	4	56
171	Intragastric nitration by dietary nitrite: implications for modulation of protein and lipid signaling. <i>Free Radical Biology and Medicine</i> , 2012 , 52, 693-698	7.8	55
170	Hydroperoxide and peroxynitrite reductase activity of poplar thioredoxin-dependent glutathione peroxidase 5: kinetics, catalytic mechanism and oxidative inactivation. <i>Biochemical Journal</i> , 2012 , 442, 369-80	3.8	39
169	Intraphagosomal peroxynitrite 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> , 2011 , 286, 6627-40	5.4	162
168	Kinetics of reduction of tyrosine phenoxyl radicals by glutathione. <i>Archives of Biochemistry and Biophysics</i> , 2011 , 506, 242-9	4.1	54
167	Exploring the molecular basis of human manganese superoxide dismutase inactivation mediated by tyrosine 34 nitration. <i>Archives of Biochemistry and Biophysics</i> , 2011 , 507, 304-9	4.1	45
166	Tryparedoxin peroxidases from <i>Trypanosoma cruzi</i> : high efficiency in the catalytic elimination of hydrogen peroxide and peroxynitrite. <i>Archives of Biochemistry and Biophysics</i> , 2011 , 507, 287-95	4.1	47
165	Kinetic studies of peroxiredoxin 6 from <i>Arenicola marina</i> : rapid oxidation by hydrogen peroxide and peroxynitrite but lack of reduction by hydrogen sulfide. <i>Archives of Biochemistry and Biophysics</i> , 2011 , 514, 1-7	4.1	19
164	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, 2147-55	3.8	58
163	Reactivity of hydrogen sulfide with peroxynitrite and other oxidants of biological interest. <i>Free Radical Biology and Medicine</i> , 2011 , 50, 196-205	7.8	160
162	Oxidizing substrate specificity of <i>Mycobacterium tuberculosis</i> alkyl hydroperoxide reductase E: kinetics and mechanisms of oxidation and overoxidation. <i>Free Radical Biology and Medicine</i> , 2011 , 51, 464-73	7.8	27
161	Mitochondrial protein tyrosine nitration. <i>Free Radical Research</i> , 2011 , 45, 37-52	4	74
160	Factors affecting protein thiol reactivity and specificity in peroxide reduction. <i>Chemical Research in Toxicology</i> , 2011 , 24, 434-50	4	215
159	Antioxidant activity of uruguayan propolis. In vitro and cellular assays. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 6430-7	5.7	35
158	Nitric oxide-derived oxidants with a focus on peroxynitrite: molecular targets, cellular responses and therapeutic implications. <i>Current Pharmaceutical Design</i> , 2011 , 17, 3905-32	3.3	109

157	Dietary nitrite in nitric oxide biology: a redox interplay with implications for pathophysiology and therapeutics. <i>Current Drug Targets</i> , 2011 , 12, 1351-63	3	47
156	Mechanisms and Biological Consequences of Peroxynitrite-Dependent Protein Oxidation and Nitration 2010 , 61-102		10
155	Nitric Oxide Redox Biochemistry in Lipid Environments 2010 , 27-60		3
154	Cyclosporine A-induced nitration of tyrosine 34 MnSOD in endothelial cells: role of mitochondrial superoxide. <i>Cardiovascular Research</i> , 2010 , 87, 356-65	9.9	53
153	Lipid peroxy radicals mediate tyrosine dimerization and nitration in membranes. <i>Chemical Research in Toxicology</i> , 2010 , 23, 821-35	4	65
152	Tyrosine-lipid peroxide adducts from radical termination: para coupling and intramolecular Diels-Alder cyclization. <i>Journal of the American Chemical Society</i> , 2010 , 132, 17490-500	16.4	26
151	Distance-dependent diffusion-controlled reaction of NO and O ₂ at chemical equilibrium with ONOO ⁻ . <i>Journal of Physical Chemistry B</i> , 2010 , 114, 16584-93	3.4	26
150	Formation and reactions of sulfenic acid in human serum albumin. <i>Methods in Enzymology</i> , 2010 , 473, 117-36	1.7	39
149	Thiol-sensitive mutant forms of human SOD2, L60F, and I58T: the role of Cys140. <i>Free Radical Biology and Medicine</i> , 2010 , 48, 1202-10	7.8	5
148	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, H1781-92	5.2	67
147	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> , 2009 , 284, 17-26	5.4	85
146	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 , 47, 100-104	7.8	105
145	Enzymes of the antioxidant network as novel determiners of <i>Trypanosoma cruzi</i> virulence. <i>International Journal for Parasitology</i> , 2009 , 39, 1455-64	4.3	100
144	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> , 2009 , 106, 2653-8	11.5	81
143	Fighting the oxidative assault: the <i>Trypanosoma cruzi</i> journey to infection. <i>Current Opinion in Microbiology</i> , 2009 , 12, 415-21	7.9	93
142	Chemical biology of peroxynitrite: kinetics, diffusion, and radicals. <i>ACS Chemical Biology</i> , 2009 , 4, 161-77	4.9	544
141	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, 9416-26	3.2	91
140	Mitochondrial calcium overload triggers complement-dependent superoxide-mediated programmed cell death in <i>Trypanosoma cruzi</i> . <i>Biochemical Journal</i> , 2009 , 418, 595-604	3.8	58

139	Protein tyrosine nitration--functional alteration or just a biomarker?. <i>Free Radical Biology and Medicine</i> , 2008 , 45, 357-66	7.8	323
138	Insights into the redox biology of <i>Trypanosoma cruzi</i> : Trypanothione metabolism and oxidant detoxification. <i>Free Radical Biology and Medicine</i> , 2008 , 45, 733-42	7.8	116
137	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, 866-74	7.8	65
136	Nitrocytochrome c: synthesis, purification, and functional studies. <i>Methods in Enzymology</i> , 2008 , 441, 197-215	1.7	27
135	Kinetic studies on peroxynitrite reduction by peroxiredoxins. <i>Methods in Enzymology</i> , 2008 , 441, 173-96	1.7	54
134	Peroxynitrite detoxification and its biologic implications. <i>Antioxidants and Redox Signaling</i> , 2008 , 10, 1607-20	8.4	86
133	Peroxynitrite inhibits electron transport on the acceptor side of higher plant photosystem II. <i>Archives of Biochemistry and Biophysics</i> , 2008 , 473, 25-33	4.1	16
132	Reactivity of sulfenic acid in human serum albumin. <i>Biochemistry</i> , 2008 , 47, 358-67	3.2	126
131	Protein and lipid nitration: role in redox signaling and injury. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2008 , 1780, 1318-24	4	97
130	Mitochondrial dysfunction in SOD1G93A-bearing astrocytes promotes motor neuron degeneration: prevention by mitochondrial-targeted antioxidants. <i>Journal of Neuroscience</i> , 2008 , 28, 4115-22	6.6	223
129	Peroxiredoxins play a major role in protecting <i>Trypanosoma cruzi</i> against macrophage- and endogenously-derived peroxynitrite. <i>Biochemical Journal</i> , 2008 , 410, 359-68	3.8	101
128	Tyrosine nitration, dimerization, and hydroxylation by peroxynitrite in membranes as studied by the hydrophobic probe N-t-BOC-L-tyrosine tert-butyl ester. <i>Methods in Enzymology</i> , 2008 , 441, 217-36	1.7	10
127	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, 323-34	3.8	115
126	Biochemistry of protein tyrosine nitration in cardiovascular pathology. <i>Cardiovascular Research</i> , 2007 , 75, 291-302	9.9	219
125	Incorporation of the hydrophobic probe N-t-BOC-L-tyrosine tert-butyl ester to red blood cell membranes to study peroxynitrite-dependent reactions. <i>Chemical Research in Toxicology</i> , 2007 , 20, 1638-48	4.8	12
124	Kinetics of peroxiredoxins and their role in the decomposition of peroxynitrite. <i>Sub-Cellular Biochemistry</i> , 2007 , 44, 83-113	5.5	105
123	Peroxynitrite: biochemistry, pathophysiology and development of therapeutics. <i>Nature Reviews Drug Discovery</i> , 2007 , 6, 662-80	64.1	1453
122	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, 1075-88	7.8	90

121	Interactions between nitric oxide and peroxynitrite during prostaglandin endoperoxide H synthase-1 catalysis: a free radical mechanism of inactivation. <i>Free Radical Biology and Medicine</i> , 2007 , 42, 1029-38	7.8	45
120	Inactivation and nitration of human superoxide dismutase (SOD) by fluxes of nitric oxide and superoxide. <i>Free Radical Biology and Medicine</i> , 2007 , 42, 1359-68	7.8	78
119	Reaction of the carbonate radical with the spin-trap 5,5-dimethyl-1-pyrroline-N-oxide in chemical and cellular systems: pulse radiolysis, electron paramagnetic resonance, and kinetic-competition studies. <i>Free Radical Biology and Medicine</i> , 2007 , 43, 1523-33	7.8	22
118	Protein tyrosine nitration in hydrophilic and hydrophobic environments. <i>Amino Acids</i> , 2007 , 32, 501-15	3.5	113
117	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, 7777-85	6.6	92
116	Prevention of peroxynitrite-induced apoptosis of motor neurons and PC12 cells by tyrosine-containing peptides. <i>Journal of Biological Chemistry</i> , 2007 , 282, 6324-37	5.4	49
115	Nitro-fatty acid reaction with glutathione and cysteine. Kinetic analysis of thiol alkylation by a Michael addition reaction. <i>Journal of Biological Chemistry</i> , 2007 , 282, 31085-93	5.4	152
114	Pre-steady state kinetic characterization of human peroxiredoxin 5: taking advantage of Trp84 fluorescence increase upon oxidation. <i>Archives of Biochemistry and Biophysics</i> , 2007 , 467, 95-106	4.1	136
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