Willem H Koppenol

List of Publications by Citations

209 papers	19,868 citations	63 h-index	139 g-index
235 ext. papers	21,198 ext. citations	6.2 avg, IF	6.95 L-index

#	Paper	IF	Citations
209	Nitric oxide, superoxide, and peroxynitrite: the good, the bad, and ugly. *American Journal of Physiology - Cell Physiology*, **1996**, 271, C1424-37	5.4	4107
208	Otto Warburg's contributions to current concepts of cancer metabolism. *Nature Reviews Cancer*, **2011**, 11, 325-37	31.3	1912
207	Peroxynitrite, a cloaked oxidant formed by nitric oxide and superoxide. *Chemical Research in Toxicology*, **1992**, 5, 834-42	4	1245
206	ALS, SOD and peroxynitrite. *Nature*, **1993**, 364, 584	50.4	675
205	Formation and properties of peroxynitrite as studied by laser flash photolysis, high-pressure stopped-flow technique, and pulse radiolysis. *Chemical Research in Toxicology*, **1997**, 10, 1285-92	4	543
204	The Haber-Weiss cycle--70 years later. *Redox Report*, **2001**, 6, 229-34	5.9	322
203	The oxidizing nature of the hydroxyl radical. A comparison with the ferryl ion (FeO2+). *The Journal of Physical Chemistry*, **1984**, 88, 99-101		309
202	The asymmetric distribution of charges on the surface of horse cytochrome c. Functional implications.. *Journal of Biological Chemistry*, **1982**, 257, 4426-4437	5.4	291
201	Chemical characterization of the smallest S-nitrosothiol, HSNO; cellular cross-talk of H2S and S-nitrosothiols. *Journal of the American Chemical Society*, **2012**, 134, 12016-27	16.4	267
200	The basic chemistry of nitrogen monoxide and peroxynitrite. *Free Radical Biology and Medicine*, **1998**, 25, 385-91	7.8	264
199	The complex interplay of iron metabolism, reactive oxygen species, and reactive nitrogen species: insights into the potential of various iron therapies to induce oxidative and nitrosative stress. *Free Radical Biology and Medicine*, **2013**, 65, 1174-1194	7.8	262
198	Energetics of interconversion reactions of oxyradicals. *Advances in Free Radical Biology & Medicine*, **1985**, 1, 91-131		236
197	Electrode potentials of partially reduced oxygen species, from dioxygen to water. *Free Radical Biology and Medicine*, **2010**, 49, 317-22	7.8	222
196	The asymmetric distribution of charges on the surface of horse cytochrome c. Functional implications. *Journal of Biological Chemistry*, **1982**, 257, 4426-37	5.4	222
195	Kinetics and mechanism of the reduction of ferricytochrome c by the superoxide anion.. *Journal of Biological Chemistry*, **1982**, 257, 10747-10750	5.4	218
194	Standard electrode potentials involving radicals in aqueous solution: inorganic radicals (IUPAC Technical Report). *Pure and Applied Chemistry*, **2015**, 87, 1139-1150	2.1	211
193	Reduction potential of the carbon dioxide/carbon dioxide radical anion: a comparison with other C1 radicals. *The Journal of Physical Chemistry*, **1987**, 91, 4429-4430		199

192	The centennial of the Fenton reaction. *Free Radical Biology and Medicine*, **1993**, 15, 645-51	7.8	187
191	Mechanism of reaction of myeloperoxidase with nitrite. *Journal of Biological Chemistry*, **2000**, 275, 20597-601	5.4	183
190	Radical (HO?, H? and HOO?) Formation and Ionomer Degradation in Polymer Electrolyte Fuel Cells. *Journal of the Electrochemical Society*, **2011**, 158, B755	3.9	178
189	Syntheses of peroxynitrite: to go with the flow or on solid grounds?. *Methods in Enzymology*, **1996**, 269, 296-302	1.7	170
188	On the pH-dependent yield of hydroxyl radical products from peroxynitrite. *Free Radical Biology and Medicine*, **1994**, 16, 331-8	7.8	168
187	Kinetics and mechanism of the reduction of ferricytochrome c by the superoxide anion. *Journal of Biological Chemistry*, **1982**, 257, 10747-50	5.4	165
186	THE HABER-WEISS CYCLE. *Photochemistry and Photobiology*, **1978**, 28, 655-658	3.6	163
185	The Rate Constant of the Reaction of Superoxide with Nitrogen Monoxide: Approaching the Diffusion Limit. *Journal of Physical Chemistry A*, **2002**, 106, 4084-4086	2.8	159
184	Oxidizing intermediates in the reaction of ferrous EDTA with hydrogen peroxide. Reactions with organic molecules and ferrocytochrome c.. *Journal of Biological Chemistry*, **1986**, 261, 6730-6733	5.4	154
183	Human peroxiredoxin 5 is a peroxynitrite reductase. *FEBS Letters*, **2004**, 571, 161-5	3.8	153
182	The kinetics of the oxidation of L-ascorbic acid by peroxynitrite. *Free Radical Biology and Medicine*, **1995**, 18, 85-92	7.8	152
181	A practical method for preparing peroxynitrite solutions of low ionic strength and free of hydrogen peroxide. *Free Radical Biology and Medicine*, **1995**, 18, 75-83	7.8	151
180	Reactions involving singlet oxygen and the superoxide anion. *Nature*, **1976**, 262, 420-1	50.4	150
179	Nitration and hydroxylation of phenolic compounds by peroxynitrite. *Chemical Research in Toxicology*, **1996**, 9, 232-40	4	144
178	Kinetic study of the reaction of ebselen with peroxynitrite. *FEBS Letters*, **1996**, 398, 179-82	3.8	139
177	Oxidizing intermediates in the reaction of ferrous EDTA with hydrogen peroxide. Reactions with organic molecules and ferrocytochrome c. *Journal of Biological Chemistry*, **1986**, 261, 6730-3	5.4	135
176	Selenium and sulfur in exchange reactions: a comparative study. *Journal of Organic Chemistry*, **2010**, 75, 6696-9	4.2	119
175	Oxyradical reactions: from bond-dissociation energies to reduction potentials. *FEBS Letters*, **1990**, 264, 165-7	3.8	119

174	Product distribution of peroxynitrite decay as a function of pH, temperature, and concentration. *Journal of the American Chemical Society*, **2002**, 124, 234-9	16.4	106
173	The hydroxylation of tryptophan. *Archives of Biochemistry and Biophysics*, **1992**, 296, 514-20	4.1	106
172	Reactions of iron(II) nitrilotriacetate and iron(II) ethylenediamine-N,N′-diacetate complexes with hydrogen peroxide. *Journal of the American Chemical Society*, **1988**, 110, 4957-4963	16.4	106
171	The kinetics of the reduction of cytochrome c by the superoxide anion radical. *Biochimica Et Biophysica Acta - Bioenergetics*, **1976**, 449, 157-68	4.6	105
170	The hydroxylation of phenylalanine and tyrosine: a comparison with salicylate and tryptophan. *Archives of Biochemistry and Biophysics*, **1992**, 296, 521-9	4.1	104
169	The reaction between ferrous polyaminocarboxylate complexes and hydrogen peroxide: an investigation of the reaction intermediates by stopped flow spectrophotometry. *Journal of Inorganic Biochemistry*, **1987**, 29, 199-215	4.2	102
168	Kinetic study of the reaction of glutathione peroxidase with peroxynitrite. *Chemical Research in Toxicology*, **1998**, 11, 1398-401	4	100
167	Can O=NOOH undergo homolysis?. *Chemical Research in Toxicology*, **1998**, 11, 87-90	4	98
166	Binding of ferredoxin to ferredoxin:NADP+ oxidoreductase: the role of carboxyl groups, electrostatic surface potential, and molecular dipole moment. *Protein Science*, **1993**, 2, 1126-35	6.3	97
165	Antioxidant nanoreactor based on superoxide dismutase encapsulated in superoxide-permeable vesicles. *Journal of Physical Chemistry B*, **2008**, 112, 8211-7	3.4	96
164	The hydroxylation of the salicylate anion by a Fenton reaction and T-radiolysis: a consideration of the respective mechanisms. *Free Radical Biology and Medicine*, **1990**, 8, 153-62	7.8	93
163	Catalysis of electron transfer by selenocysteine. *Biochemistry*, **2006**, 45, 6038-43	3.2	84
162	The electric potential field around cytochrome c and the effect of ionic strength on reaction rates of horse cytochrome c. *Biochimica Et Biophysica Acta - Bioenergetics*, **1978**, 503, 499-508	4.6	82
161	Iron and redox cycling. Do's and don'ts. *Free Radical Biology and Medicine*, **2019**, 133, 3-10	7.8	81
160	Peroxynitrite does not decompose to singlet oxygen ((1)Delta (g)O(2)) andnitroxyl (NO(-)). *Proceedings of the National Academy of Sciences of the United States of America*, **2000**, 97, 10307-12	11.5	80
159	Reaction of peroxynitrite with carbon dioxide: intermediates and determination of the yield of CO3*- and NO2*. *Journal of Biological Inorganic Chemistry*, **2002**, 7, 31-6	3.7	78
158	Ab Initio and NMR Study of Peroxynitrite and Peroxynitrous Acid: Important Biological Oxidants. *The Journal of Physical Chemistry*, **1996**, 100, 15087-15095		78
157	Reduction of protein radicals by GSH and ascorbate: potential biological significance. *Amino Acids*, **2010**, 39, 1131-7	3.5	76

156	The reaction of ferrous EDTA with hydrogen peroxide: evidence against hydroxyl radical formation. *Journal of Free Radicals in Biology & Medicine*, **1985**, 1, 281-5		76
155	Kinetic Simulation of the Chemical Stabilization Mechanism in Fuel Cell Membranes Using Cerium and Manganese Redox Couples. *Journal of the Electrochemical Society*, **2011**, 159, B211-B218	3.9	74
154	Electrostatic interactions in cytochrome c. The role of interactions between residues 13 and 90 and residues 79 and 47 in stabilizing the heme crevice structure. *Journal of Biological Chemistry*, **1980**, 255, 1689-97	5.4	74
153	Fenton chemistry and iron chelation under physiologically relevant conditions: Electrochemistry and kinetics. *Chemical Research in Toxicology*, **2006**, 19, 1263-9	4	73
152	Reactions of iron(II) nucleotide complexes with hydrogen peroxide. *FEBS Letters*, **1990**, 261, 121-123	3.8	72
151	The mechanisms of S-nitrosothiol decomposition catalyzed by iron. *Nitric Oxide - Biology and Chemistry*, **2004**, 10, 60-73	5	69
150	Mechanism of reactions involving singlet oxygen and the superoxide anion. *FEBS Letters*, **1977**, 83, 1-6	3.8	68
149	The kinetics of oxidation of GSH by protein radicals. *Biochemical Journal*, **2005**, 392, 693-701	3.8	66
148	Effect of a molecular dipole on the ionic strength dependence of a biomolecular rate constant. Identification of the site of reaction. *Biophysical Journal*, **1980**, 29, 493-507	2.9	66
147	Reversible intramolecular hydrogen transfer between cysteine thiyl radicals and glycine and alanine in model peptides: absolute rate constants derived from pulse radiolysis and laser flash photolysis. *Journal of Physical Chemistry B*, **2008**, 112, 15034-44	3.4	64
146	Thermodynamics of reactions involving oxyradicals and hydrogen peroxide. *Bioelectrochemistry*, **1987**, 18, 3-11		63
145	Effect of a dipole moment on the ionic strength dependence of electron-transfer reactions of cytochrome c. *Journal of the American Chemical Society*, **1987**, 109, 2679-2682	16.4	57
144	Efficient repair of protein radicals by ascorbate. *Free Radical Biology and Medicine*, **2009**, 46, 1049-57	7.8	56
143	On the irreversible destruction of reduced nicotinamide nucleotides by hypohalous acids. *Archives of Biochemistry and Biophysics*, **2000**, 380, 181-91	4.1	56
142	The quantitative oxidation of methionine to methionine sulfoxide by peroxynitrite. *Archives of Biochemistry and Biophysics*, **2000**, 377, 266-72	4.1	54
141	Why do proteins use selenocysteine instead of cysteine?. *Amino Acids*, **2012**, 42, 39-44	3.5	53
140	Peroxynitrous acid: controversy and consensus surrounding an enigmatic oxidant. *Dalton Transactions*, **2012**, 41, 13779-87	4.3	53
139	Mechanistic insight into the peroxidase catalyzed nitration of tyrosine derivatives by nitrite and hydrogen peroxide. *FEBS Journal*, **2004**, 271, 895-906		53

138	A thermodynamic appraisal of the radical sink hypothesis. *Free Radical Biology and Medicine*, **1993**, 14, 91-4	7.8	52
137	Distinction between hydroxyl radical and ferryl species. *Methods in Enzymology*, **1990**, 186, 148-56	1.7	52
136	Use of singly modified cytochrome c derivatives to determine the site for electron transfer in reactions with inorganic complexes. *Journal of the American Chemical Society*, **1981**, 103, 469-471	16.4	52
135	Peroxynitrite-mediated oxidation of dichlorodihydrofluorescein and dihydrorhodamine. *Free Radical Biology and Medicine*, **2003**, 35, 676-82	7.8	51
134	Reaction of peroxynitrite with L-tryptophan. *Redox Report*, **1996**, 2, 173-7	5.9	51
133	The Radiation Chemistry of Cytochrome c. *Israel Journal of Chemistry*, **1984**, 24, 11-16	3.4	51
132	Catalysis of superoxide dismutation by manganese aminopolycarboxylate complexes. *Archives of Biochemistry and Biophysics*, **1986**, 251, 594-9	4.1	50
131	Nitrosation, thiols, and hemoglobin: energetics and kinetics. *Inorganic Chemistry*, **2012**, 51, 5637-41	5.1	49
130	Intermediates in the autoxidation of nitrogen monoxide. *Chemistry - A European Journal*, **2009**, 15, 6161-8	4.8	48
129	On the oxidation of cytochrome c by hypohalous acids. *Archives of Biochemistry and Biophysics*, **2001**, 389, 110-22	4.1	48
128	Signaling by sulfur-containing molecules. Quantitative aspects. *Archives of Biochemistry and Biophysics*, **2017**, 617, 3-8	4.1	44
127	Thermodynamics of reactions involving nitrogen-oxygen compounds. *Methods in Enzymology*, **1996**, 268, 7-12	1.7	44
126	Peroxynitritometal complexes. *Coordination Chemistry Reviews*, **2005**, 249, 499-506	23.2	44
125	Thermodynamic considerations on the formation of reactive species from hypochlorite, superoxide and nitrogen monoxide. Could nitrosyl chloride be produced by neutrophils and macrophages?. *FEBS Letters*, **1994**, 347, 5-8	3.8	42
124	Reversible hydrogen transfer reactions in thiyl radicals from cysteine and related molecules: absolute kinetics and equilibrium constants determined by pulse radiolysis. *Journal of Physical Chemistry B*, **2012**, 116, 5329-41	3.4	40
123	Standard electrode potentials involving radicals in aqueous solution: inorganic radicals. *Bioinorganic Reaction Mechanisms*, **2013**, 9,		40
122	Definition of cytochrome c binding domains by chemical modification. Interaction of horse cytochrome c with beef sulfite oxidase and analysis of steady state kinetics. *Journal of Biological Chemistry*, **1981**, 256, 7394-400	5.4	39
121	Redox properties and activity of iron-citrate complexes: evidence for redox cycling. *Chemical Research in Toxicology*, **2015**, 28, 604-14	4	38

120	Oxygen activation by cytochrome p450: a thermodynamic analysis. *Journal of the American Chemical Society*, **2007**, 129, 9686-90	16.4	38
119	Peroxynitrate is formed rapidly during decomposition of peroxynitrite at neutral pH. *Dalton Transactions*, **2009**, 5730-6	4.3	37
118	The Haber-Weiss cycle 71 years later. *Redox Report*, **2002**, 7, 59-60	5.9	37
117	Chemiosmotic ATPase mechanisms. *Annals of the New York Academy of Sciences*, **1982**, 402, 584-601	6.5	37
116	Hydrogen exchange equilibria in glutathione radicals: rate constants. *Chemical Research in Toxicology*, **2010**, 23, 1596-600	4	36
115	Redox Properties of the Iron Complexes of Orally Active Iron Chelators CP20, CP502, CP509, and ICL670. *Helvetica Chimica Acta*, **2004**, 87, 3021-3034	2	36
114	The reduction potential of the couple O3/O3. Consequences for mechanisms of ozone toxicity. *FEBS Letters*, **1982**, 140, 169-72	3.8	36
113	Decomposition kinetics of peroxynitrite: influence of pH and buffer. *Dalton Transactions*, **2013**, 42, 9898-905	4.1	35
112	Inhibition of the Fenton reaction by nitrogen monoxide. *Journal of Biological Inorganic Chemistry*, **2005**, 10, 732-8	3.7	35
111	100 years of peroxynitrite chemistry and 11 years of peroxynitrite biochemistry. *Redox Report*, **2001**, 6, 339-41	5.9	34
110	Peroxynitrite efficiently mediates the interconversion of redox intermediates of myeloperoxidase. *Biochemical and Biophysical Research Communications*, **2005**, 337, 944-54	3.4	33
109	Synthesis and Characterization of Tris(tetraethylammonium) Pentacyanoperoxynitritocobaltate(III). *Helvetica Chimica Acta*, **2000**, 83, 748-754	2	32
108	The dipole moment of cytochrome c. *Molecular Biology and Evolution*, **1991**, 8, 545-58	8.3	32
107	The electron-transfer site of spinach plastocyanin. *Biochemistry*, **1988**, 27, 5876-84	3.2	32
106	Protein thiyl radical reactions and product formation: a kinetic simulation. *Free Radical Biology and Medicine*, **2015**, 80, 158-63	7.8	31
105	Concurrent cooperativity and substrate inhibition in the epoxidation of carbamazepine by cytochrome P450 3A4 active site mutants inspired by molecular dynamics simulations. *Biochemistry*, **2015**, 54, 711-21	3.2	31
104	Peroxynitrous acid--where is the hydroxyl radical?. *IUBMB Life*, **2003**, 55, 567-72	4.7	31
103	Ferredoxin binding site on ferredoxin: NADP+ reductase. Differential chemical modification of free and ferredoxin-bound enzyme. *FEBS Journal*, **1993**, 216, 57-66		31

102	Naming of new elements(IUPAC Recommendations 2002). *Pure and Applied Chemistry*, **2002**, 74, 787-791	2.1	30
101	A tunnelling model to explain the reduction of ferricytochrome c by H and OH radicals. *Biochimica Et Biophysica Acta - Bioenergetics*, **1978**, 503, 1-9	4.6	30
100	Oxidation of Nitrite by Peroxynitrous Acid. *Journal of Physical Chemistry A*, **2003**, 107, 1763-1769	2.8	29
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98	Say NO to nitric oxide: nomenclature for nitrogen- and oxygen-containing compounds. *Methods in Enzymology*, **1996**, 268, 3-7	1.7	28
97	Reactions of Fe(II)-ATP and Fe(II)-citrate complexes with t-butyl hydroperoxide and cumyl hydroperoxide. *FEBS Letters*, **1990**, 275, 114-6	3.8	28
96	Damage to fuel cell membranes. Reaction of HO* with an oligomer of poly(sodium styrene sulfonate) and subsequent reaction with O(2). *Physical Chemistry Chemical Physics*, **2010**, 12, 11609-16	3.6	27
95	Names for inorganic radicals (IUPAC Recommendations 2000). *Pure and Applied Chemistry*, **2000**, 72, 437-446	2.1	27
94	In vitro damage to rat lens by xanthine-xanthine oxidase: protection by ascorbate. *Experimental Eye Research*, **1986**, 43, 1067-76	3.7	27
93	Fast repair of protein radicals by urate. *Free Radical Biology and Medicine*, **2012**, 52, 1929-36	7.8	26
92	Distance-dependent diffusion-controlled reaction of •NO and O2•− at chemical equilibrium with ONOO-. *Journal of Physical Chemistry B*, **2010**, 114, 16584-93	3.4	26
91	Kinetics of tyrosyl radical reduction by selenocysteine. *Biochemistry*, **2008**, 47, 9602-7	3.2	26
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89	Why selenocysteine replaces cysteine in thioredoxin reductase: a radical hypothesis. *Biochemistry*, **2014**, 53, 5017-22	3.2	25
88	Kinetics properties of Cu,Zn-superoxide dismutase as a function of metal content. *Archives of Biochemistry and Biophysics*, **2005**, 439, 234-40	4.1	25
87	Rapid reaction of superoxide with insulin-tyrosyl radicals to generate a hydroperoxide with subsequent glutathione addition. *Free Radical Biology and Medicine*, **2014**, 70, 86-95	7.8	24
86	Spirohydantoin inhibitors of aldose reductase inhibit iron- and copper-catalysed ascorbate oxidation in vitro. *Biochemical Pharmacology*, **1991**, 42, 1273-8	6	24
85	Rapid scavenging of peroxynitrous acid by monohydroascorbate. *Free Radical Biology and Medicine*, **2003**, 35, 1529-37	7.8	23

84	Conformation of peroxynitrite: determination by crystallographic analysis. *Chemical Research in Toxicology*, **1999**, 12, 305-7	4	23
83	Reactions of Peroxynitrite with Phenolic and Carbonyl Compounds: Flavonoids are not Scavengers of Peroxynitrite. *Helvetica Chimica Acta*, **2000**, 83, 2412-2424	2	22
82	Peroxynitrite uncloaked?. *Chemical Research in Toxicology*, **1998**, 11, 716-7	4	21
81	Calmodulin methionine residues are targets for one-electron oxidation by hydroxyl radicals: formation of S[therefore]N three-electron bonded radical complexes. *Chemical Communications*, **2005**, 587-9	5.8	20
80	A Novel Hexanuclear FeIII-cis-Inositolato Complex as a Model for FeIII-Polyol Interactions in Aqueous Solution. *Angewandte Chemie International Edition in English*, **1995**, 34, 2242-2243		20
79	Water increases rates of epoxidation by Mn(III)porphyrins/imidazole/IO4(-) in CH2Cl2. Analogy with peroxidase and chlorite dismutase. *Dalton Transactions*, **2011**, 40, 8695-700	4.3	18
78	Oxidation of NADH by chloramines and chloramides and its activation by iodide and by tertiary amines. *Archives of Biochemistry and Biophysics*, **2001**, 393, 297-307	4.1	18
77	Conformational stability of ferrocytochrome c. Electrostatic aspects of the oxidation by tris(1,10-phenanthroline)cobalt(III) at low ionic strength.. *Journal of Biological Chemistry*, **1988**, 263, 7514-7520	5.4	18
76	ONOOH does not react with H2: Potential beneficial effects of H2 as an antioxidant by selective reaction with hydroxyl radicals and peroxynitrite. *Free Radical Biology and Medicine*, **2014**, 75, 191-4	7.8	17
75	Hydrogen exchange equilibria in thiols. *Chemical Research in Toxicology*, **2012**, 25, 1862-7	4	17
74	Hydrogen Isotope Effect on the Isomerization of Peroxynitrous Acid. *Helvetica Chimica Acta*, **1998**, 81, 1201-1206	2	17
73	Qualitative and quantitative determination of nitrite and nitrate with ion chromatography. *Methods in Enzymology*, **2005**, 396, 61-8	1.7	17
72	Chemiluminescence of Pholasin caused by peroxynitrite. *Free Radical Biology and Medicine*, **2005**, 38, 1014-22	7.8	17
71	Electron affinity of chlorine dioxide. *The Journal of Physical Chemistry*, **1989**, 93, 8126-8127		17
70	The enthalpy of isomerization of peroxynitrite to nitrate. *Thermochimica Acta*, **1996**, 273, 11-15	2.9	16
69	Preventing nitrite contamination in tetramethylammonium peroxynitrite solutions. *Inorganic Chemistry*, **2004**, 43, 6519-21	5.1	15
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66	The superoxide dismutase activities of two higher valent manganese complexes, MnIV desferrioxamine and MnIII-cyclam. *Archives of Biochemistry and Biophysics*, **1991**, 289, 97-102	4.1	15
65	Mechanism of the reaction of hydrated electrons with ferrocytochrome c. *Biochimica Et Biophysica Acta - Bioenergetics*, **1977**, 459, 207-15	4.6	15
64	The glutathione thiyl radical does not react with nitrogen monoxide. *Biochemical and Biophysical Research Communications*, **2007**, 360, 146-8	3.4	14
63	On the chemical and electrochemical one-electron reduction of peroxynitrous acid. *Journal of Physical Chemistry A*, **2005**, 109, 965-9	2.8	14
62	Thermodynamic considerations on the generation of hydroxyl radicals from nitrous oxide--no laughing matter. *Free Radical Biology and Medicine*, **1991**, 10, 85-7	7.8	14
61	Oxyradicals and multivitamin tablets. *Free Radical Biology and Medicine*, **1991**, 11, 609-10	7.8	14
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57	The kinetics of the reaction of nitrogen dioxide with iron(II)- and iron(III) cytochrome c. *Free Radical Biology and Medicine*, **2014**, 69, 172-80	7.8	12
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55	Paneth, IUPAC, and the Naming of Elements. *Helvetica Chimica Acta*, **2005**, 88, 95-99	2	12
54	Formation and properties of peroxynitrite as studied by laser flash photolysis, high-pressure stopped-flow technique, and pulse radiolysis volume 10, number 11, november 1997, pp 1285-1292. *Chemical Research in Toxicology*, **1998**, 11, 557	4	12
53	Chemistry of peroxynitrite and its relevance to biological systems. *Metal Ions in Biological Systems*, **1999**, 36, 597-619		12
52	The Haber-Weiss reaction - The latest revival. *Free Radical Biology and Medicine*, **2019**, 145, 221-222	7.8	11
51	Repair of Protein Radicals by Antioxidants. *Israel Journal of Chemistry*, **2014**, 54, 254-264	3.4	11
50	Dissociation of CP20 from Iron(II)(cp20)3: A Pulse Radiolysis Study. *European Journal of Inorganic Chemistry*, **2006**, 2006, 671-675	2.3	11
49	NO nomenclature?. *Nitric Oxide - Biology and Chemistry*, **2002**, 6, 96-8	5	11

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47	Gibbs energy of formation of peroxynitrite. *Chemical Research in Toxicology*, **2001**, 14, 348-50	4	11
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44	Efficient depletion of ascorbate by amino acid and protein radicals under oxidative stress. *Free Radical Biology and Medicine*, **2012**, 53, 1565-73	7.8	10
43	Two pathways of carbon dioxide catalyzed oxidative coupling of phenol by peroxynitrite. *Chemical Research in Toxicology*, **2006**, 19, 382-91	4	10
42	Iron(II) binding by cereal beta-glucan. *Carbohydrate Polymers*, **2015**, 115, 739-43	10.3	9
41	Reaction of CO with ONOO: One Molecule of CO Is Not Enough. *Chemical Research in Toxicology*, **2018**, 31, 721-730	4	9
40	Jumpstarting the cytochrome P450 catalytic cycle with a hydrated electron. *Journal of Biological Chemistry*, **2017**, 292, 21481-21489	5.4	9
39	Oxidation-state-dependent reactions of cytochrome c with the trioxidocarbonate(*1-) radical: a pulse radiolysis study. *Journal of Biological Inorganic Chemistry*, **2007**, 12, 118-25	3.7	9
38	UV photolysis of 3-nitrotyrosine generates highly oxidizing species: a potential source of photooxidative stress. *Chemical Research in Toxicology*, **2004**, 17, 1227-35	4	9
37	Evaluation of Activation Volumes for the Conversion of Peroxynitrous to Nitric Acid. *Journal of Physical Chemistry A*, **2003**, 107, 11261-11263	2.8	9
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