Garry R Buettner

List of Publications by Year
in descending order

225	23,994	10351 72	7718 150
papers	citations	h-index	g-index

247	247	247	25370
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	TREMâ€1 is required for enhanced OpZâ€induced superoxide generation following priming. Journal of Leukocyte Biology, 2022, , .	1.5	1
2	Oxidation of ferumoxytol by ionizing radiation releases iron. An electron paramagnetic resonance study. Journal of Radiation Research, 2022, 63, 378-384.	0.8	6
3	Pharmacological ascorbate improves the response to platinum-based chemotherapy in advanced stage non-small cell lung cancer. Redox Biology, 2022, 53, 102318.	3.9	8
4	Magnetic resonance imaging (MRI) of pharmacological ascorbate-induced iron redox state as a biomarker in subjects undergoing radio-chemotherapy. Redox Biology, 2021, 38, 101804.	3.9	14
5	Pharmacological ascorbate and use in pancreatic cancer. , 2021, , 515-521.		0
6	N-alkyl triphenylvinylpyridinium conjugated dihydroartemisinin perturbs mitochondrial functions resulting in enhanced cancer versus normal cell toxicity. Free Radical Biology and Medicine, 2021, 165, 421-434.	1.3	2
7	Catalase Modulates the Radio-Sensitization of Pancreatic Cancer Cells by Pharmacological Ascorbate. Antioxidants, 2021, 10, 614.	2.2	4
8	Reply to Petersen et al.: An alternative hypothesis for why exposure to static magnetic and electric fields treats type 2 diabetes. American Journal of Physiology - Endocrinology and Metabolism, 2021, 320, E1004-E1005.	1.8	0
9	Counterpoint: An alternative hypothesis for why exposure to static magnetic and electric fields treats type 2 diabetes. American Journal of Physiology - Endocrinology and Metabolism, 2021, 320, E1001-E1002.	1.8	4
10	Prolonged Reactive Oxygen Species Production following Septic Insult. ImmunoHorizons, 2021, 5, 477-488.	0.8	14
11	Red blood cells contain enzymatically active GPx4 whose abundance anticorrelates with hemolysis during blood bank storage. Redox Biology, 2021, 46, 102073.	3.9	15
12	Electron Spin Resonance Evaluation of Buccal Membrane Fluidity Alterations by Sodium Caprylate and L-Menthol. International Journal of Molecular Sciences, 2021, 22, 10708.	1.8	6
13	Utilization of Pharmacological Ascorbate to Enhance Hydrogen Peroxide-Mediated Radiosensitivity in Cancer Therapy. International Journal of Molecular Sciences, 2021, 22, 10880.	1.8	9
14	Exposure to Static Magnetic and Electric Fields Treats Type 2 Diabetes. Cell Metabolism, 2020, 32, 561-574.e7.	7.2	55
15	Response to Ling et al. regarding â€œAn integrated physico-chemical approach for explaining the differential impact of FLASH versus conventional dose rate irradiation on cancer and normal tissue responsesâ€. Radiotherapy and Oncology, 2020, 147, 241-242.	0.3	2
16	The latency of peroxisomal catalase in terms of effectiveness factor for pancreatic and glioblastoma cancer cell lines in the presence of high concentrations of H2O2: Implications for the use of pharmacological ascorbate in cancer therapy. Free Radical Biology and Medicine, 2020, 156, 20-25.	1.3	4
17	Understanding the Redox Biology of Selenium in the Search of Targeted Cancer Therapies. Antioxidants, 2020, 9, 420.	2.2	29
18	Disulfiram causes selective hypoxic cancer cell toxicity and radio-chemo-sensitization via redox cycling of copper. Free Radical Biology and Medicine, 2020, 150, 1-11.	1.3	22

#	Article	IF	Citations
19	Dual Oxidase-Induced Sustained Generation of Hydrogen Peroxide Contributes to Pharmacologic Ascorbate-Induced Cytotoxicity. Cancer Research, 2020, 80, 1401-1413.	0.4	26
20	Hydrogen Peroxide Mediates Artemisinin-Derived C-16 Carba-Dimer-Induced Toxicity of Human Cancer Cells. Antioxidants, 2020, 9, 108.	2.2	3
21	Simultaneous detection of the enzyme activities of GPx1 and GPx4 guide optimization of selenium in cell biological experiments. Redox Biology, 2020, 32, 101518.	3.9	34
22	Triphenylphosphonium derivatives disrupt metabolism and inhibit melanoma growth in vivo when delivered via a thermosensitive hydrogel. PLoS ONE, 2020, 15, e0244540.	1.1	6
23	Linking Cancer Metabolic Dysfunction and Genetic Instability through the Lens of Iron Metabolism. Cancers, 2019, 11, 1077.	1.7	43
24	First-in-Human Phase I Clinical Trial of Pharmacologic Ascorbate Combined with Radiation and Temozolomide for Newly Diagnosed Glioblastoma. Clinical Cancer Research, 2019, 25, 6590-6597.	3.2	52
25	Response to letter regarding â€œAn integrated physico-chemical approach for explaining the differential impact of FLASH versus conventional dose rate irradiation on cancer and normal tissue responsesâ€• Radiotherapy and Oncology, 2019, 139, 64-65.	0.3	12
26	Metadherin enhances vulnerability of cancer cells to ferroptosis. Cell Death and Disease, 2019, 10, 682.	2.7	44
27	An integrated physico-chemical approach for explaining the differential impact of FLASH versus conventional dose rate irradiation on cancer and normal tissue responses. Radiotherapy and Oncology, 2019, 139, 23-27.	0.3	189
28	Nox2 NADPH oxidase is dispensable for platelet activation or arterial thrombosis in mice. Blood Advances, 2019, 3, 1272-1284.	2.5	34
29	Pharmacologic Ascorbate Primes Pancreatic Cancer Cells for Death by Rewiring Cellular Energetics and Inducing DNA Damage. Molecular Cancer Research, 2019, 17, 2102-2114.	1.5	21
30	In vitro Cytotoxicity and Pharmacokinetic Evaluation of Pharmacological Ascorbate in Dogs. Frontiers in Veterinary Science, 2019, 6, 385.	0.9	16
31	Pharmacological Ascorbate as a Means of Sensitizing Cancer Cells to Radio-Chemotherapy While Protecting Normal Tissue. Seminars in Radiation Oncology, 2019, 29, 25-32.	1.0	39
32	The relationship between vitamin C status, the gut-liver axis, and metabolic syndrome. Redox Biology, 2019, 21, 101091.	3.9	52
33	Methylseleninic Acid Induces Lipid Peroxidation and Radiation Sensitivity in Head and Neck Cancer Cells. International Journal of Molecular Sciences, 2019, 20, 225.	1.8	15
34	Assessment of the Stability of Supraphysiological Ascorbate in Human Blood: Appropriate Handling of Samples from Clinical Trials for Measurements of Pharmacological Ascorbate. Radiation Research, 2019, 191, 491.	0.7	2
35	Pharmacologic ascorbate (P-AscHâ¯) suppresses hypoxia-inducible Factor-1Î± (HIF-1Î±) in pancreatic adenocarcinoma. Clinical and Experimental Metastasis, 2018, 35, 37-51.	1.7	25
36	Calculated cell-specific intracellular hydrogen peroxide concentration: Relevance in cancer cell susceptibility during ascorbate therapy. Free Radical Biology and Medicine, 2018, 120, 356-367.	1.3	12

#	Article	IF	Citations
37	Redox active metals and H2O2 mediate the increased efficacy of pharmacological ascorbate in combination with gemcitabine or radiation in pre-clinical sarcoma models. Redox Biology, 2018, 14, 417-422.	3.9	42
38	Augmentation of intracellular iron using iron sucrose enhances the toxicity of pharmacological ascorbate in colon cancer cells. Redox Biology, 2018, 14, 82-87.	3.9	30
39	Enhanced Pharmacological Ascorbate Oxidation Radiosensitizes Pancreatic Cancer. Radiation Research, 2018, 191, 43.	0.7	13
40	Pharmacologic Ascorbate Reduces Radiation-Induced Normal Tissue Toxicity and Enhances Tumor Radiosensitization in Pancreatic Cancer. Cancer Research, 2018, 78, 6838-6851.	0.4	83
41	Extracellular superoxide dismutase (SOD3) regulates oxidative stress at the vitreoretinal interface. Free Radical Biology and Medicine, 2018, 124, 408-419.	1.3	32
42	Superoxide Dismutase Mimetic GC4419 Enhances the Oxidation of Pharmacological Ascorbate and Its Anticancer Effects in an H2O2-Dependent Manner. Antioxidants, 2018, 7, 18.	2.2	32
43	O 2 â‹…â˙ and H 2 O 2 -Mediated Disruption of Fe Metabolism Causes the Differential Susceptibility of NSCLC and GBM Cancer Cells to Pharmacological Ascorbate. Cancer Cell, 2017, 31, 487-500.e8.	7.7	316
44	Mitofusin 1 and optic atrophy 1 shift metabolism to mitochondrial respiration during aging. Aging Cell, 2017, 16, 1136-1145.	3.0	50
45	Peroxiporin Expression Is an Important Factor for Cancer Cell Susceptibility to Therapeutic H2O2: Implications for Pharmacological Ascorbate Therapy. PLoS ONE, 2017, 12, e0170442.	1.1	35
46	Tumor cells have decreased ability to metabolize H2O2: Implications for pharmacological ascorbate in cancer therapy. Redox Biology, 2016, 10, 274-284.	3.9	231
47	Antioxidant-Mediated Modulation of Protein Reactivity for 3,4-Dihydroxyphenylacetaldehyde, a Toxic Dopamine Metabolite. Chemical Research in Toxicology, 2016, 29, 1098-1107.	1.7	24
48	Direct spectrophotometric measurement of supra-physiological levels of ascorbate in plasma. Redox Biology, 2016, 8, 298-304.	3.9	20
49	Succinate dehydrogenase activity regulates PCB3-quinone-induced metabolic oxidative stress and toxicity in HaCaT human keratinocytes. Archives of Toxicology, 2016, 90, 319-332.	1.9	30
50	Breaking the dogma: PCB-derived semiquinone free radicals do not form covalent adducts with DNA, GSH, and amino acids. Environmental Science and Pollution Research, 2016, 23, 2138-2147.	2.7	4
51	The Selective Toxicity of Pharmacological Ascorbate Is Mediated by Alterations in Iron Metabolism. Free Radical Biology and Medicine, 2015, 87, S72-S73.	1.3	0
52	In vivo imaging of free radicals produced by multivitamin-mineral supplements. BMC Nutrition, 2015, 1, .	0.6	1
53	The heritability of hemolysis in stored human red blood cells. Transfusion, 2015, 55, 1178-1185.	0.8	77
54	Monohydroxylated Polybrominated Diphenyl Ethers (OH-PBDEs) and Dihydroxylated Polybrominated Biphenyls (Di-OH-PBBs): Novel Photoproducts of 2,6-Dibromophenol. Environmental Science & Technology, 2015, 49, 14120-14128.	4.6	20

#	Article	IF	Citations
55	Loss of SOD3 (EcSOD) Expression Promotes an Aggressive Phenotype in Human Pancreatic Ductal Adenocarcinoma. Clinical Cancer Research, 2015, 21, 1741-1751.	3.2	58
56	Inhibition of MCU forces extramitochondrial adaptations governing physiological and pathological stress responses in heart. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9129-9134.	3.3	140
57	Manganoporphyrins and ascorbate enhance gemcitabine cytotoxicity in pancreatic cancer. Free Radical Biology and Medicine, 2015, 83, 227-237.	1.3	31
58	Role of labile iron in the toxicity of pharmacological ascorbate. Free Radical Biology and Medicine, 2015, 84, 289-295.	1.3	57
59	Pharmacological Ascorbate Radiosensitizes Pancreatic Cancer. Cancer Research, 2015, 75, 3314-3326.	0.4	89
60	Moving free radical and redox biology ahead in the next decade(s). Free Radical Biology and Medicine, 2015, 78, 236-238.	1.3	20
61	Moles of a Substance per Cell Is a Highly Informative Dosing Metric in Cell Culture. PLoS ONE, 2015, 10, e0132572.	1.1	49
62	The heritability of metabolite concentrations in stored human red blood cells. Transfusion, 2014, 54, 2055-2063.	0.8	59
63	The â€˜mitoflashâ€™ probe cpYFP does not respond to superoxide. Nature, 2014, 514, E12-E14.	13.7	109
64	SIRT3 deacetylates and increases pyruvate dehydrogenase activity in cancer cells. Free Radical Biology and Medicine, 2014, 76, 163-172.	1.3	156
65	Forkhead Box M1 Regulates Quiescence-Associated Radioresistance of Human Head and Neck Squamous Carcinoma Cells. Radiation Research, 2014, 182, 420.	0.7	21
66	Heritability of glutathione and related metabolites in stored red blood cells. Free Radical Biology and Medicine, 2014, 76, 107-113.	1.3	63
67	Pharmacological ascorbate and ionizing radiation (IR) increase labile iron in pancreatic cancer. Redox Biology, 2014, 2, 22-27.	3.9	38
68	Extracellular superoxide dismutase suppresses hypoxia-inducible factor-1Î± in pancreatic cancer. Free Radical Biology and Medicine, 2014, 69, 357-366.	1.3	33
69	Regulation of pancreatic cancer growth by superoxide. Molecular Carcinogenesis, 2013, 52, 555-567.	1.3	40
70	Quantitative Redox Biology: An Approach to Understand the Role of Reactive Species in Defining the Cellular Redox Environment. Cell Biochemistry and Biophysics, 2013, 67, 477-483.	0.9	77
71	Pharmacological ascorbate with gemcitabine for the control of metastatic and node-positive pancreatic cancer (PACMAN): results from a phase I clinical trial. Cancer Chemotherapy and Pharmacology, 2013, 71, 765-775.	1.1	239
72	The concentration of glutathione in human erythrocytes is a heritable trait. Free Radical Biology and Medicine, 2013, 65, 742-749.	1.3	84

#	Article	IF	Citations
73	An assay for the rate of removal of extracellular hydrogen peroxide by cells. Redox Biology, 2013, 1, 210-217.	3.9	52
74	Inhibitors of hydroperoxide metabolism enhance ascorbate-induced cytotoxicity. Free Radical Research, 2013, 47, 154-163.	1.5	53
75	CaMKII Is Essential for the Proasthmatic Effects of Oxidation. Science Translational Medicine, 2013, 5, 195ra97.	5.8	54
76	Manganoporphyrins Increase Ascorbate-Induced Cytotoxicity by Enhancing H2O2 Generation. Cancer Research, 2013, 73, 5232-5241.	0.4	68
77	Interleukin-6 counteracts therapy-induced cellular oxidative stress in multiple myeloma by up-regulating manganese superoxide dismutase. Biochemical Journal, 2012, 444, 515-527.	1.7	37
78	Manganese Superoxide Dismutase Regulates a Metabolic Switch during the Mammalian Cell Cycle. Cancer Research, 2012, 72, 3807-3816.	0.4	58
79	Heme Oxygenaseâ€1 Is Protective Against Nonsteroidal Antiâ€inflammatory Drugâ€“induced Gastric Ulcers. Journal of Pediatric Gastroenterology and Nutrition, 2012, 54, 471-476.	0.9	31
80	Ascorbic acid: Chemistry, biology and the treatment of cancer. Biochimica Et Biophysica Acta: Reviews on Cancer, 2012, 1826, 443-457.	3.3	635
81	MnSOD activity regulates hydroxytyrosol-induced extension of chronological lifespan. Age, 2012, 34, 95-109.	3.0	34
82	Comment on â€œPharmacologic ascorbate synergizes with gemcitabine in preclinical models of pancreatic cancer,â€•i.e., all we are saying is, give C a chance. Free Radical Biology and Medicine, 2011, 50, 1726-1727.	1.3	8
83	The rate of oxygen utilization by cells. Free Radical Biology and Medicine, 2011, 51, 700-712.	1.3	280
84	Superoxide Dismutase in Redox Biology: The Roles of Superoxide and Hydrogen Peroxide. Anti-Cancer Agents in Medicinal Chemistry, 2011, 11, 341-346.	0.9	259
85	Oxidation of 3,4-Dihydroxyphenylacetaldehyde, a Toxic Dopaminergic Metabolite, to a Semiquinone Radical and an ortho-Quinone. Journal of Biological Chemistry, 2011, 286, 26978-26986.	1.6	89
86	Chitosan gallate as a novel potential polysaccharide antioxidant: an EPR study. Carbohydrate Research, 2010, 345, 132-140.	1.1	131
87	Observation of an unusual electronically distorted semiquinone radical of PCB metabolites in the active site of prostaglandin H synthase-2. Chemosphere, 2010, 81, 1501-1508.	4.2	4
88	Thermodynamic and kinetic considerations for the reaction of semiquinone radicals to form superoxide and hydrogen peroxide. Free Radical Biology and Medicine, 2010, 49, 919-962.	1.3	281
89	Free radicals produced by the oxidation of gallic acid: An electron paramagnetic resonance study. Chemistry Central Journal, 2010, 4, 15.	2.6	115
90	Introduction to the Symposium-in-Print: Photobiology of the Skin and Eye in Memory of Colin F. Chignell. Photochemistry and Photobiology, 2010, 86, 740-741.	1.3	0

#	Article	IF	Citations
91	Mechanisms of Ascorbate-Induced Cytotoxicity in Pancreatic Cancer. Clinical Cancer Research, 2010, 16, 509-520.	3.2	272
92	Minimization of free radical damage by metal catalysis of multivitamin/multimineral supplements. Nutrition Journal, 2010, 9, 61.	1.5	9
93	Nonenzymatic displacement of chlorine and formation of free radicals upon the reaction of glutathione with PCB quinones. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 9725-9730.	3.3	108
94	Endosomal Nox2 Facilitates Redox-Dependent Induction of NF-Î¹B by TNF-Î±. Antioxidants and Redox Signaling, 2009, 11, 1249-1263.	2.5	102
95	Aging augments mitochondrial susceptibility to heat stress. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009, 296, R812-R820.	0.9	34
96	UVA/B-Induced Formation of Free Radicals from Decabromodiphenyl Ether. Environmental Science & Technology, 2009, 43, 2581-2588.	4.6	48
97	Deficiency of MnSOD in Hematopoietic Stem Cells Causes a Sideroblastic Anemia-Like Phenotype.. Blood, 2009, 114, 1991-1991.	0.6	0
98	Chitosan conjugated with deoxycholic acid and gallic acid: A novel biopolymerâ€based additive antioxidant for polyethylene. Journal of Applied Polymer Science, 2008, 109, 38-46.	1.3	47
99	Catalase ameliorates polychlorinated biphenyl-induced cytotoxicity in nonmalignant human breast epithelial cells. Free Radical Biology and Medicine, 2008, 45, 1094-1102.	1.3	32
100	Iron supplements and oxidative stress in very low birth weight infants. Journal of Pediatrics, 2008, 152, 890-891.	0.9	1
101	Semiquinone Radicals from Oxygenated Polychlorinated Biphenyls: Electron Paramagnetic Resonance Studies. Chemical Research in Toxicology, 2008, 21, 1359-1367.	1.7	79
102	Dysregulation of hepatic iron with aging: implications for heat stress-induced oxidative liver injury. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 294, R1165-R1174.	0.9	25
103	Chlorination Increases the Persistence of Semiquinone Free Radicals Derived from Polychlorinated Biphenyl Hydroquinones and Quinones. Journal of Organic Chemistry, 2008, 73, 8296-8304.	1.7	70
104	Manganese Superoxide Dismutase Modulates Hypoxia-Inducible Factor-1Î± Induction via Superoxide. Cancer Research, 2008, 68, 2781-2788.	0.4	106
105	Ascorbate in pharmacologic concentrations selectively generates ascorbate radical and hydrogen peroxide in extracellular fluid in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 8749-8754.	3.3	588
106	Inactivation of Anthracyclines by Serum Heme Proteins. Chemical Research in Toxicology, 2007, 20, 920-926.	1.7	13
107	The rate of cellular hydrogen peroxide removal shows dependency on GSH: Mathematical insight intoin vivoH₂O₂and GPx concentrations. Free Radical Research, 2007, 41, 1201-1211.	1.5	104
108	Tin protoporphyrin induces intestinal chloride secretion by inducing light oxidation processes. American Journal of Physiology - Cell Physiology, 2007, 292, C1906-C1914.	2.1	6

#	Article	IF	Citations
109	A simple and sensitive assay for ascorbate using a plate reader. Analytical Biochemistry, 2007, 365, 31-39.	1.1	70
110	Dysregulation of hepatic iron with aging: implications for stressâ€induced oxidative liver injury. FASEB Journal, 2007, 21, A815.	0.2	0
111	Nitric oxide decreases the stability of DMPO spin adducts. Nitric Oxide - Biology and Chemistry, 2006, 15, 133-141.	1.2	19
112	Ascorbate Reacts with Singlet Oxygen to Produce Hydrogen Peroxide. Photochemistry and Photobiology, 2006, 82, 1634.	1.3	77
113	Ascorbate Reacts with Singlet Oxygen to Produce Hydrogen Peroxide. Photochemistry and Photobiology, 2006, 82, 1634-1637.	1.3	131
114	Nitric oxide as a cellular antioxidant: A little goes a long way. Free Radical Biology and Medicine, 2006, 40, 501-506.	1.3	114
115	Commentary on â€œFaster plasma vitamin E disappearance in smokers is normalized by vitamin C supplementationâ€. Free Radical Biology and Medicine, 2006, 40, 555-556.	1.3	7
116	Ascorbate enhances the toxicity of the photodynamic action of Verteporfin in HL-60 cells. Free Radical Biology and Medicine, 2006, 40, 1615-1627.	1.3	28
117	A New Paradigm: Manganese Superoxide Dismutase Influences the Production of H2O2 in Cells and Thereby Their Biological State. Free Radical Biology and Medicine, 2006, 41, 1338-1350.	1.3	170
118	Inactivation of Primary Antioxidant Enzymes in Mouse Keratinocytes by Photodynamically Generated Singlet Oxygen. Antioxidants and Redox Signaling, 2006, 8, 1307-1314.	2.5	18
119	Manganese superoxide dismutase overexpression inhibits the growth of androgen-independent prostate cancer cells. Oncogene, 2005, 24, 77-89.	2.6	142
120	Manganese superoxide dismutase suppresses hypoxic induction of hypoxia-inducible factor-1Î± and vascular endothelial growth factor. Oncogene, 2005, 24, 8154-8166.	2.6	130
121	Pharmacologic ascorbic acid concentrations selectively kill cancer cells: Action as a pro-drug to deliver hydrogen peroxide to tissues. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 13604-13609.	3.3	895
122	Mitochondrial O2â‹…Â¯ and H2O2 Mediate Glucose Deprivation-induced Stress in Human Cancer Cells. Journal of Biological Chemistry, 2005, 280, 4254-4263.	1.6	225
123	Doxorubicin increases intracellular hydrogen peroxide in PC3 prostate cancer cells. Archives of Biochemistry and Biophysics, 2005, 440, 181-190.	1.4	79
124	High Levels of Catalase and Glutathione Peroxidase Activity Dampen H2O2Signaling in Human Alveolar Macrophages. American Journal of Respiratory Cell and Molecular Biology, 2004, 31, 43-53.	1.4	60
125	The nitric oxide synthase inhibitor NG-nitro-l-arginine decreases defibrillation-induced free radical generation. Resuscitation, 2004, 60, 351-358.	1.3	6
126	Overexpression of Manganese Superoxide Dismutase Promotes the Survival of Prostate Cancer Cells Exposed to Hyperthermia. Free Radical Research, 2004, 38, 1119-1132.	1.5	41

#	Article	IF	Citations
127	Detection of Lipid Radicals Using EPR. Antioxidants and Redox Signaling, 2004, 6, 631-638.	2.5	36
128	Endogenous production and exogenous exposure to nitric oxide augment doxorubicin cytotoxicity for breast cancer cells but not cardiac myoblasts. Nitric Oxide - Biology and Chemistry, 2004, 10, 119-129.	1.2	65
129	Evidence for oxidative stress in NSAID-induced colitis in IL10â^'/â^' mice. Free Radical Biology and Medicine, 2003, 34, 1153-1166.	1.3	34
130	Magnesium reduces free radical concentration and preserves left ventricular function after direct current shocks. Resuscitation, 2003, 56, 199-206.	1.3	28
131	The nitric oxide synthase inhibitor NG-nitro-l-arginine decreases defibrillation-induced free radical generation. Resuscitation, 2003, 57, 101-108.	1.3	3
132	The nitric oxide donor S-nitroso-N-acetylpenicillamine (SNAP) increases free radical generation and degrades left ventricular function after myocardial ischemiaâ€“reperfusion. Resuscitation, 2003, 59, 345-352.	1.3	16
133	Phospholipid Hydroperoxide Glutathione Peroxidase Induces a Delay in G1of the Cell Cycle. Free Radical Research, 2003, 37, 621-630.	1.5	30
134	L-PhGPx expression can be suppressed by antisense oligodeoxynucleotides. Archives of Biochemistry and Biophysics, 2003, 417, 212-218.	1.4	13
135	Free radical and drug oxidation products in an intensive care unit sedative: Propofol with sulfite*. Critical Care Medicine, 2003, 31, 787-792.	0.4	39
136	Redox State and Redox Environment in Biology. , 2003, , 1-14.		8
137	Comparing Î²-Carotene, Vitamin E and Nitric Oxide as Membrane Antioxidants. Biological Chemistry, 2002, 383, 671-81.	1.2	85
138	Activation of Matrix Metalloproteinase-2 by Overexpression of Manganese Superoxide Dismutase in Human Breast Cancer MCF-7 Cells Involves Reactive Oxygen Species. Journal of Biological Chemistry, 2002, 277, 20919-20926.	1.6	169
139	Lactoferrin in the Preterm Infants' Diet Attenuates Iron-Induced Oxidation Products. Pediatric Research, 2002, 52, 964-972.	1.1	80
140	Electron paramagnetic resonance for quantitation of nitric oxide in aqueous solutions. Methods in Enzymology, 2002, 359, 3-18.	0.4	12
141	Milk from Mothers of Both Premature and Full-Term Infants Provides Better Antioxidant Protection than Does Infant Formula. Pediatric Research, 2002, 51, 612-618.	1.1	155
142	Mitochondrial K_{ATP}channel openers activate the ERK kinase by an oxidant-dependent mechanism. American Journal of Physiology - Cell Physiology, 2002, 283, C273-C281.	2.1	99
143	v-Ha-ras mitogenic signaling through superoxide and derived reactive oxygen species. Molecular Carcinogenesis, 2002, 33, 206-218.	1.3	48
144	Role of Nitric Oxide and Membrane Phospholipid Polyunsaturation in Oxidative Cell Death. , 2002, 36, 97-121.		1

#	Article	IF	Citations
145	Oxidative Stress and Antioxidant Intervention. , 2002, , 849-869.		3
146	Nitric oxide synthase inhibitors decrease coronary sinus-free radical concentration and ameliorate myocardial stunning in an ischemia-reperfusion model. Journal of the American College of Cardiology, 2001, 38, 546-554.	1.2	55
147	v-Ha-Ras Overexpression Induces Superoxide Production and Alters Levels of Primary Antioxidant Enzymes. Antioxidants and Redox Signaling, 2001, 3, 697-709.	2.5	20
148	Mechanisms of circulatory and intestinal barrier dysfunction during whole body hyperthermia. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 280, H509-H521.	1.5	361
149	Redox environment of the cell as viewed through the redox state of the glutathione disulfide/glutathione couple. Free Radical Biology and Medicine, 2001, 30, 1191-1212.	1.3	3,895
150	Biological effects of menadione photochemistry: effects of menadione on biological systems may not involve classical oxidant production. Biochemical Journal, 2000, 350, 797.	1.7	6
151	Biological effects of menadione photochemistry: effects of menadione on biological systems may not involve classical oxidant production. Biochemical Journal, 2000, 350, 797-804.	1.7	14
152	Free radicals, oxidants, and antioxidants. Teratology, 2000, 62, 234-234.	1.8	25
153	A Spectrophotometric Method for the Direct Detection and Quantitation of Nitric Oxide, Nitrite, and Nitrate in Cell Culture Media. Analytical Biochemistry, 2000, 281, 223-229.	1.1	170
154	Oxygen free radicals mediate the induction of manganese superoxide dismutase gene expression by TNF-l±. Free Radical Biology and Medicine, 2000, 28, 1197-1205.	1.3	39
155	Acidic pH amplifies iron-mediated lipid peroxidation in cells. Free Radical Biology and Medicine, 2000, 28, 1175-1181.	1.3	108
156	Detailed methods for the quantification of nitric oxide in aqueous solutions using either an oxygen monitor or EPR. Free Radical Biology and Medicine, 2000, 29, 580-585.	1.3	61
157	EPR detection of lipid-derived free radicals from PUFA, LDL, and cell oxidations. Free Radical Biology and Medicine, 2000, 29, 568-579.	1.3	67
158	Myeloperoxidase Is Involved in H2O2-induced Apoptosis of HL-60 Human Leukemia Cells. Journal of Biological Chemistry, 2000, 275, 22461-22469.	1.6	82
159	Singlet Oxygen Toxicity Is Cell Line-dependent: A Study of Lipid Peroxidation in Nine Leukemia Cell Lines. Photochemistry and Photobiology, 1999, 70, 858-867.	1.3	38
160	Iron and dioxygen chemistry is an important route to initiation of biological free radical oxidations: an electron paramagnetic resonance spin trapping study. Free Radical Biology and Medicine, 1999, 26, 1447-1456.	1.3	230
161	Dihydrofluorescein diacetate is superior for detecting intracellular oxidants: comparison with 2â€²,7â€²-dichlorodihydrofluorescein diacetate, 5(and 6)-carboxy-2â€²,7â€²-dichlorodihydrofluorescein diacetate, and dihydrorhodamine 123. Free Radical Biology and Medicine, 1999, 27, 146-159.	1.3	673
162	Superoxide generation in v-Ha-ras-transduced human keratinocyte HaCaT cells. Molecular Carcinogenesis, 1999, 26, 180-188.	1.3	79

#	Article	IF	Citations
163	Nitric Oxide Inhibits Ironâ€“Induced Lipid Peroxidation in HL-60 Cells. Archives of Biochemistry and Biophysics, 1999, 370, 97-104.	1.4	59
164	Captopril Lowers Coronary Venous Free Radical Concentration After Direct Current Cardiac Shocks. Chest, 1999, 116, 484-487.	0.4	7
165	Increased flux of free radicals in cells subjected to hyperthermia: detection by electron paramagnetic resonance spin trapping. FEBS Letters, 1998, 431, 285-286.	1.3	181
166	Magnesium reduces free radicals in an in vivo coronary occlusion-reperfusion model. Journal of the American College of Cardiology, 1998, 32, 536-539.	1.2	111
167	Electron Paramagnetic Resonance Detection of Free Tyrosyl Radical Generated by Myeloperoxidase, Lactoperoxidase, and Horseradish Peroxidase. Journal of Biological Chemistry, 1998, 273, 32030-32037.	1.6	71
168	Transition Metal Chelators Reduce Directly Measured Myocardial Free Radical Production During Reperfusion. Journal of Cardiovascular Pharmacology, 1998, 32, 343-348.	0.8	29
169	Endogenous Superoxide Dismutase Levels Regulate Iron-Dependent Hydroxyl Radical Formation in Escherichia coli Exposed to Hydrogen Peroxide. Journal of Bacteriology, 1998, 180, 622-625.	1.0	74
170	Production of Lipidâ€Derived Free Radicals in L1210 Murine Leukemia Cells Is an Early Oxidative Event in the Photodynamic Action of Photofrin. Photochemistry and Photobiology, 1997, 65, 576-580.	1.3	27
171	Increased efficacy of in vitro PhotofrinÂ® photosensitization of human oral squamous cell carcinoma by iron and ascorbate. Journal of Photochemistry and Photobiology B: Biology, 1997, 40, 273-277.	1.7	40
172	Catalytic Metals, Ascorbate and Free Radicals: Combinations to Avoid. Radiation Research, 1996, 145, 532.	0.7	738
173	Prolonged coronary artery occlusionâ€”reperfusion sequences reduce myocardial free radical production: An electron paramagnetic resonance study. American Heart Journal, 1996, 132, 1147-1155.	1.2	4
174	Extracellular Iron(II) Can Protect Cells from Hydrogen Peroxide. Archives of Biochemistry and Biophysics, 1996, 330, 401-408.	1.4	26
175	Vitamin E Slows the Rate of Free Radical-Mediated Lipid Peroxidation in Cells. Archives of Biochemistry and Biophysics, 1996, 334, 261-267.	1.4	65
176	Direct current shocks to the heart generate free radicals: An electron paramagnetic resonance study. Journal of the American College of Cardiology, 1996, 28, 1598-1609.	1.2	69
177	EPR Detection of Free Radicals in UVâ€Irradiated Skin: Mouse Versus Human. Photochemistry and Photobiology, 1996, 64, 918-922.	1.3	123
178	In vivo spin trapping of nitric oxide by heme: Electron paramagnetic resonance detection ex vivo. Methods in Enzymology, 1996, 268, 188-192.	0.4	14
179	The Spin Trap Î± -(4-Pyridyl-1-oxide)-N-tert-butylnitrone Stimulates Peroxidase-mediated Oxidation of Deferoxamine. Journal of Biological Chemistry, 1995, 270, 29265-29269.	1.6	15
180	Surface charge, fluidity, and calcium uptake by rat intestinal brush-border vesicles. Biochimica Et Biophysica Acta - Biomembranes, 1995, 1234, 81-89.	1.4	6

#	Article	IF	Citations
181	Effect of Topically Applied Tocopherol on Ultraviolet Radiation-Mediated Free Radical Damage in Skin. Journal of Investigative Dermatology, 1995, 104, 484-488.	0.3	168
182	Applying electron paramagnetic resonance spectroscopy to the study of fouling in protein ultrafiltration. Journal of Membrane Science, 1994, 96, 289-297.	4.1	18
183	ULTRAVIOLET LIGHTâ€INDUCED FREE RADICAL FORMATION IN SKIN: AN ELECTRON PARAMAGNETIC RESONANCE STUDY. Photochemistry and Photobiology, 1994, 59, 1-4.	1.3	229
184	Free Radical-Mediated Lipid Peroxidation in Cells: Oxidizability Is a Function of Cell Lipid bis-Allylic Hydrogen Content. Biochemistry, 1994, 33, 4449-4453.	1.2	303
185	Interaction of vitamin C and vitamin E during free radical stress in plasma: An ESR study. Free Radical Biology and Medicine, 1993, 14, 649-653.	1.3	206
186	Ascorbate free radical as a marker of oxidative stress: An EPR study. Free Radical Biology and Medicine, 1993, 14, 49-55.	1.3	338
187	EPR Spin Trapping of Free Radicals Produced by Bleomycin and Ascorbate. Free Radical Research Communications, 1993, 19, s89-s93.	1.8	30
188	The Spin Trapping of Superoxide and Hydroxyl Free Radicals with DMPO (5,5-Dimethylpyrroline-N-oxide): More About Iron. Free Radical Research Communications, 1993, 19, s79-s87.	1.8	98
189	The Syringe Nitroxide Free Radical â€“ Part II. Free Radical Research Communications, 1993, 19, s227-s230.	1.8	6
190	Ascorbate both activates and inactivates bleomycin by free radical generation. Biochemistry, 1992, 31, 9784-9788.	1.2	31
191	Optimal EPR detection of weak nitroxide spin adduct and ascorbyl free radical signals. Journal of Proteomics, 1992, 24, 147-151.	2.4	53
192	Spin traps inhibit formation of hydrogen peroxide via the dismutation of superoxide: implications for spin trapping the hydroxyl free radical. Biochimica Et Biophysica Acta - General Subjects, 1991, 1075, 213-222.	1.1	19
193	Free radicals from plastic syringes. Free Radical Biology and Medicine, 1991, 11, 69-70.	1.3	23
194	THE BIPHOTONIC PHOTOIONIZATION OF CHLORPROMAZINE DURING CONVENTIONAL FLASH PHOTOLYSIS: SPIN TRAPPING RESULTS WITH 5,5-DIMETHYL-1-PYRROLINE-N-OXIDE. Photochemistry and Photobiology, 1991, 54, 167-173.	1.3	19
195	PRODUCTION OF HYDROXYL RADICAL DURING THE OXIDATION OF XANTHINE BY XANTHINE OXIDASE IS DEPENDENT ON THE PRESENCE OF ADVENTITIOUS IRON. , 1991, , 837-841.		0
196	The catalytic activity of iron in synovial fluid as monitored by the ascorbate free radical. Free Radical Biology and Medicine, 1990, 8, 55-56.	1.3	41
197	Ascorbate Oxidation: UV Absorbance of Ascorbate and ESR Spectroscopy of the Ascorbyl Radical as Assays for Iron. Free Radical Research Communications, 1990, 10, 5-9.	1.8	78
198	[8] Use of ascorbate as test for catalytic metals in simple buffers. Methods in Enzymology, 1990, 186, 125-127.	0.4	61

#	Article	IF	Citations
199	On the Reaction of Superoxide With DMPO/*OOH. Free Radical Research Communications, 1990, 10, 11-15.	1.8	60
200	[9] Spin-trapping methods for detecting superoxide and hydroxyl free radicals in vitro and in vivo. Methods in Enzymology, 1990, 186, 127-133.	0.4	167
201	Calcium in lipid peroxidation: Does calcium interact with superoxide?. Archives of Biochemistry and Biophysics, 1990, 278, 269-272.	1.4	11
202	THE STEPWISE BIPHOTONIC PHOTOIONIZATION OF CHLORPROMAZINE AS SEEN BY LASER FLASH PHOTOLYSIS. Photochemistry and Photobiology, 1989, 49, 249-256.	1.3	22
203	A spin-trapping database implemented on the IBM PC/AT. Journal of Magnetic Resonance, 1988, 79, 140-142.	0.5	43
204	In the absence of catalytic metals ascorbate does not autoxidize at pH 7: ascorbate as a test for catalytic metals. Journal of Proteomics, 1988, 16, 27-40.	2.4	463
205	The Kinetics of the Reaction of Ferritin with Superoxide. Free Radical Research Communications, 1987, 2, 369-372.	1.8	24
206	Spin Trapping: ESR parameters of spin adducts 1474 1528V. Free Radical Biology and Medicine, 1987, 3, 259-303.	1.3	1,559
207	Superoxide, hydrogen peroxide and singlet oxygen in hematoporphyrin derivative-cysteine, -NADH and -light systems. Biochimica Et Biophysica Acta - General Subjects, 1987, 923, 501-507.	1.1	54
208	Activation of oxygen by metal complexes and its relevance to autoxidative processes in living systems. Bioelectrochemistry, 1987, 18, 29-36.	1.0	34
209	ESR DETECTION OF ENDOGENOUS ASCORBATE FREE RADICAL IN MOUSE SKIN: ENHANCEMENT OF RADICAL PRODUCTION DURING UV IRRADIATION FOLLOWING TOPICAL APPLICATION OF CHLORPROMAZINE. Photochemistry and Photobiology, 1987, 46, 161-164.	1.3	38
210	NEAR-INFRARED DETECTION OF SINGLET MOLECULAR OXYGEN PRODUCED BY PHOTOSENSITIZATION WITH PROMAZINE and CHLORPROMAZINE. Photochemistry and Photobiology, 1987, 46, 295-300.	1.3	26
211	Ascorbate Autoxidation in the Presence of Iron and Copper Chelates. Free Radical Research Communications, 1986, 1, 349-353.	1.8	161
212	FREE RADICAL PRODUCTION BY CHLORPROMAZINE SULFOXIDE, AN ESR SPIN-TRAPPING AND FLASH PHOTOLYSIS STUDY. Photochemistry and Photobiology, 1986, 44, 5-10.	1.3	48
213	SPECTROSCOPIC STUDIES OF CUTANEOUS PHOTOSENSITIZING AGENTSâ€“VIII. A SPINâ€TRAPPING STUDY OF LIGHT INDUCED FREE RADICALS FROM CHLORPROMAZINE and PROMAZINE. Photochemistry and Photobiology, 1985, 42, 9-15.	1.3	91
214	Hydrogen peroxide and hydroxyl free radical production by hematoporphyrin derivative, ascorbate and light. Cancer Letters, 1985, 25, 297-304.	3.2	68
215	Thiyl free radical production with hematoporphyrin derivative, cysteine and light: a spin-trapping study. FEBS Letters, 1984, 177, 295-299.	1.3	32
216	The kinetics of the reaction of superoxide radical with Fe(III) complexes of EDTA, DETAPAC and HEDTA. FEBS Letters, 1983, 158, 143-146.	1.3	117

#	Article	IF	Citations
217	Cu-Zn Superoxide Dismutase. , 1982, , 199-207.		2
218	Cell division in normal and transformed cells: The possible role of superoxide and hydrogen peroxide. Medical Hypotheses, 1981, 7, 21-42.	0.8	129
219	The apparent production of superoxide and hydroxyl radicals by hematoporphyrin and light as seen by spin-trapping. FEBS Letters, 1980, 121, 161-164.	1.3	78
220	Cell differentation, aging and cancer: The possible roles of superoxide and superoxide dismutases. Medical Hypotheses, 1980, 6, 249-268.	0.8	125
221	The production of hydroxyl radical by bleomycin and iron (II). FEBS Letters, 1979, 97, 47-49.	1.3	160
222	Superoxide formation by protoporphyrin as seen by spin trapping. FEBS Letters, 1979, 98, 18-20.	1.3	48
223	The production of hydroxyl radical by tallysomycin and copper(II). FEBS Letters, 1979, 101, 333-335.	1.3	17
224	THE EFFECT OF IRON ON THE DISTRIBUTION OF SUPEROXIDE AND HYDROXYL RADICALS AS SEEN BY SPIN TRAPPING AND ON THE SUPEROXIDE DISMUTASE ASSAY. Photochemistry and Photobiology, 1978, 28, 693-695.	1.3	214
225	Considerations in the spin trapping of superoxide and hydroxyl radical in aqueous systems using 5,5-dimethyl-1-pyrroline-1-oxide. Biochemical and Biophysical Research Communications, 1978, 83, 69-74.	1.0	583