Detcho A Stoyanovsky

List of Publications by Year
in descending order

71 papers	3,691 citations	136950 32 h-index	128289 60 g-index
75 all docs	75 docs citations	75 times ranked	4227 citing authors

#	Article	IF	Citations
1	Cytochrome c/cardiolipin relations in mitochondria: a kiss of death. Free Radical Biology and Medicine, 2009, 46, 1439-1453.	2.9	382
2	Redox lipid reprogramming commands susceptibility of macrophages and microglia to ferroptotic death. Nature Chemical Biology, 2020, 16, 278-290.	8.0	299
3	Nitric oxide activates skeletal and cardiac ryanodine receptors. Cell Calcium, 1997, 21, 19-29.	2.4	252
4	Ubiquinone-Dependent Recycling of Vitamin E Radicals by Superoxide. Archives of Biochemistry and Biophysics, 1995, 323, 343-351.	3.0	159
5	Thioredoxin and Lipoic Acid Catalyze the Denitrosation of Low Molecular Weight and ProteinS-Nitrosothiols. Journal of the American Chemical Society, 2005, 127, 15815-15823.	13.7	151
6	Thioredoxin Catalyzes the Denitrosation of Low-Molecular Mass and Protein S-Nitrosothiols. Biochemistry, 2007, 46, 8472-8483.	2.5	110
7	Nitroxyl triggers Ca2+ release from skeletal and cardiac sarcoplasmic reticulum by oxidizing ryanodine receptors. Cell Calcium, 2005, 37, 87-96.	2.4	105
8	Mitochondrial targeting of electron scavenging antioxidants: Regulation of selective oxidation vs random chain reactionsâˆ†. Advanced Drug Delivery Reviews, 2009, 61, 1375-1385.	13.7	103
9	A mitochondria-targeted inhibitor of cytochrome c peroxidase mitigates radiation-induced death. Nature Communications, 2011, 2, 497.	12.8	91
10	Nitric Oxide Inhibits Peroxidase Activity of Cytochrome cÂ· Cardiolipin Complex and Blocks Cardiolipin Oxidation. Journal of Biological Chemistry, 2006, 281, 14554-14562.	3.4	88
11	Endogenous ascorbate regenerates vitamin E in the retina directly and in combination with exogenous dihydrolipoic acid. Current Eye Research, 1995, 14, 181-189.	1.5	87
12	Activation of stress-activated protein kinase in osteoarthritic cartilage: evidence for nitric oxide dependence. Osteoarthritis and Cartilage, 2001, 9, 294-299.	1.3	83
13	Mitochondriaâ€targeted disruptors and inhibitors of cytochrome c/cardiolipin peroxidase complexes: A new strategy in antiâ€apoptotic drug discovery. Molecular Nutrition and Food Research, 2009, 53, 104-114.	3.3	81
14	Copper chelation selectively kills colon cancer cells through redox cycling and generation of reactive oxygen species. BMC Cancer, 2014, 14, 527.	2.6	79
15	A Mitochondria-Targeted Triphenylphosphonium-Conjugated Nitroxide Functions as a Radioprotector/Mitigator. Radiation Research, 2009, 172, 706-717.	1.5	76
16	Nitrosative Stress Inhibits the Aminophospholipid Translocase Resulting in Phosphatidylserine Externalization and Macrophage Engulfment. Journal of Biological Chemistry, 2007, 282, 8498-8509.	3.4	74
17	Ascorbate Is the Primary Reductant of the Phenoxyl Radical of Etoposide in the Presence of Thiols both in Cell Homogenates and in Model Systems. Biochemistry, 1994, 33, 9651-9660.	2.5	70
18	Nitric oxide-induced inhibition of smooth muscle cell proliferation involves S-nitrosation and inactivation of RhoA. American Journal of Physiology - Cell Physiology, 2007, 292, C824-C831.	4.6	69

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19	Phenoxyl Radical-Induced Thiol-Dependent Generation of Reactive Oxygen Species: Implications for Benzene Toxicity. Archives of Biochemistry and Biophysics, 1995, 317, 315-323.	3.0	57
20	Nitric oxide regulates the 26S proteasome in vascular smooth muscle cells. Nitric Oxide - Biology and Chemistry, 2009, 20, 279-288.	2.7	54
21	Preparation and Properties of S-Nitroso-l-Cysteine Ethyl Ester, an Intracellular Nitrosating Agent. Journal of Medicinal Chemistry, 2001, 44, 2035-2038.	6.4	52
22	Metabolism of Carbon Tetrachloride to Trichloromethyl Radical:â€‰ An ESR and HPLC-EC Study. Chemical Research in Toxicology, 1999, 12, 730-736.	3.3	50
23	Detection and Characterization of the Electron Paramagnetic Resonance-Silent Glutathionyl-5,5-dimethyl-1-pyrrolineN-Oxide Adduct Derived from Redox Cycling of Phenoxyl Radicals in Model Systems and HL-60 Cells. Archives of Biochemistry and Biophysics, 1996, 330, 3-11.	3.0	48
24	Interaction of 1-Hydroxyethyl Radical With Glutathione, Ascorbic Acid and Î±-Tocopherol. Free Radical Biology and Medicine, 1998, 24, 132-138.	2.9	47
25	Reduction of Phenoxyl Radicals by Thioredoxin Results in Selective Oxidation of Its SH-Groups to Disulfides. An Antioxidant Function of Thioredoxin. Biochemistry, 1995, 34, 4765-4772.	2.5	46
26	ESR and HPLC-EC Analysis of the Interaction of Hydroxyl Radical with DMSO:Â Rapid Reduction and Quantification of POBN and PBN Nitroxides. Analytical Chemistry, 1999, 71, 715-721.	6.5	45
27	15LO1 dictates glutathione redox changes in asthmatic airway epithelium to worsen type 2 inflammation. Journal of Clinical Investigation, 2022, 132, .	8.2	45
28	Thiol Oxidation and Cytochrome P450-Dependent Metabolism of CCl4Triggers Ca2+Release from Liver Microsomesâ€. Biochemistry, 1996, 35, 15839-15845.	2.5	41
29	Ascorbate/Iron Activates Ca2+-Release Channels of Skeletal Sarcoplasmic Reticulum Vesicles Reconstituted in Lipid Bilayers. Archives of Biochemistry and Biophysics, 1994, 308, 214-221.	3.0	39
30	Antioxidant Paradoxes of Phenolic Compounds: Peroxyl Radical Scavenger and Lipid Antioxidant, Etoposide (VP-16), Inhibits Sarcoplasmic Reticulum Ca2+-ATPase via Thiol Oxidation by Its Phenoxyl Radical. Archives of Biochemistry and Biophysics, 1995, 321, 140-152.	3.0	39
31	Effects of pO2 on the activation of skeletal muscle ryanodine receptors by NO: A cautionary note. Cell Calcium, 2005, 38, 481-488.	2.4	33
32	Assessments of Thiyl Radicals in Biosystems: Difficulties and New Applications. Analytical Chemistry, 2011, 83, 6432-6438.	6.5	33
33	Design and Synthesis of a Mitochondria-Targeted Mimic of Glutathione Peroxidase, MitoEbselen-2, as a Radiation Mitigator. ACS Medicinal Chemistry Letters, 2014, 5, 1304-1307.	2.8	33
34	Mitochondrial permeability transition induced by 1-hydroxyethyl radical. Free Radical Biology and Medicine, 2000, 28, 273-280.	2.9	31
35	[33] Assay of ubiquinones and ubiquinols as antioxidants. Methods in Enzymology, 1994, 234, 343-354.	1.0	30
36	Decomposition of Sodium Trioxodinitrate (Angeli's Salt) To Hydroxyl Radical: An ESR Spin-Trapping Study. Journal of the American Chemical Society, 1999, 121, 5093-5094.	13.7	29

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37	Effects of pH on the Cytotoxicity of Sodium Trioxodinitrate (Angeli's Salt). Journal of Medicinal Chemistry, 2004, 47, 210-217.	6.4	27
38	Glutathione depletion renders rat hepatocytes sensitive to nitric oxide donor-mediated toxicity. Hepatology, 2005, 42, 598-607.	7.3	27
39	Mitochondriaâ€targeted (2â€hydroxyaminoâ€vinyl)â€triphenylâ€phosphonium releases NO and protects mouse embryonic cells against irradiationâ€induced apoptosis. FEBS Letters, 2009, 583, 1945-1950.	2.8	27
40	Mitochondria targeting of nonâ€peroxidizable triphenylphosphonium conjugated oleic acid protects mouse embryonic cells against apoptosis: Role of cardiolipin remodeling. FEBS Letters, 2012, 586, 235-241.	2.8	27
41	Oxidation of the Ketoxime Acetoxime to Nitric Oxide by Oxygen Radical-Generating Systems. Nitric Oxide - Biology and Chemistry, 2001, 5, 413-424.	2.7	26
42	A Manganeseâ€“Porphyrin Complex Decomposes H₂O₂, Inhibits Apoptosis, and Acts as a Radiation Mitigator in Vivo. ACS Medicinal Chemistry Letters, 2011, 2, 814-817.	2.8	26
43	Formation of Nitroxyl and Hydroxyl Radical in Solutions of Sodium Trioxodinitrate. Journal of Biological Chemistry, 2003, 278, 42761-42768.	3.4	25
44	Nitric oxide and thioredoxin type 1 modulate the activity of caspase 8 in HepG2 cells. Biochemical and Biophysical Research Communications, 2010, 391, 1127-1130.	2.1	25
45	A critical role for increased labile zinc in reducing sensitivity of cultured sheep pulmonary artery endothelial cells to LPS-induced apoptosis. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2012, 302, L1287-L1295.	2.9	25
46	Iron binding to alpha-tocopherol-containing phospholipid liposomes. Biochemical and Biophysical Research Communications, 1989, 160, 834-838.	2.1	24
47	Studies toward the analysis of S-nitrosoproteins. Organic and Biomolecular Chemistry, 2009, 7, 232-234.	2.8	24
48	ESR and HPLC-EC analysis of ethanol oxidation to 1-hydroxyethyl radical: rapid reduction and quantification of POBN and PBN nitroxides. Free Radical Biology and Medicine, 1998, 25, 536-545.	2.9	23
49	N-tert-butylmethanimine N-oxide is an efficient spin-trapping probe for EPR analysis of glutathione thiyl radical. Scientific Reports, 2016, 6, 38773.	3.3	22
50	Activation of NO donors in mitochondria: Peroxidase metabolism of (2â€hydroxyaminoâ€vinyl)â€triphenylâ€phosphonium by cytochrome c releases NO and protects cells against apoptosis. FEBS Letters, 2008, 582, 725-728.	2.8	21
51	Nitric oxide and dihydrolipoic acid modulate the activity of caspase 3 in HepG2 cells. FEBS Letters, 2009, 583, 3525-3530.	2.8	21
52	Protection of normal brain cells from Î³-irradiation-induced apoptosis by a mitochondria-targeted triphenyl-phosphonium-nitroxide: a possible utility in glioblastoma therapy. Journal of Neuro-Oncology, 2010, 100, 1-8.	2.9	20
53	An ESR and HPLC-EC Assay for the Detection of Alkyl Radicals. Chemical Research in Toxicology, 2001, 14, 1239-1246.	3.3	18
54	Improved spatial resolution of matrix-assisted laser desorption/ionization imaging of lipids in the brain by alkylated derivatives of 2,5-dihydroxybenzoic acid. Rapid Communications in Mass Spectrometry, 2014, 28, 403-412.	1.5	17

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55	Interaction of 1-Hydroxyethyl Radical with Antioxidant Enzymes. Archives of Biochemistry and Biophysics, 1999, 372, 355-359.	3.0	16
56	Targeting nitroxides to mitochondria: location, location, location, and â€¦ concentrationâ˜†Highlight Commentary on â€œMitochondria superoxide dismutase mimetic inhibits peroxide-induced oxidative damage and apoptosis: Role of mitochondrial superoxideâ€• Free Radical Biology and Medicine, 2007, 43, 348-350.	2.9	16
57	Structural Re-arrangement and Peroxidase Activation of Cytochrome c by Anionic Analogues of Vitamin E, Tocopherol Succinate and Tocopherol Phosphate. Journal of Biological Chemistry, 2014, 289, 32488-32498.	3.4	15
58	Lipid peroxidation activation and cytochrome P-450 decrease in rat liver endoplasmic reticulum under oxidative stress. Toxicology Letters, 1989, 47, 119-123.	0.8	14
59	Tyrosinase-Induced Phenoxyl Radicals of Etoposide (VP-16): Interaction with Reductants in Model Systems, K562 Leukemic Cell and Nuclear Homogenates. Free Radical Research Communications, 1993, 19, 371-386.	1.8	12
60	Redox-Cycling of Iron Ions Triggers Calcium Release From Liver Microsomes. Free Radical Biology and Medicine, 1998, 24, 745-753.	2.9	12
61	Unusual peroxidase activity of polynitroxylated pegylated hemoglobin: Elimination of H2O2 coupled with intramolecular oxidation of nitroxides. Biochemical and Biophysical Research Communications, 2010, 399, 139-143.	2.1	12
62	[63] Interactions of phenoxyl radical of antitumor drug, etoposide, with reductants in solution and in cell and nuclear homogenates: Electron spin resonance and high-performance liquid chromatography. Methods in Enzymology, 1994, 234, 631-642.	1.0	10
63	Metabolites of acetaminophen trigger Ca2+ release from liver microsomes. Toxicology Letters, 1999, 106, 23-29.	0.8	10
64	Comparative Metabolism of N-tert-Butyl-N-[1-(1-oxy-pyridin-4-yl)-ethyl]- and N-tert-Butyl-N-(1-phenyl-ethyl)-nitroxide by the Cytochrome P450 Monooxygenase System. Chemical Research in Toxicology, 2002, 15, 749-753.	3.3	8
65	Cytoprotective effects of albumin, nitrosated or reduced, in cultured rat pulmonary vascular cells. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2011, 300, L526-L533.	2.9	8
66	1-Oxo-2,2,6,6-tetramethylpiperidinium bromide converts Î±-H N,N-dialkylhydroxylamines to nitrones via a two-electron oxidation mechanism. Scientific Reports, 2018, 8, 15323.	3.3	8
67	Glutathione and thioredoxin type 1 cooperatively denitrosate HepG2 cells-derived cytosolic S-nitrosoproteins. Organic and Biomolecular Chemistry, 2013, 11, 4433.	2.8	7
68	Analysis of glutathione mediated S-(de)nitrosylation in complex biological matrices by immuno-spin trapping and identification of two novel substrates. Nitric Oxide - Biology and Chemistry, 2022, 118, 26-30.	2.7	3
69	Cellular non-heme iron modulates apoptosis and caspase 3 activity. , 2007, , 253-268.		1
70	Corrigendum to â€œActivation of NO donors in mitochondria: Peroxidase metabolism of (2-hydroxyamino-vinyl)-triphenyl-phosphonium by cytochromecreleases NO and protects cells against apoptosisâ€•[FEBS Lett. 582 (2008) 725-728]. FEBS Letters, 2008, 582, 1634-1634.	2.8	0
71	Immunoâ€Spin Trapping Method for the Analysis of Sâ€Nitrosylated Proteins. Current Protocols, 2021, 1, e262.	2.9	0