Ana Denicola

List of Publications by Year
in descending order

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88 papers	5,965 citations	66315 42 h-index	71651 76 g-index
90 all docs	90 docs citations	90 times ranked	6983 citing authors

#	Article	IF	Citations
1	Evaluating the antioxidant capacity of natural products: A review on chemical and cellular-based assays. Analytica Chimica Acta, 2013, 763, 1-10.	2.6	578
2	Peroxynitrite Reaction with Carbon Dioxide/Bicarbonate: Kinetics and Influence on Peroxynitrite-Mediated Oxidations. Archives of Biochemistry and Biophysics, 1996, 333, 49-58.	1.4	546
3	Factors Affecting Protein Thiol Reactivity and Specificity in Peroxide Reduction. Chemical Research in Toxicology, 2011, 24, 434-450.	1.7	244
4	Reactivity of hydrogen sulfide with peroxynitrite and other oxidants of biological interest. Free Radical Biology and Medicine, 2011, 50, 196-205.	1.3	199
5	The peroxidase and peroxynitrite reductase activity of human erythrocyte peroxiredoxin 2. Archives of Biochemistry and Biophysics, 2009, 484, 146-154.	1.4	175
6	Protein tryptophan accessibility studied by fluorescence quenching. Biochemistry and Molecular Biology Education, 2002, 30, 175-178.	0.5	174
7	Nitric Oxide Diffusion in Membranes Determined by Fluorescence Quenching. Archives of Biochemistry and Biophysics, 1996, 328, 208-212.	1.4	165
8	Novel Antitrypanosomal Agents Based on Palladium Nitrofurylthiosemicarbazone Complexes:Â DNA and Redox Metabolism as Potential Therapeutic Targetsâ€. Journal of Medicinal Chemistry, 2006, 49, 3322-3331.	2.9	157
9	1,2,5-OxadiazoleN-Oxide Derivatives and Related Compounds as Potential Antitrypanosomal Drugs:Â Structureâ"Activity Relationships. Journal of Medicinal Chemistry, 1999, 42, 1941-1950.	2.9	136
10	Direct Measurement of Nitric Oxide and Oxygen Partitioning into Liposomes and Low Density Lipoprotein. Journal of Biological Chemistry, 2005, 280, 8850-8854.	1.6	128
11	Solubility and Permeation of Hydrogen Sulfide in Lipid Membranes. PLoS ONE, 2012, 7, e34562.	1.1	127
12	Peroxynitrite and drug-dependent toxicity. Toxicology, 2005, 208, 273-288.	2.0	122
13	In vitro activity and mechanism of action against the protozoan parasite Trypanosoma cruzi of 5-nitrofuryl containing thiosemicarbazones. Bioorganic and Medicinal Chemistry, 2004, 12, 4885-4893.	1.4	118
14	Desferrioxamine inhibition of the hydroxyl radical-like reactivity of peroxynitrite: Role of the hydroxamic groups. Free Radical Biology and Medicine, 1995, 19, 11-19.	1.3	115
15	Reaction of Human Hemoglobin with Peroxynitrite. Journal of Biological Chemistry, 2003, 278, 44049-44057.	1.6	114
16	Detection and quantification of nitric oxideâ€"derived oxidants in biological systems. Journal of Biological Chemistry, 2019, 294, 14776-14802.	1.6	110
17	Acceleration of nitric oxide autoxidation and nitrosation by membranes. IUBMB Life, 2007, 59, 243-248.	1.5	101
18	Diffusion of Peroxynitrite in the Presence of Carbon Dioxide. Archives of Biochemistry and Biophysics, 1999, 368, 23-30.	1.4	100

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19	Platyhelminth Mitochondrial and Cytosolic Redox Homeostasis Is Controlled by a Single Thioredoxin Glutathione Reductase and Dependent on Selenium and Glutathione. Journal of Biological Chemistry, 2008, 283, 17898-17907.	1.6	97
20	Mode of action of Nifurtimox and N-oxide-containing heterocycles against Trypanosoma cruzi: Is oxidative stress involved?. Biochemical Pharmacology, 2010, 79, 1736-1745.	2.0	94
21	[37] Peroxynitrite reactions with carbon dioxide-bicarbonate. Methods in Enzymology, 1999, 301, 353-367.	0.4	92
22	Synthesis and antitrypanosomal evaluation of E-isomers of 5-nitro-2-furaldehyde and 5-nitrothiophene-2-carboxaldehyde semicarbazone derivatives. Structureâ€“activity relationships.. European Journal of Medicinal Chemistry, 2000, 35, 343-350.	2.6	92
23	Membrane â€œLensâ€•Effect:â€‰ Focusing the Formation of Reactive Nitrogen Oxides from the â€¢NO/O2 Reaction. Chemical Research in Toxicology, 2007, 20, 709-714.	1.7	88
24	Study of protein-ligand binding by fluorescence. Biochemistry and Molecular Biology Education, 2002, 30, 309-312.	0.5	87
25	Potential Modulation of Sirtuins by Oxidative Stress. Oxidative Medicine and Cellular Longevity, 2016, 2016, 1-12.	1.9	87
26	Peroxiredoxins as Preferential Targets in H2O2-Induced Signaling. Methods in Enzymology, 2013, 527, 41-63.	0.4	73
27	Diffusion of Nitric Oxide into Low Density Lipoprotein. Journal of Biological Chemistry, 2002, 277, 932-936.	1.6	72
28	Peroxynitrite-Mediated Decarboxylation of Pyruvate to Both Carbon Dioxide and Carbon Dioxide Radical Anion. Chemical Research in Toxicology, 1997, 10, 786-794.	1.7	71
29	Differential Kinetics of Two-Cysteine Peroxiredoxin Disulfide Formation Reveal a Novel Model for Peroxide Sensing. Biochemistry, 2018, 57, 3416-3424.	1.2	70
30	Reaction between Peroxynitrite and Hydrogen Peroxide: Formation of Oxygen and Slowing of Peroxynitrite Decomposition. Chemical Research in Toxicology, 1995, 8, 859-864.	1.7	69
31	Novel Antiprotozoal Products: Imidazole and BenzimidazoleN-Oxide Derivatives and Related Compounds. Archiv Der Pharmazie, 2004, 337, 259-270.	2.1	68
32	2H-Benzimidazole 1,3-Dioxide Derivatives:Â A New Family of Water-Soluble Anti-Trypanosomatid Agentsâ€. Journal of Medicinal Chemistry, 2006, 49, 3215-3224.	2.9	68
33	Catalysis of Peroxide Reduction by Fast Reacting Protein Thiols. Chemical Reviews, 2019, 119, 10829-10855.	23.0	68
34	The trypanothioneâ€“thiol system in Trypanosoma cruzi as a key antioxidant mechanism against peroxynitrite-mediated cytotoxicity. Archives of Biochemistry and Biophysics, 2003, 412, 55-64.	1.4	66
35	Synthesis and anti-trypanosomal activity of novel 5-nitro-2-furaldehyde and 5-nitrothiophene-2-carboxaldehyde semicarbazone derivatives. Il Farmaco, 1998, 53, 89-94.	0.9	65
36	The Biological Chemistry of Peroxynitrite. , 2000, , 57-82.		64

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37	Diffusion and Transport of Reactive Species Across Cell Membranes. Advances in Experimental Medicine and Biology, 2019, 1127, 3-19.	0.8	57
38	Design, synthesis and biological evaluation of new potent 5-nitrofuryl derivatives as anti-Trypanosoma cruzi agents. Studies of trypanothione binding site of trypanothione reductase as target for rational design. European Journal of Medicinal Chemistry, 2004, 39, 421-431.	2.6	56
39	Reactions of desferrioxamine with peroxynitrite-derived carbonate and nitrogen dioxide radicals. Free Radical Biology and Medicine, 2004, 36, 471-483.	1.3	53
40	Benzo[1,2-c]1,2,5-oxadiazole N-oxide derivatives as potential antitrypanosomal drugs. Part 3: Substituents-clustering methodology in the search for new active compounds. Bioorganic and Medicinal Chemistry, 2005, 13, 6324-6335.	1.4	49
41	Solubility and diffusion of oxygen in phospholipid membranes. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 2923-2930.	1.4	49
42	Formation of Lipid-Protein Adducts in Low-Density Lipoprotein by Fluxes of Peroxynitrite and Its Inhibition by Nitric Oxide. Archives of Biochemistry and Biophysics, 2001, 395, 225-232.	1.4	48
43	Nitration Transforms a Sensitive Peroxiredoxin 2 into a More Active and Robust Peroxidase. Journal of Biological Chemistry, 2014, 289, 15536-15543.	1.6	47
44	Antioxidant Activity of Uruguayan Propolis. In Vitro and Cellular Assays. Journal of Agricultural and Food Chemistry, 2011, 59, 6430-6437.	2.4	45
45	Red blood cells in the metabolism of nitric oxide-derived peroxynitrite. IUBMB Life, 2006, 58, 572-580.	1.5	44
46	Differential parameters between cytosolic 2â€Cys peroxiredoxins, PRDX1 and PRDX2. Protein Science, 2019, 28, 191-201.	3.1	43
47	Linked Thioredoxin-Glutathione Systems in Platyhelminth Parasites. Journal of Biological Chemistry, 2011, 286, 4959-4967.	1.6	38
48	Benzo[1, 2-c]1, 2, 5-oxadiazole N-Oxide Derivatives as Potential Antitrypanosomal Drugs. Structure-Activity Relationships. Part II. Archiv Der Pharmazie, 2002, 335, 15-21.	2.1	37
49	New potent 5-substituted benzofuroxans as inhibitors of Trypanosoma cruzi growth: Quantitative structureâ€“activity relationship studies. Bioorganic and Medicinal Chemistry, 2005, 13, 6336-6346.	1.4	36
50	Nitrogen dioxide solubility and permeation in lipid membranes. Archives of Biochemistry and Biophysics, 2011, 512, 190-196.	1.4	36
51	Nitrofurylsemicarbazone Rhenium andÂRuthenium Complexes asÂAnti-trypanosomal Agents. European Journal of Medicinal Chemistry, 2006, 41, 1231-1239.	2.6	35
52	Chapter 2 The Interaction of Reactive Oxygen and Nitrogen Species with Membranes. Current Topics in Membranes, 2008, 61, 23-42.	0.5	35
53	Distance-Dependent Diffusion-Controlled Reaction of ^{â€¢}NO and O₂^{â€¢â} at Chemical Equilibrium with ONOO^â. Journal of Physical Chemistry B, 2010, 114, 16584-16593.	1.2	33
54	EPR Detection of Glutathiyl and Hemoglobin-cysteinyl Radicals during the Interaction of Peroxynitrite with Human Erythrocytesâ€. Biochemistry, 2002, 41, 14323-14328.	1.2	32

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55	Diffusion of nitric oxide and oxygen in lipoproteins and membranes studied by pyrene fluorescence quenching. Free Radical Biology and Medicine, 2018, 128, 137-143.	1.3	31
56	Inhibition of Mycobacterium tuberculosis PknG by non-catalytic rubredoxin domain specific modification: reaction of an electrophilic nitro-fatty acid with the Feâ€“S center. Free Radical Biology and Medicine, 2013, 65, 150-161.	1.3	30
57	New substrates and interactors of the mycobacterial Serine/Threonine protein kinase PknG identified by a tailored interactomic approach. Journal of Proteomics, 2019, 192, 321-333.	1.2	30
58	Inactivation of cystathionine Î²-synthase with peroxynitrite. Archives of Biochemistry and Biophysics, 2009, 491, 96-105.	1.4	27
59	New potent 5-nitrofuryl derivatives asÂinhibitors ofÂTrypanosomaÂcruzi growth. 3D-QSAR (CoMFA) studies. European Journal of Medicinal Chemistry, 2006, 41, 457-466.	2.6	23
60	N -acetylcysteine improves the quality of red blood cells stored for transfusion. Archives of Biochemistry and Biophysics, 2017, 621, 31-37.	1.4	23
61	Tools to evaluate the conformation of protein products. Biotechnology Journal, 2011, 6, 731-741.	1.8	21
62	Structural changes upon peroxynitrite-mediated nitration of peroxiredoxin 2; nitrated Prx2 resembles its disulfide-oxidized form. Archives of Biochemistry and Biophysics, 2016, 590, 101-108.	1.4	20
63	Use of diaminofluoresceins to detect and measure nitric oxide in low level generating human immune cells. Journal of Immunological Methods, 2009, 342, 49-57.	0.6	19
64	Kinetic and stoichiometric constraints determine the pathway of H2O2 consumption by red blood cells. Free Radical Biology and Medicine, 2018, 121, 231-239.	1.3	19
65	Nitro-fatty acids as activators of hSIRT6 deacetylase activity. Journal of Biological Chemistry, 2020, 295, 18355-18366.	1.6	15
66	Oxidative Modification of Proteins: From Damage to Catalysis, Signaling, and Beyond. Antioxidants and Redox Signaling, 2021, 35, 1016-1080.	2.5	13
67	Unraveling the effects of peroxiredoxin 2 nitration; role of C-terminal tyrosine 193. Free Radical Biology and Medicine, 2019, 141, 492-501.	1.3	12
68	The permeability of human red blood cell membranes to hydrogen peroxide is independent of aquaporins. Journal of Biological Chemistry, 2022, 298, 101503.	1.6	12
69	Antioxidant and diffusion properties of nitric oxide in low-density lipoprotein. Methods in Enzymology, 2002, 359, 200-209.	0.4	11
70	Coupling suitable prey field to in situ fish larval condition and abundance in a subtropical estuary. Estuarine, Coastal and Shelf Science, 2017, 187, 31-42.	0.9	11
71	Extramitochondrial localization of NADH-fumarate reductase in trypanosomatids. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2002, 133, 23-27.	0.7	10
72	Multiple Experiments and a Single Measurement: Introducing Microplate Readers in the Laboratory. Journal of Chemical Education, 2010, 87, 1011-1014.	1.1	9

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73	Sevoflurane anesthesia deteriorates pulmonary surfactant promoting alveolar collapse in male Sprague‚Äì“Dawley rats. Pulmonary Pharmacology and Therapeutics, 2014, 28, 122-129.	1.1	9
74	Long-chainn-3 polyunsaturated fatty acid from fish oil modulates aortic nitric oxide and tocopherol status in the rat. British Journal of Nutrition, 2008, 100, 767-775.	1.2	7
75	Long-term exposure to salinity variations induces protein carbonylation in the copepod Acartia tonsa. Journal of Experimental Marine Biology and Ecology, 2020, 526, 151337.	0.7	7
76	Fluorescence Lifetime Phasor Analysis of the Decamerâ€“Dimer Equilibrium of Human Peroxiredoxin 1. International Journal of Molecular Sciences, 2022, 23, 5260.	1.8	5
77	Purification of a recombinant glutathione transferase from the causative agent of hydatidosis, Echinococcus granulosus. Biochemistry and Molecular Biology Education, 2016, 44, 28-37.	0.5	4
78	Nitric Oxide Redox Biochemistry in Lipid Environments. , 2010, , 27-60.		3
79	Halogenated Anesthetics Impairs Biophysical Properties of a Membrane Model of Pulmonary Surfactant. Biophysical Journal, 2011, 100, 505a-506a.	0.2	3
80	ÂŸKinetics of the Reaction of Pyrogallol Red, a Polyphenolic Dye, with Nitrous Acid: Role of ÂŸâ€¢NO and â€¢NO2. Molecules, 2015, 20, 10582-10593.	1.7	3
81	Foreword to the Free Radical Biology and Medicine Special Issue on Â¨Current fluorescence and chemiluminescence approaches in free radical and redox biologyÂ¨. Free Radical Biology and Medicine, 2018, 128, 1-2.	1.3	3
82	Acceleration of the autoxidation of nitric oxide by proteins. Nitric Oxide - Biology and Chemistry, 2019, 85, 28-34.	1.2	3
83	Quantification of carbonate radical formation by the bicarbonate-dependent peroxidase activity of superoxide dismutase 1 using pyrogallol red bleaching. Redox Biology, 2019, 24, 101207.	3.9	3
84	Commentary on â€œUsing resonance synchronous spectroscopy to characterize the reactivity and electrophilicity of biologically relevant sulfane sulfurâ€• Evidence that the methodology is inadequate because it only measures unspecific light scattering. Redox Biology, 2019, 26, 101281.	3.9	2
85	Thiols in blood. , 2022, , 585-615.		2
86	Incoming new IUPAB councilor 2021: Ana Denicola. Biophysical Reviews, 2021, 13, 827-830.	1.5	1
87	Biochemistry and detection of S-nitrosothiols. , 2022, , 153-176.		1
88	Design, Synthesis and Biological Evaluation of New Potent 5-Nitrofuryl Derivatives as anti-Trypanosoma cruzi Agents. Studies of Trypanothione Binding Site of Trypanothione Reductase as Target for Rational Design.. ChemInform, 2004, 35, no.	0.1	0