Paolo Sarti

List of Publications by Year
in descending order

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89 papers	3,857 citations	101543 36 h-index	128289 60 g-index
91 all docs	91 docs citations	91 times ranked	3511 citing authors

#	Article	IF	Citations
1	Nonylphenol and Octylphenol Differently Affect Cell Redox Balance by Modulating the Nitric Oxide Signaling. Oxidative Medicine and Cellular Longevity, 2018, 2018, 1-13.	4.0	10
2	The intricate interplay among the gasotransmitters NO, CO, H2S and mitochondrial complex IV. Pharmacy & Pharmacology International Journal, 2018, 6, .	0.2	0
3	Cardiovascular Mitochondrial Dysfunction Induced by Cocaine: Biomarkers and Possible Beneficial Effects of Modulators of Oxidative Stress. Oxidative Medicine and Cellular Longevity, 2017, 2017, 1-15.	4.0	20
4	VLDL Induced Modulation of Nitric Oxide Signalling and Cell Redox Homeostasis in HUVEC. Oxidative Medicine and Cellular Longevity, 2017, 2017, 1-15.	4.0	8
5	Evidence for Detrimental Cross Interactions between Reactive Oxygen and Nitrogen Species in Leberâ€™s Hereditary Optic Neuropathy Cells. Oxidative Medicine and Cellular Longevity, 2016, 2016, 1-9.	4.0	7
6	Bioenergetic relevance of hydrogen sulfide and the interplay between gasotransmitters at human cystathionine Î²-synthase. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1127-1138.	1.0	42
7	The Terminal Oxidase Cytochrome bd Promotes Sulfide-resistant Bacterial Respiration and Growth. Scientific Reports, 2016, 6, 23788.	3.3	118
8	Antioxidant defence systems in the protozoan pathogen Giardia intestinalis. Molecular and Biochemical Parasitology, 2016, 206, 56-66.	1.1	35
9	S-Adenosyl-l-methionine Modulates CO and NOâ€¢ Binding to the Human H2S-generating Enzyme Cystathionine Î²-Synthase. Journal of Biological Chemistry, 2016, 291, 572-581.	3.4	36
10	Superoxide reductase fromGiardia intestinalis: structural characterization of the first SOR from a eukaryotic organism shows an iron centre that is highly sensitive to photoreduction. Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 2236-2247.	2.5	6
11	Antigiardial activity of novel triazolyl-quinolone-based chalcone derivatives: when oxygen makes the difference. Frontiers in Microbiology, 2015, 6, 256.	3.5	11
12	Cytochrome bd from Escherichia coli catalyzes peroxynitrite decomposition. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 182-188.	1.0	39
13	O ₂ -Dependent Efficacy of Novel Piperidine- and Piperazine-Based Chalcones against the Human Parasite Giardia intestinalis. Antimicrobial Agents and Chemotherapy, 2014, 58, 543-549.	3.2	9
14	Functional Characterization of Peroxiredoxins from the Human Protozoan Parasite Giardia intestinalis. PLoS Neglected Tropical Diseases, 2014, 8, e2631.	3.0	33
15	NOâ€¢ Binds Human Cystathionine Î²-Synthase Quickly and Tightly. Journal of Biological Chemistry, 2014, 289, 8579-8587.	3.4	58
16	Cytochrome bd oxidase and bacterial tolerance to oxidative and nitrosative stress. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 1178-1187.	1.0	180
17	Flavodiiron Oxygen Reductase from Entamoeba histolytica. Journal of Biological Chemistry, 2014, 289, 28260-28270.	3.4	22
18	Characterization of Mitochondrial Dysfunction in the 7PA2 Cell Model of Alzheimer's Disease. Journal of Alzheimer's Disease, 2013, 37, 747-758.	2.6	30

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19	Cytochrome bd oxidase from Escherichia coli displays high catalase activity: An additional defense against oxidative stress. FEBS Letters, 2013, 587, 2214-2218.	2.8	97
20	Cytochrome bd Oxidase and Hydrogen Peroxide Resistance in Mycobacterium tuberculosis. MBio, 2013, 4, e01006-13.	4.1	33
21	New Evidence for Cross Talk between Melatonin and Mitochondria Mediated by a Circadian-Compatible Interaction with Nitric Oxide. International Journal of Molecular Sciences, 2013, 14, 11259-11276.	4.1	32
22	Functional Dissection of the Multi-Domain Di-Heme Cytochrome c550 from Thermus thermophilus. PLoS ONE, 2013, 8, e55129.	2.5	10
23	The Chemical Interplay between Nitric Oxide and Mitochondrial CytochromecOxidase: Reactions, Effectors and Pathophysiology. International Journal of Cell Biology, 2012, 2012, 1-11.	2.5	48
24	Mitochondria and Nitric Oxide: Chemistry and Pathophysiology. Advances in Experimental Medicine and Biology, 2012, 942, 75-92.	1.6	40
25	Cytochrome bd oxidase and nitric oxide: From reaction mechanisms to bacterial physiology. FEBS Letters, 2012, 586, 622-629.	2.8	76
26	Cytochrome c oxidase and nitric oxide in action: Molecular mechanisms and pathophysiological implications. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 610-619.	1.0	113
27	Nanomolar melatonin enhances nNOS expression and controls HaCaTâ€¢cells bioenergetics. IUBMB Life, 2012, 64, 251-258.	3.4	28
28	The superoxide reductase from the early diverging eukaryote Giardia intestinalis. Free Radical Biology and Medicine, 2011, 51, 1567-1574.	2.9	26
29	Catalytic intermediates of cytochrome bd terminal oxidase at steady-state: Ferryl and oxy-ferrous species dominate. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 503-509.	1.0	36
30	Giardia intestinalis escapes oxidative stress by colonizing the small intestine: A molecular hypothesis. IUBMB Life, 2011, 63, 21-25.	3.4	25
31	A Sulfite Respiration Pathway from Thermus thermophilus and the Key Role of Newly Identified Cytochrome c ₅₅₀. Journal of Bacteriology, 2011, 193, 3988-3997.	2.2	18
32	Flavohemoglobin and nitric oxide detoxification in the human protozoan parasite Giardia intestinalis. Biochemical and Biophysical Research Communications, 2010, 399, 654-658.	2.1	43
33	Control of Respiration by Cytochrome c Oxidase in Intact Cells. Journal of Biological Chemistry, 2009, 284, 32331-32335.	3.4	68
34	Reaction of nitric oxide with the oxidized di-heme and hemeâ€“copper oxygen-reducing centers of terminal oxidases: Different reaction pathways and end-products. Journal of Inorganic Biochemistry, 2009, 103, 1185-1187.	3.5	40
35	Redox properties of the oxygen-detoxifying flavodiiron protein from the human parasite Giardia intestinalis. Archives of Biochemistry and Biophysics, 2009, 488, 9-13.	3.0	40
36	Control of cell respiration by nitric oxide in Ataxia Telangiectasia lymphoblastoid cells. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 66-73.	1.0	10

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37	Kinetic Characterization of the Escherichia coli Nitric Oxide Reductase Flavorubredoxin. Methods in Enzymology, 2008, 437, 47-62.	1.0	10
38	The O2-scavenging Flavodiiron Protein in the Human Parasite Giardia intestinalis. Journal of Biological Chemistry, 2008, 283, 4061-4068.	3.4	107
39	Redox control of fast ligand dissociation from Escherichia coli cytochrome bd. Biochemical and Biophysical Research Communications, 2007, 355, 97-102.	2.1	79
40	Kinetics of electron transfer from NADH to the Escherichia coli nitric oxide reductase flavorubredoxin. FEBS Journal, 2007, 274, 677-686.	4.7	15
41	Twentyâ€five years of cytochrome oxidase research in Rome with Maurizio Brunori. IUBMB Life, 2007, 59, 570-577.	3.4	6
42	Nitric oxide reacts with the ferryl-oxo catalytic intermediate of the CuB-lacking cytochromebdterminal oxidase. FEBS Letters, 2006, 580, 4823-4826.	2.8	46
43	Nitric oxide and the respiratory enzyme. Biochimica Et Biophysica Acta - Bioenergetics, 2006, 1757, 1144-1154.	1.0	66
44	Probing the access of protons to the K pathway in the Paracoccus denitrificans cytochrome c oxidase. FEBS Journal, 2005, 272, 404-412.	4.7	23
45	Cytochrome oxidase, ligands and electrons. Journal of Inorganic Biochemistry, 2005, 99, 324-336.	3.5	119
46	Nitric oxide, cytochromecoxidase and myoglobin: Competition and reaction pathways. FEBS Letters, 2005, 579, 2528-2532.	2.8	34
47	Nitric Oxide and Mitochondrial Complex IV. IUBMB Life, 2004, 55, 605-611.	3.4	43
48	Proton Uptake upon Anaerobic Reduction of theParacoccus denitrificansCytochromecOxidase:Â A Kinetic Investigation of the K354M and D124N Mutantsâ€. Biochemistry, 2004, 43, 2957-2963.	2.5	20
49	Interaction of the bacterial terminal oxidase cytochromebdwith nitric oxide. FEBS Letters, 2004, 576, 201-204.	2.8	79
50	Control of cytochrome c oxidase activity by nitric oxide. Biochimica Et Biophysica Acta - Bioenergetics, 2004, 1655, 365-371.	1.0	91
51	Nitric oxide and cytochrome oxidase: reaction mechanisms from the enzyme to the cell. Free Radical Biology and Medicine, 2003, 34, 509-520.	2.9	87
52	Nitric Oxide Reacts with the Single-electron Reduced Active Site of Cytochrome c Oxidase. Journal of Biological Chemistry, 2002, 277, 22402-22406.	3.4	31
53	Redox-Linked Protonation of Cytochrome c Oxidase:â€‰ The Effect of Chloride Bound to CuB. Biochemistry, 2002, 41, 13046-13052.	2.5	26
54	Cytochrome bo3 from Escherichia coli: the binding and turnover of nitric oxide. Biochemical and Biophysical Research Communications, 2002, 296, 1272-1278.	2.1	50

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55	Mitochondria: regulators of signal transduction by reactive oxygen and nitrogen species 1,2 1Guest Editor: Harry Ischiropoulos 2This article is part of a series of reviews on â€œReactive Nitrogen Species, Tyrosine Nitration and Cell Signaling.â€•The full list of papers may be found on the homepage of the journal.. Free Radical Biology and Medicine, 2002, 33, 755-764.	2.9	272
56	The interplay between heme iron and protein sulfhydryls in the reaction of dimeric Scapharca inaequivalvis hemoglobin with nitric oxide. Biophysical Chemistry, 2002, 98, 209-216.	2.8	22
57	The cytochrome cbb₃ from Pseudomonas stutzeri displays nitric oxide reductase activity. FEBS Journal, 2001, 268, 6486-6491.	0.2	110
58	Nitric Oxide and Cytochrome c Oxidase: Mechanisms of Inhibition and NO Degradation. Biochemical and Biophysical Research Communications, 2000, 274, 183-187.	2.1	155
59	Reaction of Nitric Oxide with the Turnover Intermediates of CytochromecOxidase:Â Reaction Pathway and Functional Effectsâ€. Biochemistry, 2000, 39, 15446-15453.	2.5	74
60	Modulation of mitochondrial respiration by nitric oxide: investigation by single cell fluorescence microscopy. FASEB Journal, 1999, 13, 191-197.	0.5	71
61	Mechanism of S-Nitrosothiol Formation and Degradation Mediated by Copper Ions. Journal of Biological Chemistry, 1999, 274, 28128-28133.	3.4	132
62	Transient Spectroscopy of the Reaction between Cytochrome c Oxidase and Nitric Oxide. , 1999, , 219-232.		0
63	Kinetic control of internal electron transfer in cytochrome c oxidase. BioFactors, 1998, 8, 191-193.	5.4	2
64	Cytochrome c Oxidase Does Not Catalyze the Anaerobic Reduction of NO. Biochemical and Biophysical Research Communications, 1998, 245, 459-465.	2.1	65
65	Chloride Bound to Oxidized Cytochrome c Oxidase Controls the Reaction with Nitric Oxide. Journal of Biological Chemistry, 1998, 273, 32475-32478.	3.4	43
66	Intermediates in the catalytic cycle of lentil (Lens esculenta) seedling copper-containing amine oxidase1. Biochemical Journal, 1998, 332, 431-437.	3.7	41
67	Internal Electron Transfer in Cu-Heme Oxidases. Journal of Biological Chemistry, 1997, 272, 19870-19874.	3.4	26
68	Benthic mucilagenous aggregates: Biochemical characterization and ligand binding properties. Marine Environmental Research, 1996, 41, 1-14.	2.5	12
69	Probing the high-affinity site of beef heart cytochrome c oxidase by cross-linking. Biochemical Journal, 1996, 315, 909-916.	3.7	10
70	On the Mechanism of Inhibition of Cytochrome c Oxidase by Nitric Oxide. Journal of Biological Chemistry, 1996, 271, 33404-33408.	3.4	129
71	Structure and function of a molecular machine: cytochrome c oxidase. Biophysical Chemistry, 1995, 54, 1-33.	2.8	101
72	Selective oxidation of methionyl residues in the human recombinant secretory leukocyte proteinase inhibitor. Effect on the inhibitor binding properties. Journal of Molecular Recognition, 1994, 7, 31-37.	2.1	4

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73	The oxidation of cytochrome-c oxidase vesicles by hemoglobin. BBA - Proteins and Proteomics, 1994, 1208, 38-44.	2.1	17
74	Chemical modification of ligands for cell receptors to introduce foreign compounds into the cells. Diseases of the Colon and Rectum, 1994, 37, S127-S132.	1.3	6
75	Lonidamine-mediated respiratory changes in rat heart myocytes: A re-examination of the functional response of mitochondrial cytochrome c oxidase. Biochemical Pharmacology, 1994, 47, 2221-2225.	4.4	5
76	Selective oxidation of Met-192 in bovine Î±-chymotrypsin. Effect on catalytic and inhibitor binding properties. BBA - Proteins and Proteomics, 1993, 1161, 201-208.	2.1	6
77	Liposomal and Mitochondrial Cytochrome Oxidase Display Similar Bioenergetic Properties. Journal of Liposome Research, 1993, 3, 589-598.	3.3	0
78	Spectral analysis of cytochromes in rat heart myocytes: Transient and steady-state photodiode array spectrophotometry measurements. Archives of Biochemistry and Biophysics, 1992, 299, 8-14.	3.0	11
79	The oxygen reactive species of cytochrome-c-oxidase: An alternate view. FEBS Letters, 1992, 314, 191-194.	2.8	16
80	The kinetics of electron entry in cytochromec oxidase. Biology of Metals, 1990, 3, 118-121.	1.1	2
81	Reconstitution of cytochrome c oxidase into phospholipid vesicles: Effect of detergents. Bioelectrochemistry, 1990, 23, 265-270.	1.0	1
82	Reconstitution of cytochrome c oxidase into phospholipid vesicles: effect of detergents. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1990, 298, 265-270.	0.1	0
83	Is the Internal Electron Transfer the Rate-Limiting Step in the Catalytic Cycle of Cytochrome c Oxidase?. Annals of the New York Academy of Sciences, 1988, 550, 161-166.	3.8	14
84	Modulation of Cytochrome c Oxidase Activity by an Electrical Transmembrane Gradient. Annals of the New York Academy of Sciences, 1988, 550, 269-276.	3.8	8
85	Cytochrome-c oxidase. Subunit structure and proton pumping. FEBS Journal, 1987, 169, 1-8.	0.2	101
86	Molecular control of cytochrome oxidase activity. Bioelectrochemistry, 1986, 16, 159-165.	1.0	4
87	A new method for the determination of the buffer power of artificial phospholipid vesicles by stopped-flow spectroscopy. Biochimica Et Biophysica Acta - Bioenergetics, 1985, 809, 39-43.	1.0	5
88	EFfect of bepridil on the activity of cytochrome c oxidase in solution and in proteoliposomes. Biochemical Pharmacology, 1984, 33, 109-113.	4.4	1
89	Interconversion between states in cytochrome oxidase: Interpretation of kinetic data on mixed-valence oxidase. FEBS Letters, 1983, 152, 75-78.	2.8	12