

Giancarlo Solaini

List of Publications by Year in descending order

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79
papers

4,363
citations

136950

32
h-index

106344

65
g-index

80
all docs

80
docs citations

80
times ranked

6909
citing authors

#	ARTICLE	IF	CITATIONS
1	Hypoxia and mitochondrial oxidative metabolism. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 1171-1177.	1.0	474
2	Rhodamine 123 as a probe of mitochondrial membrane potential: evaluation of proton flux through FO during ATP synthesis. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2003, 1606, 137-146.	1.0	444
3	Cytochrome c oxidase and mitochondrial F1FO-ATPase (ATP synthase) activities in platelets and brain from patients with Alzheimer's disease. <i>Neurobiology of Aging</i> , 2002, 23, 371-376.	3.1	333
4	Biochemical dysfunction in heart mitochondria exposed to ischaemia and reperfusion. <i>Biochemical Journal</i> , 2005, 390, 377-394.	3.7	203
5	Gradual Alteration of Mitochondrial Structure and Function by β -Amyloids: Importance of Membrane Viscosity Changes, Energy Deprivation, Reactive Oxygen Species Production, and Cytochrome c Release. <i>Journal of Bioenergetics and Biomembranes</i> , 2005, 37, 207-225.	2.3	202
6	Oxidative phosphorylation in cancer cells. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2011, 1807, 534-542.	1.0	183
7	Severe Impairment of Complex β -Driven Adenosine Triphosphate Synthesis in Leber Hereditary Optic Neuropathy Cybrids. <i>Archives of Neurology</i> , 2005, 62, 730.	4.5	144
8	Mitochondrial Complex I decrease is responsible for bioenergetic dysfunction in K-ras transformed cells. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 314-323.	1.0	119
9	Mitochondrial respiratory chain super-complex β in physiology and pathology. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 633-640.	1.0	107
10	Evaluating Mitochondrial Membrane Potential in Cells. <i>Bioscience Reports</i> , 2007, 27, 11-21.	2.4	103
11	Bioenergetics shapes cellular death pathways in Leber's hereditary optic neuropathy: a model of mitochondrial neurodegeneration. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2004, 1658, 172-179.	1.0	102
12	Catalytic Activities of Mitochondrial ATP Synthase in Patients with Mitochondrial DNA T8993G Mutation in the ATPase 6 Gene Encoding Subunit a. <i>Journal of Biological Chemistry</i> , 2000, 275, 4177-4182.	3.4	100
13	Inefficient coupling between proton transport and ATP synthesis may be the pathogenic mechanism for NARP and Leigh syndrome resulting from the T8993G mutation in mtDNA. <i>Biochemical Journal</i> , 2006, 395, 493-500.	3.7	97
14	New Insights Into Structure and Function of Mitochondria and Their Role in Aging and Disease. <i>Antioxidants and Redox Signaling</i> , 2006, 8, 417-437.	5.4	91
15	A novel deletion in the GTPase domain of OPA1 causes defects in mitochondrial morphology and distribution, but not in function. <i>Human Molecular Genetics</i> , 2008, 17, 3291-3302.	2.9	91
16	Biochemical phenotypes associated with the mitochondrial ATP6 gene mutations at nt8993. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2007, 1767, 913-919.	1.0	90
17	Bioenergetics of mitochondrial diseases associated with mtDNA mutations. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2004, 1658, 89-94.	1.0	89
18	Severe ultrastructural mitochondrial changes in lymphoblasts homozygous for Huntington disease mutation. <i>Mechanisms of Ageing and Development</i> , 2006, 127, 217-220.	4.6	85

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19	Biochemical analysis of respiratory function in cybrid cell lines harbouring mitochondrial DNA mutations. <i>Biochemical Journal</i> , 2004, 384, 287-293.	3.7	82
20	Decreased platelet cytochrome c oxidase activity is accompanied by increased blood lactate concentration during exercise in patients with Alzheimer disease. <i>Experimental Neurology</i> , 2003, 182, 421-426.	4.1	70
21	Mitochondria hyperfusion and elevated autophagic activity are key mechanisms for cellular bioenergetic preservation in centenarians. <i>Aging</i> , 2014, 6, 296-310.	3.1	70
22	Biochemical-Clinical Correlation in Patients With Different Loads of the Mitochondrial DNA T8993G Mutation. <i>Archives of Neurology</i> , 2002, 59, 264.	4.5	69
23	Hypoxia inducible factor-1 alpha as a therapeutic target in multiple myeloma. <i>Oncotarget</i> , 2014, 5, 1779-1792.	1.8	53
24	Desmin Phosphorylation Triggers Preamyloid Oligomers Formation and Myocyte Dysfunction in Acquired Heart Failure. <i>Circulation Research</i> , 2018, 122, e75-e83.	4.5	46
25	MicroRNAs in Oncogenesis and Tumor Suppression. <i>International Review of Cell and Molecular Biology</i> , 2017, 333, 229-268.	3.2	44
26	Increased state 4 mitochondrial respiration and swelling in early post-ischemic reperfusion of rat heart. <i>FEBS Letters</i> , 2004, 563, 161-164.	2.8	42
27	Oxidative stress in the denervated muscle. <i>Free Radical Research</i> , 2010, 44, 563-576.	3.3	41
28	Myocardial ischemic preconditioning and mitochondrial F1FO-ATPase activity. <i>Molecular and Cellular Biochemistry</i> , 2000, 215, 31-38.	3.1	38
29	Relevance of divalent cations to ATP-driven proton pumping in beef heart mitochondrial FOF1-ATPase. <i>Journal of Bioenergetics and Biomembranes</i> , 1998, 30, 533-541.	2.3	37
30	Human NARP Mitochondrial Mutation Metabolism Corrected With $\hat{\pm}$ -Ketoglutarate/Aspartate. <i>Archives of Neurology</i> , 2009, 66, 951-7.	4.5	37
31	The Inhibitor Protein (IF1) of the F1FO-ATPase Modulates Human Osteosarcoma Cell Bioenergetics. <i>Journal of Biological Chemistry</i> , 2015, 290, 6338-6348.	3.4	37
32	Protective effect of endogenous coenzyme Q on both lipid peroxidation and respiratory chain inactivation induced by an adriamycin-iron complex. <i>Biochemical and Biophysical Research Communications</i> , 1987, 147, 572-580.	2.1	36
33	Hypoxia and IF1 Expression Promote ROS Decrease in Cancer Cells. <i>Cells</i> , 2018, 7, 64.	4.1	36
34	Lack of major changes in ATPase activity in mitochondria from liver, heart, and skeletal muscle of rats upon ageing. <i>Mechanisms of Ageing and Development</i> , 1995, 84, 139-150.	4.6	30
35	Reversal of the glycolytic phenotype of primary effusion lymphoma cells by combined targeting of cellular metabolism and PI3K/Akt/ mTOR signaling. <i>Oncotarget</i> , 2016, 7, 5521-5537.	1.8	30
36	Hypoxia decreases ROS level in human fibroblasts. <i>International Journal of Biochemistry and Cell Biology</i> , 2017, 88, 133-144.	2.8	25

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37	Temperature-induced states of isolated F1-ATPase affect catalysis, enzyme conformation and high-affinity nucleotide binding sites. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1989, 976, 77-84.	1.0	22
38	The study of the pathogenic mechanism of mitochondrial diseases provides information on basic bioenergetics. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008, 1777, 941-945.	1.0	22
39	The kinetic and structural changes of the mitochondrial F1-ATPase with temperature. <i>Biochemical and Biophysical Research Communications</i> , 1986, 136, 891-898.	2.1	21
40	Involvement of stat3 in mouse brain development and sexual dimorphism: A proteomics approach. <i>Brain Research</i> , 2010, 1362, 1-12.	2.2	21
41	Glucose plays a main role in human fibroblasts adaptation to hypoxia. <i>International Journal of Biochemistry and Cell Biology</i> , 2013, 45, 1356-1365.	2.8	21
42	Mitochondrial quality control: Cell-type-dependent responses to pathological mutant mitochondrial DNA. <i>Autophagy</i> , 2016, 12, 2098-2112.	9.1	21
43	Lipid dynamics and lipid-protein interaction in isolated beef-heart mitochondrial ATPase complex. <i>FEBS Letters</i> , 1981, 132, 127-128.	2.8	20
44	Temperature dependence of mitochondrial oligomycin-sensitive proton transport ATPase. <i>Journal of Bioenergetics and Biomembranes</i> , 1984, 16, 391-406.	2.3	20
45	Modification of the mitochondrial F1-ATPase δ subunit, enhancement of the ATPase activity of the IF1 ϵ F1 complex and IF1-binding dependence of the conformation of the δ subunit. <i>Biochemical Journal</i> , 1997, 327, 443-448.	3.7	20
46	Quenching of intracellular ROS generation as a mechanism for oleate-induced reduction of endothelial activation and early atherogenesis. <i>Thrombosis and Haemostasis</i> , 2002, 88, 335-44.	3.4	19
47	Purification and properties of pig brain guanine deaminase. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1978, 526, 235-246.	2.6	18
48	Effects of niridazole and 5-nitroimidazoles on heart mitochondrial respiration. <i>Biochemical Pharmacology</i> , 1982, 31, 3703-3705.	4.4	17
49	Tryptophan phosphorescence as a structural probe of mitochondrial F1-ATPase epsilon-subunit. <i>FEBS Journal</i> , 1993, 214, 729-734.	0.2	16
50	Cytochrome b of fish mitochondria is strongly resistant to funiculosin, a powerful inhibitor of respiration. <i>Archives of Biochemistry and Biophysics</i> , 1992, 295, 198-204.	3.0	15
51	Effects of cholesterol on the kinetics of mitochondrial ATPase. <i>FEBS Letters</i> , 1986, 198, 353-356.	2.8	14
52	Resolution of the circular dichroism spectra of the mitochondrial cytochrome bc1 complex. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1987, 892, 245-252.	1.0	14
53	Dietary lipid effects on microsome fatty acid composition of liver and brain, on liver glucose-6-phosphatase, and on brain 5α -nucleotidase activity in the rat. <i>Journal of Nutritional Biochemistry</i> , 1990, 1, 305-309.	4.2	14
54	Mitochondrial cytochrome c oxidase subunit III is selectively down-regulated by aluminum exposure in PC12S cells. <i>NeuroReport</i> , 2001, 12, 721-724.	1.2	14

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55	An Innovative Hyperbaric Hypothermic Machine Perfusion Protects the Liver from Experimental Preservation Injury. <i>Scientific World Journal, The</i> , 2012, 2012, 1-9.	2.1	13
56	Hyperoxia fully protects mitochondria of explanted livers. <i>Journal of Bioenergetics and Biomembranes</i> , 2011, 43, 673-682.	2.3	12
57	Long-Term Oral Administration of Theaphephenon-E Improves Cardiomyocyte Mechanics and Calcium Dynamics by Affecting Phospholamban Phosphorylation and ATP Production. <i>Cellular Physiology and Biochemistry</i> , 2018, 47, 1230-1243.	1.6	12
58	Mitochondrial Complex I: structure, function, and implications in neurodegeneration. <i>Italian Journal of Biochemistry</i> , 2006, 55, 232-53.	0.3	12
59	Temperature-dependent conformational changes in isolated oligomycin-sensitive ATPase. <i>FEBS Letters</i> , 1983, 155, 131-134.	2.8	10
60	The F1Fo-ATPase inhibitor, IF1, is a critical regulator of energy metabolism in cancer cells. <i>Biochemical Society Transactions</i> , 2021, 49, 815-827.	3.4	10
61	Conformational Changes of the Mitochondrial F1-ATPase $\hat{\alpha}$ -Subunit Induced by Nucleotide Binding as Observed by Phosphorescence Spectroscopy. <i>Journal of Biological Chemistry</i> , 1995, 270, 21845-21851.	3.4	9
62	Resveratrol preserves mitochondrial function in a human post-mitotic cell model. <i>Journal of Nutritional Biochemistry</i> , 2018, 62, 9-17.	4.2	9
63	The ATPase Inhibitory Factor 1 (IF1) regulates the expression of the mitochondrial Ca ²⁺ uniporter (MCU) via the AMPK/CREB pathway. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2021, 1868, 118860.	4.1	9
64	Mitochondrial Mass Assessment in a Selected Cell Line under Different Metabolic Conditions. <i>Cells</i> , 2019, 8, 1454.	4.1	8
65	Reversible immobilization of guanine deaminase by covalent chromatography. <i>Journal of Molecular Catalysis</i> , 1977, 2, 163-170.	1.2	6
66	Spermine antagonizes the binding of adriamycin to the inner membrane of heart mitochondria. <i>Biochemical and Biophysical Research Communications</i> , 1989, 159, 791-798.	2.1	6
67	Effect of dietary oils containing graded amounts of 18:3 n-6 and 18:4 n-3 on cell plasma membranes. <i>Journal of Nutritional Biochemistry</i> , 1995, 6, 21-26.	4.2	6
68	Effects of Standardized Green Tea Extract and Its Main Component, EGCG, on Mitochondrial Function and Contractile Performance of Healthy Rat Cardiomyocytes. <i>Nutrients</i> , 2020, 12, 2949.	4.1	6
69	Purification and characterization of adenosine triphosphatase from eel liver mitochondria. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1992, 101, 421-426.	0.2	4
70	Dietary Lipids and 5 $\hat{\alpha}$ -Nucleotidase Activity of Rat Cell Plasma Membranes. <i>Biochemical and Biophysical Research Communications</i> , 1994, 199, 99-105.	2.1	4
71	Fluorescence resonance energy transfer between coumarin-derived mitochondrial F1-ATPase $\hat{\beta}$ subunit and pyrenylmaleimide-labelled fragments of IF1 and c subunit. <i>Biochemical Journal</i> , 2002, 362, 165-171.	3.7	3
72	Mitochondrial respiration in rats during hypothermia resulting from central drug administration. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2022, 192, 349.	1.5	3

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73	Purine nucleoside phosphorylase: Immobilization by covalent chromatography and a study on its sulfhydryl groups. <i>Journal of Solid-Phase Biochemistry</i> , 1980, 5, 185-192.	0.5	2
74	Effect of 2-hydroxy-5-nitrobenzyl bromide on proton translocation by the mitochondrial H ⁺ -ATPase. <i>Biochemical and Biophysical Research Communications</i> , 1988, 155, 130-137.	2.1	2
75	Interactions and effects of 2-hydroxy-5-nitrobenzyl bromide on the bovine heart mitochondrial F1-ATPase. <i>International Journal of Biochemistry & Cell Biology</i> , 1993, 25, 1269-1275.	0.5	2
76	Diffusion limited component of mitochondrial F1-ATPase. <i>International Journal of Biochemistry & Cell Biology</i> , 1993, 25, 701-706.	0.5	2
77	A Study of the Mitochondrial F1-ATPase Tryptophan Phosphorescence at 273 K. <i>Biochemical and Biophysical Research Communications</i> , 1995, 207, 369-374.	2.1	2
78	Fluorescence resonance energy transfer between coumarin-derived mitochondrial F1-ATPase $\hat{\beta}$ subunit and pyrenylmaleimide-labelled fragments of IF1 and c subunit. <i>Biochemical Journal</i> , 2002, 362, 165.	3.7	2
79	Temperature-dependence of spectroscopic and catalytic properties of the eel (<i>Anguilla anguilla</i>) liver mitochondrial F1-ATPase. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1992, 103, 923-927.	0.2	0