Giancarlo Solaini

List of Publications by Year
in descending order

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	Mitochondrial respiration in rats during hypothermia resulting from central drug administration. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2022, 192, 349.	1.5	3
2	The ATPase Inhibitory Factor 1 (IF1) regulates the expression of the mitochondrial Ca2+ uniporter (MCU) via the AMPK/CREB pathway. Biochimica Et Biophysica Acta - Molecular Cell Research, 2021, 1868, 118860.	4.1	9
3	The F1Fo-ATPase inhibitor, IF1, is a critical regulator of energy metabolism in cancer cells. Biochemical Society Transactions, 2021, 49, 815-827.	3.4	10
4	Effects of Standardized Green Tea Extract and Its Main Component, EGCG, on Mitochondrial Function and Contractile Performance of Healthy Rat Cardiomyocytes. Nutrients, 2020, 12, 2949.	4.1	6
5	Mitochondrial Mass Assessment in a Selected Cell Line under Different Metabolic Conditions. Cells, 2019, 8, 1454.	4.1	8
6	Desmin Phosphorylation Triggers Preamyloid Oligomers Formation and Myocyte Dysfunction in Acquired Heart Failure. Circulation Research, 2018, 122, e75-e83.	4.5	46
7	Hypoxia and IF1 Expression Promote ROS Decrease in Cancer Cells. Cells, 2018, 7, 64.	4.1	36
8	Resveratrol preserves mitochondrial function in a human post-mitotic cell model. Journal of Nutritional Biochemistry, 2018, 62, 9-17.	4.2	9
9	Long-Term Oral Administration of Theaphenon-E Improves Cardiomyocyte Mechanics and Calcium Dynamics by Affecting Phospholamban Phosphorylation and ATP Production. Cellular Physiology and Biochemistry, 2018, 47, 1230-1243.	1.6	12
10	Hypoxia decreases ROS level in human fibroblasts. International Journal of Biochemistry and Cell Biology, 2017, 88, 133-144.	2.8	25
11	MicroRNAs in Oncogenesis and Tumor Suppression. International Review of Cell and Molecular Biology, 2017, 333, 229-268.	3.2	44
12	Mitochondrial quality control: Cell-type-dependent responses to pathological mutant mitochondrial DNA. Autophagy, 2016, 12, 2098-2112.	9.1	21
13	Reversal of the glycolytic phenotype of primary effusion lymphoma cells by combined targeting of cellular metabolism and PI3K/Akt/ mTOR signaling. Oncotarget, 2016, 7, 5521-5537.	1.8	30
14	The Inhibitor Protein (IF1) of the F1F0-ATPase Modulates Human Osteosarcoma Cell Bioenergetics. Journal of Biological Chemistry, 2015, 290, 6338-6348.	3.4	37
15	Hypoxia inducible factor-1 alpha as a therapeutic target in multiple myeloma. Oncotarget, 2014, 5, 1779-1792.	1.8	53
16	Mitochondria hyperfusion and elevated autophagic activity are key mechanisms for cellular bioenergetic preservation in centenarians. Aging, 2014, 6, 296-310.	3.1	70
17	Glucose plays a main role in human fibroblasts adaptation to hypoxia. International Journal of Biochemistry and Cell Biology, 2013, 45, 1356-1365.	2.8	21
18	An Innovative Hyperbaric Hypothermic Machine Perfusion Protects the Liver from Experimental Preservation Injury. Scientific World Journal, The, 2012, 2012, 1-9.	2.1	13

#	Article	IF	Citations
19	Oxidative phosphorylation in cancer cells. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 534-542.	1.0	183
20	Hyperoxia fully protects mitochondria of explanted livers. Journal of Bioenergetics and Biomembranes, 2011, 43, 673-682.	2.3	12
21	Mitochondrial Complex I decrease is responsible for bioenergetic dysfunction in K-ras transformed cells. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 314-323.	1.0	119
22	Mitochondrial respiratory chain super-complex Iâ€“III in physiology and pathology. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 633-640.	1.0	107
23	Hypoxia and mitochondrial oxidative metabolism. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 1171-1177.	1.0	474
24	Involvement of stat3 in mouse brain development and sexual dimorphism: A proteomics approach. Brain Research, 2010, 1362, 1-12.	2.2	21
25	Oxidative stress in the denervated muscle. Free Radical Research, 2010, 44, 563-576.	3.3	41
26	Human NARP Mitochondrial Mutation Metabolism Corrected With Î±-Ketoglutarate/Aspartate. Archives of Neurology, 2009, 66, 951-7.	4.5	37
27	The study of the pathogenic mechanism of mitochondrial diseases provides information on basic bioenergetics. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 941-945.	1.0	22
28	A novel deletion in the GTPase domain of OPA1 causes defects in mitochondrial morphology and distribution, but not in function. Human Molecular Genetics, 2008, 17, 3291-3302.	2.9	91
29	Biochemical phenotypes associated with the mitochondrial ATP6 gene mutations at nt8993. Biochimica Et Biophysica Acta - Bioenergetics, 2007, 1767, 913-919.	1.0	90
30	Evaluating Mitochondrial Membrane Potential in Cells. Bioscience Reports, 2007, 27, 11-21.	2.4	103
31	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. Biochemical Journal, 2006, 395, 493-500.	3.7	97
32	Severe ultrastructural mitochondrial changes in lymphoblasts homozygous for Huntington disease mutation. Mechanisms of Ageing and Development, 2006, 127, 217-220.	4.6	85
33	New Insights Into Structure and Function of Mitochondria and Their Role in Aging and Disease. Antioxidants and Redox Signaling, 2006, 8, 417-437.	5.4	91
34	Mitochondrial Complex I: structure, function, and implications in neurodegeneration. Italian Journal of Biochemistry, 2006, 55, 232-53.	0.3	12
35	Biochemical dysfunction in heart mitochondria exposed to ischaemia and reperfusion. Biochemical Journal, 2005, 390, 377-394.	3.7	203
36	Gradual Alteration of Mitochondrial Structure and Function by Î²-Amyloids: Importance of Membrane Viscosity Changes, Energy Deprivation, Reactive Oxygen Species Production, and Cytochrome c Release. Journal of Bioenergetics and Biomembranes, 2005, 37, 207-225.	2.3	202

#	Article	IF	Citations
37	Severe Impairment of Complex Iâ€“Driven Adenosine Triphosphate Synthesis in Leber Hereditary Optic Neuropathy Cybrids. Archives of Neurology, 2005, 62, 730.	4.5	144
38	Bioenergetics of mitochondrial diseases associated with mtDNA mutations. Biochimica Et Biophysica Acta - Bioenergetics, 2004, 1658, 89-94.	1.0	89
39	Increased state 4 mitochondrial respiration and swelling in early post-ischemic reperfusion of rat heart. FEBS Letters, 2004, 563, 161-164.	2.8	42
40	Bioenergetics shapes cellular death pathways in Leber's hereditary optic neuropathy: a model of mitochondrial neurodegeneration. Biochimica Et Biophysica Acta - Bioenergetics, 2004, 1658, 172-179.	1.0	102
41	Biochemical analysis of respiratory function in cybrid cell lines harbouring mitochondrial DNA mutations. Biochemical Journal, 2004, 384, 287-293.	3.7	82
42	Decreased platelet cytochrome c oxidase activity is accompanied by increased blood lactate concentration during exercise in patients with Alzheimer disease. Experimental Neurology, 2003, 182, 421-426.	4.1	70
43	Rhodamine 123 as a probe of mitochondrial membrane potential: evaluation of proton flux through F0 during ATP synthesis. Biochimica Et Biophysica Acta - Bioenergetics, 2003, 1606, 137-146.	1.0	444
44	Biochemical-Clinical Correlation in Patients With Different Loads of the Mitochondrial DNA T8993G Mutation. Archives of Neurology, 2002, 59, 264.	4.5	69
45	Fluorescence resonance energy transfer between coumarin-derived mitochondrial F1-ATPase Î³ subunit and pyrenylmaleimide-labelled fragments of IF1 and c subunit. Biochemical Journal, 2002, 362, 165-171.	3.7	3
46	Cytochrome c oxidase and mitochondrial F1F0-ATPase (ATP synthase) activities in platelets and brain from patients with Alzheimer's disease. Neurobiology of Aging, 2002, 23, 371-376.	3.1	333
47	Fluorescence resonance energy transfer between coumarin-derived mitochondrial F1-ATPase Î³ subunit and pyrenylmaleimide-labelled fragments of IF1 and c subunit. Biochemical Journal, 2002, 362, 165.	3.7	2
48	Quenching of intracellular ROS generation as a mechanism for oleate-induced reduction of endothelial activation and early atherogenesis. Thrombosis and Haemostasis, 2002, 88, 335-44.	3.4	19
49	Mitochondrial cytochrome c oxidase subunit III is selectively down-regulated by aluminum exposure in PC12S cells. NeuroReport, 2001, 12, 721-724.	1.2	14
50	Myocardial ischemic preconditioning and mitochondrial F1F0-ATPase activity. Molecular and Cellular Biochemistry, 2000, 215, 31-38.	3.1	38
51	Catalytic Activities of Mitochondrial ATP Synthase in Patients with Mitochondrial DNA T8993G Mutation in the ATPase 6 Gene Encoding Subunit a. Journal of Biological Chemistry, 2000, 275, 4177-4182.	3.4	100
52	Relevance of divalent cations to ATP-driven proton pumping in beef heart mitochondrial F0F1-ATPase. Journal of Bioenergetics and Biomembranes, 1998, 30, 533-541.	2.3	37
53	Modification of the mitochondrial F1-ATPase â^Š subunit, enhancement of the ATPase activity of the IF1â€“F1 complex and IF1-binding dependence of the conformation of the â^Š subunit. Biochemical Journal, 1997, 327, 443-448.	3.7	20
54	Effect of dietary oils containing graded amounts of 18:3 n-6 and 18:4 n-3 on cell plasma membranes. Journal of Nutritional Biochemistry, 1995, 6, 21-26.	4.2	6

#	Article	IF	Citations
55	Conformational Changes of the Mitochondrial F1-ATPase â^Š-Subunit Induced by Nucleotide Binding as Observed by Phosphorescence Spectroscopy. Journal of Biological Chemistry, 1995, 270, 21845-21851.	3.4	9
56	Lack of major changes in ATPase activity in mitochondria from liver, heart, and skeletal muscle of rats upon ageing. Mechanisms of Ageing and Development, 1995, 84, 139-150.	4.6	30
57	A Study of the Mitochondrial F1-ATPase Tryptophan Phosphorescence at 273 K. Biochemical and Biophysical Research Communications, 1995, 207, 369-374.	2.1	2
58	Dietary Lipids and 5â€²-Nucleotidase Activity of Rat Cell Plasma Membranes. Biochemical and Biophysical Research Communications, 1994, 199, 99-105.	2.1	4
59	Interactions and effects of 2-hydroxy-5-nitrobenzyl bromide on the bovine heart mitochondrial F1-ATPase. International Journal of Biochemistry & Cell Biology, 1993, 25, 1269-1275.	0.5	2
60	Diffusion limited component of mitochondrial F1-ATPase. International Journal of Biochemistry & Cell Biology, 1993, 25, 701-706.	0.5	2
61	Tryptophan phosphorescence as a structural probe of mitochondrial F1-ATPase epsilon-subunit. FEBS Journal, 1993, 214, 729-734.	0.2	16
62	Cytochrome b of fish mitochondria is strongly resistant to funiculosin, a powerful inhibitor of respiration. Archives of Biochemistry and Biophysics, 1992, 295, 198-204.	3.0	15
63	Purification and characterization of adenosine triphosphatase from eel liver mitochondria. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1992, 101, 421-426.	0.2	4
64	Temperature-dependence of spectroscopic and catalytic properties of the eel (Anguilla anguilla) liver mitochondrial F1-ATPase. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1992, 103, 923-927.	0.2	0
65	Dietary lipid effects on microsome fatty acid composition of liver and brain, on liver glucose-6-phosphatase, and on brain 5â€²-nucleotidase activity in the rat. Journal of Nutritional Biochemistry, 1990, 1, 305-309.	4.2	14
66	Spermine antagonizes the binding of adriamycin to the inner membrane of heart mitochondria. Biochemical and Biophysical Research Communications, 1989, 159, 791-798.	2.1	6
67	Temperature-induced states of isolated F1-ATPase affect catalysis, enzyme conformation and high-affinity nucleotide binding sites. Biochimica Et Biophysica Acta - Bioenergetics, 1989, 976, 77-84.	1.0	22
68	Effect of 2-hydroxy-5-nitrobenzyl bromide on proton translocation by the mitochondrial H+-ATPase. Biochemical and Biophysical Research Communications, 1988, 155, 130-137.	2.1	2
69	Resolution of the circular dichroism spectra of the mitochondrial cytochrome bc1 complex. Biochimica Et Biophysica Acta - Bioenergetics, 1987, 892, 245-252.	1.0	14
70	Protective effect of endogenous coenzyme Q on both lipid peroxidation and respiratory chain inactivation induced by an adriamycin-iron complex. Biochemical and Biophysical Research Communications, 1987, 147, 572-580.	2.1	36
71	The kinetic and structural changes of the mitochondrial F1-ATPase with temperature. Biochemical and Biophysical Research Communications, 1986, 136, 891-898.	2.1	21
72	Effects of cholesterol on the kinetics of mitochondrial ATPase. FEBS Letters, 1986, 198, 353-356.	2.8	14

#	Article	IF	Citations
73	Temperature dependence of mitochondrial oligomycin-sensitive proton transport ATPase. Journal of Bioenergetics and Biomembranes, 1984, 16, 391-406.	2.3	20
74	Temperature-dependent conformational changes in isolated oligomycin-sensitive ATPase. FEBS Letters, 1983, 155, 131-134.	2.8	10
75	Effects of niridazole and 5-nitroimidazoles on heart mitochondrial respiration. Biochemical Pharmacology, 1982, 31, 3703-3705.	4.4	17
76	Lipid dynamics and lipid-protein interaction in isolated beef-heart mitochondrial ATPase complex. FEBS Letters, 1981, 132, 127-128.	2.8	20
77	Purine nucleoside phosphorylase: Immobilization by covalent chromatography and a study on its sulfhydryl groups. Journal of Solid-Phase Biochemistry, 1980, 5, 185-192.	0.5	2
78	Purification and properties of pig brain guanine deaminase. Biochimica Et Biophysica Acta - Biomembranes, 1978, 526, 235-246.	2.6	18
79	Reversible immobilization of guanine deaminase by covalent chromatography. Journal of Molecular Catalysis, 1977, 2, 163-170.	1.2	6