

Carlos Curti

List of Publications by Year in descending order

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104
papers

4,158
citations

94269

37
h-index

128067

60
g-index

104
all docs

104
docs citations

104
times ranked

6327
citing authors

#	ARTICLE	IF	CITATIONS
1	Cisplatin-induced nephrotoxicity is associated with oxidative stress, redox state unbalance, impairment of energetic metabolism and apoptosis in rat kidney mitochondria. <i>Archives of Toxicology</i> , 2007, 81, 495-504.	1.9	264
2	Cisplatin induces mitochondrial oxidative stress with resultant energetic metabolism impairment, membrane rigidification and apoptosis in rat liver. <i>Journal of Applied Toxicology</i> , 2008, 28, 337-344.	1.4	169
3	Effect of Naturally Occurring Flavonoids on Lipid Peroxidation and Membrane Permeability Transition in Mitochondria. <i>Free Radical Biology and Medicine</i> , 1998, 24, 1455-1461.	1.3	164
4	Hypolipemic and antioxidant activities from <i>Tamarindus indica</i> L. pulp fruit extract in hypercholesterolemic hamsters. <i>Food and Chemical Toxicology</i> , 2006, 44, 810-818.	1.8	151
5	Hydroxyl radical scavenger ameliorates cisplatin-induced nephrotoxicity by preventing oxidative stress, redox state unbalance, impairment of energetic metabolism and apoptosis in rat kidney mitochondria. <i>Cancer Chemotherapy and Pharmacology</i> , 2007, 61, 145-155.	1.1	140
6	The interaction of flavonoids with mitochondria: effects on energetic processes. <i>Chemico-Biological Interactions</i> , 2005, 152, 67-78.	1.7	139
7	A proposed sequence of events for cadmium-induced mitochondrial impairment. <i>Journal of Inorganic Biochemistry</i> , 2003, 97, 251-257.	1.5	136
8	Iron complexing activity of mangiferin, a naturally occurring glucosylxanthone, inhibits mitochondrial lipid peroxidation induced by Fe ²⁺ -citrate. <i>European Journal of Pharmacology</i> , 2005, 513, 47-55.	1.7	101
9	In Vitro Interaction of Nonsteroidal Anti-inflammatory Drugs on Oxidative Phosphorylation of Rat Kidney Mitochondria: Respiration and ATP Synthesis. <i>Archives of Biochemistry and Biophysics</i> , 1996, 334, 303-308.	1.4	87
10	Effect of fluoxetine on rat liver mitochondria. <i>Biochemical Pharmacology</i> , 1994, 48, 535-541.	2.0	86
11	Diclofenac Sodium and Mefenamic Acid: Potent Inducers of the Membrane Permeability Transition in Renal Cortex Mitochondria. <i>Archives of Biochemistry and Biophysics</i> , 1997, 342, 231-235.	1.4	80
12	The Critical Role of Mitochondrial Energetic Impairment in the Toxicity of Nimesulide to Hepatocytes. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2002, 303, 601-607.	1.3	80
13	Protective effects of <i>Mangifera indica</i> L extract (Vimang), and its major component mangiferin, on iron-induced oxidative damage to rat serum and liver. <i>Pharmacological Research</i> , 2008, 57, 79-86.	3.1	73
14	Thioridazine interacts with the membrane of mitochondria acquiring antioxidant activity toward apoptosis—potentially implicated mechanisms. <i>British Journal of Pharmacology</i> , 2002, 136, 136-142.	2.7	71
15	Antioxidant activity of flavonoids in isolated mitochondria. <i>Phytotherapy Research</i> , 2008, 22, 1213-1218.	2.8	71
16	Testosterone induces apoptosis in vascular smooth muscle cells via extrinsic apoptotic pathway with mitochondria-generated reactive oxygen species involvement. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014, 306, H1485-H1494.	1.5	71
17	Cloning and functional expression of the mitochondrial alternative oxidase of <i>Aspergillus fumigatus</i> and its induction by oxidative stress. <i>FEMS Microbiology Letters</i> , 2007, 271, 230-238.	0.7	65
18	Fluoxetine interacts with the lipid bilayer of the inner membrane in isolated rat brain mitochondria, inhibiting electron transport and F1F0-ATPase activity. <i>Molecular and Cellular Biochemistry</i> , 1999, 199, 103-109.	1.4	62

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19	Involvement of an Alternative Oxidase in Oxidative Stress and Mycelium-to-Yeast Differentiation in <i>Paracoccidioides brasiliensis</i> . <i>Eukaryotic Cell</i> , 2011, 10, 237-248.	3.4	60
20	(+)- α -Tocopheryl succinate inhibits the mitochondrial respiratory chain complex I and is as effective as arsenic trioxide or ATRA against acute promyelocytic leukemia in vivo. <i>Leukemia</i> , 2012, 26, 451-460.	3.3	60
21	Photocytotoxic activity of a nitrosyl phthalocyanine ruthenium complex "A system capable of producing nitric oxide and singlet oxygen. <i>Journal of Inorganic Biochemistry</i> , 2011, 105, 1035-1043.	1.5	59
22	Effects of nimesulide and its reduced metabolite on mitochondria. <i>British Journal of Pharmacology</i> , 2000, 131, 1154-1160.	2.7	58
23	Mangiferin, a natural occurring glucosyl xanthone, increases susceptibility of rat liver mitochondria to calcium-induced permeability transition. <i>Archives of Biochemistry and Biophysics</i> , 2005, 439, 184-193.	1.4	57
24	Stable SET knockdown in head and neck squamous cell carcinoma promotes cell invasion and the mesenchymal-like phenotype in vitro, as well as necrosis, cisplatin sensitivity and lymph node metastasis in xenograft tumor models. <i>Molecular Cancer</i> , 2014, 13, 32.	7.9	57
25	Carvedilol protects against cisplatin-induced oxidative stress, redox state unbalance and apoptosis in rat kidney mitochondria. <i>Chemico-Biological Interactions</i> , 2011, 189, 45-51.	1.7	54
26	Potential toxicity of toluene and xylene evoked by mitochondrial uncoupling. <i>Toxicology in Vitro</i> , 2007, 21, 782-788.	1.1	51
27	The anti-cancer agent nemorosone is a new potent protonophoric mitochondrial uncoupler. <i>Mitochondrion</i> , 2011, 11, 255-263.	1.6	50
28	Silencing of mitochondrial alternative oxidase gene of <i>Aspergillus fumigatus</i> enhances reactive oxygen species production and killing of the fungus by macrophages. <i>Journal of Bioenergetics and Biomembranes</i> , 2008, 40, 631-636.	1.0	48
29	Aromatic antiepileptic drugs and mitochondrial toxicity: Effects on mitochondria isolated from rat liver. <i>Toxicology in Vitro</i> , 2008, 22, 1143-1152.	1.1	48
30	Involvement of oxidative stress in the hepatotoxicity induced by aromatic antiepileptic drugs. <i>Toxicology in Vitro</i> , 2008, 22, 1820-1824.	1.1	48
31	Fe(III) improves antioxidant and cytoprotecting activities of mangiferin. <i>European Journal of Pharmacology</i> , 2006, 547, 31-36.	1.7	47
32	Dimethylthiourea protects against mitochondrial oxidative damage induced by cisplatin in liver of rats. <i>Chemico-Biological Interactions</i> , 2007, 170, 177-186.	1.7	47
33	Incorporation of a ruthenium nitrosyl complex into liposomes, the nitric oxide released from these liposomes and HepG2 cell death mechanism. <i>Coordination Chemistry Reviews</i> , 2016, 306, 701-707.	9.5	44
34	Antioxidant activity of isocoumarins isolated from <i>Paepalanthus bromelioides</i> on mitochondria. <i>Phytochemistry</i> , 2007, 68, 1075-1080.	1.4	43
35	<i>Mangifera indica</i> L. extract (Vimang) inhibits Fe ²⁺ -citrate-induced lipoperoxidation in isolated rat liver mitochondria. <i>Pharmacological Research</i> , 2005, 51, 427-435.	3.1	42
36	The anti-cancer agent guttiferone-A permeabilizes mitochondrial membrane: Ensuing energetic and oxidative stress implications. <i>Toxicology and Applied Pharmacology</i> , 2011, 253, 282-289.	1.3	40

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37	In situ evidence of an alternative oxidase and an uncoupling protein in the respiratory chain of <i>Aspergillus fumigatus</i> . <i>International Journal of Biochemistry and Cell Biology</i> , 2004, 36, 162-172.	1.2	39
38	SET protein accumulates in HNSCC and contributes to cell survival: Antioxidant defense, Akt phosphorylation and AVOs acidification. <i>Oral Oncology</i> , 2012, 48, 1106-1113.	0.8	39
39	Carvedilol protects against the renal mitochondrial toxicity induced by cisplatin in rats. <i>Mitochondrion</i> , 2010, 10, 46-53.	1.6	38
40	C-Phycocyanin protects SH-SY5Y cells from oxidative injury, rat retina from transient ischemia and rat brain mitochondria from Ca ²⁺ /phosphate-induced impairment. <i>Brain Research Bulletin</i> , 2012, 89, 159-167.	1.4	37
41	Curcumin Generates Oxidative Stress and Induces Apoptosis in Adult <i>Schistosoma mansoni</i> Worms. <i>PLoS ONE</i> , 2016, 11, e0167135.	1.1	36
42	Dehydromonocrotaline inhibits mitochondrial complex I. A potential mechanism accounting for hepatotoxicity of monocrotaline. <i>Toxicol</i> , 2007, 50, 724-730.	0.8	34
43	On the mechanisms of phenothiazine-induced mitochondrial permeability transition: Thiol oxidation, strict Ca ²⁺ dependence, and cyt c release. <i>Biochemical Pharmacology</i> , 2010, 80, 1284-1295.	2.0	34
44	Maternal Protein Restriction Increases Respiratory and Sympathetic Activities and Sensitizes Peripheral Chemoreflex in Male Rat Offspring. <i>Journal of Nutrition</i> , 2015, 145, 907-914.	1.3	34
45	Interaction of Vimang (<i>Mangifera indica</i> L. extract) with Fe(III) improves its antioxidant and cytoprotecting activity. <i>Pharmacological Research</i> , 2006, 54, 389-395.	3.1	33
46	Fe(III) Shifts the Mitochondria Permeability Transition-Eliciting Capacity of Mangiferin to Protection of Organelle. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2007, 320, 646-653.	1.3	32
47	Experimentalâ€“Computational Study of Carbon Nanotube Effects on Mitochondrial Respiration: In Silico Nano-QSPR Machine Learning Models Based on New Raman Spectra Transform with Markovâ€“Shannon Entropy Invariants. <i>Journal of Chemical Information and Modeling</i> , 2017, 57, 1029-1044.	2.5	32
48	Flufenamic acid as an inducer of mitochondrial permeability transition. <i>Molecular and Cellular Biochemistry</i> , 2000, 210, 153-158.	1.4	31
49	JM-20, a novel benzodiazepineâ€“dihydropyridine hybrid molecule, protects mitochondria and prevents ischemic insult-mediated neural cell death in vitro. <i>European Journal of Pharmacology</i> , 2014, 726, 57-65.	1.7	31
50	Hg(II)-induced renal cytotoxicity: in vitro and in vivo implications for the bioenergetic and oxidative status of mitochondria. <i>Molecular and Cellular Biochemistry</i> , 1997, 177, 53-59.	1.4	28
51	Effects of zinc phthalocyanine tetrasulfonate-based photodynamic therapy on rat brain isolated mitochondria. <i>Chemico-Biological Interactions</i> , 2009, 179, 402-406.	1.7	27
52	Classical and alternative components of the mitochondrial respiratory chain in pathogenic fungi as potential therapeutic targets. <i>Journal of Bioenergetics and Biomembranes</i> , 2011, 43, 81-88.	1.0	27
53	SET oncoprotein accumulation regulates transcription through DNA demethylation and histone hypoacetylation. <i>Oncotarget</i> , 2017, 8, 26802-26818.	0.8	27
54	Accumulation of the SET protein in HEK293T cells and mild oxidative stress: cell survival or death signaling. <i>Molecular and Cellular Biochemistry</i> , 2012, 363, 65-74.	1.4	26

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55	CR-LAAO antileukemic effect against Bcr-Abl + cells is mediated by apoptosis and hydrogen peroxide. <i>International Journal of Biological Macromolecules</i> , 2016, 86, 309-320.	3.6	25
56	Anti-cancer activity of a new dihydropyridine derivative, VdiE-2N, in head and neck squamous cell carcinoma. <i>European Journal of Pharmacology</i> , 2018, 819, 198-206.	1.7	24
57	Neutrophil effector functions triggered by Fc-gamma and/or complement receptors are dependent on B-ring hydroxylation pattern and physicochemical properties of flavonols. <i>Life Sciences</i> , 2007, 81, 317-326.	2.0	23
58	Ca ²⁺ binding to c-state of adenine nucleotide translocase (ANT)-surrounding cardiolipins enhances (ANT)-Cys56 relative mobility: A computational-based mitochondrial permeability transition study. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009, 1787, 176-182.	0.5	22
59	Clusianone, a naturally occurring nemorosone regioisomer, uncouples rat liver mitochondria and induces HepG2 cell death. <i>Chemico-Biological Interactions</i> , 2014, 212, 20-29.	1.7	22
60	Vimang (Mangifera indica L. extract) induces permeability transition in isolated mitochondria, closely reproducing the effect of mangiferin, Vimang's main component. <i>Chemico-Biological Interactions</i> , 2006, 159, 141-148.	1.7	21
61	Effects of isocoumarins isolated from <i>Paepalanthus bromelioides</i> on mitochondria: Uncoupling, and induction/inhibition of mitochondrial permeability transition. <i>Chemico-Biological Interactions</i> , 2006, 161, 155-164.	1.7	21
62	Effects on mitochondria of mitochondria-induced nitric oxide release from a ruthenium nitrosyl complex. <i>Nitric Oxide - Biology and Chemistry</i> , 2009, 20, 24-30.	1.2	20
63	A Strong Protective Action of Guttiferone-A, a Naturally Occurring Prenylated Benzophenone, Against Iron-Induced Neuronal Cell Damage. <i>Journal of Pharmacological Sciences</i> , 2011, 116, 36-46.	1.1	20
64	Lymph node or perineural invasion is associated with low miR-15a, miR-34c and miR-199b levels in head and neck squamous cell carcinoma. <i>BBA Clinical</i> , 2016, 6, 159-164.	4.1	20
65	Mitochondrial Uncoupling by the Sulindac Metabolite, Sulindac Sulfide. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2006, 99, 294-299.	1.2	19
66	Impact of adenosine nucleotide translocase (ANT) proline isomerization on Ca ²⁺ -induced cysteine relative mobility/mitochondrial permeability transition pore. <i>Journal of Bioenergetics and Biomembranes</i> , 2010, 42, 329-335.	1.0	19
67	Triacsin C reduces lipid droplet formation and induces mitochondrial biogenesis in primary rat hepatocytes. <i>Journal of Bioenergetics and Biomembranes</i> , 2017, 49, 399-411.	1.0	19
68	Triton X-100 solubilized bone matrix-induced alkaline phosphatase. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1987, 87, 921-926.	0.2	18
69	Characterization of <i>Rubus fruticosus</i> mitochondria and salicylic acid inhibition of reactive oxygen species generation at Complex III/Q cycle: potential implications for hypersensitive response in plants. <i>Journal of Bioenergetics and Biomembranes</i> , 2011, 43, 237-246.	1.0	18
70	Release of NO from a nitrosyl ruthenium complex through oxidation of mitochondrial NADH and effects on mitochondria. <i>Nitric Oxide - Biology and Chemistry</i> , 2012, 26, 174-181.	1.2	18
71	<sc>SET</sc> overexpression decreases cell detoxification efficiency: <sc>ALDH</sc>2 and <sc>GSTP</sc>1 are downregulated, <sc>DDR</sc> is impaired and <sc>DNA</sc> damage accumulates. <i>FEBS Journal</i> , 2012, 279, 4615-4628.	2.2	18
72	Trypanocidal structure-activity relationship for cis- and trans-methylpluviatolide. <i>Phytochemistry</i> , 2008, 69, 1890-1894.	1.4	17

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73	Uncoupling and oxidative stress in liver mitochondria isolated from rats with acute iron overload. Archives of Toxicology, 2009, 83, 47-53.	1.9	17
74	Accumulated SET protein up-regulates and interacts with hnRNPK, increasing its binding to nucleic acids, the Bcl-xS repression, and cellular proliferation. Biochemical and Biophysical Research Communications, 2014, 445, 196-202.	1.0	17
75	Energetics of heart mitochondria during acute phase of Trypanosoma cruzi infection in rats. International Journal of Biochemistry and Cell Biology, 1995, 27, 1183-1189.	1.2	16
76	Dehydromonocrotaline induces cyclosporine A-insensitive mitochondrial permeability transition/cytochrome c release. Toxicon, 2009, 54, 16-22.	0.8	16
77	Mitochondrial function in the yeast form of the pathogenic fungus Paracoccidioides brasiliensis. Journal of Bioenergetics and Biomembranes, 2008, 40, 297-305.	1.0	15
78	The cytotoxic effects of brown Cuban propolis depend on the nemorosone content and may be mediated by mitochondrial uncoupling. Chemico-Biological Interactions, 2015, 228, 28-34.	1.7	15
79	Influence of nonsteroidal anti-inflammatory drugs on calcium efflux in isolated rat renal cortex mitochondria and aspects of the mechanisms involved. International Journal of Biochemistry and Cell Biology, 1998, 30, 961-965.	1.2	14
80	A PMR1-like calcium ATPase of Aspergillus fumigatus: cloning, identification and functional expression in S. cerevisiae. Yeast, 2005, 22, 813-824.	0.8	14
81	Iron chelating-mediated antioxidant activity of Plectranthus barbatus extract on mitochondria. Food Chemistry, 2010, 122, 203-208.	4.2	14
82	The combination of conjugated linoleic acid (CLA) and extra virgin olive oil increases mitochondrial and body metabolism and prevents CLA-associated insulin resistance and liver hypertrophy in C57Bl/6 mice. Journal of Nutritional Biochemistry, 2016, 28, 147-154.	1.9	13
83	Divergent Role OF Heme Oxygenase Inhibition in the Pathogenesis of Sepsis. Shock, 2011, 35, 550-559.	1.0	11
84	QSPR/QSAR-based Perturbation Theory approach and mechanistic electrochemical assays on carbon nanotubes with optimal properties against mitochondrial Fenton reaction experimentally induced by Fe ²⁺ -overload. Carbon, 2017, 115, 312-330.	5.4	11
85	Steady-state kinetic properties of FoF ₁ -ATPase: The pH effect. International Journal of Biochemistry & Cell Biology, 1992, 24, 1743-1748.	0.8	10
86	Characterization of the stimulus for reactive oxygen species generation in calcium-overloaded mitochondria. Redox Report, 2011, 16, 108-113.	1.4	10
87	Mitoprotective activity of oxidized carbon nanotubes against mitochondrial swelling induced in multiple experimental conditions and predictions with new expected-value perturbation theory. RSC Advances, 2015, 5, 103229-103245.	1.7	10
88	SET protein accumulation prevents cell death in head and neck squamous cell carcinoma through regulation of redox state and autophagy. Biochimica Et Biophysica Acta - Molecular Cell Research, 2019, 1866, 623-637.	1.9	10
89	Respiration and mitochondrial ATPase in energized mitochondria during isoproterenol-induced cell injury of myocardium. International Journal of Biochemistry & Cell Biology, 1991, 23, 1143-1149.	0.8	9
90	Heart FoF ₁ -ATPase changes during the acute phase of Trypanosoma cruzi infection in rats. Molecular and Cellular Biochemistry, 1996, 165, 127-33.	1.4	9

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91	Comparative effects of lantadene A and its reduced metabolite on mitochondrial bioenergetics. <i>Toxicol</i> , 2010, 55, 1331-1337.	0.8	9
92	Administration of a murine diet supplemented with conjugated linoleic acid increases the expression and activity of hepatic uncoupling proteins. <i>Journal of Bioenergetics and Biomembranes</i> , 2012, 44, 587-596.	1.0	8
93	SET/PP2A overexpression induces phenotypic, molecular, and metabolic alterations in an oral keratinocyte cell line. <i>FEBS Journal</i> , 2017, 284, 2774-2785.	2.2	8
94	Neuroprotective Action and Free Radical Scavenging Activity of Guttiferone-A, a Naturally Occurring Prenylated Benzophenone. <i>Arzneimittelforschung</i> , 2012, 62, 583-589.	0.5	6
95	SET overexpression in HEK293 cells regulates mitochondrial uncoupling proteins levels within a mitochondrial fission/reduced autophagic flux scenario. <i>Biochemical and Biophysical Research Communications</i> , 2015, 458, 300-306.	1.0	6
96	In vitro metabolism study of a new nitrosyl ruthenium complex [Ru(NH ₂ NHq)(terpy)NO] ³⁺ nitric oxide donor using rat microsomes. <i>Nitric Oxide - Biology and Chemistry</i> , 2009, 21, 14-19.	1.2	5
97	Cubebin and derivatives as inhibitors of mitochondrial complex I. Proposed interaction with subunit B8. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2009, 24, 599-606.	2.5	5
98	4-hydroxy nimesulide effects on mitochondria and HepG2 cells. A comparison with nimesulide. <i>European Journal of Pharmacology</i> , 2007, 566, 43-49.	1.7	3
99	A simple student project to isolate subcellular fractions and analyse membrane-bound and triton X-100 solubilized enzyme activity. <i>Biochemical Education</i> , 1989, 17, 213-214.	0.1	2
100	Kinetic properties of mitochondrial ATPase during isoproterenol-induced cardiomyopathy. <i>International Journal of Biochemistry & Cell Biology</i> , 1990, 22, 611-615.	0.8	2
101	Potential SET protein involvement in autophagy in cancer. <i>FASEB Journal</i> , 2013, 27, .	0.2	1
102	An integrated approach for teaching the biochemistry of respiration. <i>Biochemical Education</i> , 1990, 18, 31-32.	0.1	0
103	Letter to the editor. <i>Journal of Biochemical and Molecular Toxicology</i> , 2007, 21, 382-383.	1.4	0
104	Testosterone induces activation of the extrinsic apoptotic pathway in VSMC by mechanisms involving ROS generation. <i>FASEB Journal</i> , 2013, 27, 1092.8.	0.2	0