Qun Chen

List of Publications by Citations

77	5,052	29	71
papers	citations	h-index	g-index
85	5,692	5.6	5.56
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
77	Production of reactive oxygen species by mitochondria: central role of complex III. *Journal of Biological Chemistry*, **2003**, 278, 36027-31	5.4	1170
76	Function of mitochondrial Stat3 in cellular respiration. *Science*, **2009**, 323, 793-7	33.3	702
75	Sphingosine-1-phosphate produced by sphingosine kinase 2 in mitochondria interacts with prohibitin 2 to regulate complex IV assembly and respiration. *FASEB Journal*, **2011**, 25, 600-12	0.9	256
74	Ischemic defects in the electron transport chain increase the production of reactive oxygen species from isolated rat heart mitochondria. *American Journal of Physiology - Cell Physiology*, **2008**, 294, C460-6	5.4	243
73	Modulation of electron transport protects cardiac mitochondria and decreases myocardial injury during ischemia and reperfusion. *American Journal of Physiology - Cell Physiology*, **2007**, 292, C137-47	5.4	212
72	Mitochondrial Dysfunction and Myocardial Ischemia-Reperfusion: Implications for Novel Therapies. *Annual Review of Pharmacology and Toxicology*, **2017**, 57, 535-565	17.9	188
71	Blockade of electron transport during ischemia protects cardiac mitochondria. *Journal of Biological Chemistry*, **2004**, 279, 47961-7	5.4	178
70	Mitochondrial-targeted Signal transducer and activator of transcription 3 (STAT3) protects against ischemia-induced changes in the electron transport chain and the generation of reactive oxygen species. *Journal of Biological Chemistry*, **2011**, 286, 29610-20	5.4	164
69	Reversible blockade of electron transport during ischemia protects mitochondria and decreases myocardial injury following reperfusion. *Journal of Pharmacology and Experimental Therapeutics*, **2006**, 319, 1405-12	4.7	164
68	Mitochondrial Metabolism in Aging Heart. *Circulation Research*, **2016**, 118, 1593-611	15.7	163
67	Blockade of electron transport before cardiac ischemia with the reversible inhibitor amobarbital protects rat heart mitochondria. *Journal of Pharmacology and Experimental Therapeutics*, **2006**, 316, 200-7	4.7	113
66	Depletion of cardiolipin and cytochrome c during ischemia increases hydrogen peroxide production from the electron transport chain. *Free Radical Biology and Medicine*, **2006**, 40, 976-82	7.8	102
65	Ischemia, rather than reperfusion, inhibits respiration through cytochrome oxidase in the isolated, perfused rabbit heart: role of cardiolipin. *American Journal of Physiology - Heart and Circulatory Physiology*, **2004**, 287, H258-67	5.2	98
64	Cytoprotection by the modulation of mitochondrial electron transport chain: the emerging role of mitochondrial STAT3. *Mitochondrion*, **2012**, 12, 180-9	4.9	95
63	Inhibited mitochondrial respiration by amobarbital during cardiac ischaemia improves redox state and reduces matrix Ca2+ overload and ROS release. *Cardiovascular Research*, **2008**, 77, 406-15	9.9	81
62	Activation of mitochondrial μ-calpain increases AIF cleavage in cardiac mitochondria during ischemia-reperfusion. *Biochemical and Biophysical Research Communications*, **2011**, 415, 533-8	3.4	72
61	Blocking Na(+)/H(+) exchange reduces [Na(+)](i) and [Ca(2+)](i) load after ischemia and improves function in intact hearts. *American Journal of Physiology - Heart and Circulatory Physiology*, **2001**, 281, H2398-409	5.2	66

60	Mitochondrial Complex I Inhibition by Metformin Limits Reperfusion Injury. *Journal of Pharmacology and Experimental Therapeutics*, **2019**, 369, 282-290	4.7	49
59	Reversible blockade of electron transport with amobarbital at the onset of reperfusion attenuates cardiac injury. *Translational Research*, **2009**, 153, 224-31	11	49
58	Activation of mitochondrial calpain and increased cardiac injury: beyond AIF release. *American Journal of Physiology - Heart and Circulatory Physiology*, **2016**, 310, H376-84	5.2	46
57	Pivotal Importance of STAT3 in Protecting the Heart from Acute and Chronic Stress: New Advancement and Unresolved Issues. *Frontiers in Cardiovascular Medicine*, **2015**, 2, 36	5.4	45
56	Blockade of electron transport during ischemia preserves bcl-2 and inhibits opening of the mitochondrial permeability transition pore. *FEBS Letters*, **2011**, 585, 921-6	3.8	45
55	Metformin attenuates ER stress-induced mitochondrial dysfunction. *Translational Research*, **2017**, 190, 40-50	11	43
54	Inhibition of Bcl-2 sensitizes mitochondrial permeability transition pore (MPTP) opening in ischemia-damaged mitochondria. *PLoS ONE*, **2015**, 10, e0118834	3.7	36
53	Transient complex I inhibition at the onset of reperfusion by extracellular acidification decreases cardiac injury. *American Journal of Physiology - Cell Physiology*, **2014**, 306, C1142-53	5.4	34
52	Postconditioning modulates ischemia-damaged mitochondria during reperfusion. *Journal of Cardiovascular Pharmacology*, **2012**, 59, 101-8	3.1	34
51	Blockade of electron transport before ischemia protects mitochondria and decreases myocardial injury during reperfusion in aged rat hearts. *Translational Research*, **2012**, 160, 207-16	11	30
50	Blockade of electron transport at the onset of reperfusion decreases cardiac injury in aged hearts by protecting the inner mitochondrial membrane. *Journal of Aging Research*, **2012**, 2012, 753949	2.3	30
49	Electron flow into cytochrome c coupled with reactive oxygen species from the electron transport chain converts cytochrome c to a cardiolipin peroxidase: role during ischemia-reperfusion. *Biochimica Et Biophysica Acta - General Subjects*, **2014**, 1840, 3199-207	4	29
48	Mitochondrial health and muscle plasticity after spinal cord injury. *European Journal of Applied Physiology*, **2019**, 119, 315-331	3.4	29
47	Heart mitochondria and calpain 1: Location, function, and targets. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2015**, 1852, 2372-8	6.9	28
46	Isolating the segment of the mitochondrial electron transport chain responsible for mitochondrial damage during cardiac ischemia. *Biochemical and Biophysical Research Communications*, **2010**, 397, 656-60	3.4	27
45	Cardioprotective function of mitochondrial-targeted and transcriptionally inactive STAT3 against ischemia and reperfusion injury. *Basic Research in Cardiology*, **2015**, 110, 53	11.8	26
44	Inhibition of the ubiquitous calpains protects complex I activity and enables improved mitophagy in the heart following ischemia-reperfusion. *American Journal of Physiology - Cell Physiology*, **2019**, 317, C910-C921	5.4	26
43	Mitochondrial Dysfunction in Cardiovascular Aging. *Advances in Experimental Medicine and Biology*, **2017**, 982, 451-464	3.6	25

42	Reverse electron flow-mediated ROS generation in ischemia-damaged mitochondria: role of complex I inhibition vs. depolarization of inner mitochondrial membrane. *Biochimica Et Biophysica Acta - General Subjects*, **2013**, 1830, 4537-42	4	24
41	Mitochondrial mass and activity as a function of body composition in individuals with spinal cord injury. *Physiological Reports*, **2017**, 5, e13080	2.6	22
40	Comparative study of p38 MAPK signal transduction pathway of peripheral blood mononuclear cells from patients with coal-combustion-type fluorosis with and without high hair selenium levels. *International Journal of Hygiene and Environmental Health*, **2010**, 213, 381-6	6.9	22
39	Modulation of mitochondrial bioenergetics in the isolated Guinea pig beating heart by potassium and lidocaine cardioplegia: implications for cardioprotection. *Journal of Cardiovascular Pharmacology*, **2009**, 54, 298-309	3.1	21
38	Endoplasmic reticulum stress-induced complex I defect: Central role of calcium overload. *Archives of Biochemistry and Biophysics*, **2020**, 683, 108299	4.1	20
37	Cardioprotection by modulation of mitochondrial respiration during ischemia-reperfusion: role of apoptosis-inducing factor. *Biochemical and Biophysical Research Communications*, **2013**, 435, 627-33	3.4	18
36	Endoplasmic reticulum stress-mediated mitochondrial dysfunction in aged hearts. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2020**, 1866, 165899	6.9	18
35	Skeletal muscle mitochondrial mass is linked to lipid and metabolic profile in individuals with spinal cord injury. *European Journal of Applied Physiology*, **2017**, 117, 2137-2147	3.4	17
34	Cardiac Specific Knockout of p53 Decreases ER Stress-Induced Mitochondrial Damage. *Frontiers in Cardiovascular Medicine*, **2019**, 6, 10	5.4	16
33	Intermediary metabolism and fatty acid oxidation: novel targets of electron transport chain-driven injury during ischemia and reperfusion. *American Journal of Physiology - Heart and Circulatory Physiology*, **2018**, 314, H787-H795	5.2	16
32	Blocking GSK3β-mediated dynamin1 phosphorylation enhances BDNF-dependent TrkB endocytosis and the protective effects of BDNF in neuronal and mouse models of Alzheimer's disease. *Neurobiology of Disease*, **2015**, 74, 377-91	7.5	16
31	Sixteen weeks of testosterone with or without evoked resistance training on protein expression, fiber hypertrophy and mitochondrial health after spinal cord injury. *Journal of Applied Physiology*, **2020**, 128, 1487-1496	3.7	15
30	Myosin Va mediates BDNF-induced postendocytic recycling of full-length TrkB and its translocation into dendritic spines. *Journal of Cell Science*, **2015**, 128, 1108-22	5.3	14
29	Bivalent Compound 17MN Exerts Neuroprotection through Interaction at Multiple Sites in a Cellular Model of Alzheimer's Disease. *Journal of Alzheimer's Disease*, **2015**, 47, 1021-33	4.3	12
28	Plasma adiponectin levels are correlated with body composition, metabolic profiles, and mitochondrial markers in individuals with chronic spinal cord injury. *Spinal Cord*, **2018**, 56, 863-872	2.7	11
27	A deficiency of apoptosis inducing factor (AIF) in Harlequin mouse heart mitochondria paradoxically reduces ROS generation during ischemia-reperfusion. *Frontiers in Physiology*, **2014**, 5, 271	4.6	11
26	Targeting ER stress and calpain activation to reverse age-dependent mitochondrial damage in the heart. *Mechanisms of Ageing and Development*, **2020**, 192, 111380	5.6	8
25	Mechanistic Insight of Bivalent Compound 21MO as Potential Neuroprotectant for Alzheimer's Disease. *Molecules*, **2016**, 21, 412	4.8	8

24	Cardiomyocyte specific deletion of p53 decreases cell injury during ischemia-reperfusion: Role of Mitochondria. *Free Radical Biology and Medicine*, **2020**, 158, 162-170	7.8	7
23	The Commonalities and Differences in Mitochondrial Dysfunction Between and Myocardial Global Ischemia Rat Heart Models: Implications for Donation After Circulatory Death Research. *Frontiers in Physiology*, **2020**, 11, 681	4.6	6
22	Chronic metformin treatment decreases cardiac injury during ischemia-reperfusion by attenuating endoplasmic reticulum stress with improved mitochondrial function. *Aging*, **2021**, 13, 7828-7845	5.6	6
21	Remote Ischemic Pre-Conditioning Attenuates Adverse Cardiac Remodeling and Mortality Following Doxorubicin Administration in Mice. *JACC: CardioOncology*, **2019**, 1, 221-234	3.8	6
20	Segmentation of 4D MR renography images using temporal dynamics in a level set framework **2008** ,		3
19	Ischemia and reperfusion injury to mitochondria and cardiac function in donation after circulatory death hearts- an experimental study. *PLoS ONE*, **2020**, 15, e0243504	3.7	3
18	Metformin and myocardial ischemia and reperfusion injury: Moving toward "prime time" human use?. *Translational Research*, **2021**, 229, 1-4	11	3
17	Preventing Myocardial Injury Following Non-Cardiac Surgery: A Potential Role for Preoperative Antioxidant Therapy with Ubiquinone. *Antioxidants*, **2021**, 10,	7.1	3
16	A New Strategy to Treat Mitochondrial Disease Without Improvement of Mitochondrial Function?. *EBioMedicine*, **2017**, 18, 19-20	8.8	2
15	Metformin as a modulator of myocardial fibrosis postmyocardial infarction via regulation of cardiomyocyte-fibroblast crosstalk. *Translational Research*, **2018**, 199, 1-3	11	2
14	Calpain-mediated protein targets in cardiac mitochondria following ischemia-reperfusion.. *Scientific Reports*, **2022**, 12, 138	4.9	2
13	Deficiency of Apoptosis Inducing Factor (AIF) decreases complex I activity and increases the ROS generation in isolated cardiac mitochondria. *FASEB Journal*, **2013**, 27, 1085.18	0.9	2
12	Neuromuscular electrical stimulation resistance training enhances oxygen uptake and ventilatory efficiency independent of mitochondrial complexes after spinal cord injury: a randomized clinical trial. *Journal of Applied Physiology*, **2021**, 131, 265-276	3.7	2
11	Cerebral and myocardial mitochondrial injury differ in a rat model of cardiac arrest and cardiopulmonary resuscitation. *Biomedicine and Pharmacotherapy*, **2021**, 140, 111743	7.5	2
10	The mitochondrial electron transport chain contributes to calpain 1 activation during ischemia-reperfusion.. *Biochemical and Biophysical Research Communications*, **2022**, 613, 127-132	3.4	1
9	Mitochondrial Disruption in Cardiovascular Diseases **2018**, 241-267		
8	Visceral Adiposity, Inflammation, and Testosterone Predict Skeletal Muscle Mitochondrial Mass and Activity in Chronic Spinal Cord Injury.. *Frontiers in Physiology*, **2022**, 13, 809845	4.6	
7	Blockade of the proximal, but not the distal, electron transport chain immediately before ischemia protects cardiac mitochondria. *FASEB Journal*, **2007**, 21, A1376	0.9	

6	Activation of Mitochondrial Calpains Contributes to the Selective Degradation of Specific Mitochondrial Proteins. *FASEB Journal*, **2019**, 33, 802.15	0.9
5	Postconditioning during reperfusion attenuates myocardial injury without improved mitochondrial oxidative phosphorylation. *FASEB Journal*, **2009**, 23, 763.5	0.9
4	Acidification inhibits complex I: potential mechanism of cardiac protection at the onset of reperfusion. *FASEB Journal*, **2011**, 25, 1097.22	0.9
3	Reversible, brief blockade of mitochondrial respiration at the onset of reperfusion decreases myocardial injury in aging hearts. *FASEB Journal*, **2011**, 25, 1033.4	0.9
2	Reactive Oxygen Species and Electron Flow Are Needed to Oxidize Cytochrome c at the Methionine Residues. *FASEB Journal*, **2013**, 27, 1085.20	0.9
1	Assessment of mitochondrial respiratory capacity using minimally invasive and noninvasive techniques in persons with spinal cord injury.. *PLoS ONE*, **2022**, 17, e0265141	3.7