Ekhson L Holmuhamedov

List of Publications by Year
in descending order

57 papers	4,074 citations	147566 31 h-index	143772 57 g-index
63 all docs	63 docs citations	63 times ranked	5143 citing authors

#	Article	IF	Citations
1	Synchronization of calcium waves by mitochondrial substrates in Xenopus laevis oocytes. Nature, 1995, 377, 438-441.	13.7	417
2	Voltage-dependent anion channel (VDAC) as mitochondrial governatorâ€"Thinking outside the box. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2006, 1762, 181-190.	1.8	377
3	ATP-sensitive K+channel openers prevent Ca2+overload in rat cardiac mitochondria. Journal of Physiology, 1999, 519, 347-360.	1.3	323
4	Bactericidal Efficacy of Nitric Oxide-Releasing Silica Nanoparticles. ACS Nano, 2008, 2, 235-246.	7.3	307
5	Human Endothelial Progenitor Cells Tolerate Oxidative Stress Due to Intrinsically High Expression of Manganese Superoxide Dismutase. Arteriosclerosis, Thrombosis, and Vascular Biology, 2004, 24, 2021-2027.	1.1	222
6	VDAC regulation: role of cytosolic proteins and mitochondrial lipids. Journal of Bioenergetics and Biomembranes, 2008, 40, 163-170.	1.0	202
7	Cytotoxicity of Polypropylenimine Dendrimer Conjugates on Cultured Endothelial Cells. Biomacromolecules, 2007, 8, 3853-3859.	2.6	148
8	Energetic communication between mitochondria and nucleus directed by catalyzed phosphotransfer. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 10156-10161.	3.3	143
9	Mitochondrial calcium spiking: A transduction mechanism based on calcium-induced permeability transition involved in cell calcium signalling. FEBS Letters, 1994, 348, 211-215.	1.3	141
10	Aging-induced alterations in gene transcripts and functional activity of mitochondrial oxidative phosphorylation complexes in the heart. Mechanisms of Ageing and Development, 2008, 129, 304-312.	2.2	125
11	Mitochondrial Protease ClpP is a Target for the Anticancer Compounds ONC201 and Related Analogues. ACS Chemical Biology, 2019, 14, 1020-1029.	1.6	117
12	Minocycline and N-methyl-4-isoleucine cyclosporin (NIM811) mitigate storage/reperfusion injury after rat liver transplantation through suppression of the mitochondrial permeability transition. Hepatology, 2008, 47, 236-246.	3.6	100
13	Increased calcium vulnerability of senescent cardiac mitochondria: protective role for a mitochondrial potassium channel opener. Mechanisms of Ageing and Development, 2001, 122, 1073-1086.	2.2	95
14	Targeting nucleotide-requiring enzymes: implications for diazoxide-induced cardioprotection. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 284, H1048-H1056.	1.5	92
15	Potassium channel openers are uncoupling protonophores: implication in cardioprotection. FEBS Letters, 2004, 568, 167-170.	1.3	82
16	Diazoxide protects mitochondria from anoxic injury: Implications for myopreservation. Journal of Thoracic and Cardiovascular Surgery, 2001, 121, 298-306.	0.4	78
17	Suppression of human tumor cell proliferation through mitochondrial targeting. FASEB Journal, 2002, 16, 1010-1016.	0.2	70
18	TGF-Î²1-Mediated Differentiation of Fibroblasts Is Associated with Increased Mitochondrial Content and Cellular Respiration. PLoS ONE, 2015, 10, e0123046.	1.1	69

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19	Closure of VDAC causes oxidative stress and accelerates the Ca2+-induced mitochondrial permeability transition in rat liver mitochondria. Archives of Biochemistry and Biophysics, 2010, 495, 174-181.	1.4	67
20	A model of mitochondrial Ca2+-induced Ca2+ release simulating the Ca2+ oscillations and spikes generated by mitochondria. Biophysical Chemistry, 1998, 72, 111-121.	1.5	66
21	Inhibition of Mitochondrial Respiration as a Source of Adaphostin-induced Reactive Oxygen Species and Cytotoxicity. Journal of Biological Chemistry, 2007, 282, 8860-8872.	1.6	64
22	Minocycline and doxycycline, but not other tetracycline-derived compounds, protect liver cells from chemical hypoxia and ischemia/reperfusion injury by inhibition of the mitochondrial calcium uniporter. Toxicology and Applied Pharmacology, 2013, 273, 172-179.	1.3	63
23	Reduced ischemia/reperfusion injury via glutathione-initiated nitric oxide-releasing dendrimers. Nitric Oxide - Biology and Chemistry, 2010, 22, 30-36.	1.2	56
24	Ethanol exposure decreases mitochondrial outer membrane permeability in cultured rat hepatocytes. Archives of Biochemistry and Biophysics, 2009, 481, 226-233.	1.4	49
25	Cardiac Subsarcolemmal and Interfibrillar Mitochondria Display Distinct Responsiveness to Protection by Diazoxide. PLoS ONE, 2012, 7, e44667.	1.1	48
26	Ethanol Suppresses Ureagenesis in Rat Hepatocytes. Journal of Biological Chemistry, 2012, 287, 7692-7700.	1.6	45
27	Selective downregulation of mitochondrial electron transport chain activity and increased oxidative stress in human atrial fibrillation. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 311, H54-H63.	1.5	44
28	Enhanced store-operated Ca2+ influx and ORAI1 expression in ventricular fibroblasts from human failing heart. Biology Open, 2017, 6, 326-332.	0.6	40
29	Effect of Aging on Mitochondrial Energetics in the Human Atria. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2018, 73, 608-616.	1.7	39
30	Regulation of mitochondrial function by voltage dependent anion channels in ethanol metabolism and the Warburg effect. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 1536-1544.	1.4	38
31	Mathematical model of mitochondrial ionic homeostasis: Three modes of Ca2+ transport. Journal of Theoretical Biology, 2006, 243, 152-169.	0.8	37
32	Restoration of Ca2+-inhibited oxidative phosphorylation in cardiac mitochondria by mitochondrial Ca2+ unloading. Molecular and Cellular Biochemistry, 2001, 220, 135-140.	1.4	32
33	Deletion of mtDNA disrupts mitochondrial function and structure, but not biogenesis. Mitochondrion, 2003, 3, 13-19.	1.6	32
34	Effects of Aging on Cardiac Oxidative Stress and Transcriptional Changes in Pathways of Reactive Oxygen Species Generation and Clearance. Journal of the American Heart Association, 2021, 10, e019948.	1.6	32
35	Mitochondrial KATPChannels: Probing Molecular Identity and Pharmacology. Journal of Molecular and Cellular Cardiology, 2000, 32, 1911-1915.	0.9	21
36	Disruption of mitochondrial activities in rabbit and human hepatocytes by a quinoxalinone anxiolytic and its carboxylic acid metabolite. Toxicology, 1998, 131, 33-47.	2.0	20

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37	Adaphostin and other anticancer drugs quench the fluorescence of mitochondrial potential probes. Cell Death and Differentiation, 2006, 13, 151-159.	5.0	20
38	Noninvasive biomarker-based risk stratification for development of new onset atrial fibrillation after coronary artery bypass surgery. International Journal of Cardiology, 2020, 307, 55-62.	0.8	19
39	Involvement of periodic deacylation-acylation cycles of mitochondrial phospholipids during Sr2+-induced oscillatory ion transport in rat liver mitochondria. Biochimica Et Biophysica Acta - Biomembranes, 1982, 688, 597-604.	1.4	15
40	Decline of Phosphotransfer and Substrate Supply Metabolic Circuits Hinders ATP Cycling in Aging Myocardium. PLoS ONE, 2015, 10, e0136556.	1.1	15
41	Simvastatin reduces TGF-Î²1-induced SMAD2/3-dependent human ventricular fibroblasts differentiation: Role of protein phosphatase activation. International Journal of Cardiology, 2018, 270, 228-236.	0.8	15
42	Isolation of gene-edited cells via knock-in of short glycophosphatidylinositol-anchored epitope tags. Scientific Reports, 2019, 9, 3132.	1.6	15
43	The stoichiometry of ion fluxes during Sr 2+ -induced oscillations in mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 1980, 589, 157-161.	0.5	14
44	Oscillating dissipative structures in mitochondrial suspensions. FEBS Journal, 1986, 158, 543-546.	0.2	14
45	Chamber-specific differences in human cardiac fibroblast proliferation and responsiveness toward simvastatin. American Journal of Physiology - Cell Physiology, 2016, 311, C330-C339.	2.1	12
46	Noninvasive Fluxomics in Mammals by Nuclear Magnetic Resonance Spectroscopy. Methods in Pharmacology and Toxicology, 2012, , 321-392.	0.1	6
47	Effect of pH and proton buffer on oscillations of ion fluxes in rat erythrocytes. FEBS Journal, 1984, 143, 369-371.	0.2	5
48	Lyn regulates creatine uptake in an imatinib-resistant CML cell line. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129507.	1.1	5
49	Aldehyde Products of Ethanol Oxidation and Oxidative Stress Suppress Ureagenic but not Basal Respiration of Cultured Hepatocytes. Biophysical Journal, 2011, 100, 460a.	0.2	4
50	Synthetic peptide TEKKRRETVEREKE derived from ezrin induces differentiation of NIH/3T3 fibroblasts. European Journal of Pharmacology, 2017, 811, 249-259.	1.7	4
51	Minocycline protects against the mitochondria permeability transition after both warm and cold ischemia-reperfusion. Hepatology, 2010, 51, 349-350.	3.6	2
52	¹³C magnetic resonance spectroscopy detection of changes in serine isotopomers reflects changes in mitochondrial redox status. Magnetic Resonance in Medicine, 2012, 68, 671-679.	1.9	2
53	Oscillation of ion fluxes in mammalian erythrocytes. Mechanism of oscillation. FEBS Journal, 1987, 166, 723-726.	0.2	1
54	Rescue of Ca2+-inhibited oxidative phosphorylation by mitochondrial Ca2+ unloading. Journal of Molecular and Cellular Cardiology, 2001, 33, A48.	0.9	0

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55	Mitochondrial potassium channel opener protects senescent cardiac mitochondria from calcium-mediated injury. Journal of Molecular and Cellular Cardiology, 2001, 33, A51.	0.9	0
56	FUNCTIONAL AND STRUCTURAL DIFFERENCES IN FIBROBLASTS FROM ATRIA OF PATIENTS WITH AND WITHOUT ATRIAL FIBRILLATION. Journal of the American College of Cardiology, 2016, 67, 744.	1.2	0
57	Aging-associated susceptibility to stress-induced ventricular arrhythmogenesis is attenuated by tetrodotoxin. Biochemical and Biophysical Research Communications, 2022, 623, 44-50.	1.0	0