

Alexander V Panov

List of Publications by Year in descending order

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34
papers

6,585
citations

331259

21
h-index

454577

30
g-index

35
all docs

35
docs citations

35
times ranked

6978
citing authors

#	ARTICLE	IF	CITATIONS
1	Chronic systemic pesticide exposure reproduces features of Parkinson's disease. <i>Nature Neuroscience</i> , 2000, 3, 1301-1306.	7.1	3,216
2	Early mitochondrial calcium defects in Huntington's disease are a direct effect of polyglutamines. <i>Nature Neuroscience</i> , 2002, 5, 731-736.	7.1	925
3	An <i>In Vitro</i> Model of Parkinson's Disease: Linking Mitochondrial Impairment to Altered α -Synuclein Metabolism and Oxidative Damage. <i>Journal of Neuroscience</i> , 2002, 22, 7006-7015.	1.7	547
4	Complex I and Parkinson's Disease. <i>IUBMB Life</i> , 2001, 52, 135-141.	1.5	305
5	Mechanism of toxicity of pesticides acting at complex I: relevance to environmental etiologies of Parkinson's disease. <i>Journal of Neurochemistry</i> , 2007, 100, 070214184024016-???	2.1	265
6	Rotenone Model of Parkinson Disease. <i>Journal of Biological Chemistry</i> , 2005, 280, 42026-42035.	1.6	244
7	Fatty Acids in Energy Metabolism of the Central Nervous System. <i>BioMed Research International</i> , 2014, 2014, 1-22.	0.9	132
8	Species- and tissue-specific relationships between mitochondrial permeability transition and generation of ROS in brain and liver mitochondria of rats and mice. <i>American Journal of Physiology - Cell Physiology</i> , 2007, 292, C708-C718.	2.1	119
9	In vitro effects of polyglutamine tracts on Ca ²⁺ -dependent depolarization of rat and human mitochondria: relevance to Huntington's disease. <i>Archives of Biochemistry and Biophysics</i> , 2003, 410, 1-6.	1.4	94
10	Ca ²⁺ -induced permeability transition in human lymphoblastoid cell mitochondria from normal and Huntington's disease individuals. <i>Molecular and Cellular Biochemistry</i> , 2005, 269, 143-152.	1.4	88
11	Mg ²⁺ -Control of Respiration in Isolated Rat Liver Mitochondria. <i>Biochemistry</i> , 1996, 35, 12849-12856.	1.2	82
12	Adenine nucleotide translocase as a site of regulation by ADP of the rat liver mitochondria permeability to H ⁺ and K ⁺ ions. <i>Archives of Biochemistry and Biophysics</i> , 1980, 199, 420-426.	1.4	65
13	Independent Modulation of the Activity of α -Ketoglutarate Dehydrogenase Complex by Ca ²⁺ and Mg ²⁺ . <i>Biochemistry</i> , 1996, 35, 427-432.	1.2	62
14	The Neuromediator Glutamate, through Specific Substrate Interactions, Enhances Mitochondrial ATP Production and Reactive Oxygen Species Generation in Nonsynaptic Brain Mitochondria. <i>Journal of Biological Chemistry</i> , 2009, 284, 14448-14456.	1.6	62
15	Quantitative evaluation of the effects of mitochondrial permeability transition pore modifiers on accumulation of calcium phosphate: comparison of rat liver and brain mitochondria. <i>Archives of Biochemistry and Biophysics</i> , 2004, 424, 44-52.	1.4	56
16	Metabolic and functional differences between brain and spinal cord mitochondria underlie different predisposition to pathology. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 300, R844-R854.	0.9	52
17	Bioenergetic and Antiapoptotic Properties of Mitochondria from Cultured Human Prostate Cancer Cell Lines PC-3, DU145 and LNCaP. <i>PLoS ONE</i> , 2013, 8, e72078.	1.1	46
18	Cardiolipin, Peroxyl Radicals, and Lipid Peroxidation in Mitochondrial Dysfunctions and Aging. <i>Oxidative Medicine and Cellular Longevity</i> , 2020, 2020, 1-14.	1.9	45

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19	Respiration and ROS production in brain and spinal cord mitochondria of transgenic rats with mutant G93a Cu/Zn-superoxide dismutase gene. <i>Neurobiology of Disease</i> , 2011, 44, 53-62.	2.1	30
20	In Vitro Effects of Cholesterol β -D-Glucoside, Cholesterol and Cycad Phytosterol Glucosides on Respiration and Reactive Oxygen Species Generation in Brain Mitochondria. <i>Journal of Membrane Biology</i> , 2010, 237, 71-77.	1.0	23
21	Ca ²⁺ -Dependent Permeability Transition and Complex I Activity in Lymphoblast Mitochondria from Normal Individuals and Patients with Huntington's or Alzheimer's Disease. <i>Annals of the New York Academy of Sciences</i> , 1999, 893, 365-368.	1.8	22
22	Response: Parkinson's disease, pesticides and mitochondrial dysfunction. <i>Trends in Neurosciences</i> , 2001, 24, 247.	4.2	18
23	Determination of mitochondrial metabolic phenotype through investigation of the intrinsic inhibition of succinate dehydrogenase. <i>Analytical Biochemistry</i> , 2018, 552, 30-37.	1.1	17
24	Mitochondrial Isolevuglandins Contribute to Vascular Oxidative Stress and Mitochondria-Targeted Scavenger of Isolevuglandins Reduces Mitochondrial Dysfunction and Hypertension. <i>Hypertension</i> , 2020, 76, 1980-1991.	1.3	17
25	Physiological Levels of Nitric Oxide Diminish Mitochondrial Superoxide. Potential Role of Mitochondrial Dinitrosyl Iron Complexes and Nitrosothiols. <i>Frontiers in Physiology</i> , 2017, 8, 907.	1.3	14
26	Targeting of reactive isolevuglandins in mitochondrial dysfunction and inflammation. <i>Redox Biology</i> , 2019, 26, 101300.	3.9	13
27	Metabolic Syndrome and β -Oxidation of Long-Chain Fatty Acids in the Brain, Heart, and Kidney Mitochondria. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4047.	1.8	11
28	Interstrain differences in organization of metabolic processes in the rat liver. The dynamics of changes in the contents of adenine nucleotides, glycogen and fatty acyl-CoAs in the course of short-term starvation in the livers of rats of wistar, august and wag strains. <i>International Journal of Biochemistry & Cell Biology</i> , 1991, 23, 875-879.	0.8	4
29	Mitochondria: Aging, Metabolic Syndrome and Cardiovascular Diseases. Formation of a New Paradigm. <i>Acta Biomedica Scientifica</i> , 2020, 5, 33-44.	0.1	3
30	Role of Neuronal Mitochondrial Metabolic Phenotype in Pathogenesis of ALS. , 0, , .		2
31	The Origin of Mitochondria and their Role in the Evolution of Life and Human Health. <i>Acta Biomedica Scientifica</i> , 2020, 5, 12-25.	0.1	2
32	Energy Metabolism Brain Energy Metabolism. , 2021, , 286-301.		1
33	Metabolic Syndrome as the First Stage of Eldership; the Beginning of Real Aging. , 0, , .		1
34	Structural and Metabolic Determinants of Mitochondrial Superoxide and its Detection Methods. , 2014, , 295-322.		0