

Andrey V Kozlov

List of Publications by Year in descending order

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66
papers

3,918
citations

136740

32
h-index

123241

61
g-index

69
all docs

69
docs citations

69
times ranked

6041
citing authors

#	ARTICLE	IF	CITATIONS
1	Systemic Effects of mitoTEMPO upon Lipopolysaccharide Challenge Are Due to Its Antioxidant Part, While Local Effects in the Lung Are Due to Triphenylphosphonium. <i>Antioxidants</i> , 2022, 11, 323.	2.2	4
2	Tissue Damage, Not Infection, Triggers Hepatic Unfolded Protein Response in an Experimental Rat Peritonitis Model. <i>Frontiers in Medicine</i> , 2022, 9, 785285.	1.2	1
3	Pathogenesis of Multiple Organ Failure: The Impact of Systemic Damage to Plasma Membranes. <i>Frontiers in Medicine</i> , 2022, 9, 806462.	1.2	10
4	Cerebral nitric oxide and mitochondrial function in patients suffering aneurysmal subarachnoid hemorrhage—a translational approach. <i>Acta Neurochirurgica</i> , 2021, 163, 139-149.	0.9	9
5	Effect of Diphenyleneiodonium Chloride on Intracellular Reactive Oxygen Species Metabolism with Emphasis on NADPH Oxidase and Mitochondria in Two Therapeutically Relevant Human Cell Types. <i>Pharmaceutics</i> , 2021, 13, 10.	2.0	7
6	Circulating miRNAs Associated With ER Stress and Organ Damage in a Preclinical Model of Trauma Hemorrhagic Shock. <i>Frontiers in Medicine</i> , 2020, 7, 568096.	1.2	8
7	Mitochondria in Health and Diseases. <i>Cells</i> , 2020, 9, 1177.	1.8	94
8	Role of Heme Oxygenase as a Modulator of Heme-Mediated Pathways. <i>Antioxidants</i> , 2019, 8, 475.	2.2	59
9	Critical Impact of Human Amniotic Membrane Tension on Mitochondrial Function and Cell Viability In Vitro. <i>Cells</i> , 2019, 8, 1641.	1.8	7
10	Crosstalk between inflammatory mediators and endoplasmic reticulum stress in liver diseases. <i>Cytokine</i> , 2019, 124, 154577.	1.4	54
11	Cellular and Site-Specific Mitochondrial Characterization of Vital Human Amniotic Membrane. <i>Cell Transplantation</i> , 2018, 27, 3-11.	1.2	20
12	Reduction of nitrosative stress by methane: Neuroprotection through xanthine oxidoreductase inhibition in a rat model of mesenteric ischemia-reperfusion. <i>Free Radical Biology and Medicine</i> , 2018, 120, 160-169.	1.3	10
13	Oxygen Tension Strongly Influences Metabolic Parameters and the Release of Interleukin-6 of Human Amniotic Mesenchymal Stromal Cells In Vitro. <i>Stem Cells International</i> , 2018, 2018, 1-11.	1.2	10
14	Organ-Specific Oxidative Events under Restrictive Versus Full Reperfusion Following Hemorrhagic Traumatic Shock in Rats. <i>Molecules</i> , 2018, 23, 2195.	1.7	0
15	Editorial: Interaction of Gas Messengers With Mitochondria in Health and Disease. <i>Frontiers in Medicine</i> , 2018, 5, 259.	1.2	0
16	Thiamine preserves mitochondrial function in a rat model of traumatic brain injury, preventing inactivation of the 2-oxoglutarate dehydrogenase complex. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018, 1859, 925-931.	0.5	42
17	Alterations in nitric oxide homeostasis during traumatic brain injury. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 2627-2632.	1.8	42
18	Impact of mitochondrial nitrite reductase on hemodynamics and myocardial contractility. <i>Scientific Reports</i> , 2017, 7, 12092.	1.6	7

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19	EPR analysis of extra- and intracellular nitric oxide in liver biopsies. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 2372-2380.	1.9	7
20	Pathological Impact of the Interaction of NO and CO with Mitochondria in Critical Care Diseases. <i>Frontiers in Medicine</i> , 2017, 4, 223.	1.2	9
21	Mitochondria-Targeted Antioxidants SkQ1 and MitoTEMPO Failed to Exert a Long-Term Beneficial Effect in Murine Polymicrobial Sepsis. <i>Oxidative Medicine and Cellular Longevity</i> , 2017, 2017, 1-14.	1.9	32
22	Interaction between Mitochondrial Reactive Oxygen Species, Heme Oxygenase, and Nitric Oxide Synthase Stimulates Phagocytosis in Macrophages. <i>Frontiers in Medicine</i> , 2017, 4, 252.	1.2	26
23	Mitochondria-mediated pathways of organ failure upon inflammation. <i>Redox Biology</i> , 2017, 13, 170-181.	3.9	94
24	Biological Activities of Reactive Oxygen and Nitrogen Species: Oxidative Stress versus Signal Transduction. <i>Biomolecules</i> , 2015, 5, 472-484.	1.8	474
25	Heme Degradation by Heme Oxygenase Protects Mitochondria but Induces ER Stress via Formed Bilirubin. <i>Biomolecules</i> , 2015, 5, 679-701.	1.8	20
26	Why do they die? Comparison of selected aspects of organ injury and dysfunction in mice surviving and dying in acute abdominal sepsis. <i>Intensive Care Medicine Experimental</i> , 2015, 3, 48.	0.9	29
27	The cytoprotective effect of nitrite is based on the formation of dinitrosyl iron complexes. <i>Free Radical Biology and Medicine</i> , 2015, 89, 300-310.	1.3	18
28	Different metabolic activity in placental and reflected regions of the human amniotic membrane. <i>Placenta</i> , 2015, 36, 1329-1332.	0.7	44
29	Vicious Inducible Nitric Oxide Synthase-Mitochondrial Reactive Oxygen Species Cycle Accelerates Inflammatory Response and Causes Liver Injury in Rats. <i>Antioxidants and Redox Signaling</i> , 2015, 22, 572-586.	2.5	45
30	Heme Oxygenase-1 Drives Metaflammation and Insulin Resistance in Mouse and Man. <i>Cell</i> , 2014, 158, 25-40.	13.5	243
31	Impact of mitochondria on nitrite metabolism in HL-1 cardiomyocytes. <i>Frontiers in Physiology</i> , 2013, 4, 101.	1.3	4
32	Experimental data suggesting that inflammation mediated rat liver mitochondrial dysfunction results from secondary hypoxia rather than from direct effects of inflammatory mediators. <i>Frontiers in Physiology</i> , 2013, 4, 138.	1.3	14
33	Impairment of endoplasmic reticulum in liver as an early consequence of the systemic inflammatory response in rats. <i>American Journal of Physiology - Renal Physiology</i> , 2012, 303, G1373-G1383.	1.6	13
34	Growth-hormone-induced signal transducer and activator of transcription 5 signaling causes gigantism, inflammation, and premature death but protects mice from aggressive liver cancer. <i>Hepatology</i> , 2012, 55, 941-952.	3.6	42
35	Transient Increase of Free Iron in Rat Livers Following Hemorrhagic-Traumatic Shock and Reperfusion Is Independent of Heme Oxygenase 1 Upregulation. <i>Shock</i> , 2011, 36, 501-509.	1.0	10
36	Mitochondrial ROS production under cellular stress: comparison of different detection methods. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 2383-2390.	1.9	150

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37	Mitochondrial dysfunction and biogenesis: do ICU patients die from mitochondrial failure?. <i>Annals of Intensive Care</i> , 2011, 1, 41.	2.2	56
38	Impairment of hepatic growth hormone and glucocorticoid receptor signaling causes steatosis and hepatocellular carcinoma in mice. <i>Hepatology</i> , 2011, 54, 1398-1409.	3.6	100
39	Neither nitrite nor nitric oxide mediate toxic effects of nitroglycerin on mitochondria. <i>Journal of Biochemical and Molecular Toxicology</i> , 2011, 25, 297-302.	1.4	9
40	RONS formation under restrictive reperfusion does not affect organ dysfunction early after hemorrhage and trauma. <i>Shock</i> , 2010, 34, 384-389.	1.0	6
41	REPERFUSION DOES NOT INDUCE OXIDATIVE STRESS BUT SUSTAINED ENDOPLASMIC RETICULUM STRESS IN LIVERS OF RATS SUBJECTED TO TRAUMATIC-HEMORRHAGIC SHOCK. <i>Shock</i> , 2010, 33, 289-298.	1.0	37
42	Peritoneal Inflammation in Pigs is Associated with Early Mitochondrial Dysfunction in Liver and Kidney. <i>Inflammation</i> , 2010, 33, 295-305.	1.7	21
43	Nitrite as regulator of hypoxic signaling in mammalian physiology. <i>Medicinal Research Reviews</i> , 2009, 29, 683-741.	5.0	373
44	Intracellular signaling pathways control mitochondrial events associated with the development of ischemia/ reperfusion-associated damage. <i>Transplant International</i> , 2009, 22, 922-930.	0.8	41
45	Endotoxin causes functional endoplasmic reticulum failure, possibly mediated by mitochondria. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2009, 1792, 521-530.	1.8	48
46	A novel endotoxin-induced pathway: upregulation of heme oxygenase 1, accumulation of free iron, and free iron-mediated mitochondrial dysfunction. <i>Laboratory Investigation</i> , 2008, 88, 70-77.	1.7	96
47	Illumination with blue light reactivates respiratory activity of mitochondria inhibited by nitric oxide, but not by glycerol trinitrate. <i>Archives of Biochemistry and Biophysics</i> , 2008, 471, 109-115.	1.4	40
48	Antimycin A and lipopolysaccharide cause the leakage of superoxide radicals from rat liver mitochondria. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2008, 1782, 280-285.	1.8	35
49	Opposite effects of endotoxin on mitochondrial and endoplasmic reticulum functions. <i>Biochemical and Biophysical Research Communications</i> , 2007, 352, 91-96.	1.0	21
50	Blue Laser Light Increases Perfusion of a Skin Flap Via Release of Nitric Oxide from Hemoglobin. <i>Molecular Medicine</i> , 2007, 13, 22-29.	1.9	71
51	Proteome analysis of rat liver mitochondria reveals a possible compensatory response to endotoxic shock. <i>FEBS Letters</i> , 2006, 580, 1257-1262.	1.3	17
52	Mitochondria produce reactive nitrogen species via an arginine-independent pathway. <i>Free Radical Research</i> , 2006, 40, 369-378.	1.5	39
53	Different effects of endotoxic shock on the respiratory function of liver and heart mitochondria in rats. <i>American Journal of Physiology - Renal Physiology</i> , 2006, 290, G543-G549.	1.6	46
54	Release and hemodynamic influence of nitro-glycerine-derived nitric oxide in endotoxemic rats. <i>Vascular Pharmacology</i> , 2005, 43, 411-414.	1.0	8

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55	Combination of Iron Overload Plus Ethanol and Ischemia Alone Give Rise to the Same Endogenous Free Iron Pool. <i>BioMetals</i> , 2005, 18, 567-575.	1.8	16
56	Mechanisms of Vasodilatation Induced by Nitrite Instillation in Intestinal Lumen: Possible Role of Hemoglobin. <i>Antioxidants and Redox Signaling</i> , 2005, 7, 515-521.	2.5	39
57	Epr analysis reveals three tissues responding to endotoxin by increased formation of reactive oxygen and nitrogen species. <i>Free Radical Biology and Medicine</i> , 2003, 34, 1555-1562.	1.3	67
58	Various intracellular compartments cooperate in the release of nitric oxide from glycerol trinitrate in liver. <i>British Journal of Pharmacology</i> , 2003, 139, 989-997.	2.7	60
59	Nitric oxide synthase inhibitors affect nitric oxide synthesis in normoxic but not in ischemic organs during intestinal ischemia and early reperfusion. <i>Translational Research</i> , 2002, 140, 303-311.	2.4	7
60	Experimental evidence suggesting that nitric oxide diffuses from tissue into blood but not from blood into tissue. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2001, 1536, 177-184.	1.8	13
61	Antioxidant Mechanisms of Nitric Oxide Against Iron-Catalyzed Oxidative Stress in Cells. <i>Antioxidants and Redox Signaling</i> , 2001, 3, 189-202.	2.5	58
62	Nitrite reductase activity is a novel function of mammalian mitochondria. <i>FEBS Letters</i> , 1999, 454, 127-130.	1.3	312
63	Electron paramagnetic resonance characterization of rat neuronal nitric oxide production ex vivo. <i>Methods in Enzymology</i> , 1996, 268, 229-236.	0.4	32
64	Ex vivo demonstration of nitric oxide in the rat brain: effects of intrastriatal endothelin-1 injection. <i>Neuroscience Letters</i> , 1995, 196, 140-144.	1.0	9
65	Simultaneous determination of Fe(III) and Fe(II) in water solutions and tissue homogenates using desferal and 1,10-phenanthroline. <i>Free Radical Biology and Medicine</i> , 1993, 15, 565-574.	1.3	74
66	A Barrier to Defend - Models of Pulmonary Barrier to Study Acute Inflammatory Diseases. <i>Frontiers in Immunology</i> , 0, 13, .	2.2	7