Andrey V Kozlov

List of Publications by Year
in descending order

66	3,918	136740	123241
papers	citations	32 h-index	61 g-index

69	69	69	6041
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Biological Activities of Reactive Oxygen and Nitrogen Species: Oxidative Stress versus Signal Transduction. Biomolecules, 2015, 5, 472-484.	1.8	474
2	Nitrite as regulator of hypoxic signaling in mammalian physiology. Medicinal Research Reviews, 2009, 29, 683-741.	5.0	373
3	Nitrite reductase activity is a novel function of mammalian mitochondria. FEBS Letters, 1999, 454, 127-130.	1.3	312
4	Heme Oxygenase-1 Drives Metaflammation and Insulin Resistance in Mouse and Man. Cell, 2014, 158, 25-40.	13.5	243
5	Mitochondrial ROS production under cellular stress: comparison of different detection methods. Analytical and Bioanalytical Chemistry, 2011, 400, 2383-2390.	1.9	150
6	Impairment of hepatic growth hormone and glucocorticoid receptor signaling causes steatosis and hepatocellular carcinoma in mice. Hepatology, 2011, 54, 1398-1409.	3.6	100
7	A novel endotoxin-induced pathway: upregulation of heme oxygenase 1, accumulation of free iron, and free iron-mediated mitochondrial dysfunction. Laboratory Investigation, 2008, 88, 70-77.	1.7	96
8	Mitochondria in Health and Diseases. Cells, 2020, 9, 1177.	1.8	94
9	Mitochondria-meditated pathways of organ failure upon inflammation. Redox Biology, 2017, 13, 170-181.	3.9	94
10	Simultaneous determination of Fe(III) and Fe(II) in water solutions and tissue homogenates using desferal and 1,10-phenanthroline. Free Radical Biology and Medicine, 1993, 15, 565-574.	1.3	74
11	Blue Laser Light Increases Perfusion of a Skin Flap Via Release of Nitric Oxide from Hemoglobin. Molecular Medicine, 2007, 13, 22-29.	1.9	71
12	Epr analysis reveals three tissues responding to endotoxin by increased formation of reactive oxygen and nitrogen species. Free Radical Biology and Medicine, 2003, 34, 1555-1562.	1.3	67
13	Various intracellular compartments cooperate in the release of nitric oxide from glycerol trinitrate in liver. British Journal of Pharmacology, 2003, 139, 989-997.	2.7	60
14	Role of Heme Oxygenase as a Modulator of Heme-Mediated Pathways. Antioxidants, 2019, 8, 475.	2.2	59
15	Antioxidant Mechanisms of Nitric Oxide Against Iron-Catalyzed Oxidative Stress in Cells. Antioxidants and Redox Signaling, 2001, 3, 189-202.	2.5	58
16	Mitochondrial dysfunction and biogenesis: do ICU patients die from mitochondrial failure?. Annals of Intensive Care, 2011, 1, 41.	2.2	56
17	Crosstalk between inflammatory mediators and endoplasmic reticulum stress in liver diseases. Cytokine, 2019, 124, 154577.	1.4	54
18	Endotoxin causes functional endoplasmic reticulum failure, possibly mediated by mitochondria. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2009, 1792, 521-530.	1.8	48

#	Article	IF	Citations
19	Different effects of endotoxic shock on the respiratory function of liver and heart mitochondria in rats. American Journal of Physiology - Renal Physiology, 2006, 290, G543-G549.	1.6	46
20	Vicious Inducible Nitric Oxide Synthase-Mitochondrial Reactive Oxygen Species Cycle Accelerates Inflammatory Response and Causes Liver Injury in Rats. Antioxidants and Redox Signaling, 2015, 22, 572-586.	2.5	45
21	Different metabolic activity in placental and reflected regions of the human amniotic membrane. Placenta, 2015, 36, 1329-1332.	0.7	44
22	Growth-hormoneâ€“induced signal transducer and activator of transcription 5 signaling causes gigantism, inflammation, and premature death but protects mice from aggressive liver cancer. Hepatology, 2012, 55, 941-952.	3.6	42
23	Alterations in nitric oxide homeostasis during traumatic brain injury. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2017, 1863, 2627-2632.	1.8	42
24	Thiamine preserves mitochondrial function in a rat model of traumatic brain injury, preventing inactivation of the 2-oxoglutarate dehydrogenase complex. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 925-931.	0.5	42
25	Intracellular signaling pathways control mitochondrial events associated with the development of ischemia/ reperfusion-associated damage. Transplant International, 2009, 22, 922-930.	0.8	41
26	Illumination with blue light reactivates respiratory activity of mitochondria inhibited by nitric oxide, but not by glycerol trinitrate. Archives of Biochemistry and Biophysics, 2008, 471, 109-115.	1.4	40
27	Mechanisms of Vasodilatation Induced by Nitrite Instillation in Intestinal Lumen: Possible Role of Hemoglobin. Antioxidants and Redox Signaling, 2005, 7, 515-521.	2.5	39
28	Mitochondria produce reactive nitrogen species via an arginine-independent pathway. Free Radical Research, 2006, 40, 369-378.	1.5	39
29	REPERFUSION DOES NOT INDUCE OXIDATIVE STRESS BUT SUSTAINED ENDOPLASMIC RETICULUM STRESS IN LIVERS OF RATS SUBJECTED TO TRAUMATIC-HEMORRHAGIC SHOCK. Shock, 2010, 33, 289-298.	1.0	37
30	Antimycin A and lipopolysaccharide cause the leakage of superoxide radicals from rat liver mitochondria. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2008, 1782, 280-285.	1.8	35
31	Electron paramagnetic resonance characterization of rat neuronal nitric oxide production ex vivo. Methods in Enzymology, 1996, 268, 229-236.	0.4	32
32	Mitochondria-Targeted Antioxidants SkQ1 and MitoTEMPO Failed to Exert a Long-Term Beneficial Effect in Murine Polymicrobial Sepsis. Oxidative Medicine and Cellular Longevity, 2017, 2017, 1-14.	1.9	32
33	Why do they die? Comparison of selected aspects of organ injury and dysfunction in mice surviving and dying in acute abdominal sepsis. Intensive Care Medicine Experimental, 2015, 3, 48.	0.9	29
34	Interaction between Mitochondrial Reactive Oxygen Species, Heme Oxygenase, and Nitric Oxide Synthase Stimulates Phagocytosis in Macrophages. Frontiers in Medicine, 2017, 4, 252.	1.2	26
35	Opposite effects of endotoxin on mitochondrial and endoplasmic reticulum functions. Biochemical and Biophysical Research Communications, 2007, 352, 91-96.	1.0	21
36	Peritoneal Inflammation in Pigs is Associated with Early Mitochondrial Dysfunction in Liver and Kidney. Inflammation, 2010, 33, 295-305.	1.7	21

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37	Heme Degradation by Heme Oxygenase Protects Mitochondria but Induces ER Stress via Formed Bilirubin. Biomolecules, 2015, 5, 679-701.	1.8	20
38	Cellular and Site-Specific Mitochondrial Characterization of Vital Human Amniotic Membrane. Cell Transplantation, 2018, 27, 3-11.	1.2	20
39	The cytoprotective effect of nitrite is based on the formation of dinitrosyl iron complexes. Free Radical Biology and Medicine, 2015, 89, 300-310.	1.3	18
40	Proteome analysis of rat liver mitochondria reveals a possible compensatory response to endotoxic shock. FEBS Letters, 2006, 580, 1257-1262.	1.3	17
41	Combination of Iron Overload Plus Ethanol and Ischemia Alone Give Rise to the Same Endogenous Free Iron Pool. BioMetals, 2005, 18, 567-575.	1.8	16
42	Experimental data suggesting that inflammation mediated rat liver mitochondrial dysfunction results from secondary hypoxia rather than from direct effects of inflammatory mediators. Frontiers in Physiology, 2013, 4, 138.	1.3	14
43	Experimental evidence suggesting that nitric oxide diffuses from tissue into blood but not from blood into tissue. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2001, 1536, 177-184.	1.8	13
44	Impairment of endoplasmic reticulum in liver as an early consequence of the systemic inflammatory response in rats. American Journal of Physiology - Renal Physiology, 2012, 303, G1373-G1383.	1.6	13
45	Transient Increase of Free Iron in Rat Livers Following Hemorrhagic-Traumatic Shock and Reperfusion Is Independent of Heme Oxygenase 1 Upregulation. Shock, 2011, 36, 501-509.	1.0	10
46	Reduction of nitrosative stress by methane: Neuroprotection through xanthine oxidoreductase inhibition in a rat model of mesenteric ischemia-reperfusion. Free Radical Biology and Medicine, 2018, 120, 160-169.	1.3	10
47	Oxygen Tension Strongly Influences Metabolic Parameters and the Release of Interleukin-6 of Human Amniotic Mesenchymal Stromal Cells In Vitro. Stem Cells International, 2018, 2018, 1-11.	1.2	10
48	Pathogenesis of Multiple Organ Failure: The Impact of Systemic Damage to Plasma Membranes. Frontiers in Medicine, 2022, 9, 806462.	1.2	10
49	Ex vivo demonstration of nitric oxide in the rat brain: effects of intrastriatal endothelin-1 injection. Neuroscience Letters, 1995, 196, 140-144.	1.0	9
50	Neither nitrite nor nitric oxide mediate toxic effects of nitroglycerin on mitochondria. Journal of Biochemical and Molecular Toxicology, 2011, 25, 297-302.	1.4	9
51	Pathological Impact of the Interaction of NO and CO with Mitochondria in Critical Care Diseases. Frontiers in Medicine, 2017, 4, 223.	1.2	9
52	Cerebral nitric oxide and mitochondrial function in patients suffering aneurysmal subarachnoid hemorrhageâ€"a translational approach. Acta Neurochirurgica, 2021, 163, 139-149.	0.9	9
53	Release and hemodynamic influence of nitro-glycerine-derived nitric oxide in endotoxemic rats. Vascular Pharmacology, 2005, 43, 411-414.	1.0	8
54	Circulating miRNAs Associated With ER Stress and Organ Damage in a Preclinical Model of Trauma Hemorrhagic Shock. Frontiers in Medicine, 2020, 7, 568096.	1.2	8

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55	Nitric oxide synthase inhibitors affect nitric oxide synthesis in normoxic but not in ischemic organs during intestinal ischemia and early reperfusion. Translational Research, 2002, 140, 303-311.	2.4	7
56	Impact of mitochondrial nitrite reductase on hemodynamics and myocardial contractility. Scientific Reports, 2017, 7, 12092.	1.6	7
57	EPR analysis of extra- and intracellular nitric oxide in liver biopsies. Magnetic Resonance in Medicine, 2017, 77, 2372-2380.	1.9	7
58	Critical Impact of Human Amniotic Membrane Tension on Mitochondrial Function and Cell Viability In Vitro. Cells, 2019, 8, 1641.	1.8	7
59	Effect of Diphenyleneiodonium Chloride on Intracellular Reactive Oxygen Species Metabolism with Emphasis on NADPH Oxidase and Mitochondria in Two Therapeutically Relevant Human Cell Types. Pharmaceutics, 2021, 13, 10.	2.0	7
60	A Barrier to Defend - Models of Pulmonary Barrier to Study Acute Inflammatory Diseases. Frontiers in Immunology, 0, 13, .	2.2	7
61	RONS formation under restrictive reperfusion does not affect organ dysfunction early after hemorrhage and trauma. Shock, 2010, 34, 384-389.	1.0	6
62	Impact of mitochondria on nitrite metabolism in HL-1 cardiomyocytes. Frontiers in Physiology, 2013, 4, 101.	1.3	4
63	Systemic Effects of mitoTEMPO upon Lipopolysaccharide Challenge Are Due to Its Antioxidant Part, While Local Effects in the Lung Are Due to Triphenylphosphonium. Antioxidants, 2022, 11, 323.	2.2	4
64	Tissue Damage, Not Infection, Triggers Hepatic Unfolded Protein Response in an Experimental Rat Peritonitis Model. Frontiers in Medicine, 2022, 9, 785285.	1.2	1
65	Organ-Specific Oxidative Events under Restrictive Versus Full Reperfusion Following Hemorrhagic Traumatic Shock in Rats. Molecules, 2018, 23, 2195.	1.7	0
66	Editorial: Interaction of Gas Messengers With Mitochondria in Health and Disease. Frontiers in Medicine, 2018, 5, 259.	1.2	0