

# Konstantin Lyamzayev

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

3,239  
citations

361413

20  
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243625

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45  
all docs

45  
docs citations

45  
times ranked

6389  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (4th) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50,742 1,430	9.1	10
2	Mitochondria-targeted plastoquinone derivatives as tools to interrupt execution of the aging program. 1. Cationic plastoquinone derivatives: Synthesis and in vitro studies. Biochemistry (Moscow), 2008, 73, 1273-1287.	1.5	267
3	Mitochondrial-Targeted Plastoquinone Derivatives. Effect on Senescence and Acute Age-Related Pathologies. Current Drug Targets, 2011, 12, 800-826.	2.1	147
4	Mild depolarization of the inner mitochondrial membrane is a crucial component of an anti-aging program. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6491-6501.	7.1	122
5	Production of reactive oxygen species in mitochondria of HeLa cells under oxidative stress. Biochimica Et Biophysica Acta - Bioenergetics, 2006, 1757, 525-534.	1.0	112
6	Effect of oxidative stress on dynamics of mitochondrial reticulum. Biochimica Et Biophysica Acta - Bioenergetics, 2006, 1757, 518-524.	1.0	111
7	Prevention of cardiolipin oxidation and fatty acid cycling as two antioxidant mechanisms of cationic derivatives of plastoquinone (SkQs). Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 878-889.	1.0	104
8	Effects of the mitochondria-targeted antioxidant SkQ1 on lifespan of rodents. Aging, 2011, 3, 1110-1119.	3.1	99
9	Novel mechanism of elimination of malfunctioning mitochondria (mitoptosis): Formation of mitoptotic bodies and extrusion of mitochondrial material from the cell. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 817-825.	1.0	97
10	Induction of autophagy by depolarization of mitochondria. Autophagy, 2018, 14, 921-924.	9.1	78
11	In search of novel highly active mitochondria-targeted antioxidants: Thymoquinone and its cationic derivatives. FEBS Letters, 2013, 587, 2018-2024.	2.8	57
12	Mitochondria-targeted antioxidants as highly effective antibiotics. Scientific Reports, 2017, 7, 1394.	3.3	52
13	Novel Mitochondria-Targeted Antioxidants: Plastoquinone Conjugated with Cationic Plant Alkaloids Berberine and Palmatine. Pharmaceutical Research, 2011, 28, 2883-2895.	3.5	49
14	Long-distance apoptotic killing of cells is mediated by hydrogen peroxide in a mitochondrial ROS-dependent fashion. Cell Death and Differentiation, 2005, 12, 1442-1444.	11.2	47
15	Mitochondria as source of reactive oxygen species under oxidative stress. Study with novel mitochondria-targeted antioxidants - the "Skulachev-ion" derivatives. Biochemistry (Moscow), 2010, 75, 123-129.	1.5	41
16	Selective elimination of mitochondria from living cells induced by inhibitors of bioenergetic functions. Biochemical Society Transactions, 2004, 32, 1070-1071.	3.4	34
17	Hydrogen peroxide produced inside mitochondria takes part in cell-to-cell transmission of apoptotic signal. Biochemistry (Moscow), 2006, 71, 60-67.	1.5	28
18	Reactive oxygen species produced in mitochondria are involved in age-dependent changes of hematopoietic and mesenchymal progenitor cells in mice. A study with the novel mitochondria-targeted antioxidant SkQ1. Mechanisms of Ageing and Development, 2010, 131, 415-421.	4.6	25

#	ARTICLE	IF	CITATIONS
19	Ordered Clusters of the Complete Oxidative Phosphorylation System in Cardiac Mitochondria. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1462.	4.1	23
20	Preservation of native properties of mitochondria in rat liver homogenate. <i>Mitochondrion</i> , 2001, 1, 249-267.	3.4	22
21	Radioprotective Effects of Mitochondria-Targeted Antioxidant SkQR1. <i>Radiation Research</i> , 2015, 183, 64-71.	1.5	21
22	Derivatives of the cationic plant alkaloids berberine and palmatine amplify protonophorous activity of fatty acids in model membranes and mitochondria. <i>Mitochondrion</i> , 2013, 13, 520-525.	3.4	19
23	Mitochondrial localization of SESN2. <i>PLoS ONE</i> , 2020, 15, e0226862.	2.5	19
24	Three rare pathogenic mtDNA substitutions in LHON patients with low heteroplasmy. <i>Mitochondrion</i> , 2020, 50, 139-144.	3.4	18
25	Fluorescein Derivatives as Antibacterial Agents Acting via Membrane Depolarization. <i>Biomolecules</i> , 2020, 10, 309.	4.0	18
26	Novel Penetrating Cations for Targeting Mitochondria. <i>Current Pharmaceutical Design</i> , 2013, 19, 2795-2806.	1.9	18
27	Low concentrations of uncouplers of oxidative phosphorylation prevent inflammatory activation of endothelial cells by tumor necrosis factor. <i>Biochemistry (Moscow)</i> , 2015, 80, 610-619.	1.5	17
28	MitoCLOx: A Novel Mitochondria-Targeted Fluorescent Probe for Tracing Lipid Peroxidation. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-11.	4.0	15
29	Bioenergetics and death. <i>Biochemistry (Moscow)</i> , 2005, 70, 240-245.	1.5	14
30	Novel mitochondria-targeted compounds composed of natural constituents: Conjugates of plant alkaloids berberine and palmatine with plastoquinone. <i>Biochemistry (Moscow)</i> , 2012, 77, 983-995.	1.5	14
31	Mitodiversity. <i>Biochemistry (Moscow)</i> , 2015, 80, 532-541.	1.5	14
32	Does Oxidation of Mitochondrial Cardiolipin Trigger a Chain of Antiapoptotic Reactions?. <i>Biochemistry (Moscow)</i> , 2018, 83, 1263-1278.	1.5	14
33	Therapeutic Effect of the Mitochondria-Targeted Antioxidant SkQ1 on the Culture Model of Multiple Sclerosis. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-10.	4.0	14
34	Novel Fluorescent Mitochondria-Targeted Probe MitoCLOx Reports Lipid Peroxidation in Response to Oxidative Stress <i>In Vivo</i> . <i>Oxidative Medicine and Cellular Longevity</i> , 2020, 2020, 1-11.	4.0	14
35	Mitochondria-targeted 1,4-naphthoquinone (SkQN) is a powerful prooxidant and cytotoxic agent. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2020, 1861, 148210.	1.0	14
36	Extrusion of mitochondria: Garbage clearance or cell-cell communication signals?. <i>Journal of Cellular Physiology</i> , 2022, 237, 2345-2356.	4.1	11

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37	Methodology for Use of Mitochondria-Targeted Cations in the Field of Oxidative Stress-Related Research. <i>Methods in Molecular Biology</i> , 2015, 1265, 149-159.	0.9	9
38	Previously unclassified mutation of mtDNA m.3472T>C: Evidence of pathogenicity in Leber's hereditary optic neuropathy. <i>Biochemistry (Moscow)</i> , 2016, 81, 748-754.	1.5	8
39	Innate Immunity as an Executor of the Programmed Death of Individual Organisms for the Benefit of the Entire Population. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13480.	4.1	7
40	A-to-I RNA Editing: A Contribution to Diversity of the Transcriptome and an Organism's Development. <i>Biochemistry (Moscow)</i> , 2010, 75, 1316-1323.	1.5	6
41	Mitochondria as Targets for Endothelial Protection in COVID-19. <i>Frontiers in Physiology</i> , 2020, 11, 606170.	2.8	5
42	Mitochondria-Targeted Antioxidants and Alzheimer's Disease. , 2014, , 195-201.		2
43	Mitochondrial Localization and Function of SESN2. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	1