

# Evgeny Pavlov

## List of Publications by Year in descending order

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Version: 2024-02-01

28  
papers

1,579  
citations

471509

17  
h-index

580821

25  
g-index

29  
all docs

29  
docs citations

29  
times ranked

1902  
citing authors

#	ARTICLE	IF	CITATIONS
1	High Sensitivity, Quantitative Measurements of Polyphosphate Using a New DAPI-Based Approach. <i>Journal of Fluorescence</i> , 2008, 18, 859-866.	2.5	202
2	Targeted polyphosphatase expression alters mitochondrial metabolism and inhibits calcium-dependent cell death. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18091-18096.	7.1	196
3	Inorganic Polyphosphate and Energy Metabolism in Mammalian Cells. <i>Journal of Biological Chemistry</i> , 2010, 285, 9420-9428.	3.4	161
4	Inorganic Polyphosphate Modulates TRPM8 Channels. <i>PLoS ONE</i> , 2009, 4, e5404.	2.5	128
5	A Large, Voltage-Dependent Channel, Isolated from Mitochondria by Water-Free Chloroform Extraction. <i>Biophysical Journal</i> , 2005, 88, 2614-2625.	0.5	126
6	Inorganic polyphosphate is a potent activator of the mitochondrial permeability transition pore in cardiac myocytes. <i>Journal of General Physiology</i> , 2012, 139, 321-331.	1.9	91
7	The Pore, not Cytoplasmic Domains, Underlies Inactivation in a Prokaryotic Sodium Channel. <i>Biophysical Journal</i> , 2005, 89, 232-242.	0.5	90
8	Membrane cholesterol content plays a key role in the neurotoxicity of $\beta$ -amyloid: implications for Alzheimer's disease. <i>Aging Cell</i> , 2011, 10, 595-603.	6.7	81
9	Changes in lipid membranes may trigger amyloid toxicity in Alzheimer's disease. <i>PLoS ONE</i> , 2017, 12, e0182194.	2.5	80
10	The mitochondrial channel VDAC has a cation-selective open state. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2005, 1710, 96-102.	1.0	68
11	Direct Quantification of Inorganic Polyphosphate in Microbial Cells Using 4',6-Diamidino-2-Phenylindole (DAPI). <i>Environmental Science &amp; Technology</i> , 2011, 45, 7799-7803.	10.0	68
12	Palmitic and stearic acids bind $Ca^{2+}$ with high affinity and form nonspecific channels in black-lipid membranes. Possible relation to $Ca^{2+}$ -activated mitochondrial pores. <i>Journal of Bioenergetics and Biomembranes</i> , 2001, 33, 319-331.	2.3	53
13	Polyester Modification of the Mammalian TRPM8 Channel Protein: Implications for Structure and Function. <i>Cell Reports</i> , 2013, 4, 302-315.	6.4	48
14	Physical and Functional Association of Lactate Dehydrogenase (LDH) with Skeletal Muscle Mitochondria. <i>Journal of Biological Chemistry</i> , 2013, 288, 25309-25317.	3.4	41
15	Inorganic polyphosphate – an unusual suspect of the mitochondrial permeability transition mystery. <i>Channels</i> , 2012, 6, 463-467.	2.8	37
16	A high-conductance mode of a poly-3-hydroxybutyrate/calcium/polyphosphate channel isolated from competent <i>Escherichia coli</i> cells. <i>FEBS Letters</i> , 2005, 579, 5187-5192.	2.8	29
17	Role of polyhydroxybutyrate in mitochondrial calcium uptake. <i>Cell Calcium</i> , 2013, 54, 86-94.	2.4	28
18	Identification of the Polyhydroxybutyrate Granules in Mammalian Cultured Cells. <i>Chemistry and Biodiversity</i> , 2012, 9, 2597-2604.	2.1	14

#	ARTICLE	IF	CITATIONS
19	Cyclophilin D-dependent oligodendrocyte mitochondrial ion leak contributes to neonatal white matter injury. <i>Journal of Clinical Investigation</i> , 2020, 130, 5536-5550.	8.2	13
20	Inorganic polyphosphate as an energy source in tumorigenesis. <i>Oncotarget</i> , 2020, 11, 4613-4624.	1.8	7
21	Mitochondria modulate ameloblast Ca <sup>2+</sup> signaling. <i>FASEB Journal</i> , 2022, 36, e22169.	0.5	5
22	Trans-Channel Interactions in Batrachotoxin-Modified Rat Skeletal Muscle Sodium Channels: Kinetic Analysis of Mutual Inhibition between $\frac{1}{4}$ -Conotoxin GIIIA Derivatives and Amine Blockers. <i>Biophysical Journal</i> , 2008, 95, 4266-4276.	0.5	3
23	Trans-Channel Interactions in Batrachotoxin-Modified Skeletal Muscle Sodium Channels: Voltage-Dependent Block by Cytoplasmic Amines, and the Influence of $\frac{1}{4}$ -Conotoxin GIIIA Derivatives and Permeant Ions. <i>Biophysical Journal</i> , 2008, 95, 4277-4288.	0.5	3
24	Development of an in vitro model of neuronal activity induced excitotoxicity using photoconductive stimulation. <i>Cell Calcium</i> , 2010, 47, 441-448.	2.4	3
25	Editorial note. <i>Journal of Bioenergetics and Biomembranes</i> , 2017, 49, 1-2.	2.3	2
26	Bacterial Na Channels: Progenitors, Progeny, or Parallel Evolution?. , 0, , 191-207.		1
27	P2 <sup>099</sup> : Carbonic Anhydrase is a Crucial Target for Prevention of Mitochondrial Pathology in Alzheimer's Models. <i>Alzheimer's and Dementia</i> , 2016, 12, P650.	0.8	0
28	Physical and functional association of lactate dehydrogenase with mitochondria in intact and permeabilized skeletal muscle fibers. <i>FASEB Journal</i> , 2013, 27, lb765.	0.5	0