Piotr Bednarczyk

List of Publications by Year in descending order

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76 papers	1,955 citations	201385 27 h-index	253896 43 g-index
85 all docs	85 docs citations	85 times ranked	1859 citing authors

#	Article	IF	Citations
1	Mitochondrial potassium channels: A novel calcitriol target. Cellular and Molecular Biology Letters, 2022, 27, 3.	2.7	11
2	Methods of Measuring Mitochondrial Potassium Channels: A Critical Assessment. International Journal of Molecular Sciences, 2022, 23, 1210.	1.8	11
3	Linking the sampling frequency with multiscale entropy to classify mitoBK patch-clamp data. Biomedical Signal Processing and Control, 2022, 76, 103680.	3.5	3
4	Flavonoid quercetin abolish paxilline inhibition of the mitochondrial BKCa channel. Mitochondrion, 2022, 65, 23-32.	1.6	6
5	Dynamical diversity of mitochondrial BK channels located in different cell types. BioSystems, 2021, 199, 104310.	0.9	4
6	Regulation of Lipid Bilayer Ion Permeability by Antibacterial Polymethyloxazolineâ€Polyethyleneimine Copolymers. ChemBioChem, 2021, 22, 1020-1029.	1.3	3
7	Application of Machine-Learning Methods to Recognize mitoBK Channels from Different Cell Types Based on the Experimental Patch-Clamp Results. International Journal of Molecular Sciences, 2021, 22, 840.	1.8	3
8	Functional Expression of TRPV1 Ion Channel in the Canine Peripheral Blood Mononuclear Cells. International Journal of Molecular Sciences, 2021, 22, 3177.	1.8	3
9	Single channel properties of mitochondrial large conductance potassium channel formed by BK-VEDEC splice variant. Scientific Reports, 2021, 11, 10925.	1.6	16
10	Identification of the Large-Conductance Ca2+-Regulated Potassium Channel in Mitochondria of Human Bronchial Epithelial Cells. Molecules, 2021, 26, 3233.	1.7	14
11	Multidimensional Regulation of Cardiac Mitochondrial Potassium Channels. Cells, 2021, 10, 1554.	1.8	16
12	Cytoprotective effects of the flavonoid quercetin by activating mitochondrial BKCa channels in endothelial cells.. Biomedicine and Pharmacotherapy, 2021, 142, 112039.	2.5	20
13	Patch-Clamp Recording of the Activity of in the Inner Mitochondrial. Methods in Molecular Biology, 2021, 2276, 235-248.	0.4	8
14	Differences in Gating Dynamics of BK Channels in Cellular and Mitochondrial Membranes from Human Glioblastoma Cells Unraveled by Short- and Long-Range Correlations Analysis. Cells, 2020, 9, 2305.	1.8	8
15	Identification of Role of Mitochondrial Chloride Intracellular Channel (CLIC) Protein, CLIC4 and CLIC5 in Cardioprotection from IR Injury via Probably Modulating the Opening of MPTP Pore. Biophysical Journal, 2020, 118, 446a.	0.2	1
16	Heme is required for carbon monoxide activation of mitochondrial BKCa channel. European Journal of Pharmacology, 2020, 881, 173191.	1.7	24
17	Measurement of Multi Ion Transport through Human Bronchial Epithelial Cell Line Provides an Insight into the Mechanism of Defective Water Transport in Cystic Fibrosis. Membranes, 2020, 10, 43.	1.4	8
18	Regulation of the Mitochondrial BKCa Channel by the Citrus Flavonoid Naringenin as a Potential Means of Preventing Cell Damage. Molecules, 2020, 25, 3010.	1.7	30

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19	Beneficial Effect of Citrus Flavonoid - Naringenin on Endothelial Cells by Activation of Mitochondrial Potassium Channels. Biophysical Journal, 2020, 118, 263a.	0.2	0
20	Chloride channel blocker IAA-94 increases myocardial infarction by reducing calcium retention capacity of the cardiac mitochondria. Life Sciences, 2019, 235, 116841.	2.0	12
21	Inflammation, Cancer and Immunityâ€"Implication of TRPV1 Channel. Frontiers in Oncology, 2019, 9, 1087.	1.3	157
22	BKCa (Slo) Channel Regulates Mitochondrial Function and Lifespan in Drosophila melanogaster. Cells, 2019, 8, 945.	1.8	19
23	225 Skin anti-ageing effects of mitochondrial potassium channels regulation by naringenin. Journal of Investigative Dermatology, 2019, 139, S253.	0.3	0
24	Single Channel Recordings of mitoBKCa Channel Formed by BK-Dec Splice Variant. Biophysical Journal, 2019, 116, 268a.	0.2	0
25	Naringenin as an opener of mitochondrial potassium channels in dermal fibroblasts. Experimental Dermatology, 2019, 28, 543-550.	1.4	22
26	Single-Channel Properties of the ROMK-Pore-Forming Subunit of the Mitochondrial ATP-Sensitive Potassium Channel. International Journal of Molecular Sciences, 2019, 20, 5323.	1.8	30
27	Evidence for a mitochondrial ATP-regulated potassium channel in human dermal fibroblasts. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 309-318.	0.5	35
28	Diverse Pharmacological Effects of Carbon Monoxide-Releasing Molecules on Mitochondrial BK Channel. Biophysical Journal, 2018, 114, 488a.	0.2	0
29	Modulation of the Mitochondrial Potassium Channel Activity by Infrared Light. Biophysical Journal, 2018, 114, 43a.	0.2	4
30	Mitochondrial potassium channels Ã¢Â€Â“ an overview. Postepy Biochemii, 2018, 64, 196-212.	0.5	18
31	Flavonoids as Natural Modulators of Mitochondrial Potassium Channel. Biophysical Journal, 2017, 112, 405a-406a.	0.2	3
32	Identification of Large-Conductance Calcium-Regulated K Channel in Human Dermal Mitochndria. Biophysical Journal, 2017, 112, 406a.	0.2	0
33	cGMP-Elevating Compounds and Ischemic Conditioning Provide Cardioprotection Against Ischemia and Reperfusion Injury via Cardiomyocyte-Specific BK Channels. Circulation, 2017, 136, 2337-2355.	1.6	124
34	Mitochondriaâ€"based biosensors with piezometric and RELS transduction for potassium uptake and release investigations. Biosensors and Bioelectronics, 2017, 88, 114-121.	5.3	37
35	A large-conductance calcium-regulated K+ channel in human dermal fibroblast mitochondria. Biochemical Journal, 2016, 473, 4457-4471.	1.7	34
36	Identification of Cardiac Mitochondrial Chloride Intracellular Channel (CLIC) Proteins and their Physiological Function. Biophysical Journal, 2016, 110, 453a.	0.2	0

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37	What do we not know about mitochondrial potassium channels?. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1247-1257.	0.5	110
38	Effectors of large-conductance calcium-activated potassium channel modulate glutamate excitotoxicity in organotypic hippocampal slice cultures. Acta Neurobiologiae Experimentalis, 2016, 76, 20-31.	0.4	15
39	Biophysical and Biochemical Properties of the Large Conductance Potassium Channel in Fibroblast Mitochondria. Biophysical Journal, 2015, 108, 606a.	0.2	0
40	Carbon monoxide released by CORM-401 uncouples mitochondrial respiration and inhibits glycolysis in endothelial cells: A role for mitoBKCa channels. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 1297-1309.	0.5	60
41	Identification of the ATP Regulated Potassium Channel in Mitochondria of Fibroblast Cells. Biophysical Journal, 2015, 108, 606a.	0.2	0
42	Mitochondrial mechanisms of endothelial dysfunction. Pharmacological Reports, 2015, 67, 704-710.	1.5	79
43	Potassium Channel in the Mitochondria of Human Keratinocytes. Journal of Investigative Dermatology, 2014, 134, 764-772.	0.3	37
44	Hemin inhibits the large conductance potassium channel in brain mitochondria: A putative novel mechanism of neurodegeneration. Experimental Neurology, 2014, 257, 70-75.	2.0	31
45	Modulation of the mitochondrial large-conductance calcium-regulated potassium channel by polyunsaturated fatty acids. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 1602-1610.	0.5	10
46	Functional Coupling of the Mitochondrial BKCa Channel to the Respiratory Chain. Biophysical Journal, 2014, 106, 760a.	0.2	0
47	Coupling of the Electron Transport Chain with the Mitochondrial BKCa Channel in Rat Astrocytes. Biophysical Journal, 2013, 104, 215a.	0.2	0
48	Large-conductance Ca²⁺-activated potassium channel in mitochondria of endothelial EA.hy926 cells. American Journal of Physiology - Heart and Circulatory Physiology, 2013, 304, H1415-H1427.	1.5	65
49	Putative Structural and Functional Coupling of the Mitochondrial BKCa Channel to the Respiratory Chain. PLoS ONE, 2013, 8, e68125.	1.1	89
50	A novel mitochondrial potassium channel in embryonic hippocampal mitochondra. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, S85.	0.5	0
51	A Novel Mitochondrial Potassium Channel in Embryonic Hippocampal Mitochondra. Biophysical Journal, 2012, 102, 161a.	0.2	0
52	Oxidized Heme - A Novel Inhibitor of Calcium-Dependent BK Channel in Rat Brain Mitochondria. Biophysical Journal, 2012, 102, 162a.	0.2	0
53	Potassium and Mitochondria. , 2012, , 373-389.		0
54	Voltage-gated potassium channel in hippocampus mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 133.	0.5	0

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55	Pharmacology of mitochondrial potassium channels: dark side of the field. FEBS Letters, 2010, 584, 2063-2069.	1.3	70
56	Methadone induces necrotic-like cell death in SH-SY5Y cells by an impairment of mitochondrial ATP synthesis. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2010, 1802, 1036-1047.	1.8	48
57	Identification of a voltage-gated potassium channel in gerbil hippocampal mitochondria. Biochemical and Biophysical Research Communications, 2010, 397, 614-620.	1.0	55
58	Calcium Ions Regulate K+ Uptake into Brain Mitochondria: The Evidence for a Novel Potassium Channel. International Journal of Molecular Sciences, 2009, 10, 1104-1120.	1.8	69
59	Single channel studies of the ATP-regulated potassium channel in brain mitochondria. Journal of Bioenergetics and Biomembranes, 2009, 41, 323-334.	1.0	28
60	Large-conductance Calcium-activated Potassium Channel In Neuronal Mitochondria. Biophysical Journal, 2009, 96, 529a.	0.2	0
61	Voltage-gated Potassium Channel In Brain Mitochondria. Biophysical Journal, 2009, 96, 529a.	0.2	0
62	Large Conductance Potassium Channel In Mitochondria of Endothelial Cell. Biophysical Journal, 2009, 96, 538a.	0.2	0
63	Potassium channels in brain mitochondria.. Acta Biochimica Polonica, 2009, 56, .	0.3	30
64	Potassium channels in brain mitochondria. Acta Biochimica Polonica, 2009, 56, 385-92.	0.3	14
65	New properties of mitochondrial ATP-regulated potassium channels. Journal of Bioenergetics and Biomembranes, 2008, 40, 325-35.	1.0	32
66	Hypoxia Increases Activity of the BK-Channel in the Inner Mitochondrial Membrane and Reduces Activity of the Permeability Transition Pore. Cellular Physiology and Biochemistry, 2008, 22, 127-136.	1.1	82
67	Determination of the rate of K+ movement through potassium channels in isolated rat heart and liver mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 540-548.	0.5	45
68	A novel potassium channel in skeletal muscle mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 651-659.	0.5	70
69	ATP-sensitive Potassium Channel in Mitochondria of the Eukaryotic Microorganism Acanthamoeba castellanii. Journal of Biological Chemistry, 2007, 282, 17433-17441.	1.6	45
70	Stilbene derivatives inhibit the activity of the inner mitochondrial membrane chloride channels. Cellular and Molecular Biology Letters, 2007, 12, 493-508.	2.7	12
71	Matrix Mg2+regulates mitochondrial ATP-dependent potassium channel from heart. FEBS Letters, 2005, 579, 1625-1632.	1.3	69
72	Reconstitution of brain mitochondria inner membrane into planar lipid bilayer. Acta Neurobiologiae Experimentalis, 2005, 65, 271-6.	0.4	20

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73	Quinine Inhibits Mitochondrial ATP-regulated Potassium Channel from Bovine Heart. Journal of Membrane Biology, 2004, 199, 63-72.	1.0	58
74	The Gef1 protein of Saccharomyces cerevisiae is associated with chloride channel activity. Biochemical and Biophysical Research Communications, 2002, 294, 1144-1150.	1.0	23
75	Transmembrane segment M2 of glycine receptor as a model system for the pore-forming structure of ion channels.. Acta Biochimica Polonica, 2002, 49, 869-875.	0.3	4
76	New Diagnostic Tool for Ion Channel Activity Hidden Behind the Dwell-Time Correlations. Journal of Physical Chemistry B, 0, , .	1.2	1