Antoni Wrzosek

List of Publications by Year
in descending order

46 papers	1,378 citations	471061 17 h-index	329751 37 g-index
50 all docs	50 docs citations	50 times ranked	1685 citing authors

#	Article	IF	Citations
1	Alpha B-crystallin in cardiac tissue. Association with actin and desmin filaments.. Circulation Research, 1992, 71, 288-294.	2.0	288
2	Changes in force and cytosolic Ca2+concentration after length changes in isolated rat ventricular trabeculae. Journal of Physiology, 1998, 506, 431-444.	1.3	163
3	Heme oxygenase-1 protects tumor cells against photodynamic therapy-mediated cytotoxicity. Oncogene, 2006, 25, 3365-3374.	2.6	163
4	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
5	Mitochondrial mechanisms of endothelial dysfunction. Pharmacological Reports, 2015, 67, 704-710.	1.5	79
6	Pharmacology of mitochondrial potassium channels: dark side of the field. FEBS Letters, 2010, 584, 2063-2069.	1.3	70
7	Effect of thapsigargin on cardiac muscle cells. Cell Calcium, 1992, 13, 281-292.	1.1	67
8	Mitochondrial Potassium Channels as Druggable Targets. Biomolecules, 2020, 10, 1200.	1.8	46
9	The role of the sarcoplasmic reticulum in various types of cardiomyocytes. Molecular and Cellular Biochemistry, 1994, 130, 159-171.	1.4	32
10	Total synthesis and functional properties of the membraneâ€intrinsic protein phospholamban. Protein Science, 1993, 2, 339-347.	3.1	29
11	The potassium channel opener NS1619 modulates calcium homeostasis in muscle cells by inhibiting SERCA. Cell Calcium, 2014, 56, 14-24.	1.1	28
12	Downâ€regulation of Kir4.1 in the cerebral cortex of rats with liver failure and in cultured astrocytes treated with glutamine: Implications for astrocytic dysfunction in hepatic encephalopathy. Journal of Neuroscience Research, 2011, 89, 2018-2027.	1.3	22
13	Conformational changes of (Ca2+-Mg2+)-ATPase of erythrocyte plasma membrane caused by calmodulin and phosphatidylserine as revealed by circular dichroism and fluorescence studies. Biochimica Et Biophysica Acta - Biomembranes, 1989, 986, 263-270.	1.4	21
14	Fluorescence Spectroscopic Studies on Interactions between Liver Annexin VI and Nucleotides. A Possible Role for a Tryptophan Residue. FEBS Journal, 1997, 248, 238-244.	0.2	21
15	ATP-Binding Site of Annexin VI Characterized by Photochemical Release of Nucleotide and Infrared Difference Spectroscopy. Biochemical and Biophysical Research Communications, 1999, 263, 775-779.	1.0	19
16	The potassium channel opener CGS7184 activates Ca2+ release from the endoplasmic reticulum. European Journal of Pharmacology, 2012, 690, 60-67.	1.7	19
17	The relationship between the binding of ATP and calcium to annexin IV. Effect of nucleotide on the calcium-dependent interaction of annexin with phosphatidylserine. Molecular Membrane Biology, 1997, 14, 179-186.	2.0	18
18	Large-conductance K+ channel opener CGS7184 as a regulator of endothelial cell function. European Journal of Pharmacology, 2009, 602, 105-111.	1.7	18

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19	SERCA, complex I of the respiratory chain and ATP-synthase inhibition are involved in pleiotropic effects of NS1619 on endothelial cells. European Journal of Pharmacology, 2016, 786, 137-147.	1.7	16
20	Thyroid hormones control lipid composition and membrane fluidity of skeletal muscle sarcolemma. Biochimica Et Biophysica Acta - Biomembranes, 1991, 1068, 167-173.	1.4	14
21	The Cytoprotective Action of the Potassium Channel Opener BMS-191095 in C2C12 Myoblasts is Related to the Modulation of Calcium Homeostasis. Cellular Physiology and Biochemistry, 2010, 26, 235-246.	1.1	13
22	Caldesmon freezes the structure of actin filaments during the actomyosin ATPase cycle. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2006, 1764, 1054-1062.	1.1	11
23	Fesselin is a target protein for calmodulin in a calcium-dependent manner. Biochemical and Biophysical Research Communications, 2004, 323, 1251-1256.	1.0	9
24	Long-term stabilization and crystallization of (Ca2+ + Mg2+)-ATPase of detergent-solubilized erythrocyte plasma membrane. Biochimica Et Biophysica Acta - Biomembranes, 1991, 1061, 206-214.	1.4	8
25	Atorvastatin and pravastatin stimulate nitric oxide and reactive oxygen species generation, affect mitochondrial network architecture and elevate nicotinamide Nâ€methyltransferase level in endothelial cells. Journal of Applied Toxicology, 2021, 41, 1076-1088.	1.4	8
26	Red emissive sulfone-rhodols as mitochondrial imaging agents. Chemical Communications, 2021, 57, 7782-7785.	2.2	8
27	Alternative Targets for Modulators of Mitochondrial Potassium Channels. Molecules, 2022, 27, 299.	1.7	8
28	Interaction of calmodulin and its fragments with Ca2+-ATPase and myosin light chain kinase. Cell Calcium, 1986, 7, 73-88.	1.1	7
29	The effect of thyroxine on the calmodulin-dependent (Ca2+-Mg2+)ATPase activity and protein phosphorylation in rabbit fast skeletal muscle sarcolemma. FEBS Journal, 1988, 171, 363-368.	0.2	6
30	Characterization of Mg2+-ATPase from slow-twitch muscle membranes. International Journal of Biochemistry & Cell Biology, 1987, 19, 551-559.	0.8	5
31	Oneâ€Photon and Twoâ€Photon Mitochondrial Fluorescent Probes Based on a Rhodol Chromophore. Asian Journal of Organic Chemistry, 2018, 7, 411-415.	1.3	5
32	The effect of Ca2+ and calmodulin on the inhibition of Ca2++Mg2+-ATPase in erythrocyte ghost membranes by nonpolar and polar carbodiimides. Cell Calcium, 1990, 11, 275-280.	1.1	4
33	Orientation and Mobility of Actin in Different Intermediate States of the ATP Hydrolysis Cycle. Biochemistry (Moscow), 2005, 70, 1136-1139.	0.7	4
34	Behavior of caldesmon upon interaction of thin filaments with myosin subfragment 1 in ghost fibers. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2004, 1699, 183-189.	1.1	4
35	Regulation of Ca2+ release from internal stores in cardiac and skeletal muscles.. Acta Biochimica Polonica, 2000, 47, 705-723.	0.3	4
36	Effect of Nucleotides on the Orientation and Mobility of Myosin Subfragment-1 in Ghost Muscle Fiber. Biochemistry (Moscow), 2005, 70, 1140-1144.	0.7	3

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37	Caldesmon inhibits both force development and transition of actin monomers from â€œOFFâ€•to â€œONâ€• conformational state by changing its position in thin filaments. Cell Biology International, 2007, 31, 394-404.	1.4	3
38	Effect of selected NAD+ analogues on mitochondria activity and proliferation of endothelial EA.hy926 cells. European Journal of Pharmacology, 2010, 640, 102-111.	1.7	3
39	Endothelium as target for large-conductance calcium-activated potassium channel openers. Acta Biochimica Polonica, 2009, 56, 393-404.	0.3	3
40	Probing the flux of mitochondrial potassium using an azacrown-diketopyrrolopyrrole based highly sensitive probe. Chemical Communications, 2022, 58, 4500-4503.	2.2	2
41	Large Conductance Potassium Channel In Mitochondria of Endothelial Cell. Biophysical Journal, 2009, 96, 538a.	0.2	0
42	Potassium channel opener CGS7184 modulates activity of mitochondria by Ca2+ release through ryanodine receptor. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 136.	0.5	0
43	Role of mitochondria in endothelial cell inflammatory processes. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, S89.	0.5	0
44	Reactive oxygen species in proinflammatory response of endothelial cells. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, S86.	0.5	0
45	Circular dichroism and fluorescence studies on interaction of calmodulin (CaM) with purified (Ca2(+)-Mg2+)ATPase of erythrocyte ghosts. Acta Biochimica Polonica, 1990, 37, 173-6.	0.3	0
46	Main systems involved in calcium regulation in cardiac muscle cells and their functional relationship. Polish Journal of Pharmacology, 1999, 51, 187-200.	0.3	0