Aleksandar Jovanovic

List of Publications by Year
in descending order

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120 papers	3,641 citations	159585 30 h-index	149698 56 g-index
122 all docs	122 docs citations	122 times ranked	2937 citing authors

#	Article	IF	Citations
1	Role of the WNKâ€activated SPAK kinase in regulating blood pressure. EMBO Molecular Medicine, 2010, 2, 63-75.	6.9	233
2	Mitochondrial ATP-sensitive K+ channels modulate cardiac mitochondrial function. American Journal of Physiology - Heart and Circulatory Physiology, 1998, 275, H1567-H1576.	3.2	207
3	Deficiency of LKB1 in heart prevents ischemia-mediated activation of AMPKÎ±2 but not AMPKÎ±1. American Journal of Physiology - Endocrinology and Metabolism, 2006, 290, E780-E788.	3.5	193
4	Deficiency of PDK1 in cardiac muscle results in heart failure and increased sensitivity to hypoxia. EMBO Journal, 2003, 22, 4666-4676.	7.8	166
5	Creatine kinase is physically associated with the cardiac ATPâ€sensitive k + channel in vivo. FASEB Journal, 2002, 16, 1-17.	0.5	123
6	AMP-activated protein kinase mediates preconditioning in cardiomyocytes by regulating activity and trafficking of sarcolemmal ATP-sensitive K+ channels. Journal of Cellular Physiology, 2007, 210, 224-236.	4.1	122
7	Recombinant Cardiac ATP-Sensitive K + Channel Subunits Confer Resistance To Chemical Hypoxia-Reoxygenation Injury. Circulation, 1998, 98, 1548-1555.	1.6	115
8	Gender-specific difference in cardiac ATP-sensitive K+channels. Journal of the American College of Cardiology, 2001, 38, 906-915.	2.8	105
9	17Î²-Estradiol regulates expression of KATPchannels in heart-derived H9c2 cells. Journal of the American College of Cardiology, 2002, 40, 367-374.	2.8	104
10	M-LDH serves as a sarcolemmal KATP channel subunit essential for cell protection against ischemia. EMBO Journal, 2002, 21, 3936-3948.	7.8	95
11	Overexpression of SUR2A generates a cardiac phenotype resistant to ischemia. FASEB Journal, 2006, 20, 1131-1141.	0.5	85
12	Hypoxiaâ€induced preconditioning in adult stimulated cardiomyocytes is mediated by the opening and trafficking of sarcolemmal K ATP channels. FASEB Journal, 2004, 18, 1046-1048.	0.5	84
13	Chronic Mild Hypoxia Protects Heart-derived H9c2 Cells against Acute Hypoxia/Reoxygenation by Regulating Expression of the SUR2A Subunit of the ATP-sensitive K+ Channel. Journal of Biological Chemistry, 2003, 278, 31444-31455.	3.4	82
14	Glyceraldehyde 3â€phosphate dehydrogenase serves as an accessory protein of the cardiac sarcolemmal K ATP channel. EMBO Reports, 2005, 6, 848-852.	4.5	66
15	Low concentrations of 17Î²-estradiol protect single cardiac cells against metabolic stress-induced Ca2+ loading. Journal of the American College of Cardiology, 2000, 36, 948-952.	2.8	64
16	Gene delivery of Kir6.2/SUR2A in conjunction with pinacidil handles intracellular Ca 2+ homeostasis under metabolic stress. FASEB Journal, 1999, 13, 923-929.	0.5	62
17	Reversal of the ATP-liganded State of ATP-sensitive K+ Channels by Adenylate Kinase Activity. Journal of Biological Chemistry, 1996, 271, 31903-31908.	3.4	58
18	Mouse hypothalamic GT1-7 cells demonstrate AMPK-dependent intrinsic glucose-sensing behaviour. Diabetologia, 2012, 55, 2432-2444.	6.3	57

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19	Intracellular diadenosine polyphosphates. Biochemical Pharmacology, 1997, 54, 219-225.	4.4	53
20	Ageing is associated with a decrease in the number of sarcolemmal ATP-sensitive K+ channels in a gender-dependent manner. Mechanisms of Ageing and Development, 2002, 123, 695-705.	4.6	49
21	Adenosine Prevents Hyperkalemia-Induced Calcium Loading in Cardiac Cells: Relevance for Cardioplegia. Annals of Thoracic Surgery, 1997, 63, 153-161.	1.3	45
22	3'phosphoinositideâ€dependent kinaseâ€1 is essential for ischemic preconditioning of the myocardium. FASEB Journal, 2006, 20, 2556-2558.	0.5	43
23	Diadenosine 5â€²,5â€³-P1,P5-pentaphosphate harbors the properties of a signaling molecule in the heart. FEBS Letters, 1998, 423, 314-318.	2.8	40
24	Cardioprotective signalling: Past, present and future. European Journal of Pharmacology, 2018, 833, 314-319.	3.5	40
25	High Glucose Regulates the Activity of Cardiac Sarcolemmal ATP-Sensitive K+ Channels via 1,3-Bisphosphoglycerate: A Novel Link Between Cardiac Membrane Excitability and Glucose Metabolism. Diabetes, 2005, 54, 383-393.	0.6	39
26	Mechanical Unloading Versus Neurohumoral Stimulation on Myocardial Structure and Endocrine Function In Vivo. Circulation, 2000, 102, 338-343.	1.6	38
27	Regulation of Nitric Oxide-Responsive Recombinant Soluble Guanylyl Cyclase by Calcium. Biochemistry, 1999, 38, 6441-6448.	2.5	37
28	Large Conductance Ca2+-Activated K+Channels Sense Acute Changes in Oxygen Tension in Alveolar Epithelial Cells. American Journal of Respiratory Cell and Molecular Biology, 2003, 28, 363-372.	2.9	35
29	Dual effect of glyburide, an antagonist of KATP channels, on metabolic inhibition-induced Ca2+ loading in cardiomyocytes. European Journal of Pharmacology, 1996, 308, 343-349.	3.5	34
30	Nicotinamide-rich diet protects the heart against ischaemiaâ€"reperfusion in mice: A crucial role for cardiac SUR2A. Pharmacological Research, 2010, 61, 564-570.	7.1	34
31	Spontaneous Calcium Waves without Contraction in Cardiac Myocytes. Biochemical and Biophysical Research Communications, 1995, 214, 781-787.	2.1	31
32	M-LDH physically associated with sarcolemmal KATP channels mediates cytoprotection in heart embryonic H9C2 cells. International Journal of Biochemistry and Cell Biology, 2009, 41, 2295-2301.	2.8	30
33	Trimetazidine prevents diabetic cardiomyopathy by inhibiting Nox2/TRPC3-induced oxidative stress. Journal of Pharmacological Sciences, 2019, 139, 311-318.	2.5	29
34	Adenosine Slows the Rate of K+-induced Membrane Depolarization in Ventricular Cardiomyocytes: Possible Implication in Hyperkalemic Cardioplegia. Journal of Molecular and Cellular Cardiology, 1996, 28, 1193-1202.	1.9	28
35	Pinacidil prevents membrane depolarisation and intracellular Ca2+ loading in single cardiomyocytes exposed to severe metabolic stress. International Journal of Molecular Medicine, 2001, 7, 639-43.	4.0	28
36	Mild hypoxia in vivo regulates cardioprotective SUR2A: A role for Akt and LDH. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2015, 1852, 709-719.	3.8	28

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37	Infection with AV-SUR2A protects H9C2 cells against metabolic stress: A mechanism of SUR2A-mediated cytoprotection independent from the KATP channel activity. Biochimica Et Biophysica Acta - Molecular Cell Research, 2010, 1803, 405-415.	4.1	27
38	Nicotinamide-rich diet improves physical endurance by up-regulating SUR2A in the heart. Journal of Cellular and Molecular Medicine, 2011, 15, 1703-1712.	3.6	26
39	Endothelium-dependent relaxation in response to acetylcholine in the human uterine artery. European Journal of Pharmacology, 1994, 256, 131-139.	3.5	24
40	Predominant role for nitric oxide in the relaxation induced by vasoactive intestinal polypeptide in human uterine artery. Molecular Human Reproduction, 1998, 4, 71-76.	2.8	24
41	Ageing-induced decline in physical endurance in mice is associated with decrease in cardiac SUR2A and increase in cardiac susceptibility to metabolic stress: therapeutic prospects for up-regulation of SUR2A. Biogerontology, 2011, 12, 147-155.	3.9	24
42	Muscarinic receptor function in the guinea-pig uterine artery is not altered during pregnancy. European Journal of Pharmacology, 1994, 258, 185-194.	3.5	23
43	L-Arginine induces relaxation of human uterine artery with both intact and denuded endothelium. European Journal of Pharmacology, 1994, 256, 103-107.	3.5	23
44	Adenosine Prevents K-Induced Ca2 Loading: Insight Into Cardioprotection During Cardioplegia. Annals of Thoracic Surgery, 1998, 65, 586-591.	1.3	23
45	Testosterone protects female embryonic heart H9c2 cells against severe metabolic stress by activating estrogen receptors and up-regulating IES SUR2B. International Journal of Biochemistry and Cell Biology, 2013, 45, 283-291.	2.8	23
46	Upregulation of cardioprotective SUR2A by sub-hypoxic drop in oxygen. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 2424-2431.	4.1	23
47	Effect of the vascular endothelium on noradrenalineâ€induced contractions in nonâ€pregnant and pregnant guineaâ€pig uterine arteries. British Journal of Pharmacology, 1995, 114, 805-815.	5.4	22
48	An unexpected negative inotropic effect of prostaglandin F2Î± in the rat heart. Prostaglandins and Other Lipid Mediators, 2006, 80, 110-119.	1.9	22
49	A dual mechanism of cytoprotection afforded by M-LDH in embryonic heart H9C2 cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2009, 1793, 1379-1386.	4.1	22
50	Endothelium-dependent relaxation in response to acetylcholine in pregnant guinea-pig uterine artery. Human Reproduction, 1997, 12, 1805-1809.	0.9	20
51	Protective action of 17Î²-estradiol in cardiac cells: implications for hyperkalemic cardioplegia. Annals of Thoracic Surgery, 1998, 66, 1658-1661.	1.3	20
52	A Patient Suffering from Hypokalemic Periodic Paralysis Is Deficient in Skeletal Muscle ATPâ€sensitive K⁺ channels. Clinical and Translational Science, 2008, 1, 71-74.	3.1	18
53	Diadenosine polyphosphate-induced inhibition of cardiac KATP channels: Operative state-dependent regulation by a nucleoside diphosphate. Pflugers Archiv European Journal of Physiology, 1996, 431, 800-802.	2.8	17
54	Cardiac ATP-sensitive K+ channel: a target for diadenosine 5?,5?-P1,P5-pentaphosphate. Naunyn-Schmiedeberg's Archives of Pharmacology, 1996, 353, 241-4.	3.0	17

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55	Pregnancy: Effect of the vascular endothelium on contractions induced by prostaglandin F 2Âin isolated pregnant guinea pig uterine artery. Human Reproduction, 1996, 11, 2041-2047.	0.9	17
56	Delivery of Genes Encoding Cardiac KATP Channel Subunits in Conjunction with Pinacidil Prevents Membrane Depolarization in Cells Exposed to Chemical Hypoxia-Reoxygenation. Biochemical and Biophysical Research Communications, 2001, 282, 1098-1102.	2.1	17
57	Diadenosine tetraphosphate-gating of cardiac K ATP channels requires intact actin cytoskeleton. Naunyn-Schmiedeberg's Archives of Pharmacology, 2001, 364, 276-280.	3.0	17
58	SURA2 targeting for cardioprotection?. Current Opinion in Pharmacology, 2009, 9, 189-193.	3.5	17
59	KATP channels are up-regulated with increasing age in human myometrium. Mechanisms of Ageing and Development, 2013, 134, 98-102.	4.6	17
60	Characterization of arginine vasopressin actions in human uterine artery: lack of role of the vascular endothelium. British Journal of Pharmacology, 1995, 115, 1295-1301.	5.4	16
61	Diadenosine tetraphosphateâ€induced inhibition of ATPâ€sensitive K⁺ channels in patches excised from ventricular myocytes. British Journal of Pharmacology, 1996, 117, 233-235.	5.4	16
62	Cytosolic Ca2+ domain-dependent protective action of adenosine in cardiomyocytes. European Journal of Pharmacology, 1996, 298, 63-69.	3.5	16
63	Pregnancy is associated with altered response to neuropeptide Y in uterine artery. Molecular Human Reproduction, 2000, 6, 352-360.	2.8	16
64	M-LDH Serves as a Regulatory Subunit of the Cytosolic Substrate-channelling Complex in Vivo. Journal of Molecular Biology, 2007, 371, 349-361.	4.2	16
65	A link between ATP and SUR2A: A novel mechanism explaining cardioprotection at high altitude. International Journal of Cardiology, 2015, 189, 73-76.	1.7	16
66	Phenylephrine preconditioning in embryonic heart H9c2 cells is mediated by up-regulation of SUR2B/Kir6.2: A first evidence for functional role of SUR2B in sarcolemmal KATP channels and cardioprotection. International Journal of Biochemistry and Cell Biology, 2016, 70, 23-28.	2.8	16
67	Predictors of Quality of Life Improvement after 2 Years of Coronary Artery Bypass Surgery. Annals of Thoracic and Cardiovascular Surgery, 2017, 23, 233-238.	0.8	16
68	ATPâ€sensitive potassium channels induced in liver cells after transfection with insulin cDNA and the GLUT2 transporter regulate glucoseâ€stimulated insulin secretion. FASEB Journal, 2003, 17, 1682-1684.	0.5	15
69	Sarcolemmal KATP channels in ageing. Ageing Research Reviews, 2004, 3, 199-214.	10.9	15
70	High glucose protects single beating adult cardiomyocytes against hypoxia. Biochemical and Biophysical Research Communications, 2006, 341, 57-66.	2.1	15
71	Human oocytes express ATP-sensitive K+ channels. Human Reproduction, 2010, 25, 2774-2782.	0.9	15
72	K+ channel blockers do not modify relaxation of guinea-pig uterine artery evoked by acetylcholine. European Journal of Pharmacology, 1995, 280, 95-100.	3.5	14

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73	Effect of oxytocin as a partial agonist at vasoconstrictor vasopressin receptors on the human isolated uterine artery. British Journal of Pharmacology, 1997, 121, 1468-1474.	5.4	14
74	Uterus and endometrium: Indomethacin reduces contraction of isolated non-pregnant human uterine artery induced by prostaglandin F2Â. Human Reproduction, 1996, 11, 1998-2002.	0.9	13
75	Exposure to 15% oxygen <i>in vivo</i> upâ€regulates cardioprotective SUR2A without affecting ERK1/2 and AKT: a crucial role for AMPK. Journal of Cellular and Molecular Medicine, 2017, 21, 1342-1350.	3.6	13
76	Diadenosine-hexaphosphate is an inhibitory ligand of myocardial ATP-sensitive K+ channels. European Journal of Pharmacology, 1995, 286, R1-R2.	3.5	12
77	Remodelling of guinea-pig aorta during pregnancy: selective alteration of endothelial cells. Human Reproduction, 1997, 12, 2297-2302.	0.9	11
78	Muscarinic Receptor Subtypes Mediating Vasorelaxation of the Perforating Branch of the Human Internal Mammary Artery. Pharmacology, 2001, 63, 185-190.	2.2	10
79	Acetylcholine-Induced Contractions in the Perforating Branch of the Human Internal Mammary Artery: Protective Role of the Vascular Endothelium. Pharmacology, 2002, 64, 182-188.	2.2	10
80	Effect of pregnancy on vasopressin-mediated responses in guinea-pig uterine arteries with intact and denuded endothelium. European Journal of Pharmacology, 1995, 280, 101-111.	3.5	9
81	Indomethacin Depresses Prostaglandin F2Î±-Induced Contraction in Guinea-Pig Uterine Artery with Both Intact and Denuded Endoth. Prostaglandins, 1997, 53, 371-379.	1.2	9
82	Pregnancy is associated with hypotrophy of carotid artery endothelial and smooth muscle cells. Human Reproduction, 1998, 13, 1074-1078.	0.9	9
83	Isosteviol prevents the development of isoprenalineâ€'induced myocardial hypertrophy. International Journal of Molecular Medicine, 2019, 44, 1932-1942.	4.0	9
84	Mg2+ protects adult beating cardiomyocytes against ischaemia. International Journal of Molecular Medicine, 2008, 21, 69-73.	4.0	9
85	Inhibition of Both Na/H and Bicarbonate-Dependent Exchange is Required to Prevent Recovery of Intracellular pH in Single Cardiomyocytes Exposed to Metabolic Stress. Bioscience Reports, 1999, 19, 99-107.	2.4	8
86	Cardioprotective SUR2A promotes stem cell properties of cardiomyocytes. International Journal of Cardiology, 2013, 168, 5090-5092.	1.7	8
87	Area under the curve analysis of blood pressure reveals increased spontaneous locomotor activity in SPAK knock-in mice: relevance for hypotension induced by SPAK inhibition?. Physiological Reports, 2019, 7, e13997.	1.7	8
88	Characterization of oxytocin actions in guinea-pig isolated uterine artery: The effect of pregnancy. European Journal of Pharmacology, 1998, 343, 35-42.	3.5	7
89	Pregnancy does not alter the response of uterine arteries to vasoactive intestinal polypeptide. Molecular Human Reproduction, 2000, 6, 361-368.	2.8	7
90	Acetylcholine-Induced Contractions in the Porcine Internal Mammary Artery: Possible Role of Muscarinic Receptors. Transboundary and Emerging Diseases, 1999, 46, 509-515.	0.6	6

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91	Models of cardioprotection. Drug Discovery Today: Disease Models, 2007, 4, 185-190.	1.2	6
92	Ageing, gender and cardiac sarcolemmal KATP channels. Journal of Pharmacy and Pharmacology, 2010, 58, 1585-1589.	2.4	6
93	A spontaneous increase in intracellular Ca2+in metaphase II human oocytesin vitrocan be prevented by drugs targeting ATP-sensitive K+channels. Human Reproduction, 2015, 31, dev300.	0.9	6
94	Pyrazinamide may possess cardioprotective properties. Journal of Antibiotics, 2019, 72, 714-717.	2.0	6
95	Cardioprotection by isosteviol derivate JC105: A unique drug property to activate ERK1/2 only when cells are exposed to hypoxiaâ€reoxygenation. Journal of Cellular and Molecular Medicine, 2020, 24, 10924-10934.	3.6	6
96	Improved adaptation to physical stress in mice overexpressing SUR2A is associated with changes in the pattern of Q-T interval. Pflugers Archiv European Journal of Physiology, 2020, 472, 683-691.	2.8	6
97	Pregnancy is not associated with altered morphology of the femoral artery. Human Reproduction, 1999, 14, 1885-1889.	0.9	4
98	Endothelium-dependent relaxation in perforating branch of human internal mammary artery. Vascular, 2000, 8, 393-399.	0.5	4
99	Diadenosine Tetraphosphate-Gating of Recombinant Pancreatic ATP-Sensitive K+ Channels. Bioscience Reports, 2001, 21, 93-99.	2.4	4
100	Endothelium-dependent Relaxation of Canine Uterine Artery in Response to Acetylcholine: the Possible Involvement of Alternative Pathways. Transboundary and Emerging Diseases, 2003, 50, 391-396.	0.6	4
101	Mg2+ protects adult beating cardiomyocytes against ischaemia. International Journal of Molecular Medicine, 0, , .	4.0	4
102	Insulin down-regulates cardioprotective SUR2A in the heart-derived H9c2 cells: A possible explanation for some adverse effects of insulin therapy. Biochemistry and Biophysics Reports, 2018, 16, 12-18.	1.3	4
103	Emerging therapeutic strategies in myocardial preservation: focus on ATP-sensitive K channels. Expert Opinion on Therapeutic Targets, 1998, 2, 181-193.	1.0	3
104	Pregnancy-induced hypertension is associated with down-regulation of Kir6.1 in human myometrium. Pregnancy Hypertension, 2019, 18, 96-98.	1.4	3
105	Femininity and sarcolemmal K_{ATP} channels: a matter of the heart and the heart of the matter. Journal of Physiology, 2009, 587, 5509-5510.	2.9	2
106	Realâ€Time RTâ€PCR Ct Values for Blood GAPDH Correlate with Measures of Vascular Endothelial Function in Humans. Clinical and Translational Science, 2013, 6, 481-484.	3.1	2
107	Real-time RT-PCR threshold cycles value for Kir6.1 from the blood correlates with parameters of vascular function: a potential for the vascular function biomarker?. Biomarkers, 2013, 18, 221-229.	1.9	2
108	Diadenosine Polyphosphate Signaling in the Heart. , 2001, , 693-702.		2

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109	Diadenosine polyphosphate-induced inhibition of cardiac K. Pflugers Archiv European Journal of Physiology, 1996, 431, 800.	2.8	2
110	Increase in cardioprotective SUR2A does not alter heart rate and heart rate regulation by physical activity and diurnal rhythm. Journal of Basic and Clinical Physiology and Pharmacology, 2021, .	1.3	2
111	The synergistic action of antioxidative enzymes - correlations of catalase and superoxide dismutase in the development and during the treatment of type 2 diabetes. Srpski Arhiv Za Celokupno Lekarstvo, 2019, 147, 286-294.	0.2	1
112	SUR2A: How to exploit this protein to treat ischaemic heart disease?. Arhiv Za Farmaciju, 2020, 70, 1-9.	0.5	1
113	SUR2A as a base for cardioprotective therapeutic strategies. Molecular Biology Reports, 2022, , 1.	2.3	1
114	3.P.208 Vascular endothelium protects human internal mammary artery against acetylcholine-induced contractions: Importance of nitric oxide. Atherosclerosis, 1997, 134, 242.	0.8	0
115	Regulation of cell survival by KATP channels: Sarcolemmal, mitochondrial or both?. Journal of Molecular and Cellular Cardiology, 2006, 40, 964.	1.9	0
116	Isosteviol Protects H9c2 Cells Against Hypoxia-reoxygenation by Activating ERK1/2. Cardiovascular & Hematological Disorders Drug Targets, 2021, 21, 73-77.	0.7	0
117	Trauma, possible cause of localized unilateral hyperhidrosis of the face?. Srpski Arhiv Za Celokupno Lekarstvo, 2021, 149, 83-86.	0.2	0
118	On the synthesis of N-maleoyl amino acids in aqueous media: cautionary tales for the unwary traveller. Arkivoc, 2010, 2010, 11-16.	0.5	0
119	The olfactory bulb - gateway for SARS-Cov-2?. Vojnosanitetski Pregled, 2022, 79, 526-531.	0.2	0
120	WHICH PRECOCIAL RODENT SPECIES IS MORE SUITABLE AS THE EXPERIMENTAL MODEL OF MICROGRAVITY INFLUENCE ON PRENATAL MUSCULOSKETAL DEVELOPMENT ON INTERNATIONAL SPACE STATION?. Life Sciences in Space Research, 2022, 33, 48-57.	2.3	0