

Ryszard Smolenski

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

106
papers

1,672
citations

22
h-index

35
g-index

117
ext. papers

2,026
ext. citations

4.6
avg, IF

4.49
L-index

#	Paper	IF	Citations
106	The comparison of nucleotide metabolites and amino acids patterns in patients with eating disorders, with and without symptoms of depression.. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2022 , 1-9	1.4	0
105	The effect of lactate dehydrogenase-A inhibition on intracellular nucleotides and mitochondrial respiration in pancreatic cancer cells.. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2022 , 1-11	1.4	0
104	Differences in Extracellular NAD ⁺ and NMN Metabolism on the Surface of Vascular Endothelial Cells. <i>Biology</i> , 2022 , 11, 675	4.9	1
103	4-Pyridone-3-carboxamide-1- β -D-ribose (4PYR) A Novel Oncometabolite Modulating Cancer-Endothelial Interactions in Breast Cancer Metastasis. <i>International Journal of Molecular Sciences</i> , 2022 , 23, 5774	6.3	
102	Macrophage-Derived Adenosine Deaminase 2 Correlates with M2 Macrophage Phenotype in Triple Negative Breast Cancer. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
101	Purine Nucleotides Metabolism and Signaling in Huntington's Disease: Search for a Target for Novel Therapies. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
100	The new insight into extracellular NAD degradation-the contribution of CD38 and CD73 in calcific aortic valve disease. <i>Journal of Cellular and Molecular Medicine</i> , 2021 , 25, 5884	5.6	3
99	Physical Activity and Inhibition of ACE Additively Modulate ACE/ACE-2 Balance in Heart Failure in Mice. <i>Frontiers in Pharmacology</i> , 2021 , 12, 682432	5.6	2
98	Hair dysmorphology in the R6/1 and R6/2 mouse models of Huntington's disease. <i>Gene</i> , 2021 , 765, 145133	3.3	0
97	Enhanced cardiac hypoxic injury in atherogenic dyslipidaemia results from alterations in the energy metabolism pattern. <i>Metabolism: Clinical and Experimental</i> , 2021 , 114, 154400	12.7	1
96	Comparison of plasma nucleotide metabolites and amino acids pattern in patients with binge eating disorder and obesity. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2021 , 40, 32-42	1.4	1
95	Multi-omic signatures of atherogenic dyslipidaemia: pre-clinical target identification and validation in humans. <i>Journal of Translational Medicine</i> , 2021 , 19, 6	8.5	2
94	Angiotensin II receptor 1 controls profibrotic Wnt/ β -catenin signalling in experimental autoimmune myocarditis. <i>Cardiovascular Research</i> , 2021 ,	9.9	4
93	Reversal of endothelial dysfunction by nicotinamide mononucleotide via extracellular conversion to nicotinamide riboside. <i>Biochemical Pharmacology</i> , 2020 , 178, 114019	6	24
92	Impact of hypoxia on chemoresistance of mesothelioma mediated by the proton-coupled folate transporter, and preclinical activity of new anti-LDH-A compounds. <i>British Journal of Cancer</i> , 2020 , 123, 644-656	8.7	15
91	Statin treatment of patients with calcific aortic valve disease modulates extracellular adenosine metabolism on the cell surface of the aortic valve. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2020 , 39, 1389-1399	1.4	
90	The effect of trehalose on intracellular and extracellular nucleotide metabolism. A pilot study. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2020 , 39, 1400-1409	1.4	0

89	Systemic Effects of Radiotherapy and Concurrent Chemo-Radiotherapy in Head and Neck Cancer Patients-Comparison of Serum Metabolome Profiles. <i>Metabolites</i> , 2020 , 10,	5.6	8
88	Lactate dehydrogenase A inhibition by small molecular entities: steps in the right direction. <i>Oncoscience</i> , 2020 , 7, 76-80	0.8	1
87	Lactate dehydrogenase A inhibition by small molecular entities: steps in the right direction. <i>Oncoscience</i> , 2020 , 7, 76-80	0.8	2
86	Therapeutic Perspectives of Adenosine Deaminase Inhibition in Cardiovascular Diseases. <i>Molecules</i> , 2020 , 25,	4.8	13
85	Huntingtin protein maintains balanced energetics in mouse cardiomyocytes. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2020 , 1-8	1.4	4
84	Nucleotide ecto-enzyme metabolic pattern and spatial distribution in calcific aortic valve disease; its relation to pathological changes and clinical presentation. <i>Clinical Research in Cardiology</i> , 2020 , 109, 137-160	6.1	9
83	Biomimetic electromechanical stimulation to maintain adult myocardial slices in vitro. <i>Nature Communications</i> , 2019 , 10, 2168	17.4	28
82	Increased plasma concentration of 4-pyridone-3-carboxamide-1- β -D-ribose nucleoside (4PYR) in lung cancer. Preliminary studies. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2019 , 38, 781-787	1.4	2
81	Untargeted Metabolomics Provides Insight into the Mechanisms Underlying Resistant Hypertension. <i>Current Medicinal Chemistry</i> , 2019 , 26, 232-243	4.3	4
80	Inhibition of LPS-stimulated ecto-adenosine deaminase attenuates endothelial cell activation. <i>Journal of Molecular and Cellular Cardiology</i> , 2019 , 128, 62-76	5.8	8
79	CD73 Regulates Stemness and Epithelial-Mesenchymal Transition in Ovarian Cancer-Initiating Cells. <i>Stem Cell Reports</i> , 2018 , 10, 1412-1425	8	57
78	Simultaneous accurate quantification of HO-1, CD39, and CD73 in human calcified aortic valves using multiple enzyme digestion - filter aided sample pretreatment (MED-FASP) method and targeted proteomics. <i>Talanta</i> , 2018 , 182, 492-499	6.2	6
77	Activation pattern of ACE2/Ang-(1-7) and ACE/Ang II pathway in course of heart failure assessed by multiparametric MRI in vivo in Tg α *44 mice. <i>Journal of Applied Physiology</i> , 2018 , 124, 52-65	3.7	11
76	Cardioprotective effect of N-methylnicotinamide salt of pyruvate in experimental model of cardiac hypoxia. <i>Pharmacological Reports</i> , 2018 , 70, 378-384	3.9	1
75	CD39 and CD73 in the aortic valve-biochemical and immunohistochemical analysis in valve cell populations and its changes in valve mineralization. <i>Cardiovascular Pathology</i> , 2018 , 36, 53-63	3.8	4
74	Vascular extracellular adenosine metabolism in mice correlates with susceptibility to atherosclerosis. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2018 , 37, 653-662	1.4	5
73	Metabolism of 4-pyridone-3-carboxamide-1- β -D-ribose nucleoside (4PYR) in primary murine brain microvascular endothelial cells (mBMECs). <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2018 , 37, 639-644	1.4	2
72	The metabolism of ecto-5Pnucleotidase (CD73) inhibitor- α -methylene adenosine diphosphate in BALB/c mice. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2018 , 37, 709-716	1.4	3

71	Characterization of adenine nucleotide metabolism in the cellular model of Huntington β disease. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2018 , 37, 630-638	1.4	5
70	The effects of pro- and anti-atherosclerotic factors on intracellular nucleotide concentration in murine endothelial cells. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2018 , 37, 645-652	1.4	4
69	Adenosine deaminase inhibition suppresses progression of 4T1 murine breast cancer by adenosine receptor-dependent mechanisms. <i>Journal of Cellular and Molecular Medicine</i> , 2018 , 22, 5939-5954	5.6	23
68	Evidence That the Length of Bile Loop Determines Serum Bile Acid Concentration and Glycemic Control After Bariatric Surgery. <i>Obesity Surgery</i> , 2018 , 28, 3405-3414	3.7	20
67	Deletion of CD73 in mice leads to aortic valve dysfunction. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017 , 1863, 1464-1472	6.9	10
66	Complete deletion of is atheroprotective in apolipoprotein E-deficient mice. <i>Journal of Lipid Research</i> , 2017 , 58, 1292-1305	6.3	9
65	A Primer to Angiotensin Peptide Isolation, Stability, and Analysis by Nano-Liquid Chromatography with Mass Detection. <i>Methods in Molecular Biology</i> , 2017 , 1614, 175-187	1.4	9
64	Chronic Myocardial Ischemia Leads to Loss of Maximal Oxygen Consumption and Complex I Dysfunction. <i>Annals of Thoracic Surgery</i> , 2017 , 104, 1298-1304	2.7	7
63	Metabolic pathway of 4-pyridone-3-carboxamide-1 β -D-ribo-nucleoside and its effects on cellular energetics. <i>International Journal of Biochemistry and Cell Biology</i> , 2017 , 88, 31-43	5.6	8
62	Application of a new procedure for liquid chromatography/mass spectrometry profiling of plasma amino acid-related metabolites and untargeted shotgun proteomics to identify mechanisms and biomarkers of calcific aortic stenosis. <i>Journal of Chromatography A</i> , 2017 , 1517, 66-78	4.5	24
61	Improved metabolism and redox state with a novel preservation solution: implications for donor lungs after cardiac death (DCD). <i>Pulmonary Circulation</i> , 2017 , 7, 494-504	2.7	2
60	Moderate-intensity endurance training improves endothelial glycocalyx layer integrity in healthy young men. <i>Experimental Physiology</i> , 2017 , 102, 70-85	2.4	18
59	Functional and Biochemical Endothelial Profiling in a Murine Model of Endothelial Dysfunction; Comparison of Effects of 1-Methylnicotinamide and Angiotensin-converting Enzyme Inhibitor. <i>Frontiers in Pharmacology</i> , 2017 , 8, 183	5.6	19
58	Transcriptional Signature of an Altered Purine Metabolism in the Skeletal Muscle of a Huntington β Disease Mouse Model. <i>Frontiers in Physiology</i> , 2017 , 8, 127	4.6	16
57	An impaired metabolism of nucleotides underpins a novel mechanism of cardiac remodeling leading to Huntington β disease related cardiomyopathy. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2016 , 1862, 2147-2157	6.9	25
56	Narrow time window of metabolic changes associated with transition to overt heart failure in Tg α *44 mice. <i>Pharmacological Reports</i> , 2016 , 68, 707-14	3.9	10
55	Nucleotide Catabolism on the Surface of Aortic Valve Xenografts; Effects of Different Decellularization Strategies. <i>Journal of Cardiovascular Translational Research</i> , 2016 , 9, 119-26	3.3	3
54	Plasma concentrations of amino acid and nicotinamide metabolites in rheumatoid arthritis--potential biomarkers of disease activity and drug treatment. <i>Biomarkers</i> , 2016 , 21, 218-24	2.6	24

53	Effects of 4-Pyridone-3-carboxamide-1 β -D-ribo-nucleoside on adenine nucleotide catabolism in the aortic wall; Implications for atherosclerosis in ApoE-/-LDLR-/- mice. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2016 , 35, 720-725	1.4	1
52	Oxidized low-density lipoproteins enhance expression and activity of CD39 and CD73 in the human aortic valve endothelium. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2016 , 35, 713-719	1.4	6
51	Changes in cardiac nucleotide metabolism in Huntington's disease. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2016 , 35, 707-712	1.4	11
50	Polymorphism in exon 6 of the human NT5E gene is associated with aortic valve calcification. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2016 , 35, 726-731	1.4	6
49	Increased activity of vascular adenosine deaminase in atherosclerosis and therapeutic potential of its inhibition. <i>Cardiovascular Research</i> , 2016 , 112, 590-605	9.9	27
48	Differential involvement of IL-6 in the early and late phase of 1-methylnicotinamide (MNA) release in Concanavalin A-induced hepatitis. <i>International Immunopharmacology</i> , 2015 , 28, 105-114	5.8	16
47	Inhibition of AMP deaminase as therapeutic target in cardiovascular pathology. <i>Pharmacological Reports</i> , 2015 , 67, 682-8	3.9	20
46	HDAC4-myogenin axis as an important marker of HD-related skeletal muscle atrophy. <i>PLoS Genetics</i> , 2015 , 11, e1005021	6	44
45	Perspectives for angiotensin profiling with liquid chromatography/mass spectrometry to evaluate ACE/ACE2 balance in endothelial dysfunction and vascular pathologies. <i>Pharmacological Reports</i> , 2015 , 67, 778-85	3.9	16
44	Development and analytical comparison of microflow and nanoflow liquid chromatography/mass spectrometry procedures for quantification of cardiac troponin T in mouse hearts. <i>Talanta</i> , 2015 , 131, 510-20	6.2	10
43	Influence of glutathione-S-transferase (GST) inhibition on lung epithelial cell injury: role of oxidative stress and metabolism. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015 , 308, L1274-85	5.8	17
42	Development of a sensitive, accurate and robust liquid chromatography/mass spectrometric method for profiling of angiotensin peptides in plasma and its application for atherosclerotic mice. <i>Journal of Chromatography A</i> , 2015 , 1393, 37-46	4.5	17
41	Endothelial toxicity of unusual nucleotide metabolites. <i>Pharmacological Reports</i> , 2015 , 67, 818-22	3.9	6
40	The role of ecto-5'Nucleotidase in endothelial dysfunction and vascular pathologies. <i>Pharmacological Reports</i> , 2015 , 67, 675-81	3.9	23
39	Co-expression of functional human Heme Oxygenase 1, Ecto-5'Nucleotidase and ecto-nucleoside triphosphate diphosphohydrolase-1 by "self-cleaving" 2A peptide system. <i>Plasmid</i> , 2015 , 79, 22-9	3.3	6
38	Down-regulation of Zac1 gene expression in rat white adipose tissue by androgens. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2014 , 140, 63-70	5.1	4
37	Extracellular adenine nucleotide catabolism in heart valves. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2014 , 33, 329-32	1.4	6
36	Effect of 4-pyridone-3-carboxamide ribonucleoside (4PYR)-potential cardiovascular toxin in perfused rat heart. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2014 , 33, 333-7	1.4	5

35	Extracellular nucleotide catabolism in aortoiliac bifurcation of atherosclerotic ApoE/LDLr double knock out mice. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2014 , 33, 323-8	1.4	10
34	4-Pyridone-3-carboxamide-1- β -D-ribose nucleoside metabolism in endothelial cells and its impact on cellular energetic balance. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2014 , 33, 338-41	1.4	9
33	AMP deaminase 1 gene polymorphism and heart disease-a genetic association that highlights new treatment. <i>Cardiovascular Drugs and Therapy</i> , 2014 , 28, 183-9	3.9	11
32	Nucleotide metabolic mismatches in mammalian hearts: implications for transplantation. <i>Annals of the Royal College of Surgeons of England</i> , 2013 , 95, 9-14	1.4	3
31	AMP-activated protein kinase (AMPK)-dependent and -independent pathways regulate hypoxic inhibition of transepithelial Na ⁺ transport across human airway epithelial cells. <i>British Journal of Pharmacology</i> , 2012 , 167, 368-82	8.6	17
30	Cellular toxicity of nicotinamide metabolites. <i>Journal of Renal Nutrition</i> , 2012 , 22, 95-7	3	17
29	4-Pyridone-3-carboxamide-1- β -D-ribose nucleoside triphosphate (4PyTP), a novel NAD metabolite accumulating in erythrocytes of uremic children: a biomarker for a toxic NAD analogue in other tissues?. <i>Toxins</i> , 2011 , 3, 520-37	4.9	16
28	1-Methylnicotinamide and nicotinamide: two related anti-inflammatory agents that differentially affect the functions of activated macrophages. <i>Archivum Immunologiae Et Therapiae Experimentalis</i> , 2008 , 56, 127-34	4	54
27	1-Methylnicotinamide (MNA) prevents endothelial dysfunction in hypertriglyceridemic and diabetic rats. <i>Pharmacological Reports</i> , 2008 , 60, 127-38	3.9	46
26	Metabolic and genetic regulation of cardiac energy substrate preference. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2007 , 146, 26-39	2.6	116
25	Reduction of hyperacute rejection and protection of metabolism and function in hearts of human decay accelerating factor (hDAF)-expressing pigs. <i>Cardiovascular Research</i> , 2007 , 73, 143-52	9.9	15
24	Exercise stress test and comparison of ST change with cardiac nucleotide catabolite production in patients with coronary artery disease. <i>Cardiology Journal</i> , 2007 , 14, 573-9	1.4	6
23	A novel role of extracellular nucleotides in valve calcification: a potential target for atorvastatin. <i>Circulation</i> , 2006 , 114, 1566-72	16.7	42
22	A novel nucleotide found in human erythrocytes, 4-pyridone-3-carboxamide-1- β -D-ribose nucleoside triphosphate. <i>Journal of Biological Chemistry</i> , 2006 , 281, 32057-64	5.4	30
21	Species differences of endothelial extracellular nucleotide metabolism and its implications for xenotransplantation. <i>Pharmacological Reports</i> , 2006 , 58 Suppl, 118-25	3.9	5
20	Expression of human ecto-5' nucleotidase in pig endothelium increases adenosine production and protects from NK cell-mediated lysis. <i>American Journal of Transplantation</i> , 2005 , 5, 1248-55	8.7	17
19	Effects of chronic administration of clenbuterol on function and metabolism of adult rat cardiac muscle. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005 , 288, H1468-76	5.2	53
18	C34T AMP deaminase 1 gene mutation protects cardiac function in donors. <i>Transplantation</i> , 2004 , 77, 1621-3	1.8	7

17	Decreased cardiac activity of AMP deaminase in subjects with the AMPD1 mutation--a potential mechanism of protection in heart failure. <i>Cardiovascular Research</i> , 2003 , 59, 678-84	9.9	32
16	Protection from reperfusion injury after cardiac transplantation by inhibition of adenosine metabolism and nucleotide precursor supply. <i>Circulation</i> , 2001 , 104, 1246-52	16.7	25
15	Pyruvate/dichloroacetate supply during reperfusion accelerates recovery of cardiac energetics and improves mechanical function following cardioplegic arrest. <i>European Journal of Cardio-thoracic Surgery</i> , 2001 , 19, 865-72	3	10
14	Heat Shock Protein 70 Gene Transfection Protects Mitochondrial and Ventricular Function Against Ischemia-Reperfusion Injury. <i>Circulation</i> , 2001 , 104,	16.7	2
13	Overexpression of Interleukin-1 Receptor Antagonist Provides Cardioprotection Against Ischemia-Reperfusion Injury Associated With Reduction in Apoptosis. <i>Circulation</i> , 2001 , 104,	16.7	5
12	Enhanced endogenous adenosine production and protection of the heart after transplantation. <i>Advances in Experimental Medicine and Biology</i> , 2000 , 486, 167-70	3.6	3
11	Accelerated degradation of adenine nucleotide in erythrocytes of patients with chronic renal failure. <i>Molecular and Cellular Biochemistry</i> , 2000 , 213, 93-7	4.2	7
10	Energy metabolism and mechanical recovery after cardioplegia in moderately hypertrophied rats. <i>Molecular and Cellular Biochemistry</i> , 1998 , 180, 137-143	4.2	12
9	Effects of nucleoside transport inhibitors and adenine/ribose supply on ATP concentration and adenosine production in cardiac myocytes. <i>Molecular and Cellular Biochemistry</i> , 1998 , 180, 193-199	4.2	11
8	Adenine/ribose supply increases adenosine production and protects ATP pool in adenosine kinase-inhibited cardiac cells. <i>Journal of Molecular and Cellular Cardiology</i> , 1998 , 30, 673-83	5.8	26
7	Functional and metabolic effects of adenosine in cardioplegia: role of temperature and concentration. <i>Annals of Thoracic Surgery</i> , 1997 , 63, 449-54; discussion 454-5	2.7	17
6	Erythrocyte nucleotides and blood hypoxanthine in patients with uremia evaluated immediately and 24 hours after hemodialysis. <i>Renal Failure</i> , 1996 , 18, 247-52	2.9	5
5	Hyperthyroidism increases adenosine transport and metabolism in the rat heart. <i>Molecular and Cellular Biochemistry</i> , 1995 , 143, 143-9	4.2	15
4	Nucleotide and adenosine metabolism in different cell types of human and rat heart. <i>Journal of Molecular and Cellular Cardiology</i> , 1994 , 26, 1497-503	5.8	40
3	Liquid chromatographic evaluation of purine production in the donor human heart during transplantation. <i>Biomedical Chromatography</i> , 1993 , 7, 189-95	1.7	24
2	A high performance liquid chromatographic assay for AMP-deaminase activity in the erythrocytes of healthy subjects and patients with inherited purine disorders. <i>Biomedical Chromatography</i> , 1991 , 5, 171-4	1.7	4
1	Determination of sixteen nucleotides, nucleosides and bases using high-performance liquid chromatography and its application to the study of purine metabolism in hearts for transplantation. <i>Biomedical Applications</i> , 1990 , 527, 414-20		253