

Ryszard Smolenski

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2486191/ryszard-smolenski-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
105	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
104	CD73 Regulates Stemness and Epithelial-Mesenchymal Transition in Ovarian Cancer-Initiating Cells. <i>Stem Cell Reports</i> , 2018 , 10, 1412-1425	8	57
103	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
102	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
101	1-Methylnicotinamide (MNA) prevents endothelial dysfunction in hypertriglyceridemic and diabetic rats. <i>Pharmacological Reports</i> , 2008 , 60, 127-38	3.9	46
100	HDAC4-myogenin axis as an important marker of HD-related skeletal muscle atrophy. <i>PLoS Genetics</i> , 2015 , 11, e1005021	6	44
99	A novel role of extracellular nucleotides in valve calcification: a potential target for atorvastatin. <i>Circulation</i> , 2006 , 114, I566-72	16.7	42
98	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
97	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
96	A novel nucleotide found in human erythrocytes, 4-pyridone-3-carboxamide-1-beta-D-ribose triphosphate. <i>Journal of Biological Chemistry</i> , 2006 , 281, 32057-64	5.4	30
95	Biomimetic electromechanical stimulation to maintain adult myocardial slices in vitro. <i>Nature Communications</i> , 2019 , 10, 2168	17.4	28
94	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
93	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
92	An impaired metabolism of nucleotides underpins a novel mechanism of cardiac remodeling leading to Huntington's disease related cardiomyopathy. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2016 , 1862, 2147-2157	6.9	25
91	Protection from reperfusion injury after cardiac transplantation by inhibition of adenosine metabolism and nucleotide precursor supply. <i>Circulation</i> , 2001 , 104, I246-52	16.7	25
90	Reversal of endothelial dysfunction by nicotinamide mononucleotide via extracellular conversion to nicotinamide riboside. <i>Biochemical Pharmacology</i> , 2020 , 178, 114019	6	24

89	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
88	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
87	Liquid chromatographic evaluation of purine production in the donor human heart during transplantation. <i>Biomedical Chromatography</i> , 1993 , 7, 189-95	1.7	24
86	The role of ecto-5Pnucleotidase in endothelial dysfunction and vascular pathologies. <i>Pharmacological Reports</i> , 2015 , 67, 675-81	3.9	23
85	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
84	Inhibition of AMP deaminase as therapeutic target in cardiovascular pathology. <i>Pharmacological Reports</i> , 2015 , 67, 682-8	3.9	20
83	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
82	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
81	Moderate-intensity endurance training improves endothelial glycocalyx layer integrity in healthy young men. <i>Experimental Physiology</i> , 2017 , 102, 70-85	2.4	18
80	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
79	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
78	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
77	Cellular toxicity of nicotinamide metabolites. <i>Journal of Renal Nutrition</i> , 2012 , 22, 95-7	3	17
76	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
75	Expression of human ecto-5Pnucleotidase 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
74	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, 105-14	5.8	16
73	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
72	Transcriptional Signature of an Altered Purine Metabolism in the Skeletal Muscle of a Huntington ^B Disease Mouse Model. <i>Frontiers in Physiology</i> , 2017 , 8, 127	4.6	16

71	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
70	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
69	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
68	Hyperthyroidism increases adenosine transport and metabolism in the rat heart. <i>Molecular and Cellular Biochemistry</i> , 1995 , 143, 143-9	4.2	15
67	Therapeutic Perspectives of Adenosine Deaminase Inhibition in Cardiovascular Diseases. <i>Molecules</i> , 2020 , 25,	4.8	13
66	Energy metabolism and mechanical recovery after cardioplegia in moderately hypertrophied rats. <i>Molecular and Cellular Biochemistry</i> , 1998 , 180, 137-143	4.2	12
65	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
64	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
63	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
62	Changes in cardiac nucleotide metabolism in Huntington's disease. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2016 , 35, 707-712	1.4	11
61	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
60	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
59	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
58	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
57	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
56	Complete deletion of is atheroprotective in apolipoprotein E-deficient mice. <i>Journal of Lipid Research</i> , 2017 , 58, 1292-1305	6.3	9
55	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
54	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

53	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
52	Metabolic pathway of 4-pyridone-3-carboxamide-1 β -ribose nucleoside and its effects on cellular energetics. <i>International Journal of Biochemistry and Cell Biology</i> , 2017 , 88, 31-43	5.6	8
51	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
50	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
49	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
48	C34T AMP deaminase 1 gene mutation protects cardiac function in donors. <i>Transplantation</i> , 2004 , 77, 1621-3	1.8	7
47	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
46	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
45	Extracellular adenine nucleotide catabolism in heart valves. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2014 , 33, 329-32	1.4	6
44	Endothelial toxicity of unusual nucleotide metabolites. <i>Pharmacological Reports</i> , 2015 , 67, 818-22	3.9	6
43	Co-expression of functional human Heme Oxygenase 1, Ecto-5PNucleotidase and ecto-nucleoside triphosphate diphosphohydrolase-1 by "self-cleaving" 2A peptide system. <i>Plasmid</i> , 2015 , 79, 22-9	3.3	6
42	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
41	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
40	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
39	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
38	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
37	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
36	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

35	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
34	Species differences of endothelial extracellular nucleotide metabolism and its implications for xenotransplantation. <i>Pharmacological Reports</i> , 2006 , 58 Suppl, 118-25	3.9	5
33	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
32	Untargeted Metabolomics Provides Insight into the Mechanisms Underlying Resistant Hypertension. <i>Current Medicinal Chemistry</i> , 2019 , 26, 232-243	4.3	4
31	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
30	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
29	Huntingtin protein maintains balanced energetics in mouse cardiomyocytes. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2020 , 1-8	1.4	4
28	Angiotensin II receptor 1 controls profibrotic Wnt/ β -catenin signalling in experimental autoimmune myocarditis. <i>Cardiovascular Research</i> , 2021 ,	9.9	4
27	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
26	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
25	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
24	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
23	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
22	Purine Nucleotides Metabolism and Signaling in Huntington β Disease: Search for a Target for Novel Therapies. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
21	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
20	The metabolism of ecto-5Pnucleotidase (CD73) inhibitor- β -methylene adenosine diphosphate in BALB/c mice. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2018 , 37, 709-716	1.4	3
19	Increased plasma concentration of 4-pyridone-3-carboxamide-1- β -D-ribose (4PYR) in lung cancer. Preliminary studies. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2019 , 38, 781-787	1.4	2
18	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

17	Heat Shock Protein 70 Gene Transfection Protects Mitochondrial and Ventricular Function Against Ischemia-Reperfusion Injury. <i>Circulation</i> , 2001 , 104,	16.7	2
16	Lactate dehydrogenase A inhibition by small molecular entities: steps in the right direction. <i>Oncoscience</i> , 2020 , 7, 76-80	0.8	2
15	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
14	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
13	Metabolism of 4-pyridone-3-carboxamide-1 β -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
12	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
11	Lactate dehydrogenase A inhibition by small molecular entities: steps in the right direction. <i>Oncoscience</i> , 2020 , 7, 76-80	0.8	1
10	Effects of 4-Pyridone-3-carboxamide-1 β -ribose 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
9	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
8	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
7	Differences in Extracellular NAD ⁺ and NMN Metabolism on the Surface of Vascular Endothelial Cells. <i>Biology</i> , 2022 , 11, 675	4.9	1
6	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
5	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
4	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
3	Hair dysmorphology in the R6/1 and R6/2 mouse models of Huntington's disease. <i>Gene</i> , 2021 , 765, 145133	3.3	0
2	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	
1	4-Pyridone-3-carboxamide-1 β -ribose nucleoside (4PYR) A Novel Oncometabolite Modulating Cancer-Endothelial Interactions in Breast Cancer Metastasis. <i>International Journal of Molecular Sciences</i> , 2022 , 23, 5774	6.3	