Ryszard Smolenski

List of Publications by Year
in descending order

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115	2,346	236833	265120
papers	citations	25 h-index	42 g-index

117	117	117	2966
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
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. Biomedical Applications, 1990, 527, 414-420.	1.7	290
2	Metabolic and genetic regulation of cardiac energy substrate preference. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2007, 146, 26-39.	0.8	134
3	CD73 Regulates Stemness and Epithelial-Mesenchymal Transition in Ovarian Cancer-Initiating Cells. Stem Cell Reports, 2018, 10, 1412-1425.	2.3	94
4	Biomimetic electromechanical stimulation to maintain adult myocardial slices in vitro. Nature Communications, 2019, 10, 2168.	5.8	68
5	Effects of chronic administration of clenbuterol on function and metabolism of adult rat cardiac muscle. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 288, H1468-H1476.	1.5	62
6	1-Methylnicotinamide and nicotinamide: two related anti-inflammatory agents that differentially affect the functions of activated macrophages. Archivum Immunologiae Et Therapiae Experimentalis, 2008, 56, 127-134.	1.0	59
7	HDAC4-Myogenin Axis As an Important Marker of HD-Related Skeletal Muscle Atrophy. PLoS Genetics, 2015, 11, e1005021.	1.5	56
8	Reversal of endothelial dysfunction by nicotinamide mononucleotide via extracellular conversion to nicotinamide riboside. Biochemical Pharmacology, 2020, 178, 114019.	2.0	52
9	1-Methylnicotinamide (MNA) prevents endothelial dysfunction in hypertriglyceridemic and diabetic rats. Pharmacological Reports, 2008, 60, 127-38.	1.5	51
10	A Novel Role of Extracellular Nucleotides in Valve Calcification: A Potential Target for Atorvastatin. Circulation, 2006, 114, I-566-I-572.	1.6	50
11	Nucleotide and Adenosine Metabolism in Different Cell Types of Human and Rat Heart. Journal of Molecular and Cellular Cardiology, 1994, 26, 1497-1503.	0.9	44
12	Increased activity of vascular adenosine deaminase in atherosclerosis and therapeutic potential of its inhibition. Cardiovascular Research, 2016, 112, 590-605.	1.8	43
13	An impaired metabolism of nucleotides underpins a novel mechanism of cardiac remodeling leading to Huntington's disease related cardiomyopathy. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2016, 1862, 2147-2157.	1.8	42
14	Adenosine deaminase inhibition suppresses progression of 4T1 murine breast cancer by adenosine receptorâ€dependent mechanisms. Journal of Cellular and Molecular Medicine, 2018, 22, 5939-5954.	1.6	41
15	Decreased cardiac activity of AMP deaminase in subjects with the AMPD1 mutationâ€"A potential mechanism of protection in heart failure. Cardiovascular Research, 2003, 59, 678-684.	1.8	37
16	Therapeutic Perspectives of Adenosine Deaminase Inhibition in Cardiovascular Diseases. Molecules, 2020, 25, 4652.	1.7	36
17	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. Journal of Chromatography A, 2017, 1517, 66-78.	1.8	35
18	Adenine/Ribose Supply Increases Adenosine Production and Protects ATP Pool in Adenosine Kinase-inhibited Cardiac Cells. Journal of Molecular and Cellular Cardiology, 1998, 30, 673-683.	0.9	33

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19	A Novel Nucleotide Found in Human Erythrocytes, 4-Pyridone-3-carboxamide-1-Î²-d-ribonucleoside Triphosphate*. Journal of Biological Chemistry, 2006, 281, 32057-32064.	1.6	33
20	Plasma concentrations of amino acid and nicotinamide metabolites in rheumatoid arthritis â€“ potential biomarkers of disease activity and drug treatment. Biomarkers, 2016, 21, 218-224.	0.9	33
21	The role of ecto-5â€²-nucleotidase in endothelial dysfunction and vascular pathologies. Pharmacological Reports, 2015, 67, 675-681.	1.5	32
22	Inhibition of AMP deaminase as therapeutic target in cardiovascular pathology. Pharmacological Reports, 2015, 67, 682-688.	1.5	30
23	Evidence That the Length of Bile Loop Determines Serum Bile Acid Concentration and Glycemic Control After Bariatric Surgery. Obesity Surgery, 2018, 28, 3405-3414.	1.1	30
24	Impact of hypoxia on chemoresistance of mesothelioma mediated by the proton-coupled folate transporter, and preclinical activity of new anti-LDH-A compounds. British Journal of Cancer, 2020, 123, 644-656.	2.9	29
25	Protection From Reperfusion Injury After Cardiac Transplantation by Inhibition of Adenosine Metabolism and Nucleotide Precursor Supply. Circulation, 2001, 104, I-246-I-252.	1.6	28
26	Liquid chromatographic evaluation of purine production in the donor human heart during transplantation. Biomedical Chromatography, 1993, 7, 189-195.	0.8	26
27	Perspectives for angiotensin profiling with liquid chromatography/mass spectrometry to evaluate ACE/ACE2 balance in endothelial dysfunction and vascular pathologies. Pharmacological Reports, 2015, 67, 778-785.	1.5	26
28	Moderateâ€intensity endurance training improves endothelial glycocalyx layer integrity in healthy young men. Experimental Physiology, 2017, 102, 70-85.	0.9	26
29	Influence of glutathione-S-transferase (GST) inhibition on lung epithelial cell injury: role of oxidative stress and metabolism. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2015, 308, L1274-L1285.	1.3	23
30	Functional and Biochemical Endothelial Profiling In Vivo in a Murine Model of Endothelial Dysfunction; Comparison of Effects of 1-Methylnicotinamide and Angiotensin-converting Enzyme Inhibitor. Frontiers in Pharmacology, 2017, 8, 183.	1.6	22
31	Transcriptional Signature of an Altered Purine Metabolism in the Skeletal Muscle of a Huntington's Disease Mouse Model. Frontiers in Physiology, 2017, 8, 127.	1.3	22
32	AMPâ€activated protein kinase (AMPK)â€“dependent and â€“independent pathways regulate hypoxic inhibition of transepithelial Na⁺ transport across human airway epithelial cells. British Journal of Pharmacology, 2012, 167, 368-382.	2.7	21
33	Differential involvement of IL-6 in the early and late phase of 1-methylnicotinamide (MNA) release in Concanavalin A-induced hepatitis. International Immunopharmacology, 2015, 28, 105-114.	1.7	21
34	Functional and Metabolic Effects of Adenosine in Cardioplegia: Role of Temperature and Concentration. Annals of Thoracic Surgery, 1997, 63, 449-454.	0.7	20
35	Cellular Toxicity of Nicotinamide Metabolites. , 2012, 22, 95-97.		20
36	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. Journal of Chromatography A, 2015, 1393, 37-46.	1.8	20

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37	Inhibition of LPS-stimulated ecto-adenosine deaminase attenuates endothelial cell activation. Journal of Molecular and Cellular Cardiology, 2019, 128, 62-76.	0.9	20
38	Expression of Human Ecto-5'-Nucleotidase in Pig Endothelium Increases Adenosine Production and Protects from NK Cell-Mediated Lysis. American Journal of Transplantation, 2005, 5, 1248-1255.	2.6	19
39	Reduction of hyperacute rejection and protection of metabolism and function in hearts of human decay accelerating factor (hDAF)-expressing pigsâ˜†. Cardiovascular Research, 2007, 73, 143-152.	1.8	19
40	4-Pyridone-3-carboxamide-1-Î²-d-ribonucleoside Triphosphate (4PyTP), a Novel NAD+ Metabolite Accumulating in Erythrocytes of Uremic Children: A Biomarker for a Toxic NAD+ Analogue in Other Tissues?. Toxins, 2011, 3, 520-537.	1.5	19
41	Chronic Myocardial Ischemia Leads to Loss of Maximal Oxygen Consumption and Complex I Dysfunction. Annals of Thoracic Surgery, 2017, 104, 1298-1304.	0.7	18
42	Systemic Effects of Radiotherapy and Concurrent Chemo-Radiotherapy in Head and Neck Cancer Patientsâ€"Comparison of Serum Metabolome Profiles. Metabolites, 2020, 10, 60.	1.3	18
43	Deletion of CD73 in mice leads to aortic valve dysfunction. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2017, 1863, 1464-1472.	1.8	16
44	Activation pattern of ACE2/Ang-(1â€"7) and ACE/Ang II pathway in course of heart failure assessed by multiparametric MRI in vivo in Tgİ±q*44 mice. Journal of Applied Physiology, 2018, 124, 52-65.	1.2	16
45	Macrophage-Derived Adenosine Deaminase 2 Correlates with M2 Macrophage Phenotype in Triple Negative Breast Cancer. International Journal of Molecular Sciences, 2021, 22, 3764.	1.8	16
46	Hyperthyroidism increases adenosine transport and metabolism in the rat heart. Molecular and Cellular Biochemistry, 1995, 143, 143-149.	1.4	15
47	AMP Deaminase 1 Gene Polymorphism and Heart Diseaseâ€"A Genetic Association That Highlights New Treatment. Cardiovascular Drugs and Therapy, 2014, 28, 183-189.	1.3	15
48	Development and analytical comparison of microflow and nanoflow liquid chromatography/mass spectrometry procedures for quantification of cardiac troponin T in mouse hearts. Talanta, 2015, 131, 510-520.	2.9	15
49	Extracellular Nucleotide Catabolism in Aortoiliac Bifurcation of Atherosclerotic ApoE/LDLr Double Knock Out Mice. Nucleosides, Nucleotides and Nucleic Acids, 2014, 33, 323-328.	0.4	13
50	Changes in cardiac nucleotide metabolism in Huntington's disease. Nucleosides, Nucleotides and Nucleic Acids, 2016, 35, 707-712.	0.4	13
51	Narrow time window of metabolic changes associated with transition to overt heart failure in Tgaq*44 mice. Pharmacological Reports, 2016, 68, 707-714.	1.5	13
52	Nucleotide ecto-enzyme metabolic pattern and spatial distribution in calcific aortic valve disease; its relation to pathological changes and clinical presentation. Clinical Research in Cardiology, 2020, 109, 137-160.	1.5	13
53	Angiotensin II receptor 1 controls profibrotic Wnt/Î²-catenin signalling in experimental autoimmune myocarditis. Cardiovascular Research, 2022, 118, 573-584.	1.8	13
54	Lactate dehydrogenase A inhibition by small molecular entities: steps in the right direction. Oncoscience, 2020, 7, 76-80.	0.9	13

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55	Energy metabolism and mechanical recovery after cardioplegia in moderately hypertrophiedrats. Molecular and Cellular Biochemistry, 1998, 180, 137-143.	1.4	12
56	Untargeted Metabolomics Provides Insight into the Mechanisms Underlying Resistant Hypertension. Current Medicinal Chemistry, 2019, 26, 232-243.	1.2	12
57	Purine Nucleotides Metabolism and Signaling in Huntingtonâ€™s Disease: Search for a Target for Novel Therapies. International Journal of Molecular Sciences, 2021, 22, 6545.	1.8	12
58	Neuroprotective Effects of Guanosine in Ischemic Strokeâ€”Small Steps towards Effective Therapy. International Journal of Molecular Sciences, 2021, 22, 6898.	1.8	12
59	Title is missing!. Molecular and Cellular Biochemistry, 1998, 180, 193-199.	1.4	11
60	Pyruvate/dichloroacetate supply during reperfusion accelerates recovery of cardiac energetics and improves mechanical function following cardioplegic arrest. European Journal of Cardio-thoracic Surgery, 2001, 19, 865-872.	0.6	11
61	4-Pyridone-3-Carboxamide-1Î²-D-Ribonucleoside Metabolism in Endothelial Cells and Its Impact on Cellular Energetic Balance. Nucleosides, Nucleotides and Nucleic Acids, 2014, 33, 338-341.	0.4	11
62	Complete deletion of Cd39 is atheroprotective in apolipoprotein E-deficient mice. Journal of Lipid Research, 2017, 58, 1292-1305.	2.0	11
63	A Primer to Angiotensin Peptide Isolation, Stability, and Analysis by Nano-Liquid Chromatography with Mass Detection. Methods in Molecular Biology, 2017, 1614, 175-187.	0.4	11
64	Metabolic pathway of 4-pyridone-3-carboxamide-1Î²-d-ribonucleoside and its effects on cellular energetics. International Journal of Biochemistry and Cell Biology, 2017, 88, 31-43.	1.2	11
65	C34T AMP DEAMINASE 1 GENE MUTATION PROTECTS CARDIAC FUNCTION IN DONORS. Transplantation, 2004, 77, 1621-1623.	0.5	10
66	Huntingtin protein maintains balanced energetics in mouse cardiomyocytes. Nucleosides, Nucleotides and Nucleic Acids, 2020, , 1-8.	0.4	10
67	Accelerated degradation of adenine nucleotide in erythrocytes of patients with chronic renal failure. Molecular and Cellular Biochemistry, 2000, 213, 93-97.	1.4	9
68	Endothelial toxicity of unusual nucleotide metabolites. Pharmacological Reports, 2015, 67, 818-822.	1.5	9
69	Polymorphism in exon 6 of the human NT5E gene is associated with aortic valve calcification. Nucleosides, Nucleotides and Nucleic Acids, 2016, 35, 726-731.	0.4	9
70	Vascular extracellular adenosine metabolism in mice correlates with susceptibility to atherosclerosis. Nucleosides, Nucleotides and Nucleic Acids, 2018, 37, 653-662.	0.4	9
71	Enhanced cardiac hypoxic injury in atherogenic dyslipidaemia results from alterations in the energy metabolism pattern. Metabolism: Clinical and Experimental, 2021, 114, 154400.	1.5	9
72	Co-expression of functional human Heme Oxygenase 1, Ecto-5â€²-Nucleotidase and ecto-nucleoside triphosphate diphosphohydrolase-1 by â€œself-cleavingâ€•2A peptide system. Plasmid, 2015, 79, 22-29.	0.4	8

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73	Simultaneous accurate quantification of HO-1, CD39, and CD73 in human calcified aortic valves using multiple enzyme digestion â€“ filter aided sample pretreatment (MED-FASP) method and targeted proteomics. Talanta, 2018, 182, 492-499.	2.9	8
74	Multi-omic signatures of atherogenic dyslipidaemia: pre-clinical target identification and validation in humans. Journal of Translational Medicine, 2021, 19, 6.	1.8	8
75	Erythrocyte Nucleotides and Blood Hypoxanthine in Patients with Uremia Evaluated Immediately and 24 Hours After Hemodialysis. Renal Failure, 1996, 18, 247-252.	0.8	7
76	Extracellular Adenine Nucleotide Catabolism in Heart Valves. Nucleosides, Nucleotides and Nucleic Acids, 2014, 33, 329-332.	0.4	7
77	Effect of 4-Pyridone-3-Carboxamide Ribonucleoside (4PYR)-Potential Cardiovascular Toxin in Perfused Rat Heart. Nucleosides, Nucleotides and Nucleic Acids, 2014, 33, 333-337.	0.4	7
78	Characterization of adenine nucleotide metabolism in the cellular model of Huntingtonâ€™s disease. Nucleosides, Nucleotides and Nucleic Acids, 2018, 37, 630-638.	0.4	7
79	The effects of pro- and anti-atherosclerotic factors on intracellular nucleotide concentration in murine endothelial cells. Nucleosides, Nucleotides and Nucleic Acids, 2018, 37, 645-652.	0.4	7
80	CD39 and CD73 in the aortic valveâ€”biochemical and immunohistochemical analysis in valve cell populations and its changes in valve mineralization. Cardiovascular Pathology, 2018, 36, 53-63.	0.7	7
81	Overexpression of Interleukin-1 Receptor Antagonist Provides Cardioprotection Against Ischemia-Reperfusion Injury Associated With Reduction in Apoptosis. Circulation, 2001, 104, .	1.6	7
82	Exercise stress test and comparison of ST change with cardiac nucleotide catabolite production in patients with coronary artery disease. Cardiology Journal, 2007, 14, 573-9.	0.5	7
83	Oxidized low-density lipoproteins enhance expression and activity of CD39 and CD73 in the human aortic valve endothelium. Nucleosides, Nucleotides and Nucleic Acids, 2016, 35, 713-719.	0.4	6
84	Physical Activity and Inhibition of ACE Additively Modulate ACE/ACE-2 Balance in Heart Failure in Mice. Frontiers in Pharmacology, 2021, 12, 682432.	1.6	6
85	Nine days extended release of adenosine from biocompatible MOFs under biologically relevant conditions. Biomaterials Science, 2022, 10, 1342-1351.	2.6	6
86	Are we still on the right path(way)?: the altered expression of the pentose phosphate pathway in solid tumors and the potential of its inhibition in combination therapy. Expert Opinion on Drug Metabolism and Toxicology, 2022, , 1-23.	1.5	6
87	Inorganic Polyphosphateâ€”Regulator of Cellular Metabolism in Homeostasis and Disease. Biomedicines, 2022, 10, 913.	1.4	6
88	Down-regulation of Zac1 gene expression in rat white adipose tissue by androgens. Journal of Steroid Biochemistry and Molecular Biology, 2014, 140, 63-70.	1.2	5
89	The new insight into extracellular NAD⁺ degradationâ€the contribution of CD38 and CD73 in calcific aortic valve disease. Journal of Cellular and Molecular Medicine, 2021, 25, 5884-5898.	1.6	5
90	The effect of lactate dehydrogenase-A inhibition on intracellular nucleotides and mitochondrial respiration in pancreatic cancer cells. Nucleosides, Nucleotides and Nucleic Acids, 2022, 41, 1375-1385.	0.4	5

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91	Species differences of endothelial extracellular nucleotide metabolism and its implications for xenotransplantation. Pharmacological Reports, 2006, 58 Suppl, 118-25.	1.5	5
92	A high performance liquid chromatographic assay for AMP-deaminase activity in the erythrocytes of healthy subjects and patients with inherited purine disorders. Biomedical Chromatography, 1991, 5, 171-174.	0.8	4
93	The metabolism of ecto-5â€™-nucleotidase (CD73) inhibitor-Î±,Î²-methylene adenosine diphosphate in BALB/c mice. Nucleosides, Nucleotides and Nucleic Acids, 2018, 37, 709-716.	0.4	4
94	Increased plasma concentration of 4-pyridone-3-carboxamide-1-ÃŸ-D-ribonucleoside (4PYR) in lung cancer. Preliminary studies. Nucleosides, Nucleotides and Nucleic Acids, 2019, 38, 781-787.	0.4	4
95	Hair dysmorphology in the R6/1 and R6/2 mouse models of Huntingtonâ€™s disease. Gene, 2021, 765, 145133.	1.0	4
96	4-Pyridone-3-carboxamide-1-Î²-D-ribonucleoside (4PYR)â€”A Novel Oncometabolite Modulating Cancer-Endothelial Interactions in Breast Cancer Metastasis. International Journal of Molecular Sciences, 2022, 23, 5774.	1.8	4
97	Enhanced Endogenous Adenosine Production and Protection of the Heart after Transplantation. Advances in Experimental Medicine and Biology, 2002, 486, 167-170.	0.8	3
98	Nucleotide metabolic mismatches in mammalian hearts: implications for transplantation. Annals of the Royal College of Surgeons of England, 2013, 95, 9-14.	0.3	3
99	Effects of 4-Pyridone-3-carboxamide-1Î²-D-ribonucleoside on adenine nucleotide catabolism in the aortic wall; Implications for atherosclerosis in ApoE-/-LDLR-/- mice. Nucleosides, Nucleotides and Nucleic Acids, 2016, 35, 720-725.	0.4	3
100	Nucleotide Catabolism on the Surface of Aortic Valve Xenografts; Effects of Different Decellularization Strategies. Journal of Cardiovascular Translational Research, 2016, 9, 119-126.	1.1	3
101	Metabolism of 4-pyridone-3-carboxamide-1Î²-d-ribonucleoside (4PYR) in primary murine brain microvascular endothelial cells (mBMECs).. Nucleosides, Nucleotides and Nucleic Acids, 2018, 37, 639-644.	0.4	3
102	Comparison of plasma nucleotide metabolites and amino acids pattern in patients with binge eating disorder and obesity. Nucleosides, Nucleotides and Nucleic Acids, 2021, 40, 32-42.	0.4	3
103	High Throughput Procedure for Comparative Analysis of In Vivo Cardiac Glucose or Amino Acids Use in Cardiovascular Pathologies and Pharmacological Treatments. Metabolites, 2021, 11, 497.	1.3	3
104	Lactate dehydrogenase A inhibition by small molecular entities: steps in the right direction. Oncoscience, 2020, 7, 76-80.	0.9	3
105	Differences in Extracellular NAD+ and NMN Metabolism on the Surface of Vascular Endothelial Cells. Biology, 2022, 11, 675.	1.3	3
106	CoCl2-Mimicked Endothelial Cell Hypoxia Induces Nucleotide Depletion and Functional Impairment That Is Reversed by Nucleotide Precursors. Biomedicines, 2022, 10, 1540.	1.4	3
107	Heat Shock Protein 70 Gene Transfection Protects Mitochondrial and Ventricular Function Against Ischemia-Reperfusion Injury. Circulation, 2001, 104, .	1.6	2
108	Improved metabolism and redox state with a novel preservation solution: implications for donor lungs after cardiac death (DCD). Pulmonary Circulation, 2017, 7, 494-504.	0.8	2

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109	Cardioprotective effect of N-methylnicotinamide salt of pyruvate in experimental model of cardiac hypoxia. Pharmacological Reports, 2018, 70, 378-384.	1.5	2
110	Enhanced Muscle Strength in Dyslipidemic Mice and Its Relation to Increased Capacity for Fatty Acid Oxidation. International Journal of Molecular Sciences, 2021, 22, 12251.	1.8	2
111	The comparison of nucleotide metabolites and amino acids patterns in patients with eating disorders, with and without symptoms of depression. Nucleosides, Nucleotides and Nucleic Acids, 2022, , 1-9.	0.4	2
112	The effect of trehalose on intracellular and extracellular nucleotide metabolism. A pilot study. Nucleosides, Nucleotides and Nucleic Acids, 2020, 39, 1400-1409.	0.4	1
113	The Influence of Mitochondrial Energy and 1C Metabolism on the Efficacy of Anticancer Drugs: Exploring Potential Mechanisms of Resistance. Current Medicinal Chemistry, 2023, 30, 1209-1231.	1.2	1
114	A35â€...An altered metabolism of nucleotides leads to huntingtonâ€™s disease related cardiomyopathy. , 2018, , .		0
115	Statin treatment of patients with calcific aortic valve disease modulates extracellular adenosine metabolism on the cell surface of the aortic valve. Nucleosides, Nucleotides and Nucleic Acids, 2020, 39, 1389-1399.	0.4	0