Csaba Szabo

List of Publications by Year
in descending order

439 papers	44,479 citations	1792 103 h-index	2736 192 g-index
451 all docs	451 docs citations	451 times ranked	31731 citing authors

#	Article	IF	Citations
1	Peroxynitrite: biochemistry, pathophysiology and development of therapeutics. Nature Reviews Drug Discovery, 2007, 6, 662-680.	21.5	1,732
2	Hydrogen sulphide and its therapeutic potential. Nature Reviews Drug Discovery, 2007, 6, 917-935.	21.5	1,614
3	The Therapeutic Potential of Poly(ADP-Ribose) Polymerase Inhibitors. Pharmacological Reviews, 2002, 54, 375-429.	7.1	1,236
4	Hydrogen sulfide attenuates myocardial ischemia-reperfusion injury by preservation of mitochondrial function. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 15560-15565.	3.3	996
5	Therapeutic Effects of Xanthine Oxidase Inhibitors: Renaissance Half a Century after the Discovery of Allopurinol. Pharmacological Reviews, 2006, 58, 87-114.	7.1	984
6	Poly(ADP-ribose) polymerase and the therapeutic effects of its inhibitors. Nature Reviews Drug Discovery, 2005, 4, 421-440.	21.5	789
7	Hydrogen sulfide is an endogenous stimulator of angiogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 21972-21977.	3.3	768
8	Inhibition of GAPDH activity by poly(ADP-ribose) polymerase activates three major pathways of hyperglycemic damage in endothelial cells. Journal of Clinical Investigation, 2003, 112, 1049-1057.	3.9	622
9	Decrease of the inflammatory response and induction of the Akt/protein kinase B pathway by poly-(ADP-ribose) polymerase 1 inhibitor in endotoxin-induced septic shock. Biochemical Pharmacology, 2003, 65, 1373-1382.	2.0	620
10	Tumor-derived hydrogen sulfide, produced by cystathionine-Î²-synthase, stimulates bioenergetics, cell proliferation, and angiogenesis in colon cancer. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12474-12479.	3.3	601
11	Cardiac and metabolic effects of hypothermia and inhaled hydrogen sulfide in anesthetized and ventilated mice*. Critical Care Medicine, 2010, 38, 588-595.	0.4	597
12	Diabetic endothelial dysfunction: the role of poly(ADP-ribose) polymerase activation. Nature Medicine, 2001, 7, 108-113.	15.2	593
13	Hydrogen sulfide and nitric oxide are mutually dependent in the regulation of angiogenesis and endothelium-dependent vasorelaxation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9161-9166.	3.3	572
14	Selective pharmacological inhibition of distinct nitric oxide synthase isoforms. Biochemical Pharmacology, 1996, 51, 383-394.	2.0	544
15	Gasotransmitters in cancer: from pathophysiology to experimental therapy. Nature Reviews Drug Discovery, 2016, 15, 185-203.	21.5	484
16	THE PATHOPHYSIOLOGICAL ROLE OF PEROXYNITRITE IN SHOCK, INFLAMMATION, AND ISCHEMIA-REPERFUSION INJURY. Shock, 1996, 6, 79-88.	1.0	441
17	Multiple pathways of peroxynitrite cytotoxicity. Toxicology Letters, 2003, 140-141, 105-112.	0.4	423
18	DNA Damage Induced by Peroxynitrite: Subsequent Biological Effects. Nitric Oxide - Biology and Chemistry, 1997, 1, 373-385.	1.2	411

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19	Peroxynitrite-induced cytotoxicity: mechanism and opportunities for intervention. Toxicology Letters, 2003, 140-141, 113-124.	0.4	379
20	Role of the Peroxynitrite-Poly(ADP-Ribose) Polymerase Pathway in Human Disease. American Journal of Pathology, 2008, 173, 2-13.	1.9	348
21	Regulation of mitochondrial bioenergetic function by hydrogen sulfide. Part <scp>I</scp>. Biochemical and physiological mechanisms. British Journal of Pharmacology, 2014, 171, 2099-2122.	2.7	346
22	Effects of Nitric Oxide in Septic Shock. American Journal of Respiratory and Critical Care Medicine, 2000, 161, 1781-1785.	2.5	344
23	Selectivity of commonly used pharmacological inhibitors for cystathionine Î² synthase (<scp>CBS</scp>) and cystathionine Î³ lyase (<scp>CSE</scp>). British Journal of Pharmacology, 2013, 169, 922-932.	2.7	340
24	Role of superoxide, nitric oxide, and peroxynitrite in doxorubicin-induced cell death in vivo and in vitro. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 296, H1466-H1483.	1.5	314
25	Therapeutic applications of PARP inhibitors: Anticancer therapy and beyond. Molecular Aspects of Medicine, 2013, 34, 1217-1256.	2.7	312
26	Role of Nitrosative Stress and Peroxynitrite in the Pathogenesis of Diabetic Complications. Emerging New Therapeutical Strategies. Current Medicinal Chemistry, 2005, 12, 267-275.	1.2	308
27	International Union of Basic and Clinical Pharmacology. CII: Pharmacological Modulation of H₂S Levels: H₂S Donors and H₂S Biosynthesis Inhibitors. Pharmacological Reviews, 2017, 69, 497-564.	7.1	304
28	Biology of nitric oxide signaling. Critical Care Medicine, 2000, 28, N37-N52.	0.4	301
29	MD-2 is required for disulfide HMGB1â€“dependent TLR4 signaling. Journal of Experimental Medicine, 2015, 212, 5-14.	4.2	295
30	Inosine Inhibits Inflammatory Cytokine Production by a Posttranscriptional Mechanism and Protects Against Endotoxin-Induced Shock. Journal of Immunology, 2000, 164, 1013-1019.	0.4	287
31	The Role of Poly(ADP-Ribose) Polymerase Activation in the Development of Myocardial and Endothelial Dysfunction in Diabetes. Diabetes, 2002, 51, 514-521.	0.3	286
32	Intra-mitochondrial Poly(ADP-ribosylation) Contributes to NAD+ Depletion and Cell Death Induced by Oxidative Stress. Journal of Biological Chemistry, 2003, 278, 18426-18433.	1.6	282
33	Role of Poly(ADPâ€ribose) polymerase 1 (PARPâ€1) in Cardiovascular Diseases: The Therapeutic Potential of PARP Inhibitors. Cardiovascular Drug Reviews, 2007, 25, 235-260.	4.4	282
34	Inhibition of poly (ADP-ribose) Synthetase Attenuates Neutrophil Recruitment and Exerts Antiinflammatory Effects. Journal of Experimental Medicine, 1997, 186, 1041-1049.	4.2	277
35	Immunomodulatory and neuroprotective effects of inosine. Trends in Pharmacological Sciences, 2004, 25, 152-157.	4.0	277
36	Poly(ADP-ribose) polymerase inhibition: past, present and future. Nature Reviews Drug Discovery, 2020, 19, 711-736.	21.5	275

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37	Potent Metalloporphyrin Peroxynitrite Decomposition Catalyst Protects Against the Development of Doxorubicin-Induced Cardiac Dysfunction. Circulation, 2003, 107, 896-904.	1.6	263
38	Hydrogen sulfide replacement therapy protects the vascular endothelium in hyperglycemia by preserving mitochondrial function. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 13829-13834.	3.3	254
39	Melatonin inhibits expression of the inducible isoform of nitric oxide synthase in murine macrophages: role of inhibition of NFÎºB activation. FASEB Journal, 1998, 12, 685-693.	0.2	252
40	Intramitochondrial hydrogen sulfide production by 3â€•mercaptopyruvate sulfurtransferase maintains mitochondrial electron flow and supports cellular bioenergetics. FASEB Journal, 2013, 27, 601-611.	0.2	252
41	Protective effect of melatonin in carrageenan-induced models of local inflammation: Relationship to its inhibitory effect on nitric oxide production and its peroxynitrite scavenging activity. Journal of Pineal Research, 1997, 23, 106-116.	3.4	245
42	Intranuclear localization of apoptosis-inducing factor (AIF) and large scale dna fragmentation after traumatic brain injury in rats and in neuronal cultures exposed to peroxynitrite. Journal of Neurochemistry, 2002, 82, 181-191.	2.1	245
43	Poly(ADP-Ribose) Polymerase Is Involved in the Development of Diabetic Retinopathy via Regulation of Nuclear Factor-ÂB. Diabetes, 2004, 53, 2960-2967.	0.3	231
44	AP39, a novel mitochondria-targeted hydrogen sulfide donor, stimulates cellular bioenergetics, exerts cytoprotective effects and protects against the loss of mitochondrial DNA integrity in oxidatively stressed endothelial cells in vitro. Nitric Oxide - Biology and Chemistry, 2014, 41, 120-130.	1.2	225
45	Role of Poly(ADP-Ribose) Polymerase Activation in Diabetic Neuropathy. Diabetes, 2004, 53, 711-720.	0.3	224
46	Nitrosative stress and pharmacological modulation of heart failure. Trends in Pharmacological Sciences, 2005, 26, 302-310.	4.0	217
47	Endotoxin triggers the expression of an inducible isoform of nitric oxide synthase and the formation of peroxynitrite in the rat aorta in vivo. FEBS Letters, 1995, 363, 235-238.	1.3	215
48	The potential role of peroxynitrite in the vascular contractile and cellular energetic failure in endotoxic shock. British Journal of Pharmacology, 1997, 120, 259-267.	2.7	211
49	Evaluation of the relative contribution of nitric oxide and peroxynitrite to the suppression of mitochondrial respiration in immunostimulated macrophages using a manganese mesoporphyrin superoxide dismutase mimetic and peroxynitrite scavenger. FEBS Letters, 1996, 381, 82-86.	1.3	207
50	Antiinflammatory Effects of Mercaptoethylguanidine, a Combined Inhibitor of Nitric Oxide Synthase and Peroxynitrite Scavenger, in Carrageenan-induced Models of Inflammation. Free Radical Biology and Medicine, 1998, 24, 450-459.	1.3	203
51	A monobromobimaneâ€based assay to measure the pharmacokinetic profile of reactive sulphide species in blood. British Journal of Pharmacology, 2010, 160, 941-957.	2.7	201
52	The Therapeutic Potential of Cystathionine Î²-Synthetase/Hydrogen Sulfide Inhibition in Cancer. Antioxidants and Redox Signaling, 2015, 22, 424-448.	2.5	198
53	Activation of Poly(ADP-Ribose) Polymerase-1 Is a Central Mechanism of Lipopolysaccharide-Induced Acute Lung Inflammation. American Journal of Respiratory and Critical Care Medicine, 2002, 165, 372-377.	2.5	187
54	Novel phenanthridinone inhibitors of poly(adenosine 5â€²-diphosphate-ribose) synthetase: Potent cytoprotective and antishock agents*. Critical Care Medicine, 2002, 30, 1071-1082.	0.4	187

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55	Hydrogen sulphide and angiogenesis: mechanisms and applications. British Journal of Pharmacology, 2011, 164, 853-865.	2.7	186
56	Poly(ADP-Ribose) Polymerase Inhibitors. Current Medicinal Chemistry, 2003, 10, 321-340.	1.2	185
57	A timeline of hydrogen sulfide (H2S) research: From environmental toxin to biological mediator. Biochemical Pharmacology, 2018, 149, 5-19.	2.0	185
58	Potential role of poly(adenosine 5â€²-diphosphate-ribose) polymerase activation in the pathogenesis of myocardial contractile dysfunction associated with human septic shock. Critical Care Medicine, 2006, 34, 1073-1079.	0.4	182
59	Roles of Hydrogen Sulfide in the Pathogenesis of Diabetes Mellitus and Its Complications. Antioxidants and Redox Signaling, 2012, 17, 68-80.	2.5	182
60	Poly(ADP-Ribose) Polymerase Is Activated in Subjects at Risk of Developing Type 2 Diabetes and Is Associated With Impaired Vascular Reactivity. Circulation, 2002, 106, 2680-2686.	1.6	179
61	Hydrogen Sulfide and Cancer. Handbook of Experimental Pharmacology, 2015, 230, 233-241.	0.9	174
62	Poly(ADP-ribose) polymerase-1 inhibition reverses temozolomide resistance in a DNA mismatch repairâ€“deficient malignant glioma xenograft. Molecular Cancer Therapeutics, 2005, 4, 1364-1368.	1.9	173
63	Toxicological and pathophysiological roles of reactive oxygen and nitrogen species. Toxicology, 2010, 276, 85-94.	2.0	172
64	Protective effects of mercaptoethylguanidine, a selective inhibitor of inducible nitric oxide synthase, in ligature-induced periodontitis in the rat. British Journal of Pharmacology, 1998, 123, 353-360.	2.7	170
65	Suppression of macrophage inflammatory protein (MIP)-1Î± production and collagen-induced arthritis by adenosine receptor agonists. British Journal of Pharmacology, 1998, 125, 379-387.	2.7	165
66	Aldose Reductase Inhibition Counteracts Oxidative-Nitrosative Stress and Poly(ADP-Ribose) Polymerase Activation in Tissue Sites for Diabetes Complications. Diabetes, 2005, 54, 234-242.	0.3	165
67	Part I: Pathogenetic Role of Peroxynitrite in the Development of Diabetes and Diabetic Vascular Complications: Studies With FP15, A Novel Potent Peroxynitrite Decomposition Catalyst. Molecular Medicine, 2002, 8, 571-580.	1.9	162
68	Poly(ADP-Ribose) Polymerase Inhibition Reduces Reperfusion Injury After Heart Transplantation. Circulation Research, 2002, 90, 100-106.	2.0	160
69	Opportunities for the repurposing of PARP inhibitors for the therapy of nonâ€oncological diseases. British Journal of Pharmacology, 2018, 175, 192-222.	2.7	160
70	Role of peroxynitrite in the pathogenesis of cardiovascular complications of diabetes. Current Opinion in Pharmacology, 2006, 6, 136-141.	1.7	159
71	Role of Poly(ADP-Ribose) Polymerase-1 Activation in the Pathogenesis of Diabetic Complications: Endothelial Dysfunction, as a Common Underlying Theme. Antioxidants and Redox Signaling, 2005, 7, 1568-1580.	2.5	158
72	Beneficial effects of 3-aminobenzamide, an inhibitor of poly (ADP-ribose) synthetase in a rat model of splanchnic artery occlusion and reperfusion. British Journal of Pharmacology, 1997, 121, 1065-1074.	2.7	156

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73	S- Sulfhydration of ATP synthase by hydrogen sulfide stimulates mitochondrial bioenergetics. Pharmacological Research, 2016, 113, 116-124.	3.1	156
74	Vascular biology of hydrogen sulfide. American Journal of Physiology - Cell Physiology, 2017, 312, C537-C549.	2.1	156
75	The effects of therapeutic sulfide on myocardial apoptosis in response to ischemiaâ€“reperfusion injuryâ˜†â˜†â˜†. European Journal of Cardio-thoracic Surgery, 2008, 33, 906-913.	0.6	155
76	Mercaptoethylguanidine and Guanidine Inhibitors of Nitric-oxide Synthase React with Peroxynitrite and Protect against Peroxynitrite-induced Oxidative Damage. Journal of Biological Chemistry, 1997, 272, 9030-9036.	1.6	153
77	Peroxynitrite-mediated oxidation of dihydrorhodamine 123 occurs in early stages of endotoxic and hemorrhagic shock and ischemia-reperfusion injury. FEBS Letters, 1995, 372, 229-232.	1.3	152
78	Reduction of Cognitive and Motor Deficits after Traumatic Brain Injury in Mice Deficient in Poly(ADP-Ribose) Polymerase. Journal of Cerebral Blood Flow and Metabolism, 1999, 19, 835-842.	2.4	151
79	Role of nitrosative stress in the pathogenesis of diabetic vascular dysfunction. British Journal of Pharmacology, 2009, 156, 713-727.	2.7	151
80	Resistance to Acute Septic Peritonitis in Poly(ADP-ribose) Polymerase-1-Deficient Mice. Shock, 2002, 17, 286-292.	1.0	148
81	THE CONCISE GUIDE TO PHARMACOLOGY 2021/22: Catalytic receptors. British Journal of Pharmacology, 2021, 178, S264-S312.	2.7	148
82	Effect of poly(ADP ribose) synthetase inhibition on burn and smoke inhalation injury in sheep. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2003, 285, L240-L249.	1.3	147
83	Hydrogen sulfide, an enhancer of vascular nitric oxide signaling: mechanisms and implications. American Journal of Physiology - Cell Physiology, 2017, 312, C3-C15.	2.1	145
84	Blockade of poly(ADP-ribose) synthetase inhibits neutrophil recruitment, oxidant generation, and mucosal injury in murine colitis. Gastroenterology, 1999, 116, 335-345.	0.6	141
85	Role for nitrosative stress in diabetic neuropathy: evidence from studies with a peroxynitrite decomposition catalyst. FASEB Journal, 2005, 19, 1-21.	0.2	138
86	Bench-to-bedside review: Hydrogen sulfide â€“ the third gaseous transmitter: applications for critical care. Critical Care, 2009, 13, 213.	2.5	137
87	Hydrogen sulfide therapy attenuates the inflammatory response in a porcine model of myocardial ischemia/reperfusion injury. Journal of Thoracic and Cardiovascular Surgery, 2009, 138, 977-984.	0.4	135
88	Hydrogen sulfide: An endogenous regulator of the immune system. Pharmacological Research, 2020, 161, 105119.	3.1	134
89	The role of H2S bioavailability in endothelial dysfunction. Trends in Pharmacological Sciences, 2015, 36, 568-578.	4.0	131
90	Clinical perspectives of PARP inhibitors. Pharmacological Research, 2005, 52, 109-118.	3.1	130

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91	Poly(ADP-Ribose) Polymerase Inhibitors Ameliorate Nephropathy of Type 2 Diabetic Leprdb/db Mice. Diabetes, 2006, 55, 3004-3012.	0.3	128
92	Role of Nitric Oxide in Vascular Permeability after Combined Burns and Smoke Inhalation Injury. American Journal of Respiratory and Critical Care Medicine, 2001, 163, 745-752.	2.5	127
93	Anti-inflammatory effects of a novel, potent inhibitor of poly (ADP-ribose) polymerase. Inflammation Research, 2001, 50, 561-569.	1.6	121
94	Regulation of mitochondrial bioenergetic function by hydrogen sulfide. Part <scp>II</scp>. Pathophysiological and therapeutic aspects. British Journal of Pharmacology, 2014, 171, 2123-2146.	2.7	121
95	Regulation of Vascular Tone, Angiogenesis and Cellular Bioenergetics by the 3-Mercaptopyruvate Sulfurtransferase/H2S Pathway: Functional Impairment by Hyperglycemia and Restoration by dl-Î±-Lipoic Acid. Molecular Medicine, 2015, 21, 1-14.	1.9	121
96	Purines inhibit poly(ADPâ€ribose) polymerase activation and modulate oxidantâ€induced cell death. FASEB Journal, 2001, 15, 99-107.	0.2	116
97	Cardioprotective effects of hydrogen sulfide. Nitric Oxide - Biology and Chemistry, 2011, 25, 201-210.	1.2	115
98	Left ventricular pressure-volume relationship in a rat model of advanced aging-associated heart failure. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 287, H2132-H2137.	1.5	114
99	Gaseotransmitters: New Frontiers for Translational Science. Science Translational Medicine, 2010, 2, 59ps54.	5.8	114
100	PATHOPHYSIOLOGICAL ROLES OF PEROXYNITRITE IN CIRCULATORY SHOCK. Shock, 2010, 34, 4-14.	1.0	113
101	Cystathionine-Î²-synthase: Molecular Regulation and Pharmacological Inhibition. Biomolecules, 2020, 10, 697.	1.8	113
102	Role of peroxynitrite and neuronal nitric oxide synthase in the activation of poly(ADP-ribose) synthetase in a murine model of cerebral ischemia-reperfusion. Neuroscience Letters, 1998, 248, 41-44.	1.0	112
103	Rapid â€˜glycaemic swingsâ€™ induce nitrosative stress, activate poly(ADP-ribose) polymerase and impair endothelial function in a rat model of diabetes mellitus. Diabetologia, 2009, 52, 952-961.	2.9	110
104	Protective effect of hydrogen sulfide in a murine model of acute lung injury induced by combined burn and smoke inhalation. Clinical Science, 2008, 115, 91-97.	1.8	108
105	Physiological roles of hydrogen sulfide in mammalian cells, tissues, and organs. Physiological Reviews, 2023, 103, 31-276.	13.1	107
106	Detection of exhaled hydrogen sulphide gas in healthy human volunteers during intravenous administration of sodium sulphide. British Journal of Clinical Pharmacology, 2010, 69, 626-636.	1.1	104
107	The synthesis and functional evaluation of a mitochondria-targeted hydrogen sulfide donor, (10-oxo-10-(4-(3-thioxo-3H-1,2-dithiol-5-yl)phenoxy)decyl)triphenylphosphonium bromide (AP39). MedChemComm, 2014, 5, 728-736.	3.5	104
108	Poly (ADP-ribose) polymerase-1 is a key mediator of liver inflammation and fibrosis. Hepatology, 2014, 59, 1998-2009.	3.6	103

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109	Cystathionine Î³ Lyase Sulfhydrates the RNA Binding Protein Human Antigen R to Preserve Endothelial Cell Function and Delay Atherogenesis. Circulation, 2019, 139, 101-114.	1.6	103
110	Upregulation of Cystathionine-Î²-Synthase in Colonic Epithelia Reprograms Metabolism and Promotes Carcinogenesis. Cancer Research, 2017, 77, 5741-5754.	0.4	102
111	Overproduction of H ₂ S, generated by CBS, inhibits mitochondrial Complex IV and suppresses oxidative phosphorylation in Down syndrome. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 18769-18771.	3.3	102
112	A dual role for polyâ€ADPâ€ribosylation in spatial memory acquisition after traumatic brain injury in mice involving NAD⁺ depletion and ribosylation of 14â€3â€3Î³. Journal of Neurochemistry, 2003, 85, 697-708.	2.1	101
113	Mitochondrial NO and reactive nitrogen species production: Does mtNOS exist?. Nitric Oxide - Biology and Chemistry, 2006, 14, 162-168.	1.2	101
114	Effect of Hydrogen Sulfide in a Porcine Model of Myocardial Ischemia-Reperfusion: Comparison of Different Administration Regimens and Characterization of the Cellular Mechanisms of Protection. Journal of Cardiovascular Pharmacology, 2009, 54, 287-297.	0.8	101
115	Regulation of the Expression of the Inducible Isoform of Nitric Oxide Synthase. Advances in Pharmacology, 1995, 34, 113-153.	1.2	100
116	Role of poly(ADP-ribose)synthetase in inflammation. European Journal of Pharmacology, 1998, 350, 1-19.	1.7	100
117	Pharmacologic inhibition of poly(adenosine diphosphate-ribose) polymerase may represent a novel therapeutic approach in chronic heart failure. Journal of the American College of Cardiology, 2002, 40, 1006-1016.	1.2	100
118	Identification of polyâ€ADPâ€ribosylated mitochondrial proteins after traumatic brain injury. Journal of Neurochemistry, 2008, 104, 1700-1711.	2.1	100
119	Mitochondrial DNA damage and subsequent activation of Z-DNA binding protein 1 links oxidative stress to inflammation in epithelial cells. Scientific Reports, 2018, 8, 914.	1.6	100
120	An Inhibitor of Inducible Nitric Oxide Synthase and Scavenger of Peroxynitrite Prevents Diabetes Development in NOD Mice. Journal of Autoimmunity, 2001, 16, 449-455.	3.0	98
121	Potential role for 8â€oxoguanine DNA glycosylase in regulating inflammation. FASEB Journal, 2005, 19, 1-18.	0.2	98
122	Protective effect of a novel, potent inhibitor of poly(adenosine 5â€²-diphosphate-ribose) synthetase in a porcine model of severe bacterial sepsis*. Critical Care Medicine, 2002, 30, 974-980.	0.4	97
123	Hydrogen sulfide decreases adenosine triphosphate levels in aortic rings and leads to vasorelaxation via metabolic inhibition. Life Sciences, 2008, 83, 589-594.	2.0	97
124	Gender Differences in the Endotoxin-Induced Inflammatory and Vascular Responses: Potential Role of Poly(ADP-ribose) Polymerase Activation. Journal of Pharmacology and Experimental Therapeutics, 2005, 315, 812-820.	1.3	96
125	Poly(ADP-Ribose) Polymerase Promotes Cardiac Remodeling, Contractile Failure, and Translocation of Apoptosis-Inducing Factor in a Murine Experimental Model of Aortic Banding and Heart Failure. Journal of Pharmacology and Experimental Therapeutics, 2005, 312, 891-898.	1.3	96
126	HEMODYNAMIC AND METABOLIC EFFECTS OF HYDROGEN SULFIDE DURING PORCINE ISCHEMIA/REPERFUSION INJURY. Shock, 2008, 30, 359-364.	1.0	95

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127	Role of endogenous and exogenous nitric oxide, carbon monoxide and hydrogen sulfide in HCT116 colon cancer cell proliferation. Biochemical Pharmacology, 2018, 149, 186-204.	2.0	95
128	Effect of S-adenosyl-l-methionine (SAM), an allosteric activator of cystathionine-Î²-synthase (CBS) on colorectal cancer cell proliferation and bioenergetics in vitro. Nitric Oxide - Biology and Chemistry, 2014, 41, 146-156.	1.2	94
129	Poly(ADP-ribose) synthetase activation mediates increased permeability induced by peroxynitrite in Caco-2BBe cells. Gastroenterology, 1998, 114, 510-518.	0.6	93
130	Diabetesâ€induced overexpression of endothelinâ€1 and endothelin receptors in the rat renal cortex is mediated via poly(ADPâ€ribose) polymerase activation. FASEB Journal, 2003, 17, 1-18.	0.2	93
131	Dual role of poly(ADPâ€ribose) glycohydrolase in the regulation of cell death in oxidatively stressed A549 cells. FASEB Journal, 2009, 23, 3553-3563.	0.2	92
132	Regulation and role of endogenously produced hydrogen sulfide in angiogenesis. Pharmacological Research, 2016, 113, 175-185.	3.1	91
133	AP39, A Mitochondrially Targeted Hydrogen Sulfide Donor, Exerts Protective Effects in Renal Epithelial Cells Subjected to Oxidative Stress in Vitro and in Acute Renal Injury in Vivo. Shock, 2016, 45, 88-97.	1.0	89
134	Inhibition of hydrogen sulfide biosynthesis sensitizes lung adenocarcinoma to chemotherapeutic drugs by inhibiting mitochondrial DNA repair and suppressing cellular bioenergetics. Scientific Reports, 2016, 6, 36125.	1.6	89
135	Endothelial dysfunction in aging animals: the role of poly(ADP-ribose) polymerase activation. British Journal of Pharmacology, 2002, 135, 1347-1350.	2.7	88
136	Roles of poly(ADP-ribose) polymerase activation in the pathogenesis of diabetes mellitus and its complications. Pharmacological Research, 2005, 52, 60-71.	3.1	84
137	Inosine Reduces Systemic Inflammation and Improves Survival in Septic Shock Induced by Cecal Ligation and Puncture. American Journal of Respiratory and Critical Care Medicine, 2001, 164, 1213-1220.	2.5	83
138	A New, Potent Poly(ADP-ribose) Polymerase Inhibitor Improves Cardiac and Vascular Dysfunction Associated with Advanced Aging. Journal of Pharmacology and Experimental Therapeutics, 2004, 311, 485-491.	1.3	83
139	Hydrogen sulfide-mediated stimulation of mitochondrial electron transport involves inhibition of the mitochondrial phosphodiesterase 2A, elevation of cAMP and activation of protein kinase A. Biochemical Pharmacology, 2013, 86, 1311-1319.	2.0	82
140	Effect of L -buthionine-(S,R)-sulphoximine, an inhibitor of Î³-glutamylcysteine synthetase on peroxynitrite- and endotoxic shock-induced vascular failure. British Journal of Pharmacology, 1998, 123, 525-537.	2.7	81
141	Inosine Exerts a Broad Range of Antiinflammatory Effects in a Murine Model of Acute Lung Injury. Annals of Surgery, 2002, 235, 568-578.	2.1	81
142	Protective effects of 3-aminobenzamide, an inhibitor of poly (ADP-ribose) synthase in a carrageenan-induced model of local inflammation. European Journal of Pharmacology, 1998, 342, 67-76.	1.7	80
143	EFFECT OF GENETIC DISRUPTION OF POLY (ADP-RIBOSE) SYNTHETASE ON DELAYED PRODUCTION OF INFLAMMATORY MEDIATORS AND DELAYED NECROSIS DURING MYOCARDIAL ISCHEMIA-REPERFUSION INJURY. Shock, 2000, 13, 60-66.	1.0	80
144	Cellular bioenergetics is regulated by PARP1 under resting conditions and during oxidative stress. Biochemical Pharmacology, 2012, 83, 633-643.	2.0	80

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145	Part I: pathogenetic role of peroxynitrite in the development of diabetes and diabetic vascular complications: studies with FP15, a novel potent peroxynitrite decomposition catalyst. Molecular Medicine, 2002, 8, 571-80.	1.9	80
146	Protection by Inhibition of Poly (ADP-ribose) Synthetase Against Oxidant Injury in Cardiac MyoblastsIn Vitro. Journal of Molecular and Cellular Cardiology, 1997, 29, 2585-2597.	0.9	79
147	Exogenous and endogenous catecholamines inhibit the production of macrophage inflammatory protein (MIP) 1Î± via a Î² adrenoceptor mediated mechanism. British Journal of Pharmacology, 1998, 125, 1297-1303.	2.7	79
148	Regulation of soluble guanylyl cyclase redox state by hydrogen sulfide. Pharmacological Research, 2016, 111, 556-562.	3.1	79
149	Angiotensin II-Mediated Endothelial Dysfunction: Role of Poly(ADP-ribose) Polymerase Activation. Molecular Medicine, 2004, 10, 28-35.	1.9	78
150	Suppression of poly (ADP-ribose) polymerase activation by 3-aminobenzamide in a rat model of myocardial infarction: long-term morphological and functional consequences. British Journal of Pharmacology, 2001, 133, 1424-1430.	2.7	77
151	Neuronal nitric oxide synthase inhibition attenuates cardiopulmonary dysfunctions after combined burn and smoke inhalation injury in sheep. Critical Care Medicine, 2008, 36, 1196-1204.	0.4	77
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