

Rui Wang

List of Publications by Year in descending order

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258
papers

27,385
citations

8732

75
h-index

6113

159
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273
all docs

273
docs citations

273
times ranked

15803
citing authors

#	ARTICLE	IF	CITATIONS
1	H ₂ S as a Physiologic Vasorelaxant: Hypertension in Mice with Deletion of Cystathionine β -Lyase. <i>Science</i> , 2008, 322, 587-590.	6.0	2,104
2	Two's company, three's a crowd: can H ₂ S be the third endogenous gaseous transmitter?. <i>FASEB Journal</i> , 2002, 16, 1792-1798.	0.2	1,639
3	Physiological Implications of Hydrogen Sulfide: A Whiff Exploration That Blossomed. <i>Physiological Reviews</i> , 2012, 92, 791-896.	13.1	1,618
4	H ₂ S Signals Through Protein S-Sulfhydration. <i>Science Signaling</i> , 2009, 2, ra72.	1.6	1,050
5	Carbon Monoxide: Endogenous Production, Physiological Functions, and Pharmacological Applications. <i>Pharmacological Reviews</i> , 2005, 57, 585-630.	7.1	822
6	Hydrogen sulfide is an endogenous stimulator of angiogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 21972-21977.	3.3	768
7	Hydrogen sulfide-based therapeutics: exploiting a unique but ubiquitous gasotransmitter. <i>Nature Reviews Drug Discovery</i> , 2015, 14, 329-345.	21.5	652
8	Hydrogen Sulfide as Endothelium-Derived Hyperpolarizing Factor Sulfhydrates Potassium Channels. <i>Circulation Research</i> , 2011, 109, 1259-1268.	2.0	531
9	Hydrogen Sulfide Protects Against Cellular Senescence via S-Sulfhydration of Keap1 and Activation of Nrf2. <i>Antioxidants and Redox Signaling</i> , 2013, 18, 1906-1919.	2.5	484
10	Endogenous Hydrogen Sulfide Production Is Essential for Dietary Restriction Benefits. <i>Cell</i> , 2015, 160, 132-144.	13.5	449
11	The Gasotransmitter Role of Hydrogen Sulfide. <i>Antioxidants and Redox Signaling</i> , 2003, 5, 493-501.	2.5	447
12	H ₂ S-induced vasorelaxation and underlying cellular and molecular mechanisms. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002, 283, H474-H480.	1.5	429
13	Activation of KATP channels by H ₂ S in rat insulin-secreting cells and the underlying mechanisms. <i>Journal of Physiology</i> , 2005, 569, 519-531.	1.3	426
14	Hydrogen sulfide (H ₂ S) metabolism in mitochondria and its regulatory role in energy production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 2943-2948.	3.3	397
15	Hydrogen sulfide-induced relaxation of resistance mesenteric artery beds of rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004, 287, H2316-H2323.	1.5	367
16	Decreased Endogenous Production of Hydrogen Sulfide Accelerates Atherosclerosis. <i>Circulation</i> , 2013, 127, 2523-2534.	1.6	322
17	H ₂ S Protects Against Pressure Overload-Induced Heart Failure via Upregulation of Endothelial Nitric Oxide Synthase. <i>Circulation</i> , 2013, 127, 1116-1127.	1.6	302
18	Hydrogen sulfide cytoprotective signaling is endothelial nitric oxide synthase-nitric oxide dependent. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3182-3187.	3.3	301

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19	Carbon monoxide-induced vasorelaxation and the underlying mechanisms. <i>British Journal of Pharmacology</i> , 1997, 121, 927-934.	2.7	288
20	Proapoptotic effect of endogenous H ₂ S on human aorta smooth muscle cells. <i>FASEB Journal</i> , 2006, 20, 553-555.	0.2	286
21	Measurement of plasma hydrogen sulfide in vivo and in vitro. <i>Free Radical Biology and Medicine</i> , 2011, 50, 1021-1031.	1.3	278
22	Hydrogen sulfide-induced apoptosis of human aorta smooth muscle cells via the activation of mitogen-activated protein kinases and caspase-3. <i>FASEB Journal</i> , 2004, 18, 1782-1784.	0.2	267
23	Dietary approach to attenuate oxidative stress, hypertension, and inflammation in the cardiovascular system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 7094-7099.	3.3	258
24	Hydrogen sulfide replacement therapy protects the vascular endothelium in hyperglycemia by preserving mitochondrial function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 13829-13834.	3.3	254
25	Gasotransmitters: growing pains and joys. <i>Trends in Biochemical Sciences</i> , 2014, 39, 227-232.	3.7	251
26	Direct Stimulation of KATP Channels by Exogenous and Endogenous Hydrogen Sulfide in Vascular Smooth Muscle Cells. <i>Molecular Pharmacology</i> , 2005, 68, 1757-1764.	1.0	250
27	Hydrogen Sulfide: The Third Gasotransmitter in Biology and Medicine. <i>Antioxidants and Redox Signaling</i> , 2010, 12, 1061-1064.	2.5	237
28	Amino Acid Restriction Triggers Angiogenesis via GCN2/ATF4 Regulation of VEGF and H ₂ S Production. <i>Cell</i> , 2018, 173, 117-129.e14.	13.5	229
29	Hydrogen sulfide improves drought resistance in <i>Arabidopsis thaliana</i> . <i>Biochemical and Biophysical Research Communications</i> , 2011, 414, 481-486.	1.0	225
30	Dysregulation of Hydrogen Sulfide Producing Enzyme Cystathionine β -lyase Contributes to Maternal Hypertension and Placental Abnormalities in Preeclampsia. <i>Circulation</i> , 2013, 127, 2514-2522.	1.6	224
31	The Chemical Modification of K _{Ca} Channels by Carbon Monoxide in Vascular Smooth Muscle Cells. <i>Journal of Biological Chemistry</i> , 1997, 272, 8222-8226.	1.6	222
32	Modulation of endogenous production of H ₂ S in rat tissues. <i>Canadian Journal of Physiology and Pharmacology</i> , 2003, 81, 848-853.	0.7	208
33	Pancreatic islet overproduction of H ₂ S and suppressed insulin release in Zucker diabetic rats. <i>Laboratory Investigation</i> , 2009, 89, 59-67.	1.7	190
34	Analytical measurement of discrete hydrogen sulfide pools in biological specimens. <i>Free Radical Biology and Medicine</i> , 2012, 52, 2276-2283.	1.3	190
35	Molecular Mechanism for H ₂ S-Induced Activation of K _{ATP} Channels. <i>Antioxidants and Redox Signaling</i> , 2010, 12, 1167-1178.	2.5	179
36	Carbon monoxide and hydrogen sulfide: gaseous messengers in cerebrovascular circulation. <i>Journal of Applied Physiology</i> , 2006, 100, 1065-1076.	1.2	177

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37	Oxygen-sensitive mitochondrial accumulation of cystathionine β -synthase mediated by Lon protease. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12679-12684.	3.3	175
38	H ₂ S, Endoplasmic Reticulum Stress, and Apoptosis of Insulin-secreting Beta Cells. Journal of Biological Chemistry, 2007, 282, 16567-16576.	1.6	174
39	The coordination of S-sulfhydration, S-nitrosylation, and phosphorylation of endothelial nitric oxide synthase by hydrogen sulfide. Science Signaling, 2014, 7, ra87.	1.6	169
40	Effects of hydrogen sulfide on homocysteine-induced oxidative stress in vascular smooth muscle cells. Biochemical and Biophysical Research Communications, 2006, 351, 485-491.	1.0	164
41	Cystathionine β -Lyase Protects against Renal Ischemia/Reperfusion by Modulating Oxidative Stress. Journal of the American Society of Nephrology: JASN, 2013, 24, 759-770.	3.0	157
42	S- Sulfhydration of ATP synthase by hydrogen sulfide stimulates mitochondrial bioenergetics. Pharmacological Research, 2016, 113, 116-124.	3.1	156
43	Hydrogen Sulfide Inhibits Plasma Renin Activity. Journal of the American Society of Nephrology: JASN, 2010, 21, 993-1002.	3.0	151
44	Hydrogen Sulfide Protects from Colitis and Restores Intestinal Microbiota Biofilm and Mucus Production. Inflammatory Bowel Diseases, 2015, 21, 1006-1017.	0.9	150
45	Cystathionine β -Lyase Overexpression Inhibits Cell Proliferation via a H ₂ S-dependent Modulation of ERK1/2 Phosphorylation and p21 ^{Cip} /WAK-1. Journal of Biological Chemistry, 2004, 279, 49199-49205.	1.6	142
46	Cystathionine gamma-lyase deficiency and overproliferation of smooth muscle cells. Cardiovascular Research, 2010, 86, 487-495.	1.8	142
47	Crosstalk between hydrogen sulfide and nitric oxide in endothelial cells. Journal of Cellular and Molecular Medicine, 2013, 17, 879-888.	1.6	140
48	Resurgence of carbon monoxide: an endogenous gaseous vasorelaxing factor. Canadian Journal of Physiology and Pharmacology, 1998, 76, 1-15.	0.7	139
49	Interaction of hydrogen sulfide with ion channels. Clinical and Experimental Pharmacology and Physiology, 2010, 37, 753-763.	0.9	138
50	Hydrogen sulfide: a new EDRF. Kidney International, 2009, 76, 700-704.	2.6	136
51	Hydrogen sulfide and the liver. Nitric Oxide - Biology and Chemistry, 2014, 41, 62-71.	1.2	134
52	The role of H ₂ S bioavailability in endothelial dysfunction. Trends in Pharmacological Sciences, 2015, 36, 568-578.	4.0	131
53	Protective Effect of Hydrogen Sulfide on Balloon Injury-Induced Neointima Hyperplasia in Rat Carotid Arteries. American Journal of Pathology, 2007, 170, 1406-1414.	1.9	128
54	Calcium and polyamine regulated calcium-sensing receptors in cardiac tissues. FEBS Journal, 2003, 270, 2680-2688.	0.2	126

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55	Methylglyoxal-induced nitric oxide and peroxynitrite production in vascular smooth muscle cells. <i>Free Radical Biology and Medicine</i> , 2005, 38, 286-293.	1.3	126
56	Non-enzymatic hydrogen sulfide production from cysteine in blood is catalyzed by iron and vitamin B6. <i>Communications Biology</i> , 2019, 2, 194.	2.0	126
57	H ₂ S Is an Endothelium-Derived Hyperpolarizing Factor. <i>Antioxidants and Redox Signaling</i> , 2013, 19, 1634-1646.	2.5	119
58	S-sulfhydration of MEK1 leads to PARP1 activation and DNA damage repair. <i>EMBO Reports</i> , 2014, 15, 792-800.	2.0	119
59	cGMP-Dependent Protein Kinase Contributes to Hydrogen Sulfide-Stimulated Vasorelaxation. <i>PLoS ONE</i> , 2012, 7, e53319.	1.1	116
60	Signaling pathways for the vascular effects of hydrogen sulfide. <i>Current Opinion in Nephrology and Hypertension</i> , 2011, 20, 107-112.	1.0	113
61	Hydrogen Sulfide and the Pathogenesis of Atherosclerosis. <i>Antioxidants and Redox Signaling</i> , 2014, 20, 805-817.	2.5	113
62	Bach1 Represses Wnt/ β -Catenin Signaling and Angiogenesis. <i>Circulation Research</i> , 2015, 117, 364-375.	2.0	113
63	Hydrogen sulfide as an oxygen sensor in trout gill chemoreceptors. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 295, R669-R680.	0.9	104
64	The endogenous production of hydrogen sulphide in intrauterine tissues. <i>Reproductive Biology and Endocrinology</i> , 2009, 7, 10.	1.4	101
65	Rescue of mesangial cells from high glucose-induced over-proliferation and extracellular matrix secretion by hydrogen sulfide. <i>Nephrology Dialysis Transplantation</i> , 2011, 26, 2119-2126.	0.4	100
66	Integrated Stress Response Modulates Cellular Redox State via Induction of Cystathionine β -Lyase. <i>Journal of Biological Chemistry</i> , 2012, 287, 7603-7614.	1.6	100
67	Selective Regulation of Blood Pressure by Heme Oxygenase-1 in Hypertension. <i>Hypertension</i> , 2002, 40, 315-321.	1.3	96
68	SIRT3 Mediates the Antioxidant Effect of Hydrogen Sulfide in Endothelial Cells. <i>Antioxidants and Redox Signaling</i> , 2016, 24, 329-343.	2.5	94
69	Carbon monoxide and hypertension. <i>Journal of Hypertension</i> , 2004, 22, 1057-1074.	0.3	92
70	Hydrogen sulfide and asthma. <i>Experimental Physiology</i> , 2011, 96, 847-852.	0.9	85
71	The Inhibitory Role of Hydrogen Sulfide in Airway Hyperresponsiveness and Inflammation in a Mouse Model of Asthma. <i>American Journal of Pathology</i> , 2013, 182, 1188-1195.	1.9	84
72	Cystathionine β -Lyase Deficiency Protects Mice from Galactosamine/Lipopolysaccharide-Induced Acute Liver Failure. <i>Antioxidants and Redox Signaling</i> , 2014, 20, 204-216.	2.5	81

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73	Induction of heme oxygenase-1 and stimulation of cGMP production by hemin in aortic tissues from hypertensive rats. <i>Blood</i> , 2003, 101, 3893-3900.	0.6	80
74	Butyrate-stimulated H ₂ S Production in Colon Cancer Cells. <i>Antioxidants and Redox Signaling</i> , 2010, 12, 1101-1109.	2.5	80
75	Dietary soy isoflavones increase insulin secretion and prevent the development of diabetic cataracts in streptozotocin-induced diabetic rats. <i>Nutrition Research</i> , 2008, 28, 464-471.	1.3	78
76	A critical life-supporting role for cystathionine β -lyase in the absence of dietary cysteine supply. <i>Free Radical Biology and Medicine</i> , 2011, 50, 1280-1287.	1.3	77
77	Shared signaling pathways among gasotransmitters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 8801-8802.	3.3	77
78	Specificity Protein-1 as a Critical Regulator of Human Cystathionine β -Lyase in Smooth Muscle Cells. <i>Journal of Biological Chemistry</i> , 2011, 286, 26450-26460.	1.6	76
79	Increased neointimal formation in cystathionine gamma-lyase deficient mice: Role of hydrogen sulfide in α 5 β 1-integrin and matrix metalloproteinase-2 expression in smooth muscle cells. <i>Journal of Molecular and Cellular Cardiology</i> , 2012, 52, 677-688.	0.9	71
80	Hydrogen Sulfide Impairs Glucose Utilization and Increases Gluconeogenesis in Hepatocytes. <i>Endocrinology</i> , 2013, 154, 114-126.	1.4	71
81	Hypothalamic-Pituitary Axis Regulates Hydrogen Sulfide Production. <i>Cell Metabolism</i> , 2017, 25, 1320-1333.e5.	7.2	71
82	Hydrogen Sulfide and Endothelial Dysfunction: Relationship with Nitric Oxide. <i>Current Medicinal Chemistry</i> , 2014, 21, 3646-3661.	1.2	71
83	Endogenous Kv channels in human embryonic kidney (HEK-293) cells. <i>Molecular and Cellular Biochemistry</i> , 2002, 238, 69-79.	1.4	70
84	Hydrogen Sulfide Donor GYY4137 Protects against Myocardial Fibrosis. <i>Oxidative Medicine and Cellular Longevity</i> , 2015, 2015, 1-14.	1.9	70
85	Involvement of calcium-sensing receptor in ischemia/reperfusion-induced apoptosis in rat cardiomyocytes. <i>Biochemical and Biophysical Research Communications</i> , 2006, 347, 872-881.	1.0	69
86	The Pathogenic Role of Cystathionine β -Lyase/Hydrogen Sulfide in Streptozotocin-Induced Diabetes in Mice. <i>American Journal of Pathology</i> , 2011, 179, 869-879.	1.9	69
87	H ₂ S Inhibits Hyperglycemia-Induced Intrarenal Renin-Angiotensin System Activation via Attenuation of Reactive Oxygen Species Generation. <i>PLoS ONE</i> , 2013, 8, e74366.	1.1	68
88	Involvement of exogenous H ₂ S in recovery of cardioprotection from ischemic post-conditioning via increase of autophagy in the aged hearts. <i>International Journal of Cardiology</i> , 2016, 220, 681-692.	0.8	68
89	H ₂ S and Blood Vessels: An Overview. <i>Handbook of Experimental Pharmacology</i> , 2015, 230, 85-110.	0.9	67
90	Sustained Normalization of High Blood Pressure in Spontaneously Hypertensive Rats by Implanted Hemin Pump. <i>Hypertension</i> , 2006, 48, 685-692.	1.3	66

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91	Continuous inhalation of carbon monoxide attenuates hypoxic pulmonary hypertension development presumably through activation of BK channels. <i>Cardiovascular Research</i> , 2005, 65, 751-761.	1.8	64
92	Hydrogen sulfide regulates cardiac mitochondrial biogenesis via the activation of AMPK. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 116, 29-40.	0.9	64
93	Enhanced Synthesis and Diminished Degradation of Hydrogen Sulfide in Experimental Colitis: A Site-Specific, Pro-Resolution Mechanism. <i>PLoS ONE</i> , 2013, 8, e71962.	1.1	61
94	MicroRNA-21 represses human cystathionine gamma-lyase expression by targeting at specificity protein-1 in smooth muscle cells. <i>Journal of Cellular Physiology</i> , 2012, 227, 3192-3200.	2.0	60
95	Upregulation of aldolase B and overproduction of methylglyoxal in vascular tissues from rats with metabolic syndrome. <i>Cardiovascular Research</i> , 2011, 92, 494-503.	1.8	59
96	Hydrogen Sulfide Regulates Krüppel-Like Factor 5 Transcription Activity via Specificity Protein 1 S-Sulfhydration at Cys664 to Prevent Myocardial Hypertrophy. <i>Journal of the American Heart Association</i> , 2016, 5, .	1.6	59
97	Contributions of Kv1.2, Kv1.5 and Kv2.1 subunits to the native delayed rectifier K ⁺ current in rat mesenteric artery smooth muscle cells. <i>Life Sciences</i> , 2002, 71, 1465-1473.	2.0	57
98	Calcium-sensing receptor induces rat neonatal ventricular cardiomyocyte apoptosis. <i>Biochemical and Biophysical Research Communications</i> , 2006, 350, 942-948.	1.0	56
99	The message in the air: Hydrogen sulfide metabolism in chronic respiratory diseases. <i>Respiratory Physiology and Neurobiology</i> , 2012, 184, 130-138.	0.7	56
100	H ₂ S during circulatory shock: Some unresolved questions. <i>Nitric Oxide - Biology and Chemistry</i> , 2014, 41, 48-61.	1.2	56
101	Decreased Gluconeogenesis in the Absence of Cystathionine Gamma-Lyase and the Underlying Mechanisms. <i>Antioxidants and Redox Signaling</i> , 2016, 24, 129-140.	2.5	56
102	Hydrogen sulfide-induced inhibition of L-type Ca ²⁺ channels and insulin secretion in mouse pancreatic beta cells. <i>Diabetologia</i> , 2013, 56, 533-541.	2.9	55
103	Hydrogen sulfide dysregulates the immune response by suppressing central carbon metabolism to promote tuberculosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 6663-6674.	3.3	55
104	Cystathionine γ -lyase regulates arteriogenesis through NO-dependent monocyte recruitment. <i>Cardiovascular Research</i> , 2015, 107, 590-600.	1.8	54
105	The effects of parathyroid hormone on L-type voltage-dependent calcium channel currents in vascular smooth muscle cells and ventricular myocytes are mediated by a cyclic AMP dependent mechanism. <i>FEBS Letters</i> , 1991, 282, 331-334.	1.3	52
106	Proresolution effects of hydrogen sulfide during colitis are mediated through hypoxia-inducible factor-1. <i>FASEB Journal</i> , 2015, 29, 1591-1602.	0.2	52
107	Dietary approaches to positively influence fetal determinants of adult health. <i>FASEB Journal</i> , 2006, 20, 371-373.	0.2	51
108	Hydrogen sulfide inhibits the translational expression of hypoxia-inducible factor-1. <i>British Journal of Pharmacology</i> , 2012, 167, 1492-1505.	2.7	51

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109	Mediation of exogenous hydrogen sulfide in recovery of ischemic post-conditioning-induced cardioprotection via down-regulating oxidative stress and up-regulating PI3K/Akt/GSK-3 β pathway in isolated aging rat hearts. <i>Cell and Bioscience</i> , 2015, 5, 11.	2.1	51
110	Beneficial and deleterious effects of rosiglitazone on hypertension development in spontaneously hypertensive rats. <i>American Journal of Hypertension</i> , 2004, 17, 749-756.	1.0	50
111	Role of dopamine D2 receptors in ischemia/reperfusion induced apoptosis of cultured neonatal rat cardiomyocytes. <i>Journal of Biomedical Science</i> , 2011, 18, 18.	2.6	50
112	Cystathionine gamma-lyase/hydrogen sulfide system is essential for adipogenesis and fat mass accumulation in mice. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2018, 1863, 165-176.	1.2	50
113	Bach1 Induces Endothelial Cell Apoptosis and Cell-Cycle Arrest through ROS Generation. <i>Oxidative Medicine and Cellular Longevity</i> , 2016, 2016, 1-13.	1.9	49
114	Role of polyamines in myocardial ischemia/reperfusion injury and their interactions with nitric oxide. <i>European Journal of Pharmacology</i> , 2007, 562, 236-246.	1.7	48
115	Stimulatory effect of CSE-generated H ₂ S on hepatic mitochondrial biogenesis and the underlying mechanisms. <i>Nitric Oxide - Biology and Chemistry</i> , 2016, 58, 67-76.	1.2	46
116	H ₂ S relaxes isolated human airway smooth muscle cells via the sarcolemmal KATP channel. <i>Biochemical and Biophysical Research Communications</i> , 2014, 446, 393-398.	1.0	43
117	Modification of Akt1 by methylglyoxal promotes the proliferation of vascular smooth muscle cells. <i>FASEB Journal</i> , 2011, 25, 1746-1757.	0.2	42
118	The interaction of estrogen and CSE/H ₂ S pathway in the development of atherosclerosis. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017, 312, H406-H414.	1.5	42
119	Microvascular Endothelial Dysfunction in Obesity Is Driven by Macrophage-Dependent Hydrogen Sulfide Depletion. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 889-899.	1.1	42
120	Exogenous H ₂ S contributes to recovery of ischemic post-conditioning-induced cardioprotection by decrease of ROS level via down-regulation of NF- κ B and JAK2-STAT3 pathways in the aging cardiomyocytes. <i>Cell and Bioscience</i> , 2016, 6, 26.	2.1	41
121	Activation of calcineurin expression in ischemia-reperfused rat heart and in human ischemic myocardium. <i>Journal of Cellular Biochemistry</i> , 2003, 90, 987-997.	1.2	40
122	Novel cardiac protective effects of urea: from shark to rat. <i>British Journal of Pharmacology</i> , 1999, 128, 1477-1484.	2.7	39
123	Hydrogen Sulfide As a Potential Target in Preventing Spermatogenic Failure and Testicular Dysfunction. <i>Antioxidants and Redox Signaling</i> , 2018, 28, 1447-1462.	2.5	39
124	H ₂ S protects lipopolysaccharide-induced inflammation by blocking NF- κ B transactivation in endothelial cells. <i>Toxicology and Applied Pharmacology</i> , 2018, 338, 20-29.	1.3	39
125	Metabolic changes of H ₂ S in smokers and patients of COPD which might involve in inflammation, oxidative stress and steroid sensitivity. <i>Scientific Reports</i> , 2015, 5, 14971.	1.6	38
126	Role of cGMP in hydrogen sulfide signaling. <i>Nitric Oxide - Biology and Chemistry</i> , 2015, 46, 7-13.	1.2	38

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127	Molecular basis of ATP-sensitive K ⁺ channels in rat vascular smooth muscles. <i>Biochemical and Biophysical Research Communications</i> , 2002, 296, 463-469.	1.0	37
128	Increased expression of calcium-sensing receptors in atherosclerosis confers hypersensitivity to acute myocardial infarction in rats. <i>Molecular and Cellular Biochemistry</i> , 2012, 366, 345-354.	1.4	37
129	Exogenous hydrogen sulfide restores cardioprotection of ischemic post-conditioning via inhibition of mPTP opening in the aging cardiomyocytes. <i>Cell and Bioscience</i> , 2015, 5, 43.	2.1	37
130	The interaction of IGF-1/IGF-1R and hydrogen sulfide on the proliferation of mouse primary vascular smooth muscle cells. <i>Biochemical Pharmacology</i> , 2018, 149, 143-152.	2.0	37
131	Calcium-sensing receptors regulate cardiomyocyte Ca ²⁺ signaling via the sarcoplasmic reticulum-mitochondrion interface during hypoxia/reoxygenation. <i>Journal of Biomedical Science</i> , 2010, 17, 50.	2.6	36
132	Essential role of Cdc42 in cardiomyocyte proliferation and cell-cell adhesion during heart development. <i>Developmental Biology</i> , 2017, 421, 271-283.	0.9	36
133	Altered Expression of BK Channel β 1 Subunit in Vascular Tissues from Spontaneously Hypertensive Rats. <i>American Journal of Hypertension</i> , 2006, 19, 678-685.	1.0	35
134	Decrease in calcium-sensing receptor in the progress of diabetic cardiomyopathy. <i>Diabetes Research and Clinical Practice</i> , 2012, 95, 378-385.	1.1	35
135	The Calcium-Sensing Receptor Mediates Hypoxia-Induced Proliferation of Rat Pulmonary Artery Smooth Muscle Cells Through MEK1/ERK1,2 and PI3K Pathways. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2011, 108, 185-193.	1.2	34
136	Exogenous hydrogen sulfide attenuates diabetic myocardial injury through cardiac mitochondrial protection. <i>Molecular and Cellular Biochemistry</i> , 2012, 371, 187-198.	1.4	34
137	Involvement of calcium-sensing receptors in hypoxia-induced vascular remodeling and pulmonary hypertension by promoting phenotypic modulation of small pulmonary arteries. <i>Molecular and Cellular Biochemistry</i> , 2014, 396, 87-98.	1.4	34
138	Altered profile of gene expression in rat hearts induced by chronic nicotine consumption. <i>Biochemical and Biophysical Research Communications</i> , 2002, 297, 729-736.	1.0	33
139	Calcium-sensing receptors induce apoptosis in cultured neonatal rat ventricular cardiomyocytes during simulated ischemia/reperfusion. <i>Cell Biology International</i> , 2008, 32, 792-800.	1.4	33
140	Rat pancreatic level of cystathionine β -lyase is regulated by glucose level via specificity protein 1 (SP1) phosphorylation. <i>Diabetologia</i> , 2011, 54, 2615-2625.	2.9	33
141	Role of Calcium Channels in the Protective Effect of Hydrogen Sulfide in Rat Cardiomyoblasts. <i>Cellular Physiology and Biochemistry</i> , 2014, 33, 1205-1214.	1.1	33
142	Effects of nicotine on K ⁺ channel currents in vascular smooth muscle cells from rat tail arteries. <i>European Journal of Pharmacology</i> , 1999, 364, 247-254.	1.7	32
143	Selective expression of Kir6.1 protein in different vascular and non-vascular tissues. <i>Biochemical Pharmacology</i> , 2004, 67, 147-156.	2.0	32
144	Is H ₂ S a Stinky Remedy for Atherosclerosis?. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009, 29, 156-157.	1.1	32

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145	Deficiency of cystathionine gamma-lyase and hepatic cholesterol accumulation during mouse fatty liver development. <i>Science Bulletin</i> , 2015, 60, 336-347.	4.3	32
146	Streptozotocin-induced diabetes impairs G-protein linked signal transduction in vascular smooth muscle. <i>Molecular and Cellular Biochemistry</i> , 2002, 240, 57-65.	1.4	31
147	Complex Expression and Localization of Inactivating Kv Channels in Cultured Hippocampal Astrocytes. <i>Journal of Neurophysiology</i> , 2005, 93, 1699-1709.	0.9	31
148	The novel H ₂ S donor 4-carboxyphenyl isothiocyanate inhibits mast cell degranulation and renin release by decreasing intracellular calcium. <i>British Journal of Pharmacology</i> , 2016, 173, 3222-3234.	2.7	31
149	Golgi Stress Response, Hydrogen Sulfide Metabolism, and Intracellular Calcium Homeostasis. <i>Antioxidants and Redox Signaling</i> , 2020, 32, 583-601.	2.5	31
150	Dietary restriction transforms the mammalian protein persulfidome in a tissue-specific and cystathionine β -lyase-dependent manner. <i>Nature Communications</i> , 2021, 12, 1745.	5.8	31
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