Rui Wang

List of Publications by Year
in descending order

258 papers	27,385 citations	8755 75 h-index	6131 159 g-index
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 Î³-Lyase. Science, 2008, 322, 587-590.	12.6	2,104
2	Two's company, three's a crowd: can H₂S be the third endogenous gaseous transmitter?. FASEB Journal, 2002, 16, 1792-1798.	0.5	1,639
3	Physiological Implications of Hydrogen Sulfide: A Whiff Exploration That Blossomed. Physiological Reviews, 2012, 92, 791-896.	28.8	1,618
4	H ₂ S Signals Through Protein S-Sulfhydration. Science Signaling, 2009, 2, ra72.	3.6	1,050
5	Carbon Monoxide: Endogenous Production, Physiological Functions, and Pharmacological Applications. Pharmacological Reviews, 2005, 57, 585-630.	16.0	822
6	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.	7.1	768
7	Hydrogen sulfide-based therapeutics: exploiting a unique but ubiquitous gasotransmitter. Nature Reviews Drug Discovery, 2015, 14, 329-345.	46.4	652
8	Hydrogen Sulfide as Endothelium-Derived Hyperpolarizing Factor Sulfhydrates Potassium Channels. Circulation Research, 2011, 109, 1259-1268.	4.5	531
9	Hydrogen Sulfide Protects Against Cellular Senescence <i>via</i> <i>S</i>-Sulfhydration of Keap1 and Activation of Nrf2. Antioxidants and Redox Signaling, 2013, 18, 1906-1919.	5.4	484
10	Endogenous Hydrogen Sulfide Production Is Essential for Dietary Restriction Benefits. Cell, 2015, 160, 132-144.	28.9	449
11	The Gasotransmitter Role of Hydrogen Sulfide. Antioxidants and Redox Signaling, 2003, 5, 493-501.	5.4	447
12	H₂S-induced vasorelaxation and underlying cellular and molecular mechanisms. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H474-H480.	3.2	429
13	Activation of KATPchannels by H2S in rat insulin-secreting cells and the underlying mechanisms. Journal of Physiology, 2005, 569, 519-531.	2.9	426
14	Hydrogen sulfide (H ₂ S) metabolism in mitochondria and its regulatory role in energy production. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 2943-2948.	7.1	397
15	Hydrogen sulfide-induced relaxation of resistance mesenteric artery beds of rats. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 287, H2316-H2323.	3.2	367
16	Decreased Endogenous Production of Hydrogen Sulfide Accelerates Atherosclerosis. Circulation, 2013, 127, 2523-2534.	1.6	322
17	H ₂ S Protects Against Pressure Overloadâ€“Induced Heart Failure via Upregulation of Endothelial Nitric Oxide Synthase. Circulation, 2013, 127, 1116-1127.	1.6	302
18	Hydrogen sulfide cytoprotective signaling is endothelial nitric oxide synthase-nitric oxide dependent. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3182-3187.	7.1	301

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19	Carbon monoxideâ€induced vasorelaxation and the underlying mechanisms. British Journal of Pharmacology, 1997, 121, 927-934.	5.4	288
20	Proâ€apoptotic effect of endogenous H 2 S on human aorta smooth muscle cells. FASEB Journal, 2006, 20, 553-555.	0.5	286
21	Measurement of plasma hydrogen sulfide in vivo and in vitro. Free Radical Biology and Medicine, 2011, 50, 1021-1031.	2.9	278
22	Hydrogen sulfideâ€induced apoptosis of human aorta smooth muscle cells via the activation of mitogenâ€activated protein kinases and caspaseâ€3. FASEB Journal, 2004, 18, 1782-1784.	0.5	267
23	Dietary approach to attenuate oxidative stress, hypertension, and inflammation in the cardiovascular system. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 7094-7099.	7.1	258
24	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.	7.1	254
25	Gasotransmitters: growing pains and joys. Trends in Biochemical Sciences, 2014, 39, 227-232.	7.5	251
26	Direct Stimulation of KATP Channels by Exogenous and Endogenous Hydrogen Sulfide in Vascular Smooth Muscle Cells. Molecular Pharmacology, 2005, 68, 1757-1764.	2.3	250
27	Hydrogen Sulfide: The Third Gasotransmitter in Biology and Medicine. Antioxidants and Redox Signaling, 2010, 12, 1061-1064.	5.4	237
28	Amino Acid Restriction Triggers Angiogenesis via GCN2/ATF4 Regulation of VEGF and H2S Production. Cell, 2018, 173, 117-129.e14.	28.9	229
29	Hydrogen sulfide improves drought resistance in Arabidopsis thaliana. Biochemical and Biophysical Research Communications, 2011, 414, 481-486.	2.1	225
30	Dysregulation of Hydrogen Sulfide Producing Enzyme Cystathionine Î3-lyase Contributes to Maternal Hypertension and Placental Abnormalities in Preeclampsia. Circulation, 2013, 127, 2514-2522.	1.6	224
31	The Chemical Modification of KCa Channels by Carbon Monoxide in Vascular Smooth Muscle Cells. Journal of Biological Chemistry, 1997, 272, 8222-8226.	3.4	222
32	Modulation of endogenous production of H2S in rat tissues. Canadian Journal of Physiology and Pharmacology, 2003, 81, 848-853.	1.4	208
33	Pancreatic islet overproduction of H2S and suppressed insulin release in Zucker diabetic rats. Laboratory Investigation, 2009, 89, 59-67.	3.7	190
34	Analytical measurement of discrete hydrogen sulfide pools in biological specimens. Free Radical Biology and Medicine, 2012, 52, 2276-2283.	2.9	190
35	Molecular Mechanism for H₂S-Induced Activation of K_{ATP}Channels. Antioxidants and Redox Signaling, 2010, 12, 1167-1178.	5.4	179
36	Carbon monoxide and hydrogen sulfide: gaseous messengers in cerebrovascular circulation. Journal of Applied Physiology, 2006, 100, 1065-1076.	2.5	177

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37	Oxygen-sensitive mitochondrial accumulation of cystathionine Î²-synthase mediated by Lon protease. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12679-12684.	7.1	175
38	H2S, Endoplasmic Reticulum Stress, and Apoptosis of Insulin-secreting Beta Cells. Journal of Biological Chemistry, 2007, 282, 16567-16576.	3.4	174
39	The coordination of S-sulfhydration, S-nitrosylation, and phosphorylation of endothelial nitric oxide synthase by hydrogen sulfide. Science Signaling, 2014, 7, ra87.	3.6	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.	2.1	164
41	Cystathionine Î³-Lyase Protects against Renal Ischemia/Reperfusion by Modulating Oxidative Stress. Journal of the American Society of Nephrology: JASN, 2013, 24, 759-770.	6.1	157
42	S- Sulfhydration of ATP synthase by hydrogen sulfide stimulates mitochondrial bioenergetics. Pharmacological Research, 2016, 113, 116-124.	7.1	156
43	Hydrogen Sulfide Inhibits Plasma Renin Activity. Journal of the American Society of Nephrology: JASN, 2010, 21, 993-1002.	6.1	151
44	Hydrogen Sulfide Protects from Colitis and Restores Intestinal Microbiota Biofilm and Mucus Production. Inflammatory Bowel Diseases, 2015, 21, 1006-1017.	1.9	150
45	Cystathionine Î³-Lyase Overexpression Inhibits Cell Proliferation via a H2S-dependent Modulation of ERK1/2 Phosphorylation and p21Cip/WAK-1. Journal of Biological Chemistry, 2004, 279, 49199-49205.	3.4	142
46	Cystathionine gamma-lyase deficiency and overproliferation of smooth muscle cells. Cardiovascular Research, 2010, 86, 487-495.	3.8	142
47	Crosstalk between hydrogen sulfide and nitric oxide in endothelial cells. Journal of Cellular and Molecular Medicine, 2013, 17, 879-888.	3.6	140
48	Resurgence of carbon monoxide: an endogenous gaseous vasorelaxing factor. Canadian Journal of Physiology and Pharmacology, 1998, 76, 1-15.	1.4	139
49	Interaction of hydrogen sulfide with ion channels. Clinical and Experimental Pharmacology and Physiology, 2010, 37, 753-763.	1.9	138
50	Hydrogen sulfide: a new EDRF. Kidney International, 2009, 76, 700-704.	5.2	136
51	Hydrogen sulfide and the liver. Nitric Oxide - Biology and Chemistry, 2014, 41, 62-71.	2.7	134
52	The role of H2S bioavailability in endothelial dysfunction. Trends in Pharmacological Sciences, 2015, 36, 568-578.	8.7	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.	3.8	128
54	Calcium and polyamine regulated calciumâ€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. Free Radical Biology and Medicine, 2005, 38, 286-293.	2.9	126
56	Non-enzymatic hydrogen sulfide production from cysteine in blood is catalyzed by iron and vitamin B6. Communications Biology, 2019, 2, 194.	4.4	126
57	H₂S Is an Endothelium-Derived Hyperpolarizing Factor. Antioxidants and Redox Signaling, 2013, 19, 1634-1646.	5.4	119
58	Sâ€sulfhydration of <scp>MEK</scp> 1 leads to <scp>PARP</scp> â€1 activation and <scp>DNA</scp> damage repair. EMBO Reports, 2014, 15, 792-800.	4.5	119
59	cGMP-Dependent Protein Kinase Contributes to Hydrogen Sulfide-Stimulated Vasorelaxation. PLoS ONE, 2012, 7, e53319.	2.5	116
60	Signaling pathways for the vascular effects of hydrogen sulfide. Current Opinion in Nephrology and Hypertension, 2011, 20, 107-112.	2.0	113
61	Hydrogen Sulfide and the Pathogenesis of Atherosclerosis. Antioxidants and Redox Signaling, 2014, 20, 805-817.	5.4	113
62	Bach1 Represses Wnt/Î²-Catenin Signaling and Angiogenesis. Circulation Research, 2015, 117, 364-375.	4.5	113
63	Hydrogen sulfide as an oxygen sensor in trout gill chemoreceptors. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 295, R669-R680.	1.8	104
64	The endogenous production of hydrogen sulphide in intrauterine tissues. Reproductive Biology and Endocrinology, 2009, 7, 10.	3.3	101
65	Rescue of mesangial cells from high glucose-induced over-proliferation and extracellular matrix secretion by hydrogen sulfide. Nephrology Dialysis Transplantation, 2011, 26, 2119-2126.	0.7	100
66	Integrated Stress Response Modulates Cellular Redox State via Induction of Cystathionine Î³-Lyase. Journal of Biological Chemistry, 2012, 287, 7603-7614.	3.4	100
67	Selective Regulation of Blood Pressure by Heme Oxygenase-1 in Hypertension. Hypertension, 2002, 40, 315-321.	2.7	96
68	SIRT3 Mediates the Antioxidant Effect of Hydrogen Sulfide in Endothelial Cells. Antioxidants and Redox Signaling, 2016, 24, 329-343.	5.4	94
69	Carbon monoxide and hypertension. Journal of Hypertension, 2004, 22, 1057-1074.	0.5	92
70	Hydrogen sulfide and asthma. Experimental Physiology, 2011, 96, 847-852.	2.0	85
71	The Inhibitory Role of Hydrogen Sulfide in Airway Hyperresponsiveness and Inflammation in a Mouse Model of Asthma. American Journal of Pathology, 2013, 182, 1188-1195.	3.8	84
72	Cystathionine Î³-Lyase Deficiency Protects Mice from Galactosamine/Lipopolysaccharide-Induced Acute Liver Failure. Antioxidants and Redox Signaling, 2014, 20, 204-216.	5.4	81

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73	Induction of heme oxygenase-1 and stimulation of cGMP production by hemin in aortic tissues from hypertensive rats. Blood, 2003, 101, 3893-3900.	1.4	80
74	Butyrate-stimulated H₂S Production in Colon Cancer Cells. Antioxidants and Redox Signaling, 2010, 12, 1101-1109.	5.4	80
75	Dietary soy isoflavones increase insulin secretion and prevent the development of diabetic cataracts in streptozotocin-induced diabetic rats. Nutrition Research, 2008, 28, 464-471.	2.9	78
76	A critical life-supporting role for cystathionine Î³-lyase in the absence of dietary cysteine supply. Free Radical Biology and Medicine, 2011, 50, 1280-1287.	2.9	77
77	Shared signaling pathways among gasotransmitters. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8801-8802.	7.1	77
78	Specificity Protein-1 as a Critical Regulator of Human Cystathionine Î³-Lyase in Smooth Muscle Cells. Journal of Biological Chemistry, 2011, 286, 26450-26460.	3.4	76
79	Increased neointimal formation in cystathionine gamma-lyase deficient mice: Role of hydrogen sulfide in Î±5Î²1-integrin and matrix metalloproteinase-2 expression in smooth muscle cells. Journal of Molecular and Cellular Cardiology, 2012, 52, 677-688.	1.9	71
80	Hydrogen Sulfide Impairs Glucose Utilization and Increases Gluconeogenesis in Hepatocytes. Endocrinology, 2013, 154, 114-126.	2.8	71
81	Hypothalamic-Pituitary Axis Regulates Hydrogen Sulfide Production. Cell Metabolism, 2017, 25, 1320-1333.e5.	16.2	71
82	Hydrogen Sulfide and Endothelial Dysfunction: Relationship with Nitric Oxide. Current Medicinal Chemistry, 2014, 21, 3646-3661.	2.4	71
83	Endogenous Kv channels in human embryonic kidney (HEK-293) cells. Molecular and Cellular Biochemistry, 2002, 238, 69-79.	3.1	70
84	Hydrogen Sulfide Donor GYY4137 Protects against Myocardial Fibrosis. Oxidative Medicine and Cellular Longevity, 2015, 2015, 1-14.	4.0	70
85	Involvement of calcium-sensing receptor in ischemia/reperfusion-induced apoptosis in rat cardiomyocytes. Biochemical and Biophysical Research Communications, 2006, 347, 872-881.	2.1	69
86	The Pathogenic Role of Cystathionine Î³-Lyase/Hydrogen Sulfide in Streptozotocin-Induced Diabetes in Mice. American Journal of Pathology, 2011, 179, 869-879.	3.8	69
87	H2S Inhibits Hyperglycemia-Induced Intrarenal Renin-Angiotensin System Activation via Attenuation of Reactive Oxygen Species Generation. PLoS ONE, 2013, 8, e74366.	2.5	68
88	Involvement of exogenous H2S in recovery of cardioprotection from ischemic post-conditioning via increase of autophagy in the aged hearts. International Journal of Cardiology, 2016, 220, 681-692.	1.7	68
89	H2S and Blood Vessels: An Overview. Handbook of Experimental Pharmacology, 2015, 230, 85-110.	1.8	67
90	Sustained Normalization of High Blood Pressure in Spontaneously Hypertensive Rats by Implanted Hemin Pump. Hypertension, 2006, 48, 685-692.	2.7	66

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91	Continuous inhalation of carbon monoxide attenuates hypoxic pulmonary hypertension development presumably through activation of BK channels. Cardiovascular Research, 2005, 65, 751-761.	3.8	64
92	Hydrogen sulfide regulates cardiac mitochondrial biogenesis via the activation of AMPK. Journal of Molecular and Cellular Cardiology, 2018, 116, 29-40.	1.9	64
93	Enhanced Synthesis and Diminished Degradation of Hydrogen Sulfide in Experimental Colitis: A Site-Specific, Pro-Resolution Mechanism. PLoS ONE, 2013, 8, e71962.	2.5	61
94	MicroRNAâ€21 represses human cystathionine gammaâ€lyase expression by targeting at specificity proteinâ€1 in smooth muscle cells. Journal of Cellular Physiology, 2012, 227, 3192-3200.	4.1	60
95	Upregulation of aldolase B and overproduction of methylglyoxal in vascular tissues from rats with metabolic syndrome. Cardiovascular Research, 2011, 92, 494-503.	3.8	59
96	Hydrogen Sulfide Regulates KrÃ¼ppelâ€Like Factor 5 Transcription Activity via Specificity Protein 1 Sâ€Sulfhydration at Cys664 to Prevent Myocardial Hypertrophy. Journal of the American Heart Association, 2016, 5, .	3.7	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. Life Sciences, 2002, 71, 1465-1473.	4.3	57
98	Calcium-sensing receptor induces rat neonatal ventricular cardiomyocyte apoptosis. Biochemical and Biophysical Research Communications, 2006, 350, 942-948.	2.1	56
99	The message in the air: Hydrogen sulfide metabolism in chronic respiratory diseases. Respiratory Physiology and Neurobiology, 2012, 184, 130-138.	1.6	56
100	H2S during circulatory shock: Some unresolved questions. Nitric Oxide - Biology and Chemistry, 2014, 41, 48-61.	2.7	56
101	Decreased Gluconeogenesis in the Absence of Cystathionine Gamma-Lyase and the Underlying Mechanisms. Antioxidants and Redox Signaling, 2016, 24, 129-140.	5.4	56
102	Hydrogen sulfide-induced inhibition of L-type Ca2+ channels and insulin secretion in mouse pancreatic beta cells. Diabetologia, 2013, 56, 533-541.	6.3	55
103	Hydrogen sulfide dysregulates the immune response by suppressing central carbon metabolism to promote tuberculosis. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6663-6674.	7.1	55
104	Cystathionine Î³-lyase regulates arteriogenesis through NO-dependent monocyte recruitment. Cardiovascular Research, 2015, 107, 590-600.	3.8	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. FEBS Letters, 1991, 282, 331-334.	2.8	52
106	Proresolution effects of hydrogen sulfide during colitis are mediated through hypoxiaâ€inducible factorâ€1Î±. FASEB Journal, 2015, 29, 1591-1602.	0.5	52
107	Dietary approaches to positively influence fetal determinants of adult health. FASEB Journal, 2006, 20, 371-373.	0.5	51
108	Hydrogen sulfide inhibits the translational expression of hypoxiaâ€inducible factorâ€1Î±. British Journal of Pharmacology, 2012, 167, 1492-1505.	5.4	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-3Î² pathway in isolated aging rat hearts. Cell and Bioscience, 2015, 5, 11.	4.8	51
110	Beneficial and deleterious effects of rosiglitazone on hypertension development in spontaneously hypertensive rats. American Journal of Hypertension, 2004, 17, 749-756.	2.0	50
111	Role of dopamine D2 receptors in ischemia/reperfusion induced apoptosis of cultured neonatal rat cardiomyocytes. Journal of Biomedical Science, 2011, 18, 18.	7.0	50
112	Cystathionine gamma-lyase/hydrogen sulfide system is essential for adipogenesis and fat mass accumulation in mice. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2018, 1863, 165-176.	2.4	50
113	Bach1 Induces Endothelial Cell Apoptosis and Cell-Cycle Arrest through ROS Generation. Oxidative Medicine and Cellular Longevity, 2016, 2016, 1-13.	4.0	49
114	Role of polyamines in myocardial ischemia/reperfusion injury and their interactions with nitric oxide. European Journal of Pharmacology, 2007, 562, 236-246.	3.5	48
115	Stimulatory effect of CSE-generated H2S on hepatic mitochondrial biogenesis and the underlying mechanisms. Nitric Oxide - Biology and Chemistry, 2016, 58, 67-76.	2.7	46
116	H2S relaxes isolated human airway smooth muscle cells via the sarcolemmal KATP channel. Biochemical and Biophysical Research Communications, 2014, 446, 393-398.	2.1	43
117	Modification of Akt1 by methylglyoxal promotes the proliferation of vascular smooth muscle cells. FASEB Journal, 2011, 25, 1746-1757.	0.5	42
118	The interaction of estrogen and CSE/H₂S pathway in the development of atherosclerosis. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 312, H406-H414.	3.2	42
119	Microvascular Endothelial Dysfunction in Obesity Is Driven by Macrophage-Dependent Hydrogen Sulfide Depletion. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 889-899.	2.4	42
120	Exogenous H2S contributes to recovery of ischemic post-conditioning-induced cardioprotection by decrease of ROS level via down-regulation of NF-ÎºB and JAK2-STAT3 pathways in the aging cardiomyocytes. Cell and Bioscience, 2016, 6, 26.	4.8	41
121	Activation of calcineurin expression in ischemia-reperfused rat heart and in human ischemic myocardium. Journal of Cellular Biochemistry, 2003, 90, 987-997.	2.6	40
122	Novel cardiac protective effects of urea: from shark to rat. British Journal of Pharmacology, 1999, 128, 1477-1484.	5.4	39
123	Hydrogen Sulfide As a Potential Target in Preventing Spermatogenic Failure and Testicular Dysfunction. Antioxidants and Redox Signaling, 2018, 28, 1447-1462.	5.4	39
124	H2S protects lipopolysaccharide-induced inflammation by blocking NFÎºB transactivation in endothelial cells. Toxicology and Applied Pharmacology, 2018, 338, 20-29.	2.8	39
125	Metabolic changes of H2S in smokers and patients of COPD which might involve in inflammation, oxidative stress and steroid sensitivity. Scientific Reports, 2015, 5, 14971.	3.3	38
126	Role of cGMP in hydrogen sulfide signaling. Nitric Oxide - Biology and Chemistry, 2015, 46, 7-13.	2.7	38

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127	Molecular basis of ATP-sensitive K+ channels in rat vascular smooth muscles. Biochemical and Biophysical Research Communications, 2002, 296, 463-469.	2.1	37
128	Increased expression of calcium-sensing receptors in atherosclerosis confers hypersensitivity to acute myocardial infarction in rats. Molecular and Cellular Biochemistry, 2012, 366, 345-354.	3.1	37
129	Exogenous hydrogen sulfide restores cardioprotection of ischemic post-conditioning via inhibition of mPTP opening in the aging cardiomyocytes. Cell and Bioscience, 2015, 5, 43.	4.8	37
130	The interaction of IGF-1/IGF-1R and hydrogen sulfide on the proliferation of mouse primary vascular smooth muscle cells. Biochemical Pharmacology, 2018, 149, 143-152.	4.4	37
131	Calcium-sensing receptors regulate cardiomyocyte Ca2+ signaling via the sarcoplasmic reticulum-mitochondrion interface during hypoxia/reoxygenation. Journal of Biomedical Science, 2010, 17, 50.	7.0	36
132	Essential role of Cdc42 in cardiomyocyte proliferation and cell-cell adhesion during heart development. Developmental Biology, 2017, 421, 271-283.	2.0	36
133	Altered Expression of BK Channel Î²1 Subunit in Vascular Tissues from Spontaneously Hypertensive Rats. American Journal of Hypertension, 2006, 19, 678-685.	2.0	35
134	Decrease in calcium-sensing receptor in the progress of diabetic cardiomyopathy. Diabetes Research and Clinical Practice, 2012, 95, 378-385.	2.8	35
135	The Calcium-Sensing Receptor Mediates Hypoxia-Induced Proliferation of Rat Pulmonary Artery Smooth Muscle Cells Through MEK1/ERK1,2 and PI3K Pathways. Basic and Clinical Pharmacology and Toxicology, 2011, 108, 185-193.	2.5	34
136	Exogenous hydrogen sulfide attenuates diabetic myocardial injury through cardiac mitochondrial protection. Molecular and Cellular Biochemistry, 2012, 371, 187-198.	3.1	34
137	Involvement of calcium-sensing receptors in hypoxia-induced vascular remodeling and pulmonary hypertension by promoting phenotypic modulation of small pulmonary arteries. Molecular and Cellular Biochemistry, 2014, 396, 87-98.	3.1	34
138	Altered profile of gene expression in rat hearts induced by chronic nicotine consumption. Biochemical and Biophysical Research Communications, 2002, 297, 729-736.	2.1	33
139	Calciumâ€sensing receptors induce apoptosis in cultured neonatal rat ventricular cardiomyocytes during simulated ischemia/reperfusion. Cell Biology International, 2008, 32, 792-800.	3.0	33
140	Rat pancreatic level of cystathionine Î³-lyase is regulated by glucose level via specificity protein 1 (SP1) phosphorylation. Diabetologia, 2011, 54, 2615-2625.	6.3	33
141	Role of Calcium Channels in the Protective Effect of Hydrogen Sulfide in Rat Cardiomyoblasts. Cellular Physiology and Biochemistry, 2014, 33, 1205-1214.	1.6	33
142	Effects of nicotine on K+ channel currents in vascular smooth muscle cells from rat tail arteries. European Journal of Pharmacology, 1999, 364, 247-254.	3.5	32
143	Selective expression of Kir6.1 protein in different vascular and non-vascular tissues. Biochemical Pharmacology, 2004, 67, 147-156.	4.4	32
144	Is H ₂ S a Stinky Remedy for Atherosclerosis?. Arteriosclerosis, Thrombosis, and Vascular Biology, 2009, 29, 156-157.	2.4	32

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145	Deficiency of cystathionine gamma-lyase and hepatic cholesterol accumulation during mouse fatty liver development. Science Bulletin, 2015, 60, 336-347.	9.0	32
146	Streptozotocin-induced diabetes impairs G-protein linked signal transduction in vascular smooth muscle. Molecular and Cellular Biochemistry, 2002, 240, 57-65.	3.1	31
147	Complex Expression and Localization of Inactivating Kv Channels in Cultured Hippocampal Astrocytes. Journal of Neurophysiology, 2005, 93, 1699-1709.	1.8	31
148	The novel H₂S donor 4â€carboxyâ€phenyl isothiocyanate inhibits mast cell degranulation and renin release by decreasing intracellular calcium. British Journal of Pharmacology, 2016, 173, 3222-3234.	5.4	31
149	Golgi Stress Response, Hydrogen Sulfide Metabolism, and Intracellular Calcium Homeostasis. Antioxidants and Redox Signaling, 2020, 32, 583-601.	5.4	31
150	Dietary restriction transforms the mammalian protein persulfidome in a tissue-specific and cystathionine Î³-lyase-dependent manner. Nature Communications, 2021, 12, 1745.	12.8	31
151	Cardiovascular effects of Buthus martensii (Karsch) scorpion venom. Toxicon, 1994, 32, 191-200.	1.6	30
152	Inhibition of vascular smooth muscle cell proliferation by chronic hemin treatment. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 295, H999-H1007.	3.2	30
153	Increased expression of calciumâ€sensing receptors induced by oxâ€LDL amplifies apoptosis of cardiomyocytes during simulated ischaemiaâ€“reperfusion. Clinical and Experimental Pharmacology and Physiology, 2010, 37, e128-35.	1.9	30
154	Interaction of Hydrogen Sulfide and Estrogen on the Proliferation of Vascular Smooth Muscle Cells. PLoS ONE, 2012, 7, e41614.	2.5	30
155	Modulation of Cardiac and Aortic Peroxisome Proliferator-Activated Receptor-Î³ Expression by Oxidative Stress in Chronically Glucose-Fed Rats. American Journal of Hypertension, 2006, 19, 407-412.	2.0	29
156	Nerve sprouting suppresses myocardial Ito and IK1 channels and increases severity to ventricular fibrillation in rat. Autonomic Neuroscience: Basic and Clinical, 2008, 144, 22-29.	2.8	29
157	Interaction of Selective Amino Acid Residues of K_{Ca} Channels with Carbon Monoxide. Experimental Biology and Medicine, 2003, 228, 474-480.	2.4	28
158	Calciumâ€Sensing Receptors Induce Apoptosis in Rat Cardiomyocytes via the Endo(sarco)plasmic Reticulum Pathway during Hypoxia/Reoxygenation. Basic and Clinical Pharmacology and Toxicology, 2010, 106, 396-405.	2.5	28
159	Cardiovascular disease and resuscitated septic shock lead to the downregulation of the H2S-producing enzyme cystathionine-Î³-lyase in the porcine coronary artery. Intensive Care Medicine Experimental, 2017, 5, 17.	1.9	28
160	Molecular basis of voltage-dependent delayed rectifier K+ channels in smooth muscle cells from rat tail artery. Life Sciences, 2000, 66, 2023-2033.	4.3	27
161	Altered Vascular Reactivity and KATP Channel Currents in Vascular Smooth Muscle Cells from Deoxycorticosterone Acetate (DOCA)-Salt Hypertensive Rats. Journal of Cardiovascular Pharmacology, 2004, 44, 525-531.	1.9	26
162	Toxic Gas, Lifesaver. Scientific American, 2010, 302, 66-71.	1.0	26

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163	Involvement of calcium-sensing receptor in oxLDL-induced MMP-2 production in vascular smooth muscle cells via PI3K/Akt pathway. Molecular and Cellular Biochemistry, 2012, 362, 115-122.	3.1	26
164	Mediation of dopamine D2 receptors activation in post-conditioning-attenuated cardiomyocyte apoptosis. Experimental Cell Research, 2014, 323, 118-130.	2.6	26
165	Interaction of H_{2}S with Calcium Permeable Channels and Transporters. Oxidative Medicine and Cellular Longevity, 2015, 2015, 1-7.	4.0	26
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