

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

254 papers	22,886 citations	70 h-index	146 g-index
273 ext. papers	25,176 ext. citations	6.6 avg, IF	7.4 L-index

#	Paper	IF	Citations
254	H2S as a physiologic vasorelaxant: hypertension in mice with deletion of cystathionine gamma-lyase. <i>Science</i> , 2008 , 322, 587-90	33.3	1812
253	Two's company, three's a crowd: can H2S be the third endogenous gaseous transmitter?. <i>FASEB Journal</i> , 2002 , 16, 1792-8	0.9	1438
252	Physiological implications of hydrogen sulfide: a whiff exploration that blossomed. <i>Physiological Reviews</i> , 2012 , 92, 791-896	47.9	1304
251	H2S signals through protein S-sulfhydration. <i>Science Signaling</i> , 2009 , 2, ra72	8.8	842
250	Carbon monoxide: endogenous production, physiological functions, and pharmacological applications. <i>Pharmacological Reviews</i> , 2005 , 57, 585-630	22.5	696
249	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, 21972-7	11.5	637
248	Hydrogen sulfide-based therapeutics: exploiting a unique but ubiquitous gasotransmitter. <i>Nature Reviews Drug Discovery</i> , 2015 , 14, 329-45	64.1	482
247	Hydrogen sulfide as endothelium-derived hyperpolarizing factor sulfhydrates potassium channels. <i>Circulation Research</i> , 2011 , 109, 1259-68	15.7	444
246	The gasotransmitter role of hydrogen sulfide. <i>Antioxidants and Redox Signaling</i> , 2003 , 5, 493-501	8.4	398
245	H(2)S-induced vasorelaxation and underlying cellular and molecular mechanisms. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002 , 283, H474-80	5.2	389
244	Activation of KATP channels by H2S in rat insulin-secreting cells and the underlying mechanisms. <i>Journal of Physiology</i> , 2005 , 569, 519-31	3.9	378
243	Hydrogen sulfide protects against cellular senescence via S-sulfhydration of Keap1 and activation of Nrf2. <i>Antioxidants and Redox Signaling</i> , 2013 , 18, 1906-19	8.4	377
242	Hydrogen sulfide-induced relaxation of resistance mesenteric artery beds of rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004 , 287, H2316-23	5.2	333
241	Endogenous hydrogen sulfide production is essential for dietary restriction benefits. <i>Cell</i> , 2015 , 160, 132-44	56.2	331
240	Hydrogen sulfide (H2S) 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, 2943-8	11.5	321
239	Decreased endogenous production of hydrogen sulfide accelerates atherosclerosis. <i>Circulation</i> , 2013 , 127, 2523-34	16.7	263
238	Pro-apoptotic effect of endogenous H2S on human aorta smooth muscle cells. <i>FASEB Journal</i> , 2006 , 20, 553-5	0.9	262

237	Carbon monoxide-induced vasorelaxation and the underlying mechanisms. <i>British Journal of Pharmacology</i> , 1997 , 121, 927-34	8.6	255
236	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, 1782-4	0.9	251
235	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, 3182-7	11.5	250
234	H ₂ S protects against pressure overload-induced heart failure via upregulation of endothelial nitric oxide synthase. <i>Circulation</i> , 2013 , 127, 1116-27	16.7	244
233	Measurement of plasma hydrogen sulfide in vivo and in vitro. <i>Free Radical Biology and Medicine</i> , 2011 , 50, 1021-31	7.8	239
232	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, 7094-9	11.5	231
231	Direct stimulation of K(ATP) channels by exogenous and endogenous hydrogen sulfide in vascular smooth muscle cells. <i>Molecular Pharmacology</i> , 2005 , 68, 1757-64	4.3	225
230	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, 13829-34	11.5	223
229	The chemical modification of K _{Ca} channels by carbon monoxide in vascular smooth muscle cells. <i>Journal of Biological Chemistry</i> , 1997 , 272, 8222-6	5.4	204
228	Gasotransmitters: growing pains and joys. <i>Trends in Biochemical Sciences</i> , 2014 , 39, 227-32	10.3	197
227	Dysregulation of hydrogen sulfide producing enzyme cystathionine β -lyase contributes to maternal hypertension and placental abnormalities in preeclampsia. <i>Circulation</i> , 2013 , 127, 2514-22	16.7	195
226	Modulation of endogenous production of H ₂ S in rat tissues. <i>Canadian Journal of Physiology and Pharmacology</i> , 2003 , 81, 848-53	2.4	191
225	Hydrogen sulfide improves drought resistance in <i>Arabidopsis thaliana</i> . <i>Biochemical and Biophysical Research Communications</i> , 2011 , 414, 481-6	3.4	182
224	Pancreatic islet overproduction of H ₂ S and suppressed insulin release in Zucker diabetic rats. <i>Laboratory Investigation</i> , 2009 , 89, 59-67	5.9	161
223	Carbon monoxide and hydrogen sulfide: gaseous messengers in cerebrovascular circulation. <i>Journal of Applied Physiology</i> , 2006 , 100, 1065-76	3.7	161
222	Analytical measurement of discrete hydrogen sulfide pools in biological specimens. <i>Free Radical Biology and Medicine</i> , 2012 , 52, 2276-83	7.8	158
221	H ₂ S, endoplasmic reticulum stress, and apoptosis of insulin-secreting beta cells. <i>Journal of Biological Chemistry</i> , 2007 , 282, 16567-76	5.4	158
220	Effects of hydrogen sulfide on homocysteine-induced oxidative stress in vascular smooth muscle cells. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 351, 485-91	3.4	152

219	Molecular mechanism for H ₂ S-induced activation of K(ATP) channels. <i>Antioxidants and Redox Signaling</i> , 2010 , 12, 1167-78	8.4	150
218	Amino Acid Restriction Triggers Angiogenesis via GCN2/ATF4 Regulation of VEGF and HS Production. <i>Cell</i> , 2018 , 173, 117-129.e14	56.2	144
217	Oxygen-sensitive mitochondrial accumulation of cystathionine γ -synthase mediated by Lon protease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 12679-84	11.5	144
216	The coordination of S-sulfhydration, S-nitrosylation, and phosphorylation of endothelial nitric oxide synthase by hydrogen sulfide. <i>Science Signaling</i> , 2014 , 7, ra87	8.8	140
215	Cystathionine γ -lyase protects against renal ischemia/reperfusion by modulating oxidative stress. <i>Journal of the American Society of Nephrology: JASN</i> , 2013 , 24, 759-70	12.7	136
214	Cystathionine gamma-lyase overexpression inhibits cell proliferation via a H ₂ S-dependent modulation of ERK1/2 phosphorylation and p21Cip/WAK-1. <i>Journal of Biological Chemistry</i> , 2004 , 279, 49199-205	5.4	133
213	Resurgence of carbon monoxide: an endogenous gaseous vasorelaxing factor. <i>Canadian Journal of Physiology and Pharmacology</i> , 1998 , 76, 1-15	2.4	130
212	Cystathionine gamma-lyase deficiency and overproliferation of smooth muscle cells. <i>Cardiovascular Research</i> , 2010 , 86, 487-95	9.9	128
211	Hydrogen sulfide inhibits plasma renin activity. <i>Journal of the American Society of Nephrology: JASN</i> , 2010 , 21, 993-1002	12.7	126
210	Hydrogen sulfide: a new EDRF. <i>Kidney International</i> , 2009 , 76, 700-4	9.9	122
209	Interaction of hydrogen sulfide with ion channels. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2010 , 37, 753-63	3	121
208	Protective effect of hydrogen sulfide on balloon injury-induced neointima hyperplasia in rat carotid arteries. <i>American Journal of Pathology</i> , 2007 , 170, 1406-14	5.8	116
207	Crosstalk between hydrogen sulfide and nitric oxide in endothelial cells. <i>Journal of Cellular and Molecular Medicine</i> , 2013 , 17, 879-88	5.6	115
206	Methylglyoxal-induced nitric oxide and peroxynitrite production in vascular smooth muscle cells. <i>Free Radical Biology and Medicine</i> , 2005 , 38, 286-93	7.8	111
205	S-Sulfhydration of ATP synthase by hydrogen sulfide stimulates mitochondrial bioenergetics. <i>Pharmacological Research</i> , 2016 , 113, 116-124	10.2	109
204	Hydrogen sulfide and the liver. <i>Nitric Oxide - Biology and Chemistry</i> , 2014 , 41, 62-71	5	108
203	The role of H ₂ S bioavailability in endothelial dysfunction. <i>Trends in Pharmacological Sciences</i> , 2015 , 36, 568-78	13.2	106
202	Hydrogen sulfide protects from colitis and restores intestinal microbiota biofilm and mucus production. <i>Inflammatory Bowel Diseases</i> , 2015 , 21, 1006-17	4.5	106

201	Calcium and polyamine regulated calcium-sensing receptors in cardiac tissues. <i>FEBS Journal</i> , 2003 , 270, 2680-8		106
200	H ₂ S is an endothelium-derived hyperpolarizing factor. <i>Antioxidants and Redox Signaling</i> , 2013 , 19, 1634-46	4.4	105
199	Signaling pathways for the vascular effects of hydrogen sulfide. <i>Current Opinion in Nephrology and Hypertension</i> , 2011 , 20, 107-12	3.5	100
198	S-sulphydration of MEK1 leads to PARP-1 activation and DNA damage repair. <i>EMBO Reports</i> , 2014 , 15, 792-800	6.5	98
197	Hydrogen sulfide and the pathogenesis of atherosclerosis. <i>Antioxidants and Redox Signaling</i> , 2014 , 20, 805-17	8.4	98
196	Hydrogen sulfide as an oxygen sensor in trout gill chemoreceptors. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008 , 295, R669-80	3.2	97
195	cGMP-dependent protein kinase contributes to hydrogen sulfide-stimulated vasorelaxation. <i>PLoS ONE</i> , 2012 , 7, e53319	3.7	97
194	Selective regulation of blood pressure by heme oxygenase-1 in hypertension. <i>Hypertension</i> , 2002 , 40, 315-21	8.5	91
193	The endogenous production of hydrogen sulphide in intrauterine tissues. <i>Reproductive Biology and Endocrinology</i> , 2009 , 7, 10	5	88
192	Rescue of mesangial cells from high glucose-induced over-proliferation and extracellular matrix secretion by hydrogen sulfide. <i>Nephrology Dialysis Transplantation</i> , 2011 , 26, 2119-26	4.3	84
191	Carbon monoxide and hypertension. <i>Journal of Hypertension</i> , 2004 , 22, 1057-74	1.9	83
190	Induction of heme oxygenase-1 and stimulation of cGMP production by hemin in aortic tissues from hypertensive rats. <i>Blood</i> , 2003 , 101, 3893-900	2.2	79
189	Bach1 Represses Wnt/ β -Catenin Signaling and Angiogenesis. <i>Circulation Research</i> , 2015 , 117, 364-375	15.7	78
188	Integrated stress response modulates cellular redox state via induction of cystathionine γ -lyase: cross-talk between integrated stress response and thiol metabolism. <i>Journal of Biological Chemistry</i> , 2012 , 287, 7603-14	5.4	77
187	SIRT3 Mediates the Antioxidant Effect of Hydrogen Sulfide in Endothelial Cells. <i>Antioxidants and Redox Signaling</i> , 2016 , 24, 329-43	8.4	75
186	Butyrate-stimulated H ₂ S production in colon cancer cells. <i>Antioxidants and Redox Signaling</i> , 2010 , 12, 1101-9	8.4	74
185	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, 1188-95	5.8	70
184	Non-enzymatic hydrogen sulfide production from cysteine in blood is catalyzed by iron and vitamin B. <i>Communications Biology</i> , 2019 , 2, 194	6.7	69

183	Cystathionine γ -lyase deficiency protects mice from galactosamine/lipopolysaccharide-induced acute liver failure. <i>Antioxidants and Redox Signaling</i> , 2014 , 20, 204-16	8.4	68
182	Hydrogen sulfide impairs glucose utilization and increases gluconeogenesis in hepatocytes. <i>Endocrinology</i> , 2013 , 154, 114-26	4.8	64
181	Hydrogen sulfide and asthma. <i>Experimental Physiology</i> , 2011 , 96, 847-52	2.4	63
180	Specificity protein-1 as a critical regulator of human cystathionine gamma-lyase in smooth muscle cells. <i>Journal of Biological Chemistry</i> , 2011 , 286, 26450-60	5.4	63
179	Endogenous Kv channels in human embryonic kidney (HEK-293) cells. <i>Molecular and Cellular Biochemistry</i> , 2002 , 238, 69-79	4.2	63
178	A critical life-supporting role for cystathionine γ -lyase in the absence of dietary cysteine supply. <i>Free Radical Biology and Medicine</i> , 2011 , 50, 1280-7	7.8	62
177	Dietary soy isoflavones increase insulin secretion and prevent the development of diabetic cataracts in streptozotocin-induced diabetic rats. <i>Nutrition Research</i> , 2008 , 28, 464-71	4	62
176	Involvement of calcium-sensing receptor in ischemia/reperfusion-induced apoptosis in rat cardiomyocytes. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 347, 872-81	3.4	62
175	Increased neointimal formation in cystathionine gamma-lyase deficient mice: role of hydrogen sulfide in β_1 -integrin and matrix metalloproteinase-2 expression in smooth muscle cells. <i>Journal of Molecular and Cellular Cardiology</i> , 2012 , 52, 677-88	5.8	61
174	Sustained normalization of high blood pressure in spontaneously hypertensive rats by implanted hemin pump. <i>Hypertension</i> , 2006 , 48, 685-92	8.5	61
173	Continuous inhalation of carbon monoxide attenuates hypoxic pulmonary hypertension development presumably through activation of BKCa channels. <i>Cardiovascular Research</i> , 2005 , 65, 751-61	9.9	60
172	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	3.7	57
171	The pathogenic role of cystathionine γ -lyase/hydrogen sulfide in streptozotocin-induced diabetes in mice. <i>American Journal of Pathology</i> , 2011 , 179, 869-79	5.8	57
170	Hypothalamic-Pituitary Axis Regulates Hydrogen Sulfide Production. <i>Cell Metabolism</i> , 2017 , 25, 1320-1332	11.65	56
169	Hydrogen Sulfide Donor GYY4137 Protects against Myocardial Fibrosis. <i>Oxidative Medicine and Cellular Longevity</i> , 2015 , 2015, 691070	6.7	56
168	Shared signaling pathways among gasotransmitters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 8801-2	11.5	55
167	Hydrogen sulfide and endothelial dysfunction: relationship with nitric oxide. <i>Current Medicinal Chemistry</i> , 2014 , 21, 3646-61	4.3	55
166	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, 681-92	3.2	55

165	H ₂ S and Blood Vessels: An Overview. <i>Handbook of Experimental Pharmacology</i> , 2015 , 230, 85-110	3.2	54
164	Calcium-sensing receptor induces rat neonatal ventricular cardiomyocyte apoptosis. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 350, 942-8	3.4	54
163	Enhanced synthesis and diminished degradation of hydrogen sulfide in experimental colitis: a site-specific, pro-resolution mechanism. <i>PLoS ONE</i> , 2013 , 8, e71962	3.7	50
162	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, 3192-200	7	49
161	Upregulation of aldolase B and overproduction of methylglyoxal in vascular tissues from rats with metabolic syndrome. <i>Cardiovascular Research</i> , 2011 , 92, 494-503	9.9	48
160	Hydrogen sulfide regulates cardiac mitochondrial biogenesis via the activation of AMPK. <i>Journal of Molecular and Cellular Cardiology</i> , 2018 , 116, 29-40	5.8	47
159	H ₂ S during circulatory shock: some unresolved questions. <i>Nitric Oxide - Biology and Chemistry</i> , 2014 , 41, 48-61	5	47
158	Hydrogen sulfide-induced inhibition of L-type Ca ²⁺ channels and insulin secretion in mouse pancreatic beta cells. <i>Diabetologia</i> , 2013 , 56, 533-41	10.3	47
157	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, 1465-73	6.8	47
156	Beneficial and deleterious effects of rosiglitazone on hypertension development in spontaneously hypertensive rats. <i>American Journal of Hypertension</i> , 2004 , 17, 749-56	2.3	46
155	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, 331-4	3.8	45
154	The message in the air: hydrogen sulfide metabolism in chronic respiratory diseases. <i>Respiratory Physiology and Neurobiology</i> , 2012 , 184, 130-8	2.8	44
153	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	9.8	43
152	Hydrogen Sulfide Regulates Kr μ ppeL-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,	6	43
151	Decreased Gluconeogenesis in the Absence of Cystathionine Gamma-Lyase and the Underlying Mechanisms. <i>Antioxidants and Redox Signaling</i> , 2016 , 24, 129-40	8.4	42
150	Hydrogen sulfide inhibits the translational expression of hypoxia-inducible factor-1. <i>British Journal of Pharmacology</i> , 2012 , 167, 1492-505	8.6	42
149	Role of polyamines in myocardial ischemia/reperfusion injury and their interactions with nitric oxide. <i>European Journal of Pharmacology</i> , 2007 , 562, 236-46	5.3	42
148	Dietary approaches to positively influence fetal determinants of adult health. <i>FASEB Journal</i> , 2006 , 20, 371-3	0.9	42

147	Proresolution effects of hydrogen sulfide during colitis are mediated through hypoxia-inducible factor-1 <i>FASEB Journal</i> , 2015 , 29, 1591-602	0.9	39
146	Modification of Akt1 by methylglyoxal promotes the proliferation of vascular smooth muscle cells. <i>FASEB Journal</i> , 2011 , 25, 1746-57	0.9	38
145	Activation of calcineurin expression in ischemia-reperfused rat heart and in human ischemic myocardium. <i>Journal of Cellular Biochemistry</i> , 2003 , 90, 987-97	4.7	38
144	Cystathionine γ -lyase regulates arteriogenesis through NO-dependent monocyte recruitment. <i>Cardiovascular Research</i> , 2015 , 107, 590-600	9.9	37
143	H ₂ S relaxes isolated human airway smooth muscle cells via the sarcolemmal K(ATP) channel. <i>Biochemical and Biophysical Research Communications</i> , 2014 , 446, 393-8	3.4	37
142	Bach1 Induces Endothelial Cell Apoptosis and Cell-Cycle Arrest through ROS Generation. <i>Oxidative Medicine and Cellular Longevity</i> , 2016 , 2016, 6234043	6.7	37
141	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	5	37
140	Molecular basis of ATP-sensitive K ⁺ channels in rat vascular smooth muscles. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 296, 463-9	3.4	36
139	Novel cardiac protective effects of urea: from shark to rat. <i>British Journal of Pharmacology</i> , 1999 , 128, 1477-84	8.6	36
138	Role of dopamine D2 receptors in ischemia/reperfusion induced apoptosis of cultured neonatal rat cardiomyocytes. <i>Journal of Biomedical Science</i> , 2011 , 18, 18	13.3	35
137	Microvascular Endothelial Dysfunction in Obesity Is Driven by Macrophage-Dependent Hydrogen Sulfide Depletion. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017 , 37, 889-899	9.4	34
136	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	9.8	34
135	Increased expression of calcium-sensing receptors in atherosclerosis confers hypersensitivity to acute myocardial infarction in rats. <i>Molecular and Cellular Biochemistry</i> , 2012 , 366, 345-54	4.2	33
134	The interaction of estrogen and CSE/HS pathway in the development of atherosclerosis. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017 , 312, H406-H414	5.2	32
133	Role of cGMP in hydrogen sulfide signaling. <i>Nitric Oxide - Biology and Chemistry</i> , 2015 , 46, 7-13	5	32
132	Decrease in calcium-sensing receptor in the progress of diabetic cardiomyopathy. <i>Diabetes Research and Clinical Practice</i> , 2012 , 95, 378-85	7.4	32
131	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, 185-93	3.1	31
130	Rat pancreatic level of cystathionine γ -lyase is regulated by glucose level via specificity protein 1 (SP1) phosphorylation. <i>Diabetologia</i> , 2011 , 54, 2615-25	10.3	31

129	Selective expression of Kir6.1 protein in different vascular and non-vascular tissues. <i>Biochemical Pharmacology</i> , 2004 , 67, 147-56	6	31
128	Altered profile of gene expression in rat hearts induced by chronic nicotine consumption. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 297, 729-36	3.4	31
127	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	5	31
126	HS protects lipopolysaccharide-induced inflammation by blocking NF κ B transactivation in endothelial cells. <i>Toxicology and Applied Pharmacology</i> , 2018 , 338, 20-29	4.6	31
125	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	9.8	30
124	Exogenous hydrogen sulfide attenuates diabetic myocardial injury through cardiac mitochondrial protection. <i>Molecular and Cellular Biochemistry</i> , 2012 , 371, 187-98	4.2	30
123	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	13.3	30
122	Calcium-sensing receptors induce apoptosis in cultured neonatal rat ventricular cardiomyocytes during simulated ischemia/reperfusion. <i>Cell Biology International</i> , 2008 , 32, 792-800	4.5	30
121	Altered expression of BK channel beta1 subunit in vascular tissues from spontaneously hypertensive rats. <i>American Journal of Hypertension</i> , 2006 , 19, 678-85	2.3	30
120	Complex expression and localization of inactivating Kv channels in cultured hippocampal astrocytes. <i>Journal of Neurophysiology</i> , 2005 , 93, 1699-709	3.2	30
119	Role of calcium channels in the protective effect of hydrogen sulfide in rat cardiomyoblasts. <i>Cellular Physiology and Biochemistry</i> , 2014 , 33, 1205-14	3.9	29
118	Interaction of hydrogen sulfide and estrogen on the proliferation of vascular smooth muscle cells. <i>PLoS ONE</i> , 2012 , 7, e41614	3.7	29
117	Inhibition of vascular smooth muscle cell proliferation by chronic hemin treatment. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008 , 295, H999-H1007	5.2	29
116	Is H ₂ S a stinky remedy for atherosclerosis?. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009 , 29, 156-7	9.4	28
115	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	4.9	27
114	Effects of nicotine on K ⁺ channel currents in vascular smooth muscle cells from rat tail arteries. <i>European Journal of Pharmacology</i> , 1999 , 364, 247-54	5.3	27
113	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	6	26
112	Increased expression of calcium-sensing receptors induced by ox-LDL amplifies apoptosis of cardiomyocytes during simulated ischaemia-reperfusion. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2010 , 37, e128-35	3	26

111	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	11.5	25
110	Nerve sprouting suppresses myocardial I(to) and I(K1) channels and increases severity to ventricular fibrillation in rat. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2008 , 144, 22-9	2.4	25
109	Streptozotocin-induced diabetes impairs G-protein linked signal transduction in vascular smooth muscle. <i>Molecular and Cellular Biochemistry</i> , 2002 , 240, 57-65	4.2	25
108	Cardiovascular effects of Buthus martensii (Karsch) scorpion venom. <i>Toxicon</i> , 1994 , 32, 191-200	2.8	25
107	Deficiency of cystathionine gamma-lyase and hepatic cholesterol accumulation during mouse fatty liver development. <i>Science Bulletin</i> , 2015 , 60, 336-347	10.6	24
106	Hydrogen Sulfide As a Potential Target in Preventing Spermatogenic Failure and Testicular Dysfunction. <i>Antioxidants and Redox Signaling</i> , 2018 , 28, 1447-1462	8.4	24
105	The novel H S donor 4-carboxy-phenyl isothiocyanate inhibits mast cell degranulation and renin release by decreasing intracellular calcium. <i>British Journal of Pharmacology</i> , 2016 , 173, 3222-3234	8.6	24
104	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	4.2	24
103	Alterations in heme oxygenase/carbon monoxide system in pulmonary arteries in hypertension. <i>Experimental Biology and Medicine</i> , 2003 , 228, 557-63	3.7	24
102	Interaction of selective amino acid residues of K(ca) channels with carbon monoxide. <i>Experimental Biology and Medicine</i> , 2003 , 228, 474-80	3.7	24
101	Altered vascular reactivity and KATP channel currents in vascular smooth muscle cells from deoxycorticosterone acetate (DOCA)-salt hypertensive rats. <i>Journal of Cardiovascular Pharmacology</i> , 2004 , 44, 525-31	3.1	24
100	Involvement of calcium-sensing receptor in oxLDL-induced MMP-2 production in vascular smooth muscle cells via PI3K/Akt pathway. <i>Molecular and Cellular Biochemistry</i> , 2012 , 362, 115-22	4.2	23
99	Modulation of cardiac and aortic peroxisome proliferator-activated receptor-gamma expression by oxidative stress in chronically glucose-fed rats. <i>American Journal of Hypertension</i> , 2006 , 19, 407-12	2.3	23
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