Hideo Kimura

List of Publications by Year in descending order

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		29994	74018
84	14,889	54	75
papers	citations	h-index	g-index
89	89	89	8191
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	The Possible Role of Hydrogen Sulfide as an Endogenous Smooth Muscle Relaxant in Synergy with Nitric Oxide. Biochemical and Biophysical Research Communications, 1997, 237, 527-531.	1.0	1,104
2	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
3	3-Mercaptopyruvate Sulfurtransferase Produces Hydrogen Sulfide and Bound Sulfane Sulfur in the Brain. Antioxidants and Redox Signaling, 2009, 11, 703-714.	2.5	800
4	Hydrogen sulfide protects neurons from oxidative stress. FASEB Journal, 2004, 18, 1165-1167.	0.2	766
5	Brain hydrogen sulfide is severely decreased in Alzheimer's disease. Biochemical and Biophysical Research Communications, 2002, 293, 1485-1488.	1.0	739
6	Development of a Highly Selective Fluorescence Probe for Hydrogen Sulfide. Journal of the American Chemical Society, 2011, 133, 18003-18005.	6.6	614
7	Hydrogen Sulfide Increases Glutathione Production and Suppresses Oxidative Stress in Mitochondria. Antioxidants and Redox Signaling, 2010, 12, 1-13.	2.5	579
8	Hydrogen sulfide: its production, release and functions. Amino Acids, 2011, 41, 113-121.	1.2	547
9	A novel pathway for the production of hydrogen sulfide from D-cysteine in mammalian cells. Nature Communications, 2013, 4, 1366.	5.8	449
10	A Source of Hydrogen Sulfide and a Mechanism of Its Release in the Brain. Antioxidants and Redox Signaling, 2009, 11, 205-214.	2.5	444
11	Vascular Endothelium Expresses 3-Mercaptopyruvate Sulfurtransferase and Produces Hydrogen Sulfide. Journal of Biochemistry, 2009, 146, 623-626.	0.9	410
12	Hydrogen Sulfide as a Neuromodulator. Molecular Neurobiology, 2002, 26, 013-020.	1.9	374
13	Hydrogen Sulfide Induces Cyclic AMP and Modulates the NMDA Receptor. Biochemical and Biophysical Research Communications, 2000, 267, 129-133.	1.0	308
14	Polysulfides are possible H ₂ Sâ€derived signaling molecules in rat brain. FASEB Journal, 2013, 27, 2451-2457.	0.2	299
15	Hydrogen sulfide induces calcium waves in astrocytes. FASEB Journal, 2004, 18, 557-559.	0.2	292
16	Hydrogen Sulfide: From Brain to Gut. Antioxidants and Redox Signaling, 2010, 12, 1111-1123.	2.5	287
17	Hydrogen Sulfide Protects HT22 Neuronal Cells from Oxidative Stress. Antioxidants and Redox Signaling, 2006, 8, 661-670.	2.5	275
18	Signaling Molecules: Hydrogen Sulfide and Polysulfide. Antioxidants and Redox Signaling, 2015, 22, 362-376.	2.5	272

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19	Production and Physiological Effects of Hydrogen Sulfide. Antioxidants and Redox Signaling, 2014, 20, 783-793.	2.5	270
20	L-Cysteine Inhibits Insulin Release From the Pancreatic Â-Cell: Possible Involvement of Metabolic Production of Hydrogen Sulfide, a Novel Gasotransmitter. Diabetes, 2006, 55, 1391-1397.	0.3	269
21	Murine cystathionine \hat{I}^3 -lyase: complete cDNA and genomic sequences, promoter activity, tissue distribution and developmental expression. Biochemical Journal, 2004, 381, 113-123.	1.7	257
22	Hydrogen Sulfide Is a Signaling Molecule and a Cytoprotectant. Antioxidants and Redox Signaling, 2012, 17, 45-57.	2.5	254
23	Thioredoxin and dihydrolipoic acid are required for 3-mercaptopyruvate sulfurtransferase to produce hydrogen sulfide. Biochemical Journal, 2011, 439, 479-485.	1.7	252
24	The physiological role of hydrogen sulfide and beyond. Nitric Oxide - Biology and Chemistry, 2014, 41, 4-10.	1.2	241
25	Physiological role of hydrogen sulfide and polysulfide in the central nervous system. Neurochemistry International, 2013, 63, 492-497.	1.9	235
26	Cystathionine βâ€synthase, a key enzyme for homocysteine metabolism, is preferentially expressed in the radial glia/astrocyte lineage of developing mouse CNS. FASEB Journal, 2005, 19, 1854-1856.	0.2	209
27	Physiological Roles of Hydrogen Sulfide: Synaptic Modulation, Neuroprotection, and Smooth Muscle Relaxation. Antioxidants and Redox Signaling, 2005, 7, 795-803.	2.5	198
28	Identification of H2S3 and H2S produced by 3-mercaptopyruvate sulfurtransferase in the brain. Scientific Reports, 2015, 5, 14774.	1.6	181
29	Polysulfide exerts a protective effect against cytotoxicity caused by <i>t</i> à€buthylhydroperoxide through Nrf2 signaling in neuroblastoma cells. FEBS Letters, 2013, 587, 3548-3555.	1.3	171
30	Hydrogen Sulfide Is Produced in Response to Neuronal Excitation. Journal of Neuroscience, 2002, 22, 3386-3391.	1.7	160
31	Hydrogen sulfide: its production and functions. Experimental Physiology, 2011, 96, 833-835.	0.9	145
32	Hydrogen Sulfide and Polysulfides as Biological Mediators. Molecules, 2014, 19, 16146-16157.	1.7	131
33	Abnormal Lipid Metabolism in Cystathionine β-Synthase-deficient Mice, an Animal Model for Hyperhomocysteinemia. Journal of Biological Chemistry, 2004, 279, 52961-52969.	1.6	130
34	Hydrogen Sulfide Protects the Retina from Light-induced Degeneration by the Modulation of Ca2+ Influx. Journal of Biological Chemistry, 2011, 286, 39379-39386.	1.6	130
35	Cystathionine β-synthase is enriched in the brains of Down's patients. Biochemical and Biophysical Research Communications, 2005, 338, 1547-1550.	1.0	116
36	3-Mercaptopyruvate sulfurtransferase produces potential redox regulators cysteine- and glutathione-persulfide (Cys-SSH and GSSH) together with signaling molecules H2S2, H2S3 and H2S. Scientific Reports, 2017, 7, 10459.	1.6	116

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37	Hydrogen sulfide and polysulfides as signaling molecules. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 2015, 91, 131-159.	1.6	104
38	Polysulfides (H2Sn) produced from the interaction of hydrogen sulfide (H2S) and nitric oxide (NO) activate TRPA1 channels. Scientific Reports, 2017, 7, 45995.	1.6	103
39	Nutritional essentiality of sulfur in health and disease. Nutrition Reviews, 2013, 71, 413-432.	2.6	87
40	Glucoseâ€induced production of hydrogen sulfide may protect the pancreatic betaâ€cells from apoptotic cell death by high glucose. FEBS Letters, 2009, 583, 377-382.	1.3	83
41	Physiological Roles of Hydrogen Sulfide and Polysulfides. Handbook of Experimental Pharmacology, 2015, 230, 61-81.	0.9	76
42	Production of Hydrogen Sulfide from D-Cysteine and Its Therapeutic Potential. Frontiers in Endocrinology, 2013, 4, 87.	1.5	75
43	Hydrogen Sulfide (H2S) and Polysulfide (H2Sn) Signaling: The First 25 Years. Biomolecules, 2021, 11, 896.	1.8	75
44	A Novel Enhancing Mechanism for Hydrogen Sulfide-producing Activity of Cystathionine \hat{l}^2 -Synthase. Journal of Biological Chemistry, 2002, 277, 42680-42685.	1.6	73
45	Discovery and Mechanistic Characterization of Selective Inhibitors of H2S-producing Enzyme: 3-Mercaptopyruvate Sulfurtransferase (3MST) Targeting Active-site Cysteine Persulfide. Scientific Reports, 2017, 7, 40227.	1.6	73
46	Signalling by hydrogen sulfide and polysulfides via protein <i>S</i> â€sulfuration. British Journal of Pharmacology, 2020, 177, 720-733.	2.7	73
47	Development of a reversible fluorescent probe for reactive sulfur species, sulfane sulfur, and its biological application. Chemical Communications, 2017, 53, 1064-1067.	2.2	70
48	Signaling by hydrogen sulfide (H2S) and polysulfides (H2Sn) in the central nervous system. Neurochemistry International, 2019, 126, 118-125.	1.9	68
49	Amyloid β Toxicity Consists of a Ca ²⁺ â€Independent Early Phase and a Ca ²⁺ â€Dependent Late Phase. Journal of Neurochemistry, 1996, 67, 2074-2078.	2.1	67
50	Analysis of endogenous H2S and H2Sn in mouse brain by high-performance liquid chromatography with fluorescence and tandem mass spectrometric detection. Free Radical Biology and Medicine, 2017, 113, 355-362.	1.3	67
51	Hydrogen Sulfide and Polysulfide Signaling. Antioxidants and Redox Signaling, 2017, 27, 619-621.	2.5	64
52	Hydrogen sulfide is produced by cystathionine \hat{l}^3 -lyase at the steady-state low intracellular Ca2+ concentrations. Biochemical and Biophysical Research Communications, 2013, 431, 131-135.	1.0	63
53	Hydrogen polysulfide (H2S n) signaling along with hydrogen sulfide (H2S) and nitric oxide (NO). Journal of Neural Transmission, 2016, 123, 1235-1245.	1.4	62
54	Polysulfide Evokes Acute Pain through the Activation of Nociceptive TRPA1 in Mouse Sensory Neurons. Molecular Pain, 2015, 11, s12990-015-0023.	1.0	61

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55	Signaling of Hydrogen Sulfide and Polysulfides. Antioxidants and Redox Signaling, 2015, 22, 347-349.	2.5	53
56	Alternative pathway of H2S and polysulfides production from sulfurated catalytic-cysteine of reaction intermediates of 3-mercaptopyruvate sulfurtransferase. Biochemical and Biophysical Research Communications, 2018, 496, 648-653.	1.0	52
57	Excess hydrogen sulfide and polysulfides production underlies a schizophrenia pathophysiology. EMBO Molecular Medicine, 2019, 11, e10695.	3.3	47
58	Metabolic Turnover of Hydrogen Sulfide. Frontiers in Physiology, 2012, 3, 101.	1.3	43
59	Sulfite protects neurons from oxidative stress. British Journal of Pharmacology, 2019, 176, 571-582.	2.7	43
60	Cadmium Exposure Alters Metabolomics of Sulfur-Containing Amino Acids in Rat Testes. Antioxidants and Redox Signaling, 2005, 7, 781-787.	2.5	40
61	Hydrogen Sulfide Enhances Reducing Activity in Neurons: Neurotrophic Role of H ₂ S in the Brain?. Antioxidants and Redox Signaling, 2007, 9, 2035-2042.	2.5	39
62	Determination of oxidized and reduced nicotinamide adenine dinucleotide in cell monolayers using a single extraction procedure and a spectrophotometric assay. Analytical Biochemistry, 2005, 338, 131-135.	1.1	29
63	Differentiated Astrocytes Acquire Sensitivity to Hydrogen Sulfide That Is Diminished by the Transformation into Reactive Astrocytes. Antioxidants and Redox Signaling, 2007, 9, 257-269.	2.5	26
64	Hydrogen sulfide signalling in the CNS ―Comparison with NO. British Journal of Pharmacology, 2020, 177, 5031-5045.	2.7	23
65	Protein phosphorylation involved in the gene expression of the hydrogen sulphide producing enzyme cystathionine \hat{I}^3 -lyase in the pancreatic \hat{I}^2 -cell. Molecular and Cellular Endocrinology, 2012, 350, 31-38.	1.6	21
66	Polysulfide promotes neuroblastoma cell differentiation by accelerating calcium influx. Biochemical and Biophysical Research Communications, 2015, 459, 488-492.	1.0	20
67	Hydrogen Sulfide as a Biological Mediator. Antioxidants and Redox Signaling, 2005, 7, 778-780.	2.5	16
68	A mechanism of retinal protection from light-induced degeneration by hydrogen sulfide. Communicative and Integrative Biology, 2012, 5, 169-171.	0.6	11
69	Development and Aging Expression of Cystathionine-Beta Synthase in the Temporal Lobe and Cerebellum of Down Syndrome Patients. Neuroembryology and Aging, 2006, 4, 202-207.	0.1	10
70	Pharmacological polysulfide suppresses glucose-stimulated insulin secretion in an ATP-sensitive potassium channel-dependent manner. Scientific Reports, 2019, 9, 19377.	1.6	9
71	Polysulfide inhibits hypoxia-elicited hypoxia-inducible factor activation in a mitochondria-dependent manner. Mitochondrion, 2021, 59, 255-266.	1.6	8
72	Hydrogen Sulfide and the Regulation of Neuronal Activities. , 2004, , 315-321.		2

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73	Physiological and Pathophysiological Functions of Hydrogen Sulfide. , 2012, , 71-98.		1
74	From neurotransmission to neuronal disorders. British Journal of Pharmacology, 2021, 178, 747-749.	2.7	1
75	Hydrogen Sulfide-Mediated Cellular Signaling and Cytoprotection. , 2013, , 181-202.		1
76	Differentiated Astrocytes Acquire Sensitivity to Hydrogen Sulfide That Is Diminished by the Transformation into Reactive Astrocytes. Antioxidants and Redox Signaling, 2006, .	2.5	0
77	Abstract 843: Cardiomyocyte Overexpression of the Hydrogen Sulfide Producing Enzyme Cystathioine gamma-Lyase Attenuates Myocardial Ischemia-Reperfusion Injury. Circulation, 2007, 116, .	1.6	O
78	Hydrogen Sulfide (H ₂ S) and polysulfides (H ₂ S _n) as signaling molecules. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, PO4-1-80.	0.0	0
79	Hydrogen trisulfide induced modulation of vascular tone in mice aorta. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, PO4-2-30.	0.0	O
80	The production and role of hydrogen sulfide and hydrogen polysulfides in mammalian cells. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, PO4-1-23.	0.0	0
81	Signaling by hydrogen polysulfides (H ₂ S _n) produced by the chemical interaction between hydrogen sulfide (H ₂ S) and nitric oxide (NO). Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2019, 92, 3-S21-2.	0.0	O
82	SulfiteÂprotects neurons from oxidative stress Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2019, 92, 1-O-20.	0.0	0
83	Signaling molecules hydrogen sulfide (H ₂ S), polysulfides (H ₂ S _n) and sulfite (H ₂ SO ₃). Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2019, 92, 2-S17-1.	0.0	0
84	Hydrogen Sulfide as a Synaptic Modulator. , 2005, , 315-321.		0