Hideo Kimura

List of Publications by Year
in descending order

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84 papers	14,889 citations	30070 54 h-index	74163 75 g-index
89 all docs	89 docs citations	89 times ranked	8191 citing authors

#	Article	IF	Citations
1	From neurotransmission to neuronal disorders. British Journal of Pharmacology, 2021, 178, 747-749.	5.4	1
2	Hydrogen Sulfide (H2S) and Polysulfide (H2Sn) Signaling: The First 25 Years. Biomolecules, 2021, 11, 896.	4.0	75
3	Polysulfide inhibits hypoxia-elicited hypoxia-inducible factor activation in a mitochondria-dependent manner. Mitochondrion, 2021, 59, 255-266.	3.4	8
4	Signalling by hydrogen sulfide and polysulfides via protein Sâ€sulfuration. British Journal of Pharmacology, 2020, 177, 720-733.	5.4	73
5	Hydrogen sulfide signalling in the CNS â€•Comparison with NO. British Journal of Pharmacology, 2020, 177, 5031-5045.	5.4	23
6	Sulfite protects neurons from oxidative stress. British Journal of Pharmacology, 2019, 176, 571-582.	5.4	43
7	Excess hydrogen sulfide and polysulfides production underlies a schizophrenia pathophysiology. EMBO Molecular Medicine, 2019, 11, e10695.	6.9	47
8	Signaling by hydrogen sulfide (H2S) and polysulfides (H2Sn) in the central nervous system. Neurochemistry International, 2019, 126, 118-125.	3.8	68
9	Pharmacological polysulfide suppresses glucose-stimulated insulin secretion in an ATP-sensitive potassium channel-dependent manner. Scientific Reports, 2019, 9, 19377.	3.3	9
10	Signaling by hydrogen polysulfides (H₂S_n) produced by the chemical interaction between hydrogen sulfide (H₂S) and nitric oxide (NO). Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2019, 92, 3-S21-2.	0.0	0
11	SulfiteÂprotects neurons from oxidative stress.. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2019, 92, 1-O-20.	0.0	0
12	Signaling molecules hydrogen sulfide (H₂S), polysulfides (H₂S_n) and sulfite (H₂SO₃). Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2019, 92, 2-S17-1.	0.0	0
13	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.	2.1	52
14	Hydrogen Sulfide (H₂S) and polysulfides (H₂S_n) as signaling molecules. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, PO4-1-80.	0.0	0
15	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	0
16	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
17	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.	3.3	73
18	Polysulfides (H2Sn) produced from the interaction of hydrogen sulfide (H2S) and nitric oxide (NO) activate TRPA1 channels. Scientific Reports, 2017, 7, 45995.	3.3	103

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19	Hydrogen Sulfide and Polysulfide Signaling. Antioxidants and Redox Signaling, 2017, 27, 619-621.	5.4	64
20	Development of a reversible fluorescent probe for reactive sulfur species, sulfane sulfur, and its biological application. Chemical Communications, 2017, 53, 1064-1067.	4.1	70
21	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.	2.9	67
22	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.	3.3	116
23	Hydrogen polysulfide (H2S n) signaling along with hydrogen sulfide (H2S) and nitric oxide (NO). Journal of Neural Transmission, 2016, 123, 1235-1245.	2.8	62
24	Hydrogen sulfide and polysulfides as signaling molecules. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 2015, 91, 131-159.	3.8	104
25	Identification of H2S3 and H2S produced by 3-mercaptopyruvate sulfurtransferase in the brain. Scientific Reports, 2015, 5, 14774.	3.3	181
26	Polysulfide Evokes Acute Pain through the Activation of Nociceptive TRPA1 in Mouse Sensory Neurons. Molecular Pain, 2015, 11, s12990-015-0023.	2.1	61
27	Physiological Roles of Hydrogen Sulfide and Polysulfides. Handbook of Experimental Pharmacology, 2015, 230, 61-81.	1.8	76
28	Polysulfide promotes neuroblastoma cell differentiation by accelerating calcium influx. Biochemical and Biophysical Research Communications, 2015, 459, 488-492.	2.1	20
29	Signaling of Hydrogen Sulfide and Polysulfides. Antioxidants and Redox Signaling, 2015, 22, 347-349.	5.4	53
30	Signaling Molecules: Hydrogen Sulfide and Polysulfide. Antioxidants and Redox Signaling, 2015, 22, 362-376.	5.4	272
31	The physiological role of hydrogen sulfide and beyond. Nitric Oxide - Biology and Chemistry, 2014, 41, 4-10.	2.7	241
32	Production and Physiological Effects of Hydrogen Sulfide. Antioxidants and Redox Signaling, 2014, 20, 783-793.	5.4	270
33	Hydrogen Sulfide and Polysulfides as Biological Mediators. Molecules, 2014, 19, 16146-16157.	3.8	131
34	Hydrogen sulfide is produced by cystathionine Î³-lyase at the steady-state low intracellular Ca2+ concentrations. Biochemical and Biophysical Research Communications, 2013, 431, 131-135.	2.1	63
35	Physiological role of hydrogen sulfide and polysulfide in the central nervous system. Neurochemistry International, 2013, 63, 492-497.	3.8	235
36	Polysulfide exerts a protective effect against cytotoxicity caused by tâ€buthylhydroperoxide through Nrf2 signaling in neuroblastoma cells. FEBS Letters, 2013, 587, 3548-3555.	2.8	171

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37	A novel pathway for the production of hydrogen sulfide from D-cysteine in mammalian cells. Nature Communications, 2013, 4, 1366.	12.8	449
38	Polysulfides are possible H ₂ Sâ€derived signaling molecules in rat brain. FASEB Journal, 2013, 27, 2451-2457.	0.5	299
39	Nutritional essentiality of sulfur in health and disease. Nutrition Reviews, 2013, 71, 413-432.	5.8	87
40	Production of Hydrogen Sulfide from D-Cysteine and Its Therapeutic Potential. Frontiers in Endocrinology, 2013, 4, 87.	3.5	75
41	Hydrogen Sulfide-Mediated Cellular Signaling and Cytoprotection. , 2013, , 181-202.		1
42	A mechanism of retinal protection from light-induced degeneration by hydrogen sulfide. Communicative and Integrative Biology, 2012, 5, 169-171.	1.4	11
43	Physiological and Pathophysiological Functions of Hydrogen Sulfide. , 2012, , 71-98.		1
44	Metabolic Turnover of Hydrogen Sulfide. Frontiers in Physiology, 2012, 3, 101.	2.8	43
45	Hydrogen Sulfide Is a Signaling Molecule and a Cytoprotectant. Antioxidants and Redox Signaling, 2012, 17, 45-57.	5.4	254
46	Protein phosphorylation involved in the gene expression of the hydrogen sulphide producing enzyme cystathionine Î³-lyase in the pancreatic Î²-cell. Molecular and Cellular Endocrinology, 2012, 350, 31-38.	3.2	21
47	Thioredoxin and dihydrolipoic acid are required for 3-mercaptopyruvate sulfurtransferase to produce hydrogen sulfide. Biochemical Journal, 2011, 439, 479-485.	3.7	252
48	Hydrogen sulfide: its production and functions. Experimental Physiology, 2011, 96, 833-835.	2.0	145
49	Development of a Highly Selective Fluorescence Probe for Hydrogen Sulfide. Journal of the American Chemical Society, 2011, 133, 18003-18005.	13.7	614
50	Hydrogen sulfide: its production, release and functions. Amino Acids, 2011, 41, 113-121.	2.7	547
51	Hydrogen Sulfide Protects the Retina from Light-induced Degeneration by the Modulation of Ca2+ Influx. Journal of Biological Chemistry, 2011, 286, 39379-39386.	3.4	130
52	Hydrogen Sulfide Increases Glutathione Production and Suppresses Oxidative Stress in Mitochondria. Antioxidants and Redox Signaling, 2010, 12, 1-13.	5.4	579
53	Hydrogen Sulfide: From Brain to Gut. Antioxidants and Redox Signaling, 2010, 12, 1111-1123.	5.4	287
54	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.	2.8	83

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55	A Source of Hydrogen Sulfide and a Mechanism of Its Release in the Brain. Antioxidants and Redox Signaling, 2009, 11, 205-214.	5.4	444
56	3-Mercaptopyruvate Sulfurtransferase Produces Hydrogen Sulfide and Bound Sulfane Sulfur in the Brain. Antioxidants and Redox Signaling, 2009, 11, 703-714.	5.4	800
57	Vascular Endothelium Expresses 3-Mercaptopyruvate Sulfurtransferase and Produces Hydrogen Sulfide. Journal of Biochemistry, 2009, 146, 623-626.	1.7	410
58	Differentiated Astrocytes Acquire Sensitivity to Hydrogen Sulfide That Is Diminished by the Transformation into Reactive Astrocytes. Antioxidants and Redox Signaling, 2007, 9, 257-269.	5.4	26
59	Hydrogen Sulfide Enhances Reducing Activity in Neurons: Neurotrophic Role of H₂S in the Brain?. Antioxidants and Redox Signaling, 2007, 9, 2035-2042.	5.4	39
60	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.	7.1	996
61	Abstract 843: Cardiomyocyte Overexpression of the Hydrogen Sulfide Producing Enzyme Cystathioine gamma-Lyase Attenuates Myocardial Ischemia-Reperfusion Injury. Circulation, 2007, 116, .	1.6	0
62	Hydrogen Sulfide Protects HT22 Neuronal Cells from Oxidative Stress. Antioxidants and Redox Signaling, 2006, 8, 661-670.	5.4	275
63	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
64	<scp>l</scp>-Cysteine Inhibits Insulin Release From the Pancreatic Î²-Cell. Diabetes, 2006, 55, 1391-1397.	0.6	269
65	Differentiated Astrocytes Acquire Sensitivity to Hydrogen Sulfide That Is Diminished by the Transformation into Reactive Astrocytes. Antioxidants and Redox Signaling, 2006, .	5.4	0
66	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.	2.4	29
67	Cystathionine Î²â€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.	0.5	209
68	Cadmium Exposure Alters Metabolomics of Sulfur-Containing Amino Acids in Rat Testes. Antioxidants and Redox Signaling, 2005, 7, 781-787.	5.4	40
69	Hydrogen Sulfide as a Biological Mediator. Antioxidants and Redox Signaling, 2005, 7, 778-780.	5.4	16
70	Cystathionine Î²-synthase is enriched in the brains of Downâ€™s patients. Biochemical and Biophysical Research Communications, 2005, 338, 1547-1550.	2.1	116
71	Physiological Roles of Hydrogen Sulfide: Synaptic Modulation, Neuroprotection, and Smooth Muscle Relaxation. Antioxidants and Redox Signaling, 2005, 7, 795-803.	5.4	198
72	Hydrogen Sulfide as a Synaptic Modulator. , 2005, , 315-321.		0

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73	Abnormal Lipid Metabolism in Cystathionine Î²-Synthase-deficient Mice, an Animal Model for Hyperhomocysteinemia. Journal of Biological Chemistry, 2004, 279, 52961-52969.	3.4	130
74	Hydrogen sulfide induces calcium waves in astrocytes. FASEB Journal, 2004, 18, 557-559.	0.5	292
75	Murine cystathionine Î³-lyase: complete cDNA and genomic sequences, promoter activity, tissue distribution and developmental expression. Biochemical Journal, 2004, 381, 113-123.	3.7	257
76	Hydrogen sulfide protects neurons from oxidative stress. FASEB Journal, 2004, 18, 1165-1167.	0.5	766
77	Hydrogen Sulfide and the Regulation of Neuronal Activities. , 2004, , 315-321.		2
78	A Novel Enhancing Mechanism for Hydrogen Sulfide-producing Activity of Cystathionine Î²-Synthase. Journal of Biological Chemistry, 2002, 277, 42680-42685.	3.4	73
79	Brain hydrogen sulfide is severely decreased in Alzheimer's disease. Biochemical and Biophysical Research Communications, 2002, 293, 1485-1488.	2.1	739
80	Hydrogen Sulfide Is Produced in Response to Neuronal Excitation. Journal of Neuroscience, 2002, 22, 3386-3391.	3.6	160
81	Hydrogen Sulfide as a Neuromodulator. Molecular Neurobiology, 2002, 26, 013-020.	4.0	374
82	Hydrogen Sulfide Induces Cyclic AMP and Modulates the NMDA Receptor. Biochemical and Biophysical Research Communications, 2000, 267, 129-133.	2.1	308
83	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.	2.1	1,104
84	Amyloid Î² Toxicity Consists of a Ca²⁺â€Independent Early Phase and a Ca²⁺â€Dependent Late Phase. Journal of Neurochemistry, 1996, 67, 2074-2078.	3.9	67