

Shigeo Ohta

List of Publications by Year in descending order

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53
papers

5,916
citations

186265

28
h-index

214800

47
g-index

59
all docs

59
docs citations

59
times ranked

4266
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen acts as a therapeutic antioxidant by selectively reducing cytotoxic oxygen radicals. <i>Nature Medicine</i> , 2007, 13, 688-694.	30.7	1,847
2	Inhalation of hydrogen gas reduces infarct size in the rat model of myocardial ischemiaâ€“reperfusion injury. <i>Biochemical and Biophysical Research Communications</i> , 2008, 373, 30-35.	2.1	426
3	Inhalation of hydrogen gas suppresses hepatic injury caused by ischemia/reperfusion through reducing oxidative stress. <i>Biochemical and Biophysical Research Communications</i> , 2007, 361, 670-674.	2.1	367
4	Molecular hydrogen as a preventive and therapeutic medical gas: initiation, development and potential of hydrogen medicine. , 2014, 144, 1-11.		330
5	Recent Progress Toward Hydrogen Medicine: Potential of Molecular Hydrogen for Preventive and Therapeutic Applications. <i>Current Pharmaceutical Design</i> , 2011, 17, 2241-2252.	1.9	237
6	Consumption of Molecular Hydrogen Prevents the Stress-Induced Impairments in Hippocampus-Dependent Learning Tasks during Chronic Physical Restraint in Mice. <i>Neuropsychopharmacology</i> , 2009, 34, 501-508.	5.4	224
7	Molecular Hydrogen Improves Obesity and Diabetes by Inducing Hepatic FGF21 and Stimulating Energy Metabolism in <i>db/db</i> Mice. <i>Obesity</i> , 2011, 19, 1396-1403.	3.0	172
8	Molecular hydrogen is a novel antioxidant to efficiently reduce oxidative stress with potential for the improvement of mitochondrial diseases. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2012, 1820, 586-594.	2.4	155
9	Protection of the Retina by Rapid Diffusion of Hydrogen: Administration of Hydrogen-Loaded Eye Drops in Retinal Ischemiaâ€“Reperfusion Injury. , 2010, 51, 487.		154
10	Blue light-induced oxidative stress in live skin. <i>Free Radical Biology and Medicine</i> , 2017, 108, 300-310.	2.9	140
11	Molecular Hydrogen as a Novel Antioxidant. <i>Methods in Enzymology</i> , 2015, 555, 289-317.	1.0	136
12	Defect in modification at the anticodon wobble nucleotide of mitochondrial tRNA ^{Lys} with the MERRF encephalomyopathy pathogenic mutation. <i>FEBS Letters</i> , 2000, 467, 175-178.	2.8	117
13	Dysfunction of mitochondria and oxidative stress in the pathogenesis of Alzheimer's disease: On defects in the cytochrome c oxidase complex and aldehyde detoxification. <i>Journal of Alzheimer's Disease</i> , 2006, 9, 155-166.	2.6	114
14	Hydrogen Gas Inhalation Treatment in Acute Cerebral Infarction: A Randomized Controlled Clinical Study on Safety and Neuroprotection. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2017, 26, 2587-2594.	1.6	105
15	Hydrogen Inhalation During Normoxic Resuscitation Improves Neurological Outcome in a Rat Model of Cardiac Arrest Independently of Targeted Temperature Management. <i>Circulation</i> , 2014, 130, 2173-2180.	1.6	104
16	Inhibition of Endothelial p53 Improves Metabolic Abnormalities Related to Dietary Obesity. <i>Cell Reports</i> , 2014, 7, 1691-1703.	6.4	95
17	Molecular hydrogen regulates gene expression by modifying the free radical chain reaction-dependent generation of oxidized phospholipid mediators. <i>Scientific Reports</i> , 2016, 6, 18971.	3.3	94
18	H ₂ Gas Improves Functional Outcome After Cardiac Arrest to an Extent Comparable to Therapeutic Hypothermia in a Rat Model. <i>Journal of the American Heart Association</i> , 2012, 1, e003459.	3.7	88

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19	Mitochondrial ALDH2 Deficiency as an Oxidative Stress. <i>Annals of the New York Academy of Sciences</i> , 2004, 1011, 36-44.	3.8	84
20	Taurine supplementation for prevention of stroke-like episodes in MELAS: a multicentre, open-label, 52-week phase III trial. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2019, 90, 529-536.	1.9	79
21	Effects of Molecular Hydrogen Assessed by an Animal Model and a Randomized Clinical Study on Mild Cognitive Impairment. <i>Current Alzheimer Research</i> , 2018, 15, 482-492.	1.4	75
22	Feasibility and Safety of Hydrogen Gas Inhalation for Post-Cardiac Arrest Syndrome—“First-in-Human Pilot Study”. <i>Circulation Journal</i> , 2016, 80, 1870-1873.	1.6	64
23	Mitochondrial ALDH2 Deficiency as an Oxidative Stress. , 2004, 1011, 36-44.		59
24	Molecular hydrogen stimulates the gene expression of transcriptional coactivator PGC-1 α to enhance fatty acid metabolism. <i>Npj Aging and Mechanisms of Disease</i> , 2016, 2, 16008.	4.5	49
25	Genetic deficiency of a mitochondrial aldehyde dehydrogenase increases serum lipid peroxides in community-dwelling females. <i>Journal of Human Genetics</i> , 2003, 48, 404-409.	2.3	48
26	Oxidative stress accelerates amyloid deposition and memory impairment in a double-transgenic mouse model of Alzheimer's disease. <i>Neuroscience Letters</i> , 2015, 587, 126-131.	2.1	48
27	Real-Time Monitoring of Oxidative Stress in Live Mouse Skin. <i>Journal of Investigative Dermatology</i> , 2014, 134, 1701-1709.	0.7	45
28	Molecular hydrogen protects chondrocytes from oxidative stress and indirectly alters gene expressions through reducing peroxynitrite derived from nitric oxide. <i>Medical Gas Research</i> , 2011, 1, 18.	2.3	44
29	A Multi-Functional Organelle Mitochondrion is Involved in Cell Death, Proliferation and Disease. <i>Current Medicinal Chemistry</i> , 2003, 10, 2485-2494.	2.4	42
30	Clinical Effects of Hydrogen Administration: From Animal and Human Diseases to Exercise Medicine. <i>International Journal of Clinical Medicine</i> , 2016, 07, 32-76.	0.2	41
31	Drinking hydrogen water enhances endurance and relieves psychometric fatigue: a randomized, double-blind, placebo-controlled study. <i>Canadian Journal of Physiology and Pharmacology</i> , 2019, 97, 857-862.	1.4	34
32	The histone 3 lysine 9 methyltransferase inhibitor chaetocin improves prognosis in a rat model of high salt diet-induced heart failure. <i>Scientific Reports</i> , 2017, 7, 39752.	3.3	28
33	Accumulation of Somatic Mutation in Mitochondrial DNA and Atherosclerosis in Diabetic Patients. <i>Annals of the New York Academy of Sciences</i> , 2004, 1011, 193-204.	3.8	27
34	ALDH2/ADH2 Polymorphism Associated with Vasculopathy and Neuropathy in Type 2 Diabetes. <i>Alcoholism: Clinical and Experimental Research</i> , 2004, 28, 111S-116S.	2.4	25
35	Protective effect of molecular hydrogen against oxidative stress caused by peroxynitrite derived from nitric oxide in rat retina. <i>Clinical and Experimental Ophthalmology</i> , 2015, 43, 568-577.	2.6	25
36	Combination therapy with transductive anti-death FNK protein and FK506 ameliorates brain damage with focal transient ischemia in rat. <i>Journal of Neurochemistry</i> , 2008, 106, 258-270.	3.9	22

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37	Intravenous transplantation of bone marrow-derived mononuclear cells prevents memory impairment in transgenic mouse models of Alzheimer's disease. <i>Brain Research</i> , 2015, 1605, 49-58.	2.2	22
38	The 2011 Medical Molecular Hydrogen Symposium: An inaugural symposium of the journal <i>Medical Gas Research</i> . <i>Medical Gas Research</i> , 2011, 1, 10.	2.3	20
39	Molecular hydrogen suppresses free-radical-induced cell death by mitigating fatty acid peroxidation and mitochondrial dysfunction. <i>Canadian Journal of Physiology and Pharmacology</i> , 2019, 97, 999-1005.	1.4	20
40	Acute immobilization stress following contextual fear conditioning reduces fear memory: timing is essential. <i>Behavioral and Brain Functions</i> , 2016, 12, 8.	3.3	17
41	Review and prospect of the biomedical effects of hydrogen. <i>Medical Gas Research</i> , 2014, 4, 19.	2.3	16
42	Association of alcohol dehydrogenase 2*1 allele with liver damage and insulin concentration in the Japanese. <i>Journal of Human Genetics</i> , 2006, 51, 31-37.	2.3	15
43	Direct Targets and Subsequent Pathways for Molecular Hydrogen to Exert Multiple Functions: Focusing on Interventions in Radical Reactions. <i>Current Pharmaceutical Design</i> , 2021, 27, 595-609.	1.9	13
44	Bacterial cell death induced by human pro-apoptotic Bax is blocked by an RNase E mutant that functions in an anti-oxidant pathway. <i>Genes To Cells</i> , 2000, 5, 155-167.	1.2	12
45	Intermittent intense exercise protects against cognitive decline in a similar manner to moderate exercise in chronically stressed mice. <i>Behavioural Brain Research</i> , 2018, 345, 59-64.	2.2	10
46	Circumscribed myxoedema of lichen myxoedematosus as a sign of faulty formation of the proteoglycan macromolecule. <i>British Journal of Dermatology</i> , 1981, 105, 239-245.	1.5	9
47	Development of Hydrogen Medicine and Biology: Potential for Various Applications in Diverse Fields. <i>Current Pharmaceutical Design</i> , 2021, 27, 583-584.	1.9	8
48	Decreased Expression of Bcl-x Protein during Hepatocarcinogenesis Induced Exogenously and Endogenously in Rats. <i>Japanese Journal of Cancer Research</i> , 2001, 92, 1270-1277.	1.7	6
49	Cisplatin selects short forms of the mitochondrial DNA OriB variant (16184-16193 poly-cytosine tract), which confer resistance to cisplatin. <i>Scientific Reports</i> , 2017, 7, 46240.	3.3	3
50	Response to Letter Regarding Article, "Hydrogen Inhalation During Normoxic Resuscitation Improves Neurological Outcome in a Rat Model of Cardiac Arrest Independently of Targeted Temperature Management". <i>Circulation</i> , 2015, 132, e148-e148.	1.6	1
51	The Super Anti-Apoptotic Factor Bcl-xFNK: A Novel Mutant of Rat Bcl-Xl with a Gain-of-Function Phenotype. <i>Scientific World Journal</i> , The, 2001, 1, 91-91.	2.1	0
52	Time-lag combination therapy for cerebral ischemia using the FNK protein transduction technology and an immunosuppressant, I: In vivo study. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S57-S57.	4.3	0
53	Neuroprotecting Mechanisms of Ischemic Preconditioning. <i>Nihon Ika Daigaku Igakkai Zasshi</i> , 2006, 2, 178-179.	0.0	0