Xuejun Sun

List of Publications by Year in descending order

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85 papers	3,559 citations	117625 34 h-index	144013 57 g-index
85 all docs	85 docs citations	85 times ranked	2834 citing authors

#	Article	IF	Citations
1	Neuroprotective effects of hydrogen saline in neonatal hypoxiaâ€“ischemia rat model. Brain Research, 2009, 1256, 129-137.	2.2	210
2	Hydrogen therapy reduces apoptosis in neonatal hypoxiaâ€“ischemia rat model. Neuroscience Letters, 2008, 441, 167-172.	2.1	203
3	Hydrogen-rich saline protects against intestinal ischemia/reperfusion injury in rats. Free Radical Research, 2009, 43, 478-484.	3.3	148
4	The protective role of hydrogen-rich saline in experimental liver injury in mice. Journal of Hepatology, 2011, 54, 471-480.	3.7	147
5	Hydrogen-Rich Saline Protects Myocardium Against Ischemia/Reperfusion Injury in Rats. Experimental Biology and Medicine, 2009, 234, 1212-1219.	2.4	143
6	Hydrogen-Rich Saline Attenuated Subarachnoid Hemorrhage-Induced Early Brain Injury in Rats by Suppressing Inflammatory Response: Possible Involvement of NF-Î²B Pathway and NLRP3 Inflammasome. Molecular Neurobiology, 2016, 53, 3462-3476.	4.0	133
7	Hyperbaric oxygen preconditioning induces tolerance against brain ischemiaâ€“reperfusion injury by upregulation of antioxidant enzymes in rats. Brain Research, 2008, 1210, 223-229.	2.2	117
8	Anti-inflammatory effect of hydrogen-rich saline in a rat model of regional myocardial ischemia and reperfusion. International Journal of Cardiology, 2011, 148, 91-95.	1.7	103
9	Lactulose ameliorates cerebral ischemiaâ€“reperfusion injury in ratsby inducing hydrogen by activating Nrf2 expression. Free Radical Biology and Medicine, 2013, 65, 731-741.	2.9	85
10	Molecular Hydrogen Is Involved in Phytohormone Signaling and Stress Responses in Plants. PLoS ONE, 2013, 8, e71038.	2.5	78
11	Neuroprotective Effect of Hydrogen-Rich Saline against Neurologic Damage and Apoptosis in Early Brain Injury following Subarachnoid Hemorrhage: Possible Role of the Akt/GSK3Î² Signaling Pathway. PLoS ONE, 2014, 9, e96212.	2.5	77
12	Hydrogen-Rich Saline Protects Against Spinal Cord Injury in Rats. Neurochemical Research, 2010, 35, 1111-1118.	3.3	74
13	Up-regulated HIF-1Î± is involved in the hypoxic tolerance induced by hyperbaric oxygen preconditioning. Brain Research, 2008, 1212, 71-78.	2.2	72
14	Hyperbaric Oxygen Preconditioning Attenuates Early Apoptosis after Spinal Cord Ischemia in Rats. Journal of Neurotrauma, 2009, 26, 55-66.	3.4	68
15	Hydrogen inhalation ameliorates lipopolysaccharide-induced acute lung injury in mice. International Immunopharmacology, 2011, 11, 2130-2137.	3.8	59
16	Hydrogen-rich saline attenuates radiation-induced male germ cell loss in mice through reducing hydroxyl radicals. Biochemical Journal, 2012, 442, 49-56.	3.7	57
17	Hydrogen-Rich Saline Provides Protection Against Hyperoxic Lung Injury. Journal of Surgical Research, 2011, 165, e43-e49.	1.6	56
18	Helium preconditioning protects mouse liver against ischemia and reperfusion injury through the PI3K/Akt pathway. Journal of Hepatology, 2014, 61, 1048-1055.	3.7	55

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19	Hydrogen-rich saline protects against oxidative damage and cognitive deficits after mild traumatic brain injury. Brain Research Bulletin, 2012, 88, 560-565.	3.0	53
20	Inhalation of water electrolysis-derived hydrogen ameliorates cerebral ischemiaâ€“reperfusion injury in rats â€“ A possible new hydrogen resource for clinical use. Neuroscience, 2016, 335, 232-241.	2.3	53
21	Effect of Hydrogenâ€Rich Water on Oxidative Stress, Liver Function, and Viral Load in Patients with Chronic Hepatitis B. Clinical and Translational Science, 2013, 6, 372-375.	3.1	52
22	Hydrogen gas is ineffective in moderate and severe neonatal hypoxiaâ€“ischemia rat models. Brain Research, 2009, 1259, 90-97.	2.2	51
23	The Effect of Hydrogen-Rich Saline on the Brain of Rats with Transient Ischemia. Journal of Surgical Research, 2011, 168, e95-e101.	1.6	48
24	Neuroprotective Effect of Hydrogen-Rich Saline in Global Cerebral Ischemia/Reperfusion Rats: Up-Regulated Tregs and Down-Regulated miR-21, miR-210 and NF-Î²B Expression. Neurochemical Research, 2016, 41, 2655-2665.	3.3	45
25	Oral intake of hydrogen-rich water inhibits intimal hyperplasia in arterialized vein grafts in rats. Cardiovascular Research, 2012, 94, 144-153.	3.8	44
26	Hydrogen-supplemented drinking water protects cardiac allografts from inflammation-associated deterioration. Transplant International, 2012, 25, 1213-1222.	1.6	43
27	Molecular hydrogen stabilizes atherosclerotic plaque in low-density lipoprotein receptor-knockout mice. Free Radical Biology and Medicine, 2015, 87, 58-68.	2.9	42
28	Hydrogen-rich medium protects human skin fibroblasts from high glucose or mannitol induced oxidative damage. Biochemical and Biophysical Research Communications, 2011, 409, 350-355.	2.1	41
29	Lactulose Mediates Suppression of Dextran Sodium Sulfate-Induced Colon Inflammation by Increasing Hydrogen Production. Digestive Diseases and Sciences, 2013, 58, 1560-1568.	2.3	40
30	Anti-inflammation effects of hydrogen saline in LPS activated macrophages and carrageenan induced paw oedema. Journal of Inflammation, 2012, 9, 2.	3.4	39
31	Hyperbaric oxygen preconditioning promotes angiogenesis in rat liver after partial hepatectomy. Life Sciences, 2008, 83, 236-241.	4.3	37
32	Hydrogen saline offers neuroprotection by reducing oxidative stress in a focal cerebral ischemia-reperfusion rat model. Medical Gas Research, 2011, 1, 15.	2.3	36
33	Protective effects of hydrogen enriched saline on liver ischemia reperfusion injury by reducing oxidative stress and HMGB1 release. BMC Gastroenterology, 2014, 14, 12.	2.0	36
34	Inhalation of high concentrations of hydrogen ameliorates liver ischemia/reperfusion injury through A2A receptor mediated PI3K-Akt pathway. Biochemical Pharmacology, 2017, 130, 83-92.	4.4	36
35	Molecular hydrogen and radiation protection. Free Radical Research, 2012, 46, 1061-1067.	3.3	35
36	Progress in the study of biological effects of hydrogen on higher plants and its promising application in agriculture. Medical Gas Research, 2014, 4, 15.	2.3	35

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37	Intrathecal Infusion of Hydrogen-Rich Normal Saline Attenuates Neuropathic Pain via Inhibition of Activation of Spinal Astrocytes and Microglia in Rats. PLoS ONE, 2014, 9, e97436.	2.5	34
38	Mechanism of hyperbaric oxygen preconditioning in neonatal hypoxiaâ€“ischemia rat model. Brain Research, 2008, 1196, 151-156.	2.2	33
39	Hydrogen decreases athero-susceptibility in apolipoprotein B-containing lipoproteins and aorta of apolipoprotein E knockout mice. Atherosclerosis, 2012, 221, 55-65.	0.8	32
40	Beneficial effect of hydrogenâ€rich saline on cerebral vasospasm after experimental subarachnoid hemorrhage in rats. Journal of Neuroscience Research, 2012, 90, 1670-1680.	2.9	31
41	Hyperbaric Oxygen Preconditioning Promotes Survival of Retinal Ganglion Cells in a Rat Model of Optic Nerve Crush. Journal of Neurotrauma, 2010, 27, 763-770.	3.4	30
42	Hydrogen-Rich Saline is Cerebroprotective in a Rat Model of Deep Hypothermic Circulatory Arrest. Neurochemical Research, 2011, 36, 1501-1511.	3.3	29
43	Hyperbaric Oxygen Preconditioning Alleviates Myocardial Ischemic Injury in Rats. Experimental Biology and Medicine, 2008, 233, 1448-1453.	2.4	28
44	H2 inhibits TNF-Î±-induced lectin-like oxidized LDL receptor-1 expression by inhibiting nuclear factor ÎºB activation in endothelial cells. Biotechnology Letters, 2011, 33, 1715-1722.	2.2	28
45	Hydrogen-rich saline improves non-alcoholic fatty liver disease by alleviating oxidative stress and activating hepatic PPARÎ± and PPARÎ³. Molecular Medicine Reports, 2017, 15, 1305-1312.	2.4	28
46	Helium preconditioning attenuates hypoxia/ischemia-induced injury in the developing brain. Brain Research, 2011, 1376, 122-129.	2.2	27
47	Consumption of Hydrogen Water Reduces Paraquat-Induced Acute Lung Injury in Rats. Journal of Biomedicine and Biotechnology, 2011, 2011, 1-7.	3.0	27
48	Protective Effects of Hydrogen Rich Saline Solution on Experimental Testicular Ischemia-Reperfusion Injury in Rats. Journal of Urology, 2012, 187, 2249-2253.	0.4	27
49	Hydrogen-rich saline protects spermatogenesis and hematopoiesis in irradiated BALB/c mice. Medical Science Monitor, 2012, 18, BR89-BR94.	1.1	27
50	Hydrogen-rich saline attenuates vascular smooth muscle cell proliferation and neointimal hyperplasia by inhibiting reactive oxygen species production and inactivating the Ras-ERK1/2-MEK1/2 and Akt pathways. International Journal of Molecular Medicine, 2013, 31, 597-606.	4.0	27
51	Coral calcium hydride prevents hepatic steatosis in high fat diet-induced obese rats: A potent mitochondrial nutrient and phase II enzyme inducer. Biochemical Pharmacology, 2016, 103, 85-97.	4.4	27
52	Hydrogen-rich saline protects retina against glutamate-induced excitotoxic injuryÂin guinea pig. Experimental Eye Research, 2012, 94, 117-127.	2.6	26
53	Repetitive hyperbaric oxygen exposures enhance sensitivity to convulsion by upregulation of eNOS and nNOS. Brain Research, 2008, 1201, 128-134.	2.2	25
54	High-concentration hydrogen protects mouse heart against ischemia/reperfusion injury through activation of thePI3K/Akt1 pathway. Scientific Reports, 2017, 7, 14871.	3.3	25

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55	Hydrogen as additive of HTK solution fortifies myocardial preservation in grafts with prolonged cold ischemia. International Journal of Cardiology, 2013, 167, 383-390.	1.7	24
56	A review of experimental studies of hydrogen as a new therapeutic agent in emergency and critical care medicine. Medical Gas Research, 2014, 4, 17.	2.3	24
57	Pretreatment with hydrogen-rich saline reduces the damage caused by glycerol-induced rhabdomyolysis and acute kidney injury in rats. Journal of Surgical Research, 2014, 188, 243-249.	1.6	24
58	Molecular hydrogen regulates PTENâ€AKTâ€mTOR signaling via ROS to alleviate peritoneal dialysisâ€related peritoneal fibrosis. FASEB Journal, 2020, 34, 4134-4146.	0.5	21
59	Inhalation of hydrogen gas ameliorates glyoxylate-induced calcium oxalate deposition and renal oxidative stress in mice. International Journal of Clinical and Experimental Pathology, 2015, 8, 2680-9.	0.5	21
60	Hydrogen-Rich Saline Attenuates Lung Ischemia-Reperfusion Injury in Rabbits. Journal of Surgical Research, 2012, 174, e11-e16.	1.6	20
61	Xenon preconditioning: molecular mechanisms and biological effects. Medical Gas Research, 2013, 3, 3.	2.3	20
62	Protective effects of hydrogen-rich saline on ulcerative colitis rat model. Journal of Surgical Research, 2013, 185, 174-181.	1.6	20
63	Hydrogen-rich saline protects against ultraviolet B radiation injury in rats. Journal of Biomedical Research, 2012, 26, 365-371.	1.6	19
64	Hyperbaric oxygen preconditioning ameliorates hypoxiaâ€“ischemia brain damage by activating Nrf2 expressionin vivoandin vitro. Free Radical Research, 2016, 50, 454-466.	3.3	18
65	Protective Effects of Hydrogen Saline on Diabetic Retinopathy in a Streptozotocin-Induced Diabetic Rat Model. Journal of Ocular Pharmacology and Therapeutics, 2012, 28, 76-82.	1.4	16
66	Hyperoxia preconditioning: the next frontier in neurology?. Neurological Research, 2012, 34, 415-421.	1.3	16
67	Review and prospect of the biomedical effects of hydrogen. Medical Gas Research, 2014, 4, 19.	2.3	16
68	Hydrogen as a novel and effective treatment of acute carbon monoxide poisoning. Medical Hypotheses, 2010, 75, 235-237.	1.5	15
69	Hydrogen-Rich Saline Attenuated Neuropathic Pain by Reducing Oxidative Stress. Canadian Journal of Neurological Sciences, 2013, 40, 857-863.	0.5	15
70	Hydrogen-Saturated Saline Protects Intensive Narrow Band Noise-Induced Hearing Loss in Guinea Pigs through an Antioxidant Effect. PLoS ONE, 2014, 9, e100774.	2.5	14
71	Anti-Apoptotic Effect of Hyperbaric Oxygen Preconditioning on a Rat Model of Myocardial Infarction. Journal of Surgical Research, 2011, 171, 41-46.	1.6	13
72	Hydrogen Saline Treatment Attenuates Hyperoxia-Induced Retinopathy by Inhibition of Oxidative Stress and Reduction of VEGF Expression. Ophthalmic Research, 2012, 47, 122-127.	1.9	12

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73	Lactulose: an effective preventive and therapeutic option for ischemic stroke by production of hydrogen. Medical Gas Research, 2012, 2, 3.	2.3	12
74	Protective effects of hydrogen-rich saline in uncontrolled hemorrhagic shock. Experimental and Therapeutic Medicine, 2014, 7, 1253-1258.	1.8	12
75	Oral administration of mannitol may be an effective treatment for ischemiaâ€“reperfusion injury. Medical Hypotheses, 2010, 75, 620-622.	1.5	11
76	Molecular mechanisms underlying the protective effects of hydrogen-saturated saline on noise-induced hearing loss. Acta Oto-Laryngologica, 2017, 137, 1063-1068.	0.9	11
77	Magnesium Hydride Ameliorates Endotoxin-Induced Acute Respiratory Distress Syndrome by Inhibiting Inflammation, Oxidative Stress, and Cell Apoptosis. Oxidative Medicine and Cellular Longevity, 2022, 2022, 1-16.	4.0	8
78	Hydrogen medicine: A rising star in gas medicine. Traditional Medicine and Modern Medicine, 2020, 03, 153-161.	0.2	6
79	Effect of helium preconditioning on neurological decompression sickness in rats. Journal of Applied Physiology, 2019, 126, 934-940.	2.5	5
80	Hydrogen: From a Biologically Inert Gas to a Unique Antioxidant. , 0, , .		2
81	Hydrogen Element and Hydrogen Gas. , 2015, , 1-23.		2
82	Hydrogen therapy may be a promising, safe and effective treatment for diabetic erectile dysfunction: a hypothesis. Alternative Medicine Studies, 2011, 1, 11.	0.2	0
83	Methods of Hydrogen Application. , 2015, , 99-107.		0
84	Therapeutic Effects of Hydrogen on Different Diseases. , 2015, , 81-97.		0
85	Future Directions in Hydrogen Studies. , 2015, , 109-117.		0