

Keliang Xie

List of Publications by Year in descending order

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74
papers

2,417
citations

172207

29
h-index

223531

46
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82
all docs

82
docs citations

82
times ranked

2222
citing authors

#	ARTICLE	IF	CITATIONS
1	MiR-186-5p Downregulates NAMPT and Functions as a Potential Therapeutic Target for Sepsis-Induced Coagulation Disorders. <i>Computational Intelligence and Neuroscience</i> , 2022, 2022, 1-9.	1.1	3
2	Dexmedetomidine protects against burn-induced intestinal barrier injury via the MLCK/p-MLC signalling pathway. <i>Burns</i> , 2021, 47, 1576-1585.	1.1	6
3	A Role for Transmembrane Protein 16C/Slack Impairment in Excitatory Nociceptive Synaptic Plasticity in the Pathogenesis of Remifentanyl-induced Hyperalgesia in Rats. <i>Neuroscience Bulletin</i> , 2021, 37, 669-683.	1.5	5
4	Perspective of Molecular Hydrogen in the Treatment of Sepsis. <i>Current Pharmaceutical Design</i> , 2021, 27, 667-678.	0.9	12
5	Dexmedetomidine attenuates myocardial ischemia-reperfusion injury in vitro by inhibiting NLRP3 Inflammasome activation. <i>BMC Anesthesiology</i> , 2021, 21, 104.	0.7	6
6	Hydrogen gas alleviates sepsis-induced neuroinflammation and cognitive impairment through regulation of DNMT1 and DNMT3a-mediated BDNF promoter IV methylation in mice. <i>International Immunopharmacology</i> , 2021, 95, 107583.	1.7	19
7	Hydrogen alleviates cell damage and acute lung injury in sepsis via PINK1/Parkin-mediated mitophagy. <i>Inflammation Research</i> , 2021, 70, 915-930.	1.6	17
8	Hydrogen Alleviates Neuronal Injury and Neuroinflammation Induced by Microglial Activation via the Nuclear Factor Erythroid 2-related Factor 2 Pathway in Sepsis-associated Encephalopathy. <i>Neuroscience</i> , 2021, 466, 87-100.	1.1	11
9	Hydrogen Gas Alleviates Sepsis-Induced Brain Injury by Improving Mitochondrial Biogenesis Through the Activation of PGC-1 α in Mice. <i>Shock</i> , 2021, 55, 100-109.	1.0	28
10	Molecular Hydrogen: A Promising Adjunctive Strategy for the Treatment of the COVID-19. <i>Frontiers in Medicine</i> , 2021, 8, 671215.	1.2	6
11	High concentration of hydrogen gas alleviates Lipopolysaccharide-induced lung injury via activating Nrf2 signaling pathway in mice. <i>International Immunopharmacology</i> , 2021, 101, 108198.	1.7	8
12	Molecular hydrogen alleviates brain injury and cognitive impairment in a chronic sequelae model of murine polymicrobial sepsis. <i>Experimental Brain Research</i> , 2020, 238, 2897-2908.	0.7	12
13	<p>i>iTRAQ-Based Quantitative Proteomic Analysis of Intestines in Murine Polymicrobial Sepsis with Hydrogen Gas Treatment</p>. <i>Drug Design, Development and Therapy</i> , 2020, Volume 14, 4885-4900.	2.0	6
14	Rhein Protects Against Neurological Deficits After Traumatic Brain Injury in Mice via Inhibiting Neuronal Pyroptosis. <i>Frontiers in Pharmacology</i> , 2020, 11, 564367.	1.6	14
15	Prospects of molecular hydrogen in perioperative neuroprotection from basic research to clinical application. <i>Current Opinion in Anaesthesiology</i> , 2020, 33, 655-660.	0.9	2
16	iTRAQ-based quantitative proteomic analysis of the therapeutic effects of 2% hydrogen gas inhalation on brain injury in septic mice. <i>Brain Research</i> , 2020, 1746, 147003.	1.1	5
17	Protective Effects of Hydrogen on Myocardial Mitochondrial Functions in Septic Mice. <i>BioMed Research International</i> , 2020, 2020, 1-7.	0.9	9
18	Spinal hevin mediates membrane trafficking of GluA1-containing AMPA receptors in remifentanyl-induced postoperative hyperalgesia in mice. <i>Neuroscience Letters</i> , 2020, 722, 134855.	1.0	5

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19	Molecular hydrogen attenuates sepsis-induced neuroinflammation through regulation of microglia polarization through an mTOR-autophagy-dependent pathway. <i>International Immunopharmacology</i> , 2020, 81, 106287.	1.7	75
20	Hydrogen attenuates sepsis-associated encephalopathy by NRF2 mediated NLRP3 pathway inactivation. <i>Inflammation Research</i> , 2020, 69, 697-710.	1.6	40
21	Hydrogen improves cell viability partly through inhibition of autophagy and activation of PI3K/Akt/GSK3 β signal pathway in a microvascular endothelial cell model of traumatic brain injury. <i>Neurological Research</i> , 2020, 42, 487-496.	0.6	22
22	The TSPO-specific Ligand PK11195 Protects Against LPS-Induced Cognitive Dysfunction by Inhibiting Cellular Autophagy. <i>Frontiers in Pharmacology</i> , 2020, 11, 615543.	1.6	6
23	Hydrogen gas alleviates blood-brain barrier impairment and cognitive dysfunction of septic mice in an Nrf2-dependent pathway. <i>International Immunopharmacology</i> , 2020, 85, 106585.	1.7	39
24	Protective effects of hydrogen-rich saline against experimental diabetic peripheral neuropathy via activation of the mitochondrial ATP-sensitive potassium channel channels in rats. <i>Molecular Medicine Reports</i> , 2020, 21, 282-290.	1.1	13
25	Coenzyme Q10 alleviates sevoflurane-induced neuroinflammation by regulating the levels of apolipoprotein E and phosphorylated tau protein in mouse hippocampal neurons. <i>Molecular Medicine Reports</i> , 2020, 22, 445-453.	1.1	19
26	Hydrogen alleviates mitochondrial dysfunction and organ damage via autophagy-mediated NLRP3 inflammasome inactivation in sepsis. <i>International Journal of Molecular Medicine</i> , 2019, 44, 1309-1324.	1.8	29
27	Nrf2/HO-1 signaling pathway participated in the protection of hydrogen sulfide on neuropathic pain in rats. <i>International Immunopharmacology</i> , 2019, 75, 105746.	1.7	41
28	Electroacupuncture alleviates morphine-induced hyperalgesia by regulating spinal CB1 μ receptors and ERK1/2 activity. <i>Molecular Medicine Reports</i> , 2019, 20, 1113-1120.	1.1	4
29	Hydrogen-rich Saline Alleviated the Hyperpathia and Microglia Activation via Autophagy Mediated Inflammasome Inactivation in Neuropathic Pain Rats. <i>Neuroscience</i> , 2019, 421, 17-30.	1.1	47
30	Hydrogen-rich saline alleviates inflammation and apoptosis in myocardial I/R μ injury via PINK-mediated autophagy. <i>International Journal of Molecular Medicine</i> , 2019, 44, 1048-1062.	1.8	89
31	Anaesthesiology in China: present and future. <i>British Journal of Anaesthesia</i> , 2019, 123, 559-564.	1.5	2
32	The role of PI3K-mediated AMPA receptor changes in post-conditioning of propofol in brain protection. <i>BMC Neuroscience</i> , 2019, 20, 51.	0.8	12
33	Hydrogen gas reduces HMGB1 release in lung tissues of septic mice in an Nrf2/HO-1-dependent pathway. <i>International Immunopharmacology</i> , 2019, 69, 11-18.	1.7	53
34	Hydrogen gas inhalation attenuates sepsis-induced liver injury in a FUNDC1-dependent manner. <i>International Immunopharmacology</i> , 2019, 71, 61-67.	1.7	43
35	Comparative Evaluation of a New Depth of Anesthesia Index in ConView μ System and the Bispectral Index during Total Intravenous Anesthesia: A Multicenter Clinical Trial. <i>BioMed Research International</i> , 2019, 2019, 1-7.	0.9	10
36	Sevoflurane-induced learning deficits and spine loss via nectin-1/corticotrophin-releasing hormone receptor type 1 signaling. <i>Brain Research</i> , 2019, 1710, 188-198.	1.1	15

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37	Hemopexin alleviates cognitive dysfunction after focal cerebral ischemia-reperfusion injury in rats. <i>BMC Anesthesiology</i> , 2019, 19, 13.	0.7	24
38	Autophagy Activation Improves Lung Injury and Inflammation in Sepsis. <i>Inflammation</i> , 2019, 42, 426-439.	1.7	99
39	Itraq-Based Quantitative Proteomic Analysis of Lungs in Murine Polymicrobial Sepsis with Hydrogen Gas Treatment. <i>Shock</i> , 2018, 49, 187-195.	1.0	14
40	Hydrogen Gas Treatment Improves the Neurological Outcome After Traumatic Brain Injury Via Increasing miR-21 Expression. <i>Shock</i> , 2018, 50, 308-315.	1.0	30
41	Hydrogen ameliorates oxidative stress via PI3K-Akt signaling pathway in UVB-induced HaCaT cells. <i>International Journal of Molecular Medicine</i> , 2018, 41, 3653-3661.	1.8	23
42	Protective effects of hydrogen gas against sepsis-induced acute lung injury via regulation of mitochondrial function and dynamics. <i>International Immunopharmacology</i> , 2018, 65, 366-372.	1.7	40
43	Hydrogen-Rich Saline Activated Autophagy via HIF-1 Pathways in Neuropathic Pain Model. <i>BioMed Research International</i> , 2018, 2018, 1-13.	0.9	26
44	Hemopexin promotes angiogenesis via up-regulating HO-1 in rats after cerebral ischemia-reperfusion injury. <i>BMC Anesthesiology</i> , 2018, 18, 2.	0.7	11
45	Effect of autophagy on allodynia, hyperalgesia and astrocyte activation in a rat model of neuropathic pain. <i>International Journal of Molecular Medicine</i> , 2018, 42, 2009-2019.	1.8	36
46	Dietary Supplementation With High Fiber Alleviates Oxidative Stress and Inflammatory Responses Caused by Severe Sepsis in Mice Without Altering Microbiome Diversity. <i>Frontiers in Physiology</i> , 2018, 9, 1929.	1.3	22
47	Molecular hydrogen inhalation attenuates postoperative cognitive impairment in rats. <i>NeuroReport</i> , 2017, 28, 694-700.	0.6	19
48	Hydrogen Gas Protects Against Intestinal Injury in Wild Type But Not NRF2 Knockout Mice With Severe Sepsis by Regulating HO-1 and HMGB1 Release. <i>Shock</i> , 2017, 48, 364-370.	1.0	54
49	The role of the Wnt/ β -catenin/Annexin A1 pathway in the process of sevoflurane-induced cognitive dysfunction. <i>Journal of Neurochemistry</i> , 2016, 137, 240-252.	2.1	28
50	Hydrogen-Rich Medium Ameliorates Lipopolysaccharide-Induced Barrier Dysfunction via Rhoa-Mdia1 Signaling in Caco-2 Cells. <i>Shock</i> , 2016, 45, 228-237.	1.0	30
51	Combination therapy of molecular hydrogen and hyperoxia improves survival rate and organ damage in a zymosan-induced generalized inflammation model. <i>Experimental and Therapeutic Medicine</i> , 2016, 11, 2590-2596.	0.8	14
52	The Effect of Autophagy on Inflammation Cytokines in Renal Ischemia/Reperfusion Injury. <i>Inflammation</i> , 2016, 39, 347-356.	1.7	55
53	Protective effect of hydrogen-rich medium against high glucose-induced apoptosis of Schwann cells in vitro. <i>Molecular Medicine Reports</i> , 2015, 12, 3986-3992.	1.1	20
54	Hydrogen-rich saline attenuates chemotherapy-induced ovarian injury via regulation of oxidative stress. <i>Experimental and Therapeutic Medicine</i> , 2015, 10, 2277-2282.	0.8	32

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55	Activation of notch signaling mediates the induction and maintenance of mechanical allodynia in a rat model of neuropathic pain. <i>Molecular Medicine Reports</i> , 2015, 12, 639-644.	1.1	11
56	Hydrogen-Rich Medium Attenuated Lipopolysaccharide-Induced Monocyte-Endothelial Cell Adhesion and Vascular Endothelial Permeability via Rho-Associated Coiled-Coil Protein Kinase. <i>Shock</i> , 2015, 44, 58-64.	1.0	20
57	Hydrogen-rich saline reduces cell death through inhibition of DNA oxidative stress and overactivation of poly (ADP-ribose) polymerase-1 in retinal ischemia-reperfusion injury. <i>Molecular Medicine Reports</i> , 2015, 12, 2495-2502.	1.1	15
58	Molecular hydrogen protects mice against polymicrobial sepsis by ameliorating endothelial dysfunction via an Nrf2/HO-1 signaling pathway. <i>International Immunopharmacology</i> , 2015, 28, 643-654.	1.7	64
59	Internalization of GluA2 and the underlying mechanisms of cognitive decline in aged rats following surgery and prolonged exposure to sevoflurane. <i>NeuroToxicology</i> , 2015, 49, 94-103.	1.4	11
60	Hydrogen gas inhibits high-mobility group box 1 release in septic mice by upregulation of heme oxygenase 1. <i>Journal of Surgical Research</i> , 2015, 196, 136-148.	0.8	35
61	Notch signaling activation is critical to the development of neuropathic pain. <i>BMC Anesthesiology</i> , 2015, 15, 41.	0.7	37
62	H2Treatment Attenuated Pain Behavior and Cytokine Release Through the HO-1/CO Pathway in a Rat Model of Neuropathic Pain. <i>Inflammation</i> , 2015, 38, 1835-1846.	1.7	24
63	Inhibition of DOR prevents remifentanyl induced postoperative hyperalgesia through regulating the trafficking and function of spinal NMDA receptors in vivo and in vitro. <i>Brain Research Bulletin</i> , 2015, 110, 30-39.	1.4	30
64	Sevoflurane postconditioning attenuates cerebral ischemia-reperfusion injury via protein kinase B/nuclear factor-erythroid 2-related factor 2 pathway activation. <i>International Journal of Developmental Neuroscience</i> , 2014, 38, 79-86.	0.7	21
65	Hydrogen Gas Presents a Promising Therapeutic Strategy for Sepsis. <i>BioMed Research International</i> , 2014, 2014, 1-9.	0.9	56
66	Involvement of the blood-brain barrier opening in cognitive decline in aged rats following orthopedic surgery and high concentration of sevoflurane inhalation. <i>Brain Research</i> , 2014, 1551, 13-24.	1.1	73
67	Inhalation of hydrogen gas attenuates brain injury in mice with cecal ligation and puncture via inhibiting neuroinflammation, oxidative stress and neuronal apoptosis. <i>Brain Research</i> , 2014, 1589, 78-92.	1.1	92
68	Molecular Hydrogen Ameliorates Lipopolysaccharide-Induced Acute Lung Injury in Mice Through Reducing Inflammation and Apoptosis. <i>Shock</i> , 2012, 37, 548-555.	1.0	155
69	Combination Therapy With Molecular Hydrogen and Hyperoxia in a Murine Model of Polymicrobial Sepsis. <i>Shock</i> , 2012, 38, 656-663.	1.0	36
70	PROTECTIVE EFFECTS OF HYDROGEN GAS ON MURINE POLYMICROBIAL SEPSIS VIA REDUCING OXIDATIVE STRESS AND HMGB1 RELEASE. <i>Shock</i> , 2010, 34, 90-97.	1.0	184
71	SUBANESTHETIC DOSE OF ISOFLURANE PROTECTS AGAINST ZYMOSAN-INDUCED GENERALIZED INFLAMMATION AND ITS ASSOCIATED ACUTE LUNG INJURY IN MICE. <i>Shock</i> , 2010, 34, 183-189.	1.0	37
72	Hydrogen Gas Improves Survival Rate and Organ Damage in Zymosan-Induced Generalized Inflammation Model. <i>Shock</i> , 2010, 34, 495-501.	1.0	99

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73	Beneficial effects of hydrogen gas in a rat model of traumatic brain injury via reducing oxidative stress. <i>Brain Research</i> , 2010, 1354, 196-205.	1.1	71
74	100% OXYGEN INHALATION PROTECTS AGAINST ZYMOSAN-INDUCED STERILE SEPSIS IN MICE. <i>Shock</i> , 2009, 32, 451-461.	1.0	35