

Bae Hwan Lee

List of Publications by Year in descending order

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74
papers

1,676
citations

304368

22
h-index

315357

38
g-index

78
all docs

78
docs citations

78
times ranked

2146
citing authors

#	ARTICLE	IF	CITATIONS
1	Neuroprotective Effect of Antioxidants in the Brain. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7152.	1.8	186
2	An animal model of neuropathic pain employing injury to the sciatic nerve branches. <i>NeuroReport</i> , 2000, 11, 657-661.	0.6	153
3	Comparison of sympathetic sprouting in sensory ganglia in three animal models of neuropathic pain. <i>Experimental Brain Research</i> , 1998, 120, 432-438.	0.7	101
4	Different strains and substrains of rats show different levels of neuropathic pain behaviors. <i>Experimental Brain Research</i> , 1999, 129, 167-171.	0.7	98
5	Functional Recovery after the Transplantation of Neurally Differentiated Mesenchymal Stem Cells Derived from Bone Marrow in a Rat Model of Spinal Cord Injury. <i>Cell Transplantation</i> , 2009, 18, 1359-1368.	1.2	79
6	Injury in the spinal cord may produce cell death in the brain. <i>Brain Research</i> , 2004, 1020, 37-44.	1.1	54
7	Effects of Glial Transplantation on Functional Recovery following Acute Spinal Cord Injury. <i>Journal of Neurotrauma</i> , 2005, 22, 575-589.	1.7	48
8	Crosstalk between Neuron and Glial Cells in Oxidative Injury and Neuroprotection. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13315.	1.8	46
9	Inhibition of Mammalian Target of Rapamycin (mTOR) Signaling in the Insular Cortex Alleviates Neuropathic Pain after Peripheral Nerve Injury. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 79.	1.4	43
10	Dehydroascorbic acid prevents oxidative cell death through a glutathione pathway in primary astrocytes. <i>Journal of Neuroscience Research</i> , 2005, 79, 670-679.	1.3	40
11	Brain and spinal cord injury repair by implantation of human neural progenitor cells seeded onto polymer scaffolds. <i>Experimental and Molecular Medicine</i> , 2018, 50, 1-18.	3.2	38
12	Anti-oxidant effect of ascorbic and dehydroascorbic acids in hippocampal slice culture. <i>Biochemical and Biophysical Research Communications</i> , 2008, 366, 8-14.	1.0	35
13	Neurally induced umbilical cord blood cells modestly repair injured spinal cords. <i>NeuroReport</i> , 2008, 19, 1259-1263.	0.6	32
14	Microinjection of opiates into the periaqueductal gray matter attenuates neuropathic pain symptoms in rats. <i>NeuroReport</i> , 2000, 11, 1413-1416.	0.6	31
15	Environmental enrichment enhances synaptic plasticity by internalization of striatal dopamine transporters. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 2122-2133.	2.4	31
16	Pain-Relieving Effects of mTOR Inhibitor in the Anterior Cingulate Cortex of Neuropathic Rats. <i>Molecular Neurobiology</i> , 2019, 56, 2482-2494.	1.9	29
17	Changes in Cytokine Expression after Electroacupuncture in Neuropathic Rats. <i>Evidence-based Complementary and Alternative Medicine</i> , 2012, 2012, 1-6.	0.5	28
18	Antiallodynic effects produced by stimulation of the periaqueductal gray matter in a rat model of neuropathic pain. <i>Neuroscience Letters</i> , 2000, 291, 29-32.	1.0	27

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19	Effect of ipsilateral subthalamic nucleus lesioning in a rat parkinsonian model: study of behavior correlated with neuronal activity in the pedunculopontine nucleus. <i>Journal of Neurosurgery</i> , 2003, 99, 762-767.	0.9	27
20	Altered GABAergic neurotransmission in mice lacking dopamine D2 receptors. <i>Molecular and Cellular Neurosciences</i> , 2004, 25, 732-741.	1.0	25
21	Plasticity-Related PKM α Signaling in the Insular Cortex Is Involved in the Modulation of Neuropathic Pain after Nerve Injury. <i>Neural Plasticity</i> , 2015, 2015, 1-10.	1.0	25
22	Repetitive motor cortex stimulation reinforces the pain modulation circuits of peripheral neuropathic pain. <i>Scientific Reports</i> , 2017, 7, 7986.	1.6	25
23	Effects of Human Mesenchymal Stem Cell Transplantation Combined with Polymer on Functional Recovery Following Spinal Cord Hemisection in Rats. <i>Korean Journal of Physiology and Pharmacology</i> , 2012, 16, 405.	0.6	20
24	Acute electroacupuncture inhibits nitric oxide synthase expression in the spinal cord of neuropathic rats. <i>Neurological Research</i> , 2010, 32, 96-100.	0.6	19
25	Behavioral Characteristics of a Mouse Model of Cancer Pain. <i>Yonsei Medical Journal</i> , 2005, 46, 252.	0.9	18
26	Inhibition of hexokinase leads to neuroprotection against excitotoxicity in organotypic hippocampal slice culture. <i>Journal of Neuroscience Research</i> , 2011, 89, 96-107.	1.3	18
27	Analgesic effects of FAAH inhibitor in the insular cortex of nerve-injured rats. <i>Molecular Pain</i> , 2018, 14, 174480691881434.	1.0	18
28	Antiallodynic Effects of Acupuncture in Neuropathic Rats. <i>Yonsei Medical Journal</i> , 2006, 47, 359.	0.9	17
29	PAIN-RELIEVING EFFECTS OF ACUPUNCTURE AND ELECTROACUPUNCTURE IN AN ANIMAL MODEL OF ARTHRITIC PAIN. <i>International Journal of Neuroscience</i> , 2006, 116, 1139-1156.	0.8	17
30	mTOR signaling intervention by Torin1 and XL388 in the insular cortex alleviates neuropathic pain. <i>Neuroscience Letters</i> , 2020, 718, 134742.	1.0	17
31	Modification of cortical excitability in neuropathic rats: A voltage-sensitive dye study. <i>Neuroscience Letters</i> , 2009, 464, 117-121.	1.0	15
32	Neuroprotective effects of FK506 against excitotoxicity in organotypic hippocampal slice culture. <i>Neuroscience Letters</i> , 2010, 474, 126-130.	1.0	15
33	Coenzyme Q10 protects neurons against neurotoxicity in hippocampal slice culture. <i>NeuroReport</i> , 2011, 22, 721-726.	0.6	15
34	Neuroprotective Effect of Melatonin against Kainic Acid-Induced Oxidative Injury in Hippocampal Slice Culture of Rats. <i>International Journal of Molecular Sciences</i> , 2014, 15, 5940-5951.	1.8	15
35	Effects of Acupuncture Stimulation at Different Acupoints on Formalin-Induced Pain in Rats. <i>Korean Journal of Physiology and Pharmacology</i> , 2014, 18, 121.	0.6	14
36	Spinal cord fusion with PEG-GNRs (TexasPEG): Neurophysiological recovery in 24 hours in rats. , 2016, 7, 632.		14

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37	Neuroprotective effects of a protein tyrosine phosphatase inhibitor against hippocampal excitotoxic injury. <i>Brain Research</i> , 2019, 1719, 133-139.	1.1	13
38	Effects of Methylprednisolone on the Neural Conduction of the Motor Evoked Potentials in Spinal Cord Injured Rats. <i>Journal of Korean Medical Science</i> , 2005, 20, 132.	1.1	12
39	Effects of Electroacupuncture at BL60 on Formalin-Induced Pain in Rats. <i>Evidence-based Complementary and Alternative Medicine</i> , 2012, 2012, 1-7.	0.5	12
40	Effects of mTOR inhibitors on neuropathic pain revealed by optical imaging of the insular cortex in rats. <i>Brain Research</i> , 2020, 1733, 146720.	1.1	12
41	Spatiotemporal patterns of neural activity in response to electroacupuncture stimulation in the rodent primary somatosensory cortex. <i>Neurological Research</i> , 2010, 32, 64-68.	0.6	11
42	In vivo voltage-sensitive dye imaging of the insular cortex in nerve-injured rats. <i>Neuroscience Letters</i> , 2016, 634, 146-152.	1.0	11
43	Neuroprotective Effects of α -Tocotrienol on Kainic Acid-Induced Neurotoxicity in Organotypic Hippocampal Slice Cultures. <i>International Journal of Molecular Sciences</i> , 2013, 14, 18256-18268.	1.8	10
44	Astroglial changes in the zona incerta in response to motor cortex stimulation in a rat model of chronic neuropathy. <i>Scientific Reports</i> , 2020, 10, 943.	1.6	10
45	Crossed-withdrawal reflex in a rat model of neuropathic pain: implications in neural plasticity. <i>Neuroscience Letters</i> , 2004, 369, 239-244.	1.0	9
46	Modulation of Neuropathic Pain by Galanin and Neuropeptide Y at the Level of the Medulla in Rats. <i>International Journal of Neuroscience</i> , 2009, 119, 1941-1955.	0.8	9
47	Spatiotemporal changes of optical signals in the somatosensory cortex of neuropathic rats after electroacupuncture stimulation. <i>BMC Complementary and Alternative Medicine</i> , 2017, 17, 33.	3.7	9
48	Manganese-enhanced magnetic resonance imaging of the spinal cord in rats with formalin-induced pain. <i>Neuroscience Research</i> , 2019, 149, 14-21.	1.0	9
49	Lipid Emulsion Improves Functional Recovery in an Animal Model of Stroke. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7373.	1.8	9
50	Neuroprotection from Excitotoxic Injury by Local Administration of Lipid Emulsion into the Brain of Rats. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2706.	1.8	9
51	Chronic Treatment of Ascorbic Acid Leads to Age-Dependent Neuroprotection against Oxidative Injury in Hippocampal Slice Cultures. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1608.	1.8	9
52	Olig2-expressing Mesenchymal Stem Cells Enhance Functional Recovery after Contusive Spinal Cord Injury. <i>International Journal of Stem Cells</i> , 2018, 11, 177-186.	0.8	9
53	Optical Imaging of Somatosensory Evoked Potentials in the Rat Cerebral Cortex after Spinal Cord Injury. <i>Journal of Neurotrauma</i> , 2011, 28, 797-807.	1.7	7
54	c-Fos Expression in the Nucleus of the Solitary Tract in Response to Salt Stimulation in Rats. <i>Korean Journal of Physiology and Pharmacology</i> , 2011, 15, 437.	0.6	7

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55	Manganese-enhanced MR imaging of brain activation evoked by noxious peripheral electrical stimulation. <i>Neuroscience Letters</i> , 2016, 613, 13-18.	1.0	6
56	Modulation of Neuropathic Pain by Glial Regulation in the Insular Cortex of Rats. <i>Frontiers in Molecular Neuroscience</i> , 2022, 15, 815945.	1.4	6
57	Neuroprotective effects of mexiletine on motor evoked potentials in demyelinated rat spinal cords. <i>Neuroscience Research</i> , 2010, 67, 59-64.	1.0	5
58	Different spatial expressions of c-Fos in the nucleus of the solitary tract following taste stimulation with sodium, potassium, and ammonium ions in rats. <i>Journal of Neuroscience Research</i> , 2015, 93, 340-349.	1.3	4
59	Neural substrates involved in anger induced by audio-visual film clips among patients with alcohol dependency. <i>Journal of Physiological Anthropology</i> , 2017, 36, 5.	1.0	4
60	Possible Therapeutic Options for Complex Regional Pain Syndrome. <i>Biomedicines</i> , 2021, 9, 596.	1.4	4
61	Role of different peripheral components in the expression of neuropathic pain syndrome. <i>Yonsei Medical Journal</i> , 2000, 41, 354.	0.9	3
62	Optical Imaging of the Motor Cortex Following Antidromic Activation of the Corticospinal Tract after Spinal Cord Injury. <i>Frontiers in Neuroscience</i> , 2017, 11, 166.	1.4	3
63	Manganese-enhanced MRI depicts a reduction in brain responses to nociception upon mTOR inhibition in chronic pain rats. <i>Molecular Brain</i> , 2020, 13, 158.	1.3	3
64	Combined treatment of Taraxaci Herba and R7050 alleviates the symptoms of herpes simplex virus-induced Behçet's disease in rats. <i>Integrative Medicine Research</i> , 2021, 10, 100720.	0.7	3
65	Lesion of Subthalamic Nucleus in Parkinsonian Rats : Effects of Dopamine D1 and D2 Receptor Agonists on the Neuronal Activities of the Substantia Nigra Pars Reticulata. <i>Journal of Korean Neurosurgical Society</i> , 2007, 42, 455.	0.5	3
66	Postinjury Neuroplasticity in Central Neural Networks. <i>Neural Plasticity</i> , 2015, 2015, 1-2.	1.0	2
67	Neuroprotection: Rescue from Neuronal Death in the Brain. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5525.	1.8	2
68	Inhibition of the Nav1.7 Channel in the Trigeminal Ganglion Relieves Pulpitis Inflammatory Pain. <i>Frontiers in Pharmacology</i> , 2021, 12, 759730.	1.6	2
69	Contralateral Metabolic Activation Related to Plastic Changes in the Spinal Cord after Peripheral Nerve Injury in Rats. <i>Neural Plasticity</i> , 2015, 2015, 1-6.	1.0	1
70	Responses of the hypothalamic paraventricular neurons to light stimulation with different wavelengths in the rat. <i>Biological Rhythm Research</i> , 2008, 39, 389-395.	0.4	0
71	Effects of Ascorbic and Dehydroascorbic Acids on Apoptotic Cell Death in Hippocampal Slice Culture. <i>Experimental Neurobiology</i> , 2008, 17, 25.	0.7	0
72	Effects of FK506 on long-term potentiation observed by optical imaging in organotypic hippocampal slice culture. <i>Tissue Engineering and Regenerative Medicine</i> , 2014, 11, 80-86.	1.6	0

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73	Functional Mapping of Nervous System Using Optical Imaging Techniques. Journal of the Korean Medical Association, 2009, 52, 69.	0.1	0
74	New Trend of Pain Study by Brain Imaging Devices. Journal of the Korean Medical Association, 2009, 52, 182.	0.1	0