Ling Wei

List of Publications by Year
in descending order

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Version: 2024-02-01

106 papers	7,312 citations	46984 47 h-index	58549 82 g-index
108 all docs	108 docs citations	108 times ranked	8856 citing authors

#	Article	IF	Citations
1	Transplantation of hypoxia-preconditioned mesenchymal stem cells improves infarcted heart function via enhanced survival of implanted cells and angiogenesis. Journal of Thoracic and Cardiovascular Surgery, 2008, 135, 799-808.	0.4	537
2	Transplantation of hypoxia preconditioned bone marrow mesenchymal stem cells enhances angiogenesis and neurogenesis after cerebral ischemia in rats. Neurobiology of Disease, 2012, 46, 635-645.	2.1	322
3	Collateral Growth and Angiogenesis Around Cortical Stroke. Stroke, 2001, 32, 2179-2184.	1.0	287
4	New Patterns of Intracortical Projections after Focal Cortical Stroke. Neurobiology of Disease, 2001, 8, 910-922.	2.1	259
5	In vitro hypoxic preconditioning of embryonic stem cells as a strategy of promoting cell survival and functional benefits after transplantation into the ischemic rat brain. Experimental Neurology, 2008, 210, 656-670.	2.0	222
6	Ionic Mechanism of Ouabain-Induced Concurrent Apoptosis and Necrosis in Individual Cultured Cortical Neurons. Journal of Neuroscience, 2002, 22, 1350-1362.	1.7	221
7	Erythropoietin-Induced Neurovascular Protection, Angiogenesis, and Cerebral Blood Flow Restoration after Focal Ischemia in Mice. Journal of Cerebral Blood Flow and Metabolism, 2007, 27, 1043-1054.	2.4	193
8	Transplantation of embryonic stem cells overexpressing Bcl-2 promotes functional recovery after transient cerebral ischemia. Neurobiology of Disease, 2005, 19, 183-193.	2.1	184
9	Preconditioning Strategy in Stem Cell Transplantation Therapy. Translational Stroke Research, 2013, 4, 76-88.	2.3	171
10	Cell based therapies for ischemic stroke: From basic science to bedside. Progress in Neurobiology, 2014, 115, 92-115.	2.8	171
11	Delayed Intranasal Delivery of Hypoxic-Preconditioned Bone Marrow Mesenchymal Stem Cells Enhanced Cell Homing and Therapeutic Benefits after Ischemic Stroke in Mice. Cell Transplantation, 2013, 22, 977-991.	1.2	163
12	Differences in Vulnerability to Permanent Focal Cerebral Ischemia Among 3 Common Mouse Strains. Stroke, 2000, 31, 2707-2714.	1.0	156
13	Neuroprotective effect of the endogenous neural peptide apelin in cultured mouse cortical neurons. Experimental Cell Research, 2010, 316, 1773-1783.	1.2	140
14	Transplantation of Embryonic Stem Cells Improves Nerve Repair and Functional Recovery After Severe Sciatic Nerve Axotomy in Rats. Stem Cells, 2008, 26, 1356-1365.	1.4	131
15	Role of ERK 1/2 signaling in neuronal differentiation of cultured embryonic stem cells. Development Growth and Differentiation, 2006, 48, 513-523.	0.6	130
16	Stem cell transplantation therapy for multifaceted therapeutic benefits after stroke. Progress in Neurobiology, 2017, 157, 49-78.	2.8	127
17	Inhibition of prolyl hydroxylases by dimethyloxaloylglycine after stroke reduces ischemic brain injury and requires hypoxia inducible factor-1Î±. Neurobiology of Disease, 2012, 45, 733-742.	2.1	120
18	Potassium Channel Blockers Attenuate Hypoxia- and Ischemia-Induced Neuronal Death In Vitro and In Vivo. Stroke, 2003, 34, 1281-1286.	1.0	109

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19	Regulation of therapeutic hypothermia on inflammatory cytokines, microglia polarization, migration and functional recovery after ischemic stroke in mice. Neurobiology of Disease, 2016, 96, 248-260.	2.1	109
20	Hypoxic preconditioning enhances bone marrow mesenchymal stem cell migration via Kv2.1 channel and FAK activation. American Journal of Physiology - Cell Physiology, 2011, 301, C362-C372.	2.1	107
21	Intranasal delivery of hypoxia-preconditioned bone marrow-derived mesenchymal stem cells enhanced regenerative effects after intracerebral hemorrhagic stroke in mice. Experimental Neurology, 2015, 272, 78-87.	2.0	107
22	dl-3-n-Butylphthalide prevents neuronal cell death after focal cerebral ischemia in mice via the JNK pathway. Brain Research, 2010, 1359, 216-226.	1.1	105
23	Intranasal Delivery of Apelin-13 Is Neuroprotective and Promotes Angiogenesis After Ischemic Stroke in Mice. ASN Neuro, 2015, 7, 175909141560511.	1.5	104
24	Necrosis, apoptosis and hybrid death in the cortex and thalamus after barrel cortex ischemia in rats. Brain Research, 2004, 1022, 54-61.	1.1	94
25	Cell Death Mechanism and Protective Effect of Erythropoietin after Focal Ischemia in the Whisker-Barrel Cortex of Neonatal Rats. Journal of Pharmacology and Experimental Therapeutics, 2006, 317, 109-116.	1.3	89
26	Neurodevelopmental implications of the general anesthesia in neonate and infants. Experimental Neurology, 2015, 272, 50-60.	2.0	87
27	A novel stroke therapy of pharmacologically induced hypothermia after focal cerebral ischemia in mice. FASEB Journal, 2012, 26, 2799-2810.	0.2	86
28	Effects of chloride and potassium channel blockers on apoptotic cell shrinkage and apoptosis in cortical neurons. Pflugers Archiv European Journal of Physiology, 2004, 448, 325-334.	1.3	84
29	Preconditioning of bone marrow mesenchymal stem cells by prolyl hydroxylase inhibition enhances cell survival and angiogenesis in vitro and after transplantation into the ischemic heart of rats. Stem Cell Research and Therapy, 2014, 5, 111.	2.4	82
30	iPSC Transplantation Increases Regeneration and Functional Recovery After Ischemic Stroke in Neonatal Rats. Stem Cells, 2014, 32, 3075-3087.	1.4	79
31	Intranasal Delivery of Bone Marrow Mesenchymal Stem Cells Improved Neurovascular Regeneration and Rescued Neuropsychiatric Deficits after Neonatal Stroke in Rats. Cell Transplantation, 2015, 24, 391-402.	1.2	77
32	Protective effect of apelin on cultured rat bone marrow mesenchymal stem cells against apoptosis. Stem Cell Research, 2012, 8, 357-367.	0.3	71
33	Chinese population exposure to triclosan and triclocarban as measured via human urine and nails. Environmental Geochemistry and Health, 2016, 38, 1125-1135.	1.8	70
34	Triclosan/triclocarban levels in maternal and umbilical blood samples and their association with fetal malformation. Clinica Chimica Acta, 2017, 466, 133-137.	0.5	70
35	Vector-Free and Transgene-Free Human iPS Cells Differentiate into Functional Neurons and Enhance Functional Recovery after Ischemic Stroke in Mice. PLoS ONE, 2013, 8, e64160.	1.1	69
36	Restoration of Intracortical and Thalamocortical Circuits after Transplantation of Bone Marrow Mesenchymal Stem Cells into the Ischemic Brain of Mice. Cell Transplantation, 2013, 22, 2001-2015.	1.2	68

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37	Optochemogenetic Stimulation of Transplanted iPS-NPCs Enhances Neuronal Repair and Functional Recovery after Ischemic Stroke. Journal of Neuroscience, 2019, 39, 6571-6594.	1.7	67
38	Neuroprotective and regenerative roles of intranasal Wnt-3a administration after focal ischemic stroke in mice. Journal of Cerebral Blood Flow and Metabolism, 2018, 38, 404-421.	2.4	66
39	Enhanced neurogenesis and cell migration following focal ischemia and peripheral stimulation in mice. Developmental Neurobiology, 2008, 68, 1474-1486.	1.5	62
40	Erythropoietin ameliorates early brain injury after subarachnoid haemorrhage by modulating microglia polarization via the EPOR/JAK2-STAT3 pathway. Experimental Cell Research, 2017, 361, 342-352.	1.2	62
41	Prolyl hydroxylase inhibitor dimethyloxalylglycine enhances mesenchymal stem cell survival. Journal of Cellular Biochemistry, 2009, 106, 903-911.	1.2	59
42	Therapeutic Effects of Pharmacologically Induced Hypothermia against Traumatic Brain Injury in Mice. Journal of Neurotrauma, 2014, 31, 1417-1430.	1.7	58
43	Optogenetic stimulation of glutamatergic neuronal activity in the striatum enhances neurogenesis in the subventricular zone of normal and stroke mice. Neurobiology of Disease, 2017, 98, 9-24.	2.1	58
44	Erythropoietin Prevents Blood Brain Barrier Damage Induced by Focal Cerebral Ischemia in Mice. Neurochemical Research, 2007, 32, 2132-2141.	1.6	56
45	DL-3-n-butylphthalide induced neuroprotection, regenerative repair, functional recovery and psychological benefits following traumatic brain injury in mice. Neurochemistry International, 2017, 111, 82-92.	1.9	55
46	Ministrokes in Rat Barrel Cortex. Stroke, 1995, 26, 1459-1462.	1.0	55
47	Pyruvate Kinase M2 Increases Angiogenesis, Neurogenesis, and Functional Recovery Mediated by Upregulation of STAT3 and Focal Adhesion Kinase Activities After Ischemic Stroke in Adult Mice. Neurotherapeutics, 2018, 15, 770-784.	2.1	51
48	Whisker Stimulation Enhances Angiogenesis in the Barrel Cortex following Focal Ischemia in Mice. Journal of Cerebral Blood Flow and Metabolism, 2007, 27, 57-68.	2.4	50
49	Pharmacologically induced hypothermia attenuates traumatic brain injury in neonatal rats. Experimental Neurology, 2015, 267, 135-142.	2.0	50
50	Longâ€term survival and regeneration of neuronal and vasculature cells inside the core region after ischemic stroke in adult mice. Brain Pathology, 2017, 27, 480-498.	2.1	49
51	The role of VEGF/VEGFR2 signaling in peripheral stimulation-induced cerebral neurovascular regeneration after ischemic stroke in mice. Experimental Brain Research, 2011, 214, 503-513.	0.7	45
52	Administration of low dose estrogen attenuates persistent inflammation, promotes angiogenesis, and improves locomotor function following chronic spinal cord injury in rats. Journal of Neurochemistry, 2016, 137, 604-617.	2.1	45
53	GSK-3Î² Inhibition Induced Neuroprotection, Regeneration, and Functional Recovery after Intracerebral Hemorrhagic Stroke. Cell Transplantation, 2017, 26, 395-407.	1.2	45
54	Angiogenesis and stem cell transplantation as potential treatments of cerebral ischemic stroke. Pathophysiology, 2005, 12, 47-62.	1.0	44

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55	Formation of Kv2.1â€FAK complex as a mechanism of FAK activation, cell polarization and enhanced motility. Journal of Cellular Physiology, 2008, 217, 544-557.	2.0	44
56	Intranasally Delivered Wnt3a Improves Functional Recovery after Traumatic Brain Injury by Modulating Autophagic, Apoptotic, and Regenerative Pathways in the Mouse Brain. Journal of Neurotrauma, 2018, 35, 802-813.	1.7	44
57	Delayed and repeated intranasal delivery of bone marrow stromal cells increases regeneration and functional recovery after ischemic stroke in mice. BMC Neuroscience, 2018, 19, 20.	0.8	43
58	Highly efficient differentiation of neural precursors from human embryonic stem cells and benefits of transplantation after ischemic stroke in mice. Stem Cell Research and Therapy, 2013, 4, 93.	2.4	42
59	Regulatory roles of the NMDA receptor GluN3A subunit in locomotion, pain perception and cognitive functions in adult mice. Journal of Physiology, 2013, 591, 149-168.	1.3	40
60	Protective effects of GPR37 <i>via</i> regulation of inflammation and multiple cell death pathways after ischemic stroke in mice. FASEB Journal, 2019, 33, 10680-10691.	0.2	39
61	Administration of low dose estrogen attenuates gliosis and protects neurons in acute spinal cord injury in rats. Journal of Neurochemistry, 2016, 136, 1064-1073.	2.1	38
62	Regulatory Role of the JNK-STAT1/3 Signaling in Neuronal Differentiation of Cultured Mouse Embryonic Stem Cells. Cellular and Molecular Neurobiology, 2014, 34, 881-893.	1.7	37
63	Neonatal inflammatory pain and systemic inflammatory responses as possible environmental factors in the development of autism spectrum disorder of juvenile rats. Journal of Neuroinflammation, 2016, 13, 109.	3.1	37
64	The Effect of Recombinant Human Erythropoietin on Neurovasculature Repair after Focal Ischemic Stroke in Neonatal Rats. Journal of Pharmacology and Experimental Therapeutics, 2007, 322, 521-528.	1.3	35
65	Mobilization of Endogenous Bone Marrow Derived Endothelial Progenitor Cells and Therapeutic Potential of Parathyroid Hormone after Ischemic Stroke in Mice. PLoS ONE, 2014, 9, e87284.	1.1	35
66	Sublethal Transient Global Ischemia Stimulates Migration of Neuroblasts and Neurogenesis in Mice. Translational Stroke Research, 2010, 1, 184-196.	2.3	34
67	Intracranial Transplantation of Hypoxia-Preconditioned iPSC-Derived Neural Progenitor Cells Alleviates Neuropsychiatric Defects after Traumatic Brain Injury in Juvenile Rats. Cell Transplantation, 2016, 25, 797-809.	1.2	34
68	Cortical Transplantation of Brainâ€Mimetic Glycosaminoglycan Scaffolds and Neural Progenitor Cells Promotes Vascular Regeneration and Functional Recovery after Ischemic Stroke in Mice. Advanced Healthcare Materials, 2020, 9, e1900285.	3.9	34
69	Ion Channels in Regulation of Neuronal Regenerative Activities. Translational Stroke Research, 2014, 5, 156-162.	2.3	30
70	Enhanced Neurogenesis and Collaterogenesis by Sodium Danshensu Treatment After Focal Cerebral Ischemia in Mice. Cell Transplantation, 2018, 27, 622-636.	1.2	29
71	Therapeutic Strategy of Erythropoietin in Neurological Disorders. CNS and Neurological Disorders - Drug Targets, 2008, 7, 227-234.	0.8	26
72	Improved Therapeutic Benefits by Combining Physical Cooling With Pharmacological Hypothermia After Severe Stroke in Rats. Stroke, 2016, 47, 1907-1913.	1.0	26

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73	Temporal Gene Expression Profiles after Focal Cerebral Ischemia in Mice. , 2018, 9, 249.		25
74	Combinatorial intranasal delivery of bone marrow mesenchymal stem cells and insulin-like growth factor-1 improves neurovascularization and functional outcomes following focal cerebral ischemia in mice. Experimental Neurology, 2021, 337, 113542.	2.0	24
75	Neuropsychological Deficits Chronically Developed after Focal Ischemic Stroke and Beneficial Effects of Pharmacological Hypothermia in the Mouse. , 2020, 11, 1.		23
76	Priming of the Cells: Hypoxic Preconditioning for Stem Cell Therapy. Chinese Medical Journal, 2017, 130, 2361-2374.	0.9	23
77	Expression of the NMDA receptor subunit GluN3A (NR3A) in the olfactory system and its regulatory role on olfaction in the adult mouse. Brain Structure and Function, 2016, 221, 3259-3273.	1.2	22
78	Conversion of Reactive Astrocytes to Induced Neurons Enhances Neuronal Repair and Functional Recovery After Ischemic Stroke. Frontiers in Aging Neuroscience, 2021, 13, 612856.	1.7	22
79	Transplantation of iPS cell-derived neural progenitors overexpressing SDF-1Î± increases regeneration and functional recovery after ischemic stroke. Oncotarget, 2017, 8, 97537-97553.	0.8	22
80	Expression of heparanase in vascular cells and astrocytes of the mouse brain after focal cerebral ischemia. Brain Research, 2012, 1433, 137-144.	1.1	21
81	A neuroprotective role of the NMDA receptor subunit GluN3A (NR3A) in ischemic stroke of the adult mouse. American Journal of Physiology - Cell Physiology, 2015, 308, C570-C577.	2.1	21
82	Delayed treatment of 6â€Bromoindirubinâ€3â€²â€oxime stimulates neurogenesis and functional recovery after focal ischemic stroke in mice. International Journal of Developmental Neuroscience, 2017, 57, 77-84.	0.7	20
83	Pathogenesis of sporadic Alzheimer's disease by deficiency of NMDA receptor subunit GluN3A. Alzheimer's and Dementia, 2022, 18, 222-239.	0.4	19
84	Potential role of KCNQ/M-channels in regulating neuronal differentiation in mouse hippocampal and embryonic stem cell-derived neuronal cultures. Experimental Neurology, 2011, 229, 471-483.	2.0	18
85	Pharmacological hypothermia induced neurovascular protection after severe stroke of transient middle cerebral artery occlusion in mice. Experimental Neurology, 2020, 325, 113133.	2.0	18
86	Erythropoietin Reduces Neuronal Cell Death and Hyperalgesia Induced by Peripheral Inflammatory Pain in Neonatal Rats. Molecular Pain, 2011, 7, 1744-8069-7-51.	1.0	17
87	Modulation of Stem Cells as Therapeutics for Severe Mental Disorders and Cognitive Impairments. Frontiers in Psychiatry, 2020, 11, 80.	1.3	17
88	Primed for lethal battle: A step forward to enhance the efficacy and efficiency of stem cell transplantation therapy. Journal of Thoracic and Cardiovascular Surgery, 2009, 138, 527.	0.4	16
89	Association between Leukoaraiosis and Symptomatic Intracranial Large Artery Stenoses and Occlusions: the Chinese Intracranial Atherosclerosis (CICAS) Study. , 2018, 9, 1074.		15
90	DPP-4 Inhibitor Linagliptin is Neuroprotective in Hyperglycemic Mice with Stroke via the AKT/mTOR Pathway and Anti-apoptotic Effects. Neuroscience Bulletin, 2020, 36, 407-418.	1.5	15

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91	DL-3-n-butylphthalide Increases Collateriogenesis and Functional Recovery after Focal Ischemic Stroke in Mice. , 2021, 12, 1835.		15
92	Regeneration after stroke: Stem cell transplantation and trophic factors. Brain Circulation, 2016, 2, 86.	0.7	15
93	Efficient neuronal differentiation of mouse ES and iPS cells using a rotary cell culture protocol. Differentiation, 2013, 86, 149-158.	1.0	11
94	Vascular protection and regenerative effects of intranasal DL-3-N-butylphthalide treatment after ischaemic stroke in mice. Stroke and Vascular Neurology, 2021, 6, 74-79.	1.5	11
95	Tuning Protein Dynamics to Sense Rapid Endoplasmicâ€Reticulum Calcium Dynamics. Angewandte Chemie - International Edition, 2021, 60, 23289-23298.	7.2	10
96	Early-life exposure to air pollutants and adverse pregnancy outcomes: protocol for a prospective cohort study in Beijing. BMJ Open, 2017, 7, e015895.	0.8	9
97	Pharmacokinetics and Toxicology of the Neuroprotective e,e,e-Methanofullerene(60)-63-tris Malonic AcidÂ[C3] in Mice and Primates. European Journal of Drug Metabolism and Pharmacokinetics, 2018, 43, 543-554.	0.6	9
98	Honokiol for the Treatment of Neonatal Pain and Prevention of Consequent Neurobehavioral Disorders. Journal of Natural Products, 2015, 78, 2531-2536.	1.5	8
99	Longitudinal MRI evaluation of neuroprotective effects of pharmacologically induced hypothermia in experimental ischemic stroke. Magnetic Resonance Imaging, 2017, 40, 24-30.	1.0	8
100	Improved trafficking and expression of luminopsins for more efficient optical and pharmacological control of neuronal activity. Journal of Neuroscience Research, 2020, 98, 481-490.	1.3	8
101	Establishment of a risk assessment tool for pregnancy-associated venous thromboembolism and its clinical application: protocol for a prospective observational study in Beijing. BMC Pregnancy and Childbirth, 2019, 19, 294.	0.9	7
102	Glial Cell-Based Vascular Mechanisms and Transplantation Therapies in Brain Vessel and Neurodegenerative Diseases. Frontiers in Cellular Neuroscience, 2021, 15, 627682.	1.8	7
103	GPR37 modulates progenitor cell dynamics in a mouse model of ischemic stroke. Experimental Neurology, 2021, 342, 113719.	2.0	5
104	Hypoxia-Primed Stem Cell Transplantation in Stroke. Springer Series in Translational Stroke Research, 2019, , 9-26.	0.1	3
105	Cellular Therapy for Ischemic Stroke. , 2012, , 777-814.		1
106	N-methyl-D-aspartate receptor subtype 3A promotes apoptosis in developing mouse brain exposed to hyperoxia. Neural Regeneration Research, 2012, 7, 273-7.	1.6	0