

Ming Xiao

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92
papers

3,132
citations

32
h-index

53
g-index

104
ext. papers

3,956
ext. citations

5.4
avg, IF

5.29
L-index

#	Paper	IF	Citations
92	Aquaporin-4-dependent glymphatic solute transport in the rodent brain. <i>ELife</i> , 2018 , 7,	8.9	206
91	Deletion of aquaporin-4 in APP/PS1 mice exacerbates brain A β accumulation and memory deficits. <i>Molecular Neurodegeneration</i> , 2015 , 10, 58	19	191
90	Role of RAGE in Alzheimer's Disease. <i>Cellular and Molecular Neurobiology</i> , 2016 , 36, 483-95	4.6	152
89	Impairments of astrocytes are involved in the d-galactose-induced brain aging. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 369, 1082-7	3.4	109
88	Altered blood-brain barrier integrity in adult aquaporin-4 knockout mice. <i>NeuroReport</i> , 2008 , 19, 1-5	1.7	105
87	Dimethyl sulfoxide damages mitochondrial integrity and membrane potential in cultured astrocytes. <i>PLoS ONE</i> , 2014 , 9, e107447	3.7	96
86	Blocking meningeal lymphatic drainage aggravates Parkinson's disease-like pathology in mice overexpressing mutated β synuclein. <i>Translational Neurodegeneration</i> , 2019 , 8, 7	10.3	88
85	Long-term D-galactose injection combined with ovariectomy serves as a new rodent model for Alzheimer's disease. <i>Life Sciences</i> , 2007 , 80, 1897-905	6.8	88
84	Exosome-mediated targeted delivery of miR-210 for angiogenic therapy after cerebral ischemia in mice. <i>Journal of Nanobiotechnology</i> , 2019 , 17, 29	9.4	87
83	Activation of mTOR: a culprit of Alzheimer's disease?. <i>Neuropsychiatric Disease and Treatment</i> , 2015 , 11, 1015-30	3.1	81
82	Requirement of AQP4 for antidepressive efficiency of fluoxetine: implication in adult hippocampal neurogenesis. <i>Neuropsychopharmacology</i> , 2009 , 34, 1263-76	8.7	79
81	Human adult olfactory neural progenitors rescue axotomized rodent rubrospinal neurons and promote functional recovery. <i>Experimental Neurology</i> , 2005 , 194, 12-30	5.7	69
80	Oligodendrocytes and Alzheimer's disease. <i>International Journal of Neuroscience</i> , 2016 , 126, 97-104	2	64
79	Dopamine D2 receptor restricts astrocytic NLRP3 inflammasome activation via enhancing the interaction of β arrestin2 and NLRP3. <i>Cell Death and Differentiation</i> , 2018 , 25, 2037-2049	12.7	63
78	Aquaporin-4 mediates astrocyte response to β amyloid. <i>Molecular and Cellular Neurosciences</i> , 2012 , 49, 406-14	4.8	61
77	Aquaporin-4 maintains ependymal integrity in adult mice. <i>Neuroscience</i> , 2009 , 162, 67-77	3.9	57
76	Ginkgolide B Protects Against Ischemic Stroke Via Modulating Microglia Polarization in Mice. <i>CNS Neuroscience and Therapeutics</i> , 2016 , 22, 729-39	6.8	56

75	Deep cervical lymph node ligation aggravates AD-like pathology of APP/PS1 mice. <i>Brain Pathology</i> , 2019 , 29, 176-192	6	54
74	Involvement of aquaporin 4 in astrocyte function and neuropsychiatric disorders. <i>CNS Neuroscience and Therapeutics</i> , 2014 , 20, 385-90	6.8	50
73	Cerebral small vessel disease and Alzheimer's disease. <i>Clinical Interventions in Aging</i> , 2015 , 10, 1695-704	4	49
72	Persistent Malfunction of Glymphatic and Meningeal Lymphatic Drainage in a Mouse Model of Subarachnoid Hemorrhage. <i>Experimental Neurobiology</i> , 2019 , 28, 104-118	4	48
71	An ethical solution to the challenges in teaching anatomy with dissection in the Chinese culture. <i>Anatomical Sciences Education</i> , 2008 , 1, 56-9	6.8	47
70	Human adult olfactory neural progenitors promote axotomized rubrospinal tract axonal reinnervation and locomotor recovery. <i>Neurobiology of Disease</i> , 2007 , 26, 363-74	7.5	43
69	Isolation Housing Exacerbates Alzheimer's Disease-Like Pathophysiology in Aged APP/PS1 Mice. <i>International Journal of Neuropsychopharmacology</i> , 2015 , 18, pyu116	5.8	41
68	Effects of a specially designed aerobic dance routine on mild cognitive impairment. <i>Clinical Interventions in Aging</i> , 2018 , 13, 1691-1700	4	41
67	The influence of gender, age and treatment time on brain oxidative stress and memory impairment induced by D-galactose in mice. <i>Neuroscience Letters</i> , 2014 , 571, 45-9	3.3	40
66	Characterization of AD-like phenotype in aged APPSwe/PS1dE9 mice. <i>Age</i> , 2016 , 38, 303-322		39
65	Pyridoxine induces glutathione synthesis via PKM2-mediated Nrf2 transactivation and confers neuroprotection. <i>Nature Communications</i> , 2020 , 11, 941	17.4	36
64	Chronic systemic injection of D-galactose impairs the septohippocampal cholinergic system in rats. <i>NeuroReport</i> , 2008 , 19, 1611-5	1.7	36
63	AEG-1/MTDH-activated autophagy enhances human malignant glioma susceptibility to TGF- β -triggered epithelial-mesenchymal transition. <i>Oncotarget</i> , 2016 , 7, 13122-38	3.3	34
62	An overview of the roles and responsibilities of Chinese medical colleges in body donation programs. <i>Anatomical Sciences Education</i> , 2014 , 7, 312-20	6.8	33
61	Baicalein Attenuates Neuroinflammation by Inhibiting NLRP3/caspase-1/GSDMD Pathway in MPTP Induced Mice Model of Parkinson's Disease. <i>International Journal of Neuropsychopharmacology</i> , 2020 ,	5.8	33
60	Aquaporin-4 deficiency exacerbates brain oxidative damage and memory deficits induced by long-term ovarian hormone deprivation and D-galactose injection. <i>International Journal of Neuropsychopharmacology</i> , 2012 , 15, 55-68	5.8	32
59	The distribution of neural nitric oxide synthase-positive cerebrospinal fluid-contacting neurons in the third ventricular wall of male rats and coexistence with vasopressin or oxytocin. <i>Brain Research</i> , 2005 , 1038, 150-62	3.7	32
58	Exosomes: a novel therapeutic target for Alzheimer's disease?. <i>Neural Regeneration Research</i> , 2018 , 13, 930-935	4.5	32

57	Fluoxetine protects against IL-1 β -induced neuronal apoptosis via downregulation of p53. <i>Neuropharmacology</i> , 2016 , 107, 68-78	5.5	32
56	Assessment of mouse cognitive and anxiety-like behaviors and hippocampal inflammation following a repeated and intermittent paradoxical sleep deprivation procedure. <i>Behavioural Brain Research</i> , 2017 , 321, 69-78	3.4	31
55	Aerobic exercise combined with antioxidative treatment does not counteract moderate- or mid-stage Alzheimer-like pathophysiology of APP/PS1 mice. <i>CNS Neuroscience and Therapeutics</i> , 2013 , 19, 795-803	6.8	31
54	Voluntary exercise counteracts A β 5-35-induced memory impairment in mice. <i>Behavioural Brain Research</i> , 2013 , 256, 618-25	3.4	30
53	Aquaporins in Nervous System. <i>Advances in Experimental Medicine and Biology</i> , 2017 , 969, 81-103	3.6	29
52	Minocycline upregulates cyclic AMP response element binding protein and brain-derived neurotrophic factor in the hippocampus of cerebral ischemia rats and improves behavioral deficits. <i>Neuropsychiatric Disease and Treatment</i> , 2015 , 11, 507-16	3.1	29
51	Aquaporin-4 mitigates retrograde degeneration of rubrospinal neurons by facilitating edema clearance and glial scar formation after spinal cord injury in mice. <i>Molecular Neurobiology</i> , 2014 , 49, 1327-37	6.2	29
50	Differentiation of Transformed Bipolar Disorder From Unipolar Depression by Resting-State Functional Connectivity Within Reward Circuit. <i>Frontiers in Psychology</i> , 2018 , 9, 2586	3.4	26
49	Disruption of neuronal-glia-vascular units in the hippocampus of ovariectomized mice injected with D-galactose. <i>Neuroscience</i> , 2010 , 169, 596-608	3.9	25
48	Chronic Cerebral Hypoperfusion Promotes Amyloid-Beta Pathogenesis via Activating β -Secretases. <i>Neurochemical Research</i> , 2017 , 42, 3446-3455	4.6	22
47	Administration of exogenous 1,25(OH) $_2$ D $_3$ normalizes overactivation of the central renin-angiotensin system in 1 α (OH)ase knockout mice. <i>Neuroscience Letters</i> , 2015 , 588, 184-9	3.3	22
46	Brain mitochondrial dysfunction in ovariectomized mice injected with D-galactose. <i>Neurochemical Research</i> , 2010 , 35, 399-404	4.6	22
45	Pathological and biochemical alterations of astrocytes in ovariectomized rats injected with D-galactose: a potential contribution to Alzheimer's disease processes. <i>Experimental Neurology</i> , 2008 , 210, 709-18	5.7	22
44	Deletion of aquaporin-4 aggravates brain pathology after blocking of the meningeal lymphatic drainage. <i>Brain Research Bulletin</i> , 2018 , 143, 83-96	3.9	22
43	Early enriched physical environment reverses impairments of the hippocampus, but not medial prefrontal cortex, of socially-isolated mice. <i>Brain, Behavior, and Immunity</i> , 2017 , 64, 232-243	16.6	21
42	Aquaporin-4 expression contributes to decreases in brain water content during mouse postnatal development. <i>Brain Research Bulletin</i> , 2013 , 94, 49-55	3.9	19
41	Metabolic Dysfunction of Astrocyte: An Initiating Factor in Beta-amyloid Pathology? 2013 , 1, 7-14		19
40	Calcium sensing receptor absence delays postnatal brain development via direct and indirect mechanisms. <i>Molecular Neurobiology</i> , 2013 , 48, 590-600	6.2	18

39	Microglia prevent beta-amyloid plaque formation in the early stage of an Alzheimer's disease mouse model with suppression of glymphatic clearance. <i>Alzheimer's Research and Therapy</i> , 2020 , 12, 125	9	18
38	Home quarantine or centralized quarantine, which is more conducive to fighting COVID-19 pandemic?. <i>Brain, Behavior, and Immunity</i> , 2020 , 87, 142-143	16.6	17
37	IL-7 suppresses macrophage autophagy and promotes liver pathology in <i>Schistosoma japonicum</i> -infected mice. <i>Journal of Cellular and Molecular Medicine</i> , 2018 , 22, 3353-3363	5.6	17
36	Aquaporin 4 deletion exacerbates brain impairments in a mouse model of chronic sleep disruption. <i>CNS Neuroscience and Therapeutics</i> , 2020 , 26, 228-239	6.8	17
35	Pro- and Anti-inflammatory Effects of High Cholesterol Diet on Aged Brain 2018 , 9, 374-390		15
34	Kir6.2 Deficiency Promotes Mesencephalic Neural Precursor Cell Differentiation via Regulating miR-133b/GDNF in a Parkinson's Disease Mouse Model. <i>Molecular Neurobiology</i> , 2018 , 55, 8550-8562	6.2	14
33	Expression and colocalization of NADPH-diaphorase and Fos in the subnuclei of the parabrachial nucleus in rats following visceral noxious stimulation. <i>Brain Research</i> , 2006 , 1114, 41-52	3.7	14
32	Bmi-1 absence causes premature brain degeneration. <i>PLoS ONE</i> , 2012 , 7, e32015	3.7	14
31	Enriched Physical Environment Attenuates Spatial and Social Memory Impairments of Aged Socially Isolated Mice. <i>International Journal of Neuropsychopharmacology</i> , 2018 , 21, 1114-1127	5.8	14
30	Astroglial water channel aquaporin 4-mediated glymphatic clearance function: A determined factor for time-sensitive treatment of aerobic exercise in patients with Alzheimer's disease. <i>Medical Hypotheses</i> , 2018 , 119, 18-21	3.8	13
29	A high cholesterol diet ameliorates hippocampus-related cognitive and pathological deficits in ovariectomized mice. <i>Behavioural Brain Research</i> , 2012 , 230, 251-8	3.4	13
28	Acute baroreceptor unloading evokes Fos expression in anesthetized rat brain. <i>Brain Research Bulletin</i> , 2008 , 76, 63-9	3.9	12
27	Cellular localization of aquaporin-1 in the human and mouse trigeminal systems. <i>PLoS ONE</i> , 2012 , 7, e46379		12
26	Aquaporin 4 in Astrocytes is a Target for Therapy in Alzheimer's Disease. <i>Current Pharmaceutical Design</i> , 2017 , 23, 4948-4957	3.3	12
25	Heterozygous knockout of the Bmi-1 gene causes an early onset of phenotypes associated with brain aging. <i>Age</i> , 2014 , 36, 129-39		11
24	Nitric oxide mediates feedback inhibition in angiotensin II-induced upregulation of vasopressin mRNA. <i>Peptides</i> , 2009 , 30, 913-7	3.8	11
23	Depressive- and anxiety-like phenotypes in young adult APP/PS1 transgenic mice with insensitivity to chronic mild stress. <i>Behavioural Brain Research</i> , 2018 , 353, 114-123	3.4	10
22	Pretraining affects Morris water maze performance with different patterns between control and ovariectomized plus D-galactose-injected mice. <i>Behavioural Brain Research</i> , 2011 , 217, 244-7	3.4	10

21	Astrocyte activation but not neuronal impairment occurs in the hippocampus of mice after 2 weeks of d-galactose exposure. <i>Life Sciences</i> , 2011 , 89, 355-63	6.8	10
20	Gas release systematics of mineral-hosted fluid inclusions during stepwise crushing: implications for ⁴⁰ Ar/ ³⁹ Ar geochronology of hydrothermal fluids. <i>Geochimica Et Cosmochimica Acta</i> , 2019 , 251, 36-55	5.5	10
19	Evidence of Early Cretaceous lower arc crust delamination and its role in the opening of the South China Sea. <i>Gondwana Research</i> , 2019 , 76, 123-145	5.1	8
18	Enriched physical environment reverses spatial cognitive impairment of socially isolated APPswe/PS1dE9 transgenic mice before amyloidosis onset. <i>CNS Neuroscience and Therapeutics</i> , 2018 , 24, 202-211	6.8	6
17	Systemic inflammasome activation and pyroptosis associate with the progression of amnesic mild cognitive impairment and Alzheimer's disease. <i>Journal of Neuroinflammation</i> , 2021 , 18, 280	10.1	5
16	Aquaporin-4 dependent glymphatic solute transport in rodent brain		5
15	Author response: Aquaporin-4-dependent glymphatic solute transport in the rodent brain 2018 ,		4
14	Aquaporin 4 knockout increases complete Freund's adjuvant-induced spinal central sensitization. <i>Brain Research Bulletin</i> , 2020 , 156, 58-66	3.9	3
13	Hypothesis: multiple factors are associated with the lack of any beneficial effects of oestrogen-replacement therapy in the late postmenopausal stage. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2010 , 37, 873-6	3	3
12	The dynamic distribution of fluoro-gold and its interrelation with neural nitric oxide synthase following intracerebroventricular injection into rat brain. <i>Biotechnic and Histochemistry</i> , 2006 , 81, 41-50	1.8	3
11	Different Expression Patterns of Amyloid-β Protein Precursor Secretases in Human and Mouse Hippocampal Neurons: A Potential Contribution to Species Differences in Neuronal Susceptibility to Amyloid-β Pathogenesis. <i>Journal of Alzheimer's Disease</i> , 2016 , 51, 179-95	4.3	3
10	Prenatal ethanol exposure does not cause neurological alterations in adult CD1 mice. <i>NeuroReport</i> , 2013 , 24, 196-201	1.7	1
9	Aquaporin 4 deficiency eliminates the beneficial effects of voluntary exercise in a mouse model of Alzheimer's disease. <i>Neural Regeneration Research</i> , 2022 , 17, 2079-2088	4.5	1
8	Anxiety-like but not despair-like behaviors are further aggravated by chronic mild stress in the early stages of APPswe/PS1dE9 transgenic mice		1
7	Gait Kinematic and Kinetic Characteristics of Older Adults With Mild Cognitive Impairment and Subjective Cognitive Decline: A Cross-Sectional Study. <i>Frontiers in Aging Neuroscience</i> , 2021 , 13, 664558	5.3	1
6	The Feasibility of Targeted Magnetic Iron Oxide Nanoagent for Noninvasive IgA Nephropathy Diagnosis. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 755692	5.8	0
5	Effects of Repetitive Transcranial Magnetic Stimulation (rTMS) and Treadmill Training on Recovery of Motor Function in a Rat Model of Partial Spinal Cord Injury. <i>Medical Science Monitor</i> , 2021 , 27, e931601-2	3.2	0
4	Single-molecule telomere length characterization by optical mapping in nano-channel array: Perspective and review on telomere length measurement. <i>Environmental Toxicology and Pharmacology</i> , 2021 , 82, 103562	5.8	0

3	Effect of 3-Month Aerobic Dance on Hippocampal Volume and Cognition in Elderly People With Amnesic Mild Cognitive Impairment: A Randomized Controlled Trial.. <i>Frontiers in Aging Neuroscience</i> , 2022 , 14, 771413	5.3	o
2	Combination of repetitive transcranial magnetic stimulation and treadmill training reduces hyperreflexia by rebalancing motoneuron excitability in rats after spinal cord contusion.. <i>Neuroscience Letters</i> , 2022 , 136536	3.3	o
1	Increased endogenous reactive oxygen species normalizes proliferation defects of Bmi1 heterozygous knockout neural stem cells. <i>NeuroReport</i> , 2021 , 32, 1388-1394	1.7	