

# Jun Cai

## List of Publications by Year in descending order

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71  
papers

3,487  
citations

136950

32  
h-index

144013

57  
g-index

72  
all docs

72  
docs citations

72  
times ranked

4538  
citing authors

#	ARTICLE	IF	CITATIONS
1	Generation of Oligodendrocyte Precursor Cells from Mouse Dorsal Spinal Cord Independent of Nkx6 Regulation and Shh Signaling. <i>Neuron</i> , 2005, 45, 41-53.	8.1	305
2	Control of oligodendrocyte differentiation by the <i>Nkx2.2</i> homeodomain transcription factor. <i>Development (Cambridge)</i> , 2001, 128, 2723-2733.	2.5	303
3	Current approaches to enhance CNS delivery of drugs across the brain barriers. <i>International Journal of Nanomedicine</i> , 2014, 9, 2241.	6.7	246
4	Dual origin of spinal oligodendrocyte progenitors and evidence for the cooperative role of <i>Olig2</i> and <i>Nkx2.2</i> in the control of oligodendrocyte differentiation. <i>Development (Cambridge)</i> , 2002, 129, 681-693.	2.5	184
5	Induction of oligodendrocyte differentiation by <i>Olig2</i> and <i>Sox10</i> : Evidence for reciprocal interactions and dosage-dependent mechanisms. <i>Developmental Biology</i> , 2007, 302, 683-693.	2.0	159
6	Increased production of reactive oxygen species contributes to motor neuron death in a compression mouse model of spinal cord injury. <i>Spinal Cord</i> , 2005, 43, 204-213.	1.9	130
7	A Genome-Wide Screen for Spatially Restricted Expression Patterns Identifies Transcription Factors That Regulate Glial Development. <i>Journal of Neuroscience</i> , 2009, 29, 11399-11408.	3.6	117
8	Reciprocal Modulation Between Microglia and Astrocyte in Reactive Gliosis Following the CNS Injury. <i>Molecular Neurobiology</i> , 2013, 48, 690-701.	4.0	97
9	Current understanding of hexavalent chromium [Cr(VI)] neurotoxicity and new perspectives. <i>Environment International</i> , 2022, 158, 106877.	10.0	93
10	Gelatin nanostructured lipid carriers-mediated intranasal delivery of basic fibroblast growth factor enhances functional recovery in hemiparkinsonian rats. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014, 10, 755-764.	3.3	89
11	Co-localization of <i>Nkx6.2</i> and <i>Nkx2.2</i> homeodomain proteins in differentiated myelinating oligodendrocytes. <i>Glia</i> , 2010, 58, 458-468.	4.9	88
12	Molecular mapping of the origin of postnatal spinal cord ependymal cells: Evidence that adult ependymal cells are derived from <i>Nkx6.1</i> + ventral neural progenitor cells. <i>Journal of Comparative Neurology</i> , 2003, 456, 237-244.	1.6	83
13	Dual origin of spinal oligodendrocyte progenitors and evidence for the cooperative role of <i>Olig2</i> and <i>Nkx2.2</i> in the control of oligodendrocyte differentiation. <i>Development (Cambridge)</i> , 2002, 129, 681-93.	2.5	80
14	Endoplasmic reticulum stress-induced neuronal inflammatory response and apoptosis likely plays a key role in the development of diabetic encephalopathy. <i>Oncotarget</i> , 2016, 7, 78455-78472.	1.8	73
15	Selective Expression of <i>Nkx-2.2</i> Transcription Factor in Chicken Oligodendrocyte Progenitors and Implications for the Embryonic Origin of Oligodendrocytes. <i>Molecular and Cellular Neurosciences</i> , 2000, 16, 740-753.	2.2	64
16	Mouse intermittent hypoxia mimicking apnoea of prematurity: effects on myelinogenesis and axonal maturation. <i>Journal of Pathology</i> , 2012, 226, 495-508.	4.5	64
17	Traumatic Brain Injury Using Mouse Models. <i>Translational Stroke Research</i> , 2014, 5, 454-471.	4.2	60
18	Region-specific and stage-dependent regulation of <i>Olig</i> gene expression and oligodendrogenesis by <i>Nkx6.1</i> homeodomain transcription factor. <i>Development (Cambridge)</i> , 2003, 130, 6221-6231.	2.5	52

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19	Metallothionein deletion exacerbates intermittent hypoxia-induced renal injury in mice. <i>Toxicology Letters</i> , 2015, 232, 340-348.	0.8	52
20	Loss of Neuron-Astroglial Interaction Rapidly Induces Protective CNTF Expression after Stroke in Mice. <i>Journal of Neuroscience</i> , 2012, 32, 9277-9287.	3.6	51
21	Neuroimmunologic and Neurotrophic Interactions in Autism Spectrum Disorders: Relationship to Neuroinflammation. <i>NeuroMolecular Medicine</i> , 2018, 20, 161-173.	3.4	47
22	Induction of neuronal differentiation of adult human olfactory neuroepithelial-derived progenitors. <i>Brain Research</i> , 2006, 1073-1074, 109-119.	2.2	43
23	Metallothionein prevents intermittent hypoxia-induced cardiac endoplasmic reticulum stress and cell death likely via activation of Akt signaling pathway in mice. <i>Toxicology Letters</i> , 2014, 227, 113-123.	0.8	40
24	Current Understanding of Platelet-Activating Factor Signaling in Central Nervous System Diseases. <i>Molecular Neurobiology</i> , 2017, 54, 5563-5572.	4.0	40
25	Zinc rescues obesity-induced cardiac hypertrophy <i>via</i> stimulating metallothionein to suppress oxidative stress-activated BCL10/CARD9/p38 MAPK pathway. <i>Journal of Cellular and Molecular Medicine</i> , 2017, 21, 1182-1192.	3.6	39
26	Tcf7l2 is Tightly Controlled During Myelin Formation. <i>Cellular and Molecular Neurobiology</i> , 2012, 32, 345-352.	3.3	38
27	Probiotic culture supernatant improves metabolic function through FGF21-adiponectin pathway in mice. <i>Journal of Nutritional Biochemistry</i> , 2020, 75, 108256.	4.2	38
28	A neonatal mouse model of intermittent hypoxia associated with features of apnea in premature infants. <i>Respiratory Physiology and Neurobiology</i> , 2011, 178, 210-217.	1.6	37
29	CXCL12/CXCR4/CXCR7 Chemokine Axis in the Central Nervous System: Therapeutic Targets for Remyelination in Demyelinating Diseases. <i>Neuroscientist</i> , 2017, 23, 627-648.	3.5	37
30	Intermittent hypoxia-induced cardiomyopathy and its prevention by Nrf2 and metallothionein. <i>Free Radical Biology and Medicine</i> , 2017, 112, 224-239.	2.9	37
31	Use of magnetic stimulation to elicit motor evoked potentials, somatosensory evoked potentials, and H-reflexes in non-sedated rodents. <i>Journal of Neuroscience Methods</i> , 2007, 165, 9-17.	2.5	36
32	Induction of Oligodendrocytes From Adult Human Olfactory Epithelial-Derived Progenitors by Transcription Factors. <i>Stem Cells</i> , 2005, 23, 442-453.	3.2	35
33	Protective Effect of <i>Lactobacillus rhamnosus</i> GG and its Supernatant against Myocardial Dysfunction in Obese Mice Exposed to Intermittent Hypoxia is Associated with the Activation of Nrf2 Pathway. <i>International Journal of Biological Sciences</i> , 2019, 15, 2471-2483.	6.4	35
34	Molecular Cloning and Expression of Human Grap-2, a Novel Leukocyte-Specific SH2- and SH3-Containing Adaptor-like Protein That Binds to Gab-1. <i>Biochemical and Biophysical Research Communications</i> , 1998, 253, 443-447.	2.1	33
35	Dynamic response of microglia/macrophage polarization following demyelination in mice. <i>Journal of Neuroinflammation</i> , 2019, 16, 188.	7.2	33
36	Role of Transcription Factors in Motoneuron Differentiation of Adult Human Olfactory Neuroepithelial-Derived Progenitors. <i>Stem Cells</i> , 2006, 24, 434-442.	3.2	32

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37	Cardiac Response to Chronic Intermittent Hypoxia with a Transition from Adaptation to Maladaptation: <i>The Role of Hydrogen Peroxide</i> . <i>Oxidative Medicine and Cellular Longevity</i> , 2012, 2012, 1-12.	4.0	32
38	Intermittent Hypoxia-Induced Renal Antioxidants and Oxidative Damage in Male Mice: Hormetic dose Response. <i>Dose-Response</i> , 2013, 11, dose-response.1.	1.6	32
39	Evaluation of a Novel Thermosensitive Heparin-Poloxamer Hydrogel for Improving Vascular Anastomosis Quality and Safety in a Rabbit Model. <i>PLoS ONE</i> , 2013, 8, e73178.	2.5	30
40	Mice Lacking the Nkx6.2 ( Gtx ) Homeodomain Transcription Factor Develop and Reproduce Normally. <i>Molecular and Cellular Biology</i> , 2001, 21, 4399-4403.	2.3	26
41	Attenuated Reactive Gliosis and Enhanced Functional Recovery Following Spinal Cord Injury in Null Mutant Mice of Platelet-Activating Factor Receptor. <i>Molecular Neurobiology</i> , 2016, 53, 3448-3461.	4.0	26
42	Sulforaphane prevents right ventricular injury and reduces pulmonary vascular remodeling in pulmonary arterial hypertension. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 318, H853-H866.	3.2	26
43	Deletion of Metallothionein Exacerbates Intermittent Hypoxia-Induced Oxidative and Inflammatory Injury in Aorta. <i>Oxidative Medicine and Cellular Longevity</i> , 2014, 2014, 1-11.	4.0	25
44	Pathophysiological and behavioral deficits in developing mice following rotational acceleration-deceleration traumatic brain injury. <i>DMM Disease Models and Mechanisms</i> , 2018, 11, .	2.4	21
45	Nrf2 expression and function, but not MT expression, is indispensable for sulforaphane-mediated protection against intermittent hypoxia-induced cardiomyopathy in mice. <i>Redox Biology</i> , 2018, 19, 11-21.	9.0	20
46	Neuroprotective Effects of Adenosine A1 Receptor Signaling on Cognitive Impairment Induced by Chronic Intermittent Hypoxia in Mice. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 202.	3.7	20
47	Expression and regulation of the chicken Nkx-6.2 homeobox gene suggest its possible involvement in the ventral neural patterning and cell fate specification. , 1999, 216, 459-468.		19
48	Evidence for the differential regulation of Nkx-6.1 expression in the ventral spinal cord and foregut by Shh-dependent and -independent mechanisms. <i>Genesis</i> , 2000, 27, 6-11.	1.6	19
49	Thermosensitive heparin-poloxamer hydrogels enhance the effects of GDNF on neuronal circuit remodeling and neuroprotection after spinal cord injury. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 2816-2829.	4.0	18
50	Gli3 mutation rescues the generation, but not the differentiation, of oligodendrocytes in Shh mutants. <i>Brain Research</i> , 2006, 1067, 158-163.	2.2	17
51	Ultrasound-mediated strategies in opening brain barriers for drug brain delivery. <i>Expert Opinion on Drug Delivery</i> , 2013, 10, 987-1001.	5.0	16
52	A Compact Blast-Induced Traumatic Brain Injury Model in Mice. <i>Journal of Neuropathology and Experimental Neurology</i> , 2016, 75, 183-196.	1.7	15
53	Potential crosstalk between sonic hedgehog-WNT signaling and neurovascular molecules: Implications for blood-brain barrier integrity in autism spectrum disorder. <i>Journal of Neurochemistry</i> , 2021, 159, 15-28.	3.9	15
54	Oligodendrocytes can be generated from the local ventricular and subventricular zones of embryonic chicken midbrain. <i>Developmental Brain Research</i> , 2003, 143, 161-165.	1.7	14

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55	Metallothionein as a compensatory component prevents intermittent hypoxia-induced cardiomyopathy in mice. <i>Toxicology and Applied Pharmacology</i> , 2014, 277, 58-66.	2.8	14
56	Activating adenosine A1 receptor accelerates PC12 cell injury via ADORA1/PKC/KATP pathway after intermittent hypoxia exposure. <i>Molecular and Cellular Biochemistry</i> , 2018, 446, 161-170.	3.1	13
57	Apolipoprotein E Mimetic Promotes Functional and Histological Recovery in Lysolecithin-Induced Spinal Cord Demyelination in Mice. <i>Journal of Neurology &amp; Neurophysiology</i> , 2013, s12, 10.	0.1	12
58	Diverse changes in myelin protein expression in rat brain after perinatal methadone exposure. <i>Acta Neurobiologiae Experimentalis</i> , 2020, 79, 367-373.	0.7	10
59	Sulforaphane Does Not Protect Right Ventricular Systolic and Diastolic Functions in Nrf2 Knockout Pulmonary Artery Hypertension Mice. <i>Cardiovascular Drugs and Therapy</i> , 2022, 36, 425-436.	2.6	8
60	Correlation between electrophysiological properties, morphological maturation, and olig gene changes during postnatal motor tract development. <i>Developmental Neurobiology</i> , 2013, 73, 713-722.	3.0	7
61	Metallothionein induction attenuates the progression of lung injury in mice exposed to long-term intermittent hypoxia. <i>Inflammation Research</i> , 2020, 69, 15-26.	4.0	7
62	Platelet-Activating Factor Deteriorates Lysophosphatidylcholine-Induced Demyelination Via Its Receptor-Dependent and -Independent Effects. <i>Molecular Neurobiology</i> , 2020, 57, 4069-4081.	4.0	7
63	Dynamic glial response and crosstalk in demyelination-remyelination and neurodegeneration processes. <i>Neural Regeneration Research</i> , 2021, 16, 1359.	3.0	7
64	Cellular and network-level adaptations to in utero methadone exposure along the ventral respiratory column in the neonate rat. <i>Experimental Neurology</i> , 2017, 287, 288-297.	4.1	6
65	Combination of Broccoli Sprout Extract and Zinc Provides Better Protection against Intermittent Hypoxia-Induced Cardiomyopathy Than Monotherapy in Mice. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-12.	4.0	5
66	Diverse changes in myelin protein expression in rat brain after perinatal methadone exposure. <i>Acta Neurobiologiae Experimentalis</i> , 2019, 79, 367-373.	0.7	3
67	Perinatal methadone exposure attenuates myelination and induces oligodendrocyte apoptosis in neonatal rat brain. <i>Experimental Biology and Medicine</i> , 2022, 247, 1067-1079.	2.4	3
68	Role of Nkx Homeodomain Factors in the Specification and Differentiation of Motor Neurons and Oligodendrocytes. , 2006, , 163-180.		0
69	CALCOCO2 silencing represents a potential molecular therapeutic target for glioma. <i>Archives of Medical Science</i> , 2020, , .	0.9	0
70	Abstract 79: Nrf2 Protects From Intermittent Hypoxia-induced Cardiomyopathy via Metallothionein-dependent and Independent Mechanisms. <i>Circulation Research</i> , 2015, 117, .	4.5	0
71	Neonatal opioid withdrawal syndrome disrupts the ventral swallow pattern generator in germline $\mu$ CaMP6F mouse. <i>FASEB Journal</i> , 2022, 36, .	0.5	0