

Xiaorong Liu

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

2,749
citations

218677

26
h-index

233421

45
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53
all docs

53
docs citations

53
times ranked

2929
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of Precise Maps in Visual Cortex Requires Patterned Spontaneous Activity in the Retina. <i>Neuron</i> , 2005, 48, 797-809.	8.1	263
2	Visual Receptive Field Properties of Neurons in the Superficial Superior Colliculus of the Mouse. <i>Journal of Neuroscience</i> , 2010, 30, 16573-16584.	3.6	191
3	Mesenchymal stem cell-derived extracellular vesicles and retinal ischemia-reperfusion. <i>Biomaterials</i> , 2019, 197, 146-160.	11.4	182
4	Angiopoietin receptor TEK mutations underlie primary congenital glaucoma with variable expressivity. <i>Journal of Clinical Investigation</i> , 2016, 126, 2575-2587.	8.2	175
5	A lymphatic defect causes ocular hypertension and glaucoma in mice. <i>Journal of Clinical Investigation</i> , 2014, 124, 4320-4324.	8.2	151
6	Orientation-selective Responses in the Mouse Lateral Geniculate Nucleus. <i>Journal of Neuroscience</i> , 2013, 33, 12751-12763.	3.6	120
7	Sustained Ocular Hypertension Induces Dendritic Degeneration of Mouse Retinal Ganglion Cells That Depends on Cell Type and Location. , 2013, 54, 1106.		111
8	Vesicular glutamate transporter 3 expression identifies glutamatergic amacrine cells in the rodent retina. <i>Journal of Comparative Neurology</i> , 2004, 477, 386-398.	1.6	95
9	Angiopoietin-1 is required for Schlemm's canal development in mice and humans. <i>Journal of Clinical Investigation</i> , 2017, 127, 4421-4436.	8.2	94
10	Selective Disruption of One Cartesian Axis of Cortical Maps and Receptive Fields by Deficiency in Ephrin-As and Structured Activity. <i>Neuron</i> , 2008, 57, 511-523.	8.1	81
11	Visual Function, Organization, and Development of the Mouse Superior Colliculus. <i>Annual Review of Vision Science</i> , 2018, 4, 239-262.	4.4	81
12	Neurons in the Most Superficial Lamina of the Mouse Superior Colliculus Are Highly Selective for Stimulus Direction. <i>Journal of Neuroscience</i> , 2015, 35, 7992-8003.	3.6	80
13	Retinal origin of direction selectivity in the superior colliculus. <i>Nature Neuroscience</i> , 2017, 20, 550-558.	14.8	79
14	Brain-Derived Neurotrophic Factor and TrkB Modulate Visual Experience-Dependent Refinement of Neuronal Pathways in Retina. <i>Journal of Neuroscience</i> , 2007, 27, 7256-7267.	3.6	77
15	Environmental Enrichment Rescues Binocular Matching of Orientation Preference in Mice that Have a Precocious Critical Period. <i>Neuron</i> , 2013, 80, 198-209.	8.1	65
16	Progressive Degeneration of Retinal and Superior Collicular Functions in Mice With Sustained Ocular Hypertension. , 2015, 56, 1971.		65
17	Retinal Ganglion Cell Loss is Delayed Following Optic Nerve Crush in NLRP3 Knockout Mice. <i>Scientific Reports</i> , 2016, 6, 20998.	3.3	59
18	Retinal TrkB receptors regulate neural development in the inner, but not outer, retina. <i>Molecular and Cellular Neurosciences</i> , 2008, 38, 431-443.	2.2	53

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19	Direction-Specific Disruption of Subcortical Visual Behavior and Receptive Fields in Mice Lacking the $\beta 2$ Subunit of Nicotinic Acetylcholine Receptor. <i>Journal of Neuroscience</i> , 2009, 29, 12909-12918.	3.6	50
20	Vesicular Glutamate Transporter 1 Is Required for Photoreceptor Synaptic Signaling But Not For Intrinsic Visual Functions. <i>Journal of Neuroscience</i> , 2007, 27, 7245-7255.	3.6	45
21	Long-Term Protection of Retinal Ganglion Cells and Visual Function by Brain-Derived Neurotrophic Factor in Mice With Ocular Hypertension. , 2016, 57, 3793.		43
22	Scotopic Visual Signaling in the Mouse Retina Is Modulated by High-Affinity Plasma Membrane Calcium Extrusion. <i>Journal of Neuroscience</i> , 2006, 26, 7201-7211.	3.6	41
23	Overexpression of Brain-Derived Neurotrophic Factor Protects Large Retinal Ganglion Cells After Optic Nerve Crush in Mice. <i>ENeuro</i> , 2017, 4, ENEURO.0331-16.2016.	1.9	41
24	Regulation of neonatal development of retinal ganglion cell dendrites by neurotrophin-3 overexpression. <i>Journal of Comparative Neurology</i> , 2009, 514, 449-458.	1.6	39
25	Different functional susceptibilities of mouse retinal ganglion cell subtypes to optic nerve crush injury. <i>Experimental Eye Research</i> , 2017, 162, 97-103.	2.6	39
26	Non-Centered Spike-Triggered Covariance Analysis Reveals Neurotrophin-3 as a Developmental Regulator of Receptive Field Properties of ON-OFF Retinal Ganglion Cells. <i>PLoS Computational Biology</i> , 2010, 6, e1000967.	3.2	38
27	Expression of calcium transporters in the retina of the tiger salamander (<i>Ambystoma tigrinum</i>). <i>Journal of Comparative Neurology</i> , 2004, 475, 463-480.	1.6	30
28	Subtype-dependent postnatal development of direction- and orientation-selective retinal ganglion cells in mice. <i>Journal of Neurophysiology</i> , 2014, 112, 2092-2101.	1.8	29
29	Nano-in-Nano dendrimer gel particles for efficient topical delivery of antiglaucoma drugs into the eye. <i>Chemical Engineering Journal</i> , 2021, 425, 130498.	12.7	27
30	Circadian Regulation of nocturnin Transcription by Phosphorylated CREB in <i>Xenopus</i> Retinal Photoreceptor Cells. <i>Molecular and Cellular Biology</i> , 2002, 22, 7501-7511.	2.3	25
31	Optical Detection of Early Damage in Retinal Ganglion Cells in a Mouse Model of Partial Optic Nerve Crush Injury. , 2016, 57, 5665.		25
32	Speckle reduction in visible-light optical coherence tomography using scan modulation. <i>Neurophotonics</i> , 2019, 6, 1.	3.3	24
33	Angiotensin-1 Knockout Mice as a Genetic Model of Open-Angle Glaucoma. <i>Translational Vision Science and Technology</i> , 2020, 9, 16.	2.2	22
34	Multimodal photoacoustic ophthalmoscopy in mouse. <i>Journal of Biophotonics</i> , 2013, 6, 505-512.	2.3	21
35	Gene dosage manipulation alleviates manifestations of hereditary <i>PAX6</i> haploinsufficiency in mice. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	19
36	Detection of Visual Deficits in Aging DBA/2J Mice by Two Behavioral Assays. <i>Current Eye Research</i> , 2011, 36, 481-491.	1.5	18

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37	Genetic disruption of the On visual pathway affects cortical orientation selectivity and contrast sensitivity in mice. <i>Journal of Neurophysiology</i> , 2014, 111, 2276-2286.	1.8	18
38	Overexpression of Neurotrophin-3 Stimulates a Second Wave of Dopaminergic Amacrine Cell Genesis after Birth in the Mouse Retina. <i>Journal of Neuroscience</i> , 2011, 31, 12663-12673.	3.6	17
39	In Vivo Sublayer Analysis of Human Retinal Inner Plexiform Layer Obtained by Visible-Light Optical Coherence Tomography. , 2022, 63, 18.		17
40	A Laser-induced Mouse Model of Chronic Ocular Hypertension to Characterize Visual Defects. <i>Journal of Visualized Experiments</i> , 2013, , .	0.3	16
41	Visible-Light Optical Coherence Tomography Fibergraphy for Quantitative Imaging of Retinal Ganglion Cell Axon Bundles. <i>Translational Vision Science and Technology</i> , 2020, 9, 11.	2.2	14
42	Selective permeability of mouse blood-aqueous barrier as determined by ¹⁵ N-heavy isotope tracing and mass spectrometry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9032-9037.	7.1	13
43	Subtype-dependent Morphological and Functional Degeneration of Retinal Ganglion Cells in Mouse Models of Experimental Glaucoma. <i>Journal of Nature and Science</i> , 2015, 1, e103.	1.1	11
44	NLRP3 inflammasome in retinal ganglion cell loss in optic neuropathy. <i>Neural Regeneration Research</i> , 2016, 11, 1077.	3.0	9
45	Differential effects of experimental glaucoma on intrinsically photosensitive retinal ganglion cells in mice. <i>Journal of Comparative Neurology</i> , 2022, 530, 1494-1506.	1.6	9
46	In vivo imaging of the inner retinal layer structure in mice after eye-opening using visible-light optical coherence tomography. <i>Experimental Eye Research</i> , 2021, 211, 108756.	2.6	8
47	Global and Regional Damages in Retinal Ganglion Cell Axon Bundles Monitored Non-Invasively by Visible-Light Optical Coherence Tomography Fibergraphy. <i>Journal of Neuroscience</i> , 2021, 41, 10179-10193.	3.6	8
48	Long-term retinal protection by MEK inhibition in Pax6 haploinsufficiency mice. <i>Experimental Eye Research</i> , 2022, 218, 109012.	2.6	5
49	Correlation between retinal ganglion cell loss and nerve crush force-impulse established with instrumented tweezers in mice. <i>Neurological Research</i> , 2020, 42, 379-386.	1.3	4
50	A standardized crush tool to produce consistent retinal ganglion cell damage in mice. <i>Neural Regeneration Research</i> , 2021, 16, 1442.	3.0	1