Xiangning Li

List of Publications by Year in descending order

72 papers	3,276 citations	304743 22 h-index	189892 50 g-index
80 all docs	80 docs citations	80 times ranked	4109 citing authors

#	Article	IF	Citations
1	Repeated Stress Causes Cognitive Impairment by Suppressing Glutamate Receptor Expression and Function in Prefrontal Cortex. Neuron, 2012, 73, 962-977.	8.1	456
2	A multimodal cell census and atlas of the mammalian primary motor cortex. Nature, 2021, 598, 86-102.	27.8	316
3	High-throughput dual-colour precision imaging for brain-wide connectome with cytoarchitectonic landmarks at the cellular level. Nature Communications, 2016, 7, 12142.	12.8	295
4	Generation of a whole-brain atlas for the cholinergic system and mesoscopic projectome analysis of basal forebrain cholinergic neurons. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 415-420.	7.1	241
5	Morphological diversity of single neurons in molecularly defined cell types. Nature, 2021, 598, 174-181.	27.8	180
6	Precise Cerebral Vascular Atlas in Stereotaxic Coordinates of Whole Mouse Brain. Frontiers in Neuroanatomy, 2017, 11, 128.	1.7	176
7	A whole-brain map of long-range inputs to GABAergic interneurons in the mouse medial prefrontal cortex. Nature Neuroscience, 2019, 22, 1357-1370.	14.8	132
8	The mouse corticoâ€“basal gangliaâ€“thalamic network. Nature, 2021, 598, 188-194.	27.8	126
9	Cellular anatomy of the mouse primary motor cortex. Nature, 2021, 598, 159-166.	27.8	117
10	A Quantitative Analysis of the Distribution of CRH Neurons in Whole Mouse Brain. Frontiers in Neuroanatomy, 2017, 11, 63.	1.7	86
11	High-definition imaging using line-illumination modulation microscopy. Nature Methods, 2021, 18, 309-315.	19.0	76
12	Prefrontal Cortex Corticotropin-Releasing Factor Neurons Control Behavioral Style Selection under Challenging Situations. Neuron, 2020, 106, 301-315.e7.	8.1	69
13	A corticopontine circuit for initiation of urination. Nature Neuroscience, 2018, 21, 1541-1550.	14.8	62
14	Ventral Hippocampal-Prefrontal Interaction Affects Social Behavior via Parvalbumin Positive Neurons in the Medial Prefrontal Cortex. IScience, 2020, 23, 100894.	4.1	60
15	GIT1 and Î²PIX Are Essential for GABA A Receptor Synaptic Stability and Inhibitory Neurotransmission. Cell Reports, 2014, 9, 298-310.	6.4	56
16	RTF: a rapid and versatile tissue optical clearing method. Scientific Reports, 2018, 8, 1964.	3.3	53
17	TDat: An Efficient Platform for Processing Petabyte-Scale Whole-Brain Volumetric Images. Frontiers in Neural Circuits, 2017, 11, 51.	2.8	52
18	MACS: Rapid Aqueous Clearing System for 3D Mapping of Intact Organs. Advanced Science, 2020, 7, 1903185.	11.2	52

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19	Characterization of synchronized bursts in cultured hippocampal neuronal networks with learning training on microelectrode arrays. Biosensors and Bioelectronics, 2007, 22, 2976-2982.	10.1	41
20	Visible rodent brain-wide networks at single-neuron resolution. Frontiers in Neuroanatomy, 2015, 9, 70.	1.7	36
21	Long-term recording on multi-electrode array reveals degraded inhibitory connection in neuronal network development. Biosensors and Bioelectronics, 2007, 22, 1538-1543.	10.1	34
22	Acetylcholine deficiency disrupts extratelencephalic projection neurons in the prefrontal cortex in a mouse model of Alzheimerâ€™s disease. Nature Communications, 2022, 13, 998.	12.8	28
23	A platform for efficient identification of molecular phenotypes of brain-wide neural circuits. Scientific Reports, 2017, 7, 13891.	3.3	27
24	Whole Brain Mapping of Long-Range Direct Input to Glutamatergic and GABAergic Neurons in Motor Cortex. Frontiers in Neuroanatomy, 2019, 13, 44.	1.7	26
25	Developing neuronal networks: Self-organized criticality predicts the future. Scientific Reports, 2013, 3, 1081.	3.3	23
26	In Vivo Visualization of Tumor Antigen-containing Microparticles Generated in Fluorescent-protein-elicited Immunity. Theranostics, 2016, 6, 1453-1466.	10.0	23
27	Connectivity properties in the prefrontal cortex during working memory: a near-infrared spectroscopy study. Journal of Biomedical Optics, 2019, 24, 1.	2.6	22
28	Paraffin-embedding for large volume bio-tissue. Scientific Reports, 2020, 10, 12639.	3.3	20
29	Whole-brain connectivity atlas of glutamatergic and GABAergic neurons in the mouse dorsal and median raphe nuclei. ELife, 2021, 10, .	6.0	19
30	Dynamics of Learning in Cultured Neuronal Networks with Antagonists of Glutamate Receptors. Biophysical Journal, 2007, 93, 4151-4158.	0.5	18
31	Restoration of Glutamatergic Transmission by Dopamine D4 Receptors in Stressed Animals. Journal of Biological Chemistry, 2013, 288, 26112-26120.	3.4	17
32	Simultaneous Acquisition of Multicolor Information From Neural Circuits in Resin-Embedded Samples. Frontiers in Neuroscience, 2018, 12, 885.	2.8	17
33	Monitoring Calcium Concentration in Neurons with Cameleon. Journal of Bioscience and Bioengineering, 2008, 105, 106-109.	2.2	16
34	Maintenance of Fluorescence During Paraffin Embedding of Fluorescent Protein-Labeled Specimens. Frontiers in Neuroscience, 2019, 13, 752.	2.8	16
35	A Whole-brain Map of Long-range Inputs to GABAergic Interneurons in the Mouse Caudal Forelimb Area. Neuroscience Bulletin, 2020, 36, 493-505.	2.9	16
36	DeepBrainSeg: Automated Brain Region Segmentation for Micro-Optical Images With a Convolutional Neural Network. Frontiers in Neuroscience, 2020, 14, 179.	2.8	14

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37	Continuous subcellular resolution three-dimensional imaging on intact macaque brain. Science Bulletin, 2022, 67, 85-96.	9.0	14
38	Homeostatically regulated synchronized oscillations induced by short-term tetrodotoxin treatment in cultured neuronal network. BioSystems, 2009, 95, 61-66.	2.0	12
39	Whole-Brain Three-Dimensional Profiling Reveals Brain Region Specific Axon Vulnerability in 5xFAD Mouse Model. Frontiers in Neuroanatomy, 2020, 14, 608177.	1.7	12
40	DeepMapi: a Fully Automatic Registration Method for Mesoscopic Optical Brain Images Using Convolutional Neural Networks. Neuroinformatics, 2021, 19, 267-284.	2.8	12
41	An integrative analysis platform for multiple neural spike train data. Journal of Neuroscience Methods, 2008, 172, 303-311.	2.5	11
42	The generation of the synchronized burst in the cultured neuronal networks. , 2009, , .		11
43	Transient alterations in slow oscillations of hippocampal networks by low-frequency stimulations on multi-electrode arrays. Biomedical Microdevices, 2010, 12, 153-158.	2.8	9
44	Early-stage reduction of the dendritic complexity in basolateral amygdala of a transgenic mouse model of Alzheimer's disease. Biochemical and Biophysical Research Communications, 2017, 486, 679-685.	2.1	9
45	A Whole-Brain Connectivity Map of VTA and SNc Glutamatergic and GABAergic Neurons in Mice. Frontiers in Neuroanatomy, 2021, 15, 818242.	1.7	9
46	AIE-based fluorescent micro-optical sectioning tomography for automatic 3D mapping of Î²-amyloid plaques in Tg mouse whole brain. Chemical Engineering Journal, 2022, 446, 136840.	12.7	9
47	Restoration of FMRP expression in adult V1 neurons rescues visual deficits in a mouse model of fragile X syndrome. Protein and Cell, 2022, 13, 203-219.	11.0	7
48	Multiscale reconstruction of various vessels in the intact murine liver lobe. Communications Biology, 2022, 5, 260.	4.4	7
49	Whole-Brain Direct Inputs to and Axonal Projections from Excitatory and Inhibitory Neurons in the Mouse Primary Auditory Area. Neuroscience Bulletin, 2022, 38, 576-590.	2.9	7
50	Spatial-temporal dynamics of chaotic behavior in cultured hippocampal networks. Physical Review E, 2010, 81, 061903.	2.1	6
51	Pinpointing Morphology and Projection of Excitatory Neurons in Mouse Visual Cortex. Frontiers in Neuroscience, 2019, 13, 912.	2.8	6
52	A spatial and cellular distribution of rabies virus infection in the mouse brain revealed by fMOST and singleâ€cell RNA sequencing. Clinical and Translational Medicine, 2022, 12, e700.	4.0	6
53	The Mesoscopic Connectome of the Cholinergic Pontomesencephalic Tegmentum. Frontiers in Neuroanatomy, 2022, 16, .	1.7	6
54	Synchronized spontaneous spikes on multi-electrode array show development of cultured neuronal network. , 2005, 2005, 2134-7.		5

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55	Scalable Resin Embedding Method for Large-Volume Brain Tissues with High Fluorescence Preservation Capacity. IScience, 2020, 23, 101717.	4.1	5
56	Continuous imaging of large-volume tissues with a machinable optical clearing method at subcellular resolution. Biomedical Optics Express, 2020, 11, 7132.	2.9	5
57	VBNet: An end-to-end 3D neural network for vessel bifurcation point detection in mesoscopic brain images. Computer Methods and Programs in Biomedicine, 2022, 214, 106567.	4.7	5
58	Long-range inputome of cortical neurons containing corticotropin-releasing hormone. Scientific Reports, 2020, 10, 12209.	3.3	4
59	High-Throughput Strategy for Profiling Sequential Section With Multiplex Staining of Mouse Brain. Frontiers in Neuroanatomy, 2021, 15, 771229.	1.7	4
60	Plastic embedding for precise imaging of large-scale biological tissues labeled with multiple fluorescent dyes and proteins. Biomedical Optics Express, 2021, 12, 6730.	2.9	3
61	Multi-perspective label based deep learning framework for cerebral vasculature segmentation in whole-brain fluorescence images. Biomedical Optics Express, 2022, 13, 3657.	2.9	3
62	Mapping the Architecture of Ferret Brains at Single-Cell Resolution. Frontiers in Neuroscience, 2020, 14, 322.	2.8	2
63	Nonlinear characteristics in the spontaneous activities of cultured neuronal networks. Chinese Science Bulletin, 2010, 55, 7-14.	0.7	2
64	NDDN: A Cloud-Based Neuroinformation Database for Developing Neuronal Networks. Journal of Healthcare Engineering, 2018, 2018, 1-8.	1.9	1
65	Monitoring calcium concentration in dendritic spines of cultured hippocampal neurons with cameleons. , 2005, , .		0
66	Database for Development of the Cultured Neuronal Network. , 2009, , .		0
67	Repeat burst for timing code in excitatory neuronal network on multi-electrode array. , 2010, , .		0
68	Delineating the organization of projection neuron subsets in primary visual cortex with multiple fluorescent rabies virus tracing. Brain Structure and Function, 2021, 226, 951-961.	2.3	0
69	CULTURE OF GABAERGIC NEURONS FROM TRANSGENIC MICE ON MULTI-ELECTRODE ARRAY. , 2008, , .		0
70	3D visualization of the ascending pathway of motor nucleus with viral infection and fluorescent imaging. , 2017, , .		0
71	Development of a plastic embedding method for preservation of red fluorescent protein. , 2017, , .		0
72	Scalable embedding method with hydrogel for optical imaging of fluorescent samples. , 2017, , .		0