

Yajie Liang

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

3,343
citations

218662

26
h-index

302107

39
g-index

51
all docs

51
docs citations

51
times ranked

5236
citing authors

#	ARTICLE	IF	CITATIONS
1	Coupled Proliferation and Apoptosis Maintain the Rapid Turnover of Microglia in the Adult Brain. Cell Reports, 2017, 18, 391-405.	6.4	503
2	A general method to fine-tune fluorophores for live-cell and in vivo imaging. Nature Methods, 2017, 14, 987-994.	19.0	502
3	Optimized ratiometric calcium sensors for functional in vivo imaging of neurons and T lymphocytes. Nature Methods, 2014, 11, 175-182.	19.0	319
4	Video-rate volumetric functional imaging of the brain at synaptic resolution. Nature Neuroscience, 2017, 20, 620-628.	14.8	247
5	In vivo measurement of afferent activity with axon-specific calcium imaging. Nature Neuroscience, 2018, 21, 1272-1280.	14.8	156
6	Kilohertz two-photon fluorescence microscopy imaging of neural activity in vivo. Nature Methods, 2020, 17, 287-290.	19.0	155
7	The survival of engrafted neural stem cells within hyaluronic acid hydrogels. Biomaterials, 2013, 34, 5521-5529.	11.4	125
8	Dynamic super-resolution structured illumination imaging in the living brain. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 9586-9591.	7.1	103
9	Rapid mesoscale volumetric imaging of neural activity with synaptic resolution. Nature Methods, 2020, 17, 291-294.	19.0	99
10	Impairment of in vivo calcium signaling in amyloid plaque-associated microglia. Acta Neuropathologica, 2014, 127, 495-505.	7.7	88
11	Monitoring Enzyme Activity Using a Diamagnetic Chemical Exchange Saturation Transfer Magnetic Resonance Imaging Contrast Agent. Journal of the American Chemical Society, 2011, 133, 16326-16329.	13.7	83
12	Transforming Thymidine into a Magnetic Resonance Imaging Probe for Monitoring Gene Expression. Journal of the American Chemical Society, 2013, 135, 1617-1624.	13.7	80
13	High-throughput synapse-resolving two-photon fluorescence microendoscopy for deep-brain volumetric imaging in vivo. ELife, 2019, 8, .	6.0	75
14	Label-free imaging of gelatin-containing hydrogel scaffolds. Biomaterials, 2015, 42, 144-150.	11.4	64
15	A new approach for ratiometric in vivo calcium imaging of microglia. Scientific Reports, 2017, 7, 6030.	3.3	55
16	Three-photon fluorescence microscopy with an axially elongated Bessel focus. Optics Letters, 2018, 43, 1914.	3.3	52
17	CEST phase mapping using a length and offset varied saturation (LOVARS) scheme. Magnetic Resonance in Medicine, 2012, 68, 1074-1086.	3.0	51
18	Comparison of red-shifted firefly luciferase Ppy RE9 and conventional Luc2 as bioluminescence imaging reporter genes for <i>in vivo</i> imaging of stem cells. Journal of Biomedical Optics, 2012, 17, 016004.	2.6	47

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19	Adaptive optical versus spherical aberration corrections for in vivo brain imaging. <i>Biomedical Optics Express</i> , 2017, 8, 3891.	2.9	46
20	jYCaMP: an optimized calcium indicator for two-photon imaging at fiber laser wavelengths. <i>Nature Methods</i> , 2020, 17, 694-697.	19.0	45
21	An adaptive optics module for deep tissue multiphoton imaging in vivo. <i>Nature Methods</i> , 2021, 18, 1259-1264.	19.0	45
22	Microglial TIR-domain-containing adapter-inducing interferon- β (TRIF) deficiency promotes retinal ganglion cell survival and axon regeneration via nuclear factor- κ B. <i>Journal of Neuroinflammation</i> , 2012, 9, 39.	7.2	41
23	Supercharged green fluorescent proteins as bimodal reporter genes for CEST MRI and optical imaging. <i>Chemical Communications</i> , 2015, 51, 4869-4871.	4.1	40
24	Expression profiling of Rab GTPases reveals the involvement of Rab20 and Rab32 in acute brain inflammation in mice. <i>Neuroscience Letters</i> , 2012, 527, 110-114.	2.1	31
25	A general approach to engineer positive-going eFRET voltage indicators. <i>Nature Communications</i> , 2020, 11, 3444.	12.8	31
26	Effects of C3 deficiency on inflammation and regeneration following spinal cord injury in mice. <i>Neuroscience Letters</i> , 2010, 485, 32-36.	2.1	29
27	Neural progenitor cell survival in mouse brain can be improved by co-transplantation of helper cells expressing bFGF under doxycycline control. <i>Experimental Neurology</i> , 2013, 247, 73-79.	4.1	26
28	Hyperosmolar blood-brain barrier opening using intra-arterial injection of hyperosmotic mannitol in mice under real-time MRI guidance. <i>Nature Protocols</i> , 2022, 17, 76-94.	12.0	26
29	In vivo odourant response properties of migrating adult-born neurons in the mouse olfactory bulb. <i>Nature Communications</i> , 2015, 6, 6349.	12.8	25
30	Long-term in vivo single-cell tracking reveals the switch of migration patterns in adult-born juxtglomerular cells of the mouse olfactory bulb. <i>Cell Research</i> , 2016, 26, 805-821.	12.0	23
31	Complement 3-deficient mice are not protected against MPTP-induced dopaminergic neurotoxicity. <i>Brain Research</i> , 2007, 1178, 132-140.	2.2	20
32	Intrastriatal injection of colchicine induces striatonigral degeneration in mice. <i>Journal of Neurochemistry</i> , 2008, 106, 1815-1827.	3.9	16
33	Potential neuroprotective effect of low dose whole-body β -irradiation against 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP)-induced dopaminergic toxicity in C57 mice. <i>Neuroscience Letters</i> , 2006, 400, 213-217.	2.1	10
34	Quantification of motor neuron loss and muscular atrophy in ricin-induced focal nerve injury. <i>Journal of Neuroscience Methods</i> , 2018, 308, 142-150.	2.5	7
35	A Distinct Population of L6 Neurons in Mouse V1 Mediate Cross-Callosal Communication. <i>Cerebral Cortex</i> , 2021, 31, 4259-4273.	2.9	7
36	Potential mechanisms of neuroprotection induced by low dose total-body β -irradiation in C57 mice administered with 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP). <i>Neuroscience Letters</i> , 2009, 450, 106-110.	2.1	3

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37	Long term intravital single cell tracking under multiphoton microscopy. <i>Journal of Neuroscience Methods</i> , 2021, 349, 109042.	2.5	3
38	Hybrid synapse formation between spinal motoneurons and superior cervical ganglion neurons in vitro: A study of the functional reconstruction of visceral organs. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2008, 144, 83-88.	2.8	2
39	Labeling Microglia with Genetically Encoded Calcium Indicators. <i>Methods in Molecular Biology</i> , 2019, 2034, 243-265.	0.9	2
40	Optical and genetic tools for in vivo single cell tracking. <i>Journal of Neuroscience Methods</i> , 2021, 358, 109192.	2.5	0