

Lin Tian

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.

55
papers

6,355
citations

27
h-index

68
g-index

68
ext. papers

8,462
ext. citations

15.4
avg, IF

5.61
L-index

#	Paper	IF	Citations
55	Imaging neural activity in worms, flies and mice with improved GCaMP calcium indicators. <i>Nature Methods</i> , 2009 , 6, 875-81	21.6	1449
54	Optimization of a GCaMP calcium indicator for neural activity imaging. <i>Journal of Neuroscience</i> , 2012 , 32, 13819-40	6.6	864
53	An optimized fluorescent probe for visualizing glutamate neurotransmission. <i>Nature Methods</i> , 2013 , 10, 162-70	21.6	564
52	Functional imaging of hippocampal place cells at cellular resolution during virtual navigation. <i>Nature Neuroscience</i> , 2010 , 13, 1433-40	25.5	531
51	Genetically encoded calcium indicators for multi-color neural activity imaging and combination with optogenetics. <i>Frontiers in Molecular Neuroscience</i> , 2013 , 6, 2	6.1	487
50	Ultrafast neuronal imaging of dopamine dynamics with designed genetically encoded sensors. <i>Science</i> , 2018 , 360,	33.3	388
49	Activity in motor-sensory projections reveals distributed coding in somatosensation. <i>Nature</i> , 2012 , 489, 299-303	50.4	236
48	Dissociable dopamine dynamics for learning and motivation. <i>Nature</i> , 2019 , 570, 65-70	50.4	204
47	Crystal structures of the GCaMP calcium sensor reveal the mechanism of fluorescence signal change and aid rational design. <i>Journal of Biological Chemistry</i> , 2009 , 284, 6455-64	5.4	183
46	A Neural Circuit Mechanism for Encoding Aversive Stimuli in the Mesolimbic Dopamine System. <i>Neuron</i> , 2019 , 101, 133-151.e7	13.9	164
45	Selective esterase-ester pair for targeting small molecules with cellular specificity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 4756-61	11.5	126
44	Reporting neural activity with genetically encoded calcium indicators. <i>Brain Cell Biology</i> , 2008 , 36, 69-86		103
43	Monitoring activity in neural circuits with genetically encoded indicators. <i>Frontiers in Molecular Neuroscience</i> , 2014 , 7, 97	6.1	100
42	Wnt Regulates Proliferation and Neurogenic Potential of Müller Glial Cells via a Lin28/let-7 miRNA-Dependent Pathway in Adult Mammalian Retinas. <i>Cell Reports</i> , 2016 , 17, 165-178	10.6	81
41	Dopamine neurons projecting to medial shell of the nucleus accumbens drive heroin reinforcement. <i>ELife</i> , 2018 , 7,	8.9	79
40	Imaging light responses of targeted neuron populations in the rodent retina. <i>Journal of Neuroscience</i> , 2011 , 31, 2855-67	6.6	70
39	In vivo measurement of afferent activity with axon-specific calcium imaging. <i>Nature Neuroscience</i> , 2018 , 21, 1272-1280	25.5	59

38	CDK1 Enhances Mitochondrial Bioenergetics for Radiation-Induced DNA Repair. <i>Cell Reports</i> , 2015 , 13, 2056-63	10.6	56
37	Neural activity imaging with genetically encoded calcium indicators. <i>Progress in Brain Research</i> , 2012 , 196, 79-94	2.9	47
36	Distinct temporal integration of noradrenaline signaling by astrocytic second messengers during vigilance. <i>Nature Communications</i> , 2020 , 11, 471	17.4	45
35	Imaging chemical neurotransmission with genetically encoded fluorescent sensors. <i>ACS Chemical Neuroscience</i> , 2015 , 6, 84-93	5.7	45
34	An expanded palette of dopamine sensors for multiplex imaging in vivo. <i>Nature Methods</i> , 2020 , 17, 1147-1155	11.5	45
33	Dopamine metabolism by a monoamine oxidase mitochondrial shuttle activates the electron transport chain. <i>Nature Neuroscience</i> , 2020 , 23, 15-20	25.5	42
32	Imaging Neurotransmitter and Neuromodulator Dynamics In Vivo with Genetically Encoded Indicators. <i>Neuron</i> , 2020 , 108, 17-32	13.9	41
31	Directed Evolution of a Selective and Sensitive Serotonin Sensor via Machine Learning. <i>Cell</i> , 2020 , 183, 1986-2002.e26	56.2	34
30	Cell-type-specific asynchronous modulation of PKA by dopamine in learning. <i>Nature</i> , 2021 , 590, 451-456	50.4	28
29	Temporally and Spatially Distinct Thirst Satiation Signals. <i>Neuron</i> , 2019 , 103, 242-249.e4	13.9	27
28	Aberrant Calcium Signaling in Astrocytes Inhibits Neuronal Excitability in a Human Down Syndrome Stem Cell Model. <i>Cell Reports</i> , 2018 , 24, 355-365	10.6	22
27	An ultrasensitive biosensor for high-resolution kinase activity imaging in awake mice. <i>Nature Chemical Biology</i> , 2021 , 17, 39-46	11.7	22
26	Psychedelic-inspired drug discovery using an engineered biosensor. <i>Cell</i> , 2021 , 184, 2779-2792.e18	56.2	21
25	Interruption of continuous opioid exposure exacerbates drug-evoked adaptations in the mesolimbic dopamine system. <i>Neuropsychopharmacology</i> , 2020 , 45, 1781-1792	8.7	17
24	Integrated Neurophotonics: Toward Dense Volumetric Interrogation of Brain Circuit Activity-at Depth and in Real Time. <i>Neuron</i> , 2020 , 108, 66-92	13.9	17
23	Combinatorial Library Screening with Liposomes for Discovery of Membrane Active Peptides. <i>ACS Combinatorial Science</i> , 2017 , 19, 299-307	3.9	16
22	Imaging neuromodulators with high spatiotemporal resolution using genetically encoded indicators. <i>Nature Protocols</i> , 2019 , 14, 3471-3505	18.8	15
21	A photoswitchable GPCR-based opsin for presynaptic inhibition. <i>Neuron</i> , 2021 , 109, 1791-1809.e11	13.9	15

20	Optical dopamine monitoring with dLight1 reveals mesolimbic phenotypes in a mouse model of neurofibromatosis type1. <i>ELife</i> , 2019 , 8,	8.9	14
19	Imaging voltage and brain chemistry with genetically encoded sensors and modulators. <i>Current Opinion in Chemical Biology</i> , 2020 , 57, 166-176	9.7	10
18	Dopamine release in the nucleus accumbens core signals perceived saliency. <i>Current Biology</i> , 2021 , 31, 4748-4761.e8	6.3	10
17	Cell-type specific asynchronous modulation of PKA by dopamine during reward based learning		9
16	Nanodelivery of a functional membrane receptor to manipulate cellular phenotype. <i>Scientific Reports</i> , 2018 , 8, 3556	4.9	8
15	Measuring brain chemistry using genetically encoded fluorescent sensors. <i>Current Opinion in Biomedical Engineering</i> , 2019 , 12, 59-67	4.4	8
14	Strategies for Genetically Engineering Hypoimmunogenic Universal Pluripotent Stem Cells. <i>IScience</i> , 2020 , 23, 101162	6.1	8
13	SynQuant: an automatic tool to quantify synapses from microscopy images. <i>Bioinformatics</i> , 2020 , 36, 1599-1606	7.2	7
12	Automated Functional Analysis of Astrocytes from Chronic Time-Lapse Calcium Imaging Data. <i>Frontiers in Neuroinformatics</i> , 2017 , 11, 48	3.9	6
11	Bombesin-like peptide recruits disinhibitory cortical circuits and enhances fear memories. <i>Cell</i> , 2021 , 184, 5622-5634.e25	56.2	6
10	Release of endogenous dynorphin opioids in the prefrontal cortex disrupts cognition. <i>Neuropsychopharmacology</i> , 2021 , 46, 2330-2339	8.7	4
9	Letting the little light of mind shine: Advances and future directions in neurochemical detection. <i>Neuroscience Research</i> , 2021 ,	2.9	3
8	The residence of synaptically released dopamine on D2 autoreceptors. <i>Cell Reports</i> , 2021 , 36, 109465	10.6	3
7	FASP: A machine learning approach to functional astrocyte phenotyping from time-lapse calcium imaging data 2016 ,		2
6	Biosensors Show the Pharmacokinetics of S-Ketamine in the Endoplasmic Reticulum. <i>Frontiers in Cellular Neuroscience</i> , 2019 , 13, 499	6.1	2
5	Interruption of Continuous Opioid Exposure Exacerbates Drug-Evoked Adaptations in the Mesolimbic Dopamine System		1
4	Bombesin-like peptide recruits disinhibitory cortical circuits and enhances fear memories		1
3	Neurophotonic tools for microscopic measurements and manipulation: status report.. <i>Neurophotonics</i> , 2022 , 9, 013001	3.9	0

- 2 Maps of neuronal activity across the mouse brain. *Nature Biomedical Engineering*, **2019**, 3, 335-336 19
- 1 Crystal structures of the GCaMP calcium sensor protein reveal the mechanism of fluorescence signal change and aid rational design. *FASEB Journal*, **2009**, 23, 517.1 0.9