

Lin Tian

List of Publications by Year in descending order

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55
papers

9,853
citations

126858

33
h-index

161767

54
g-index

68
all docs

68
docs citations

68
times ranked

10834
citing authors

#	ARTICLE	IF	CITATIONS
1	Imaging neural activity in worms, flies and mice with improved GCaMP calcium indicators. <i>Nature Methods</i> , 2009, 6, 875-881.	9.0	1,759
2	Optimization of a GCaMP Calcium Indicator for Neural Activity Imaging. <i>Journal of Neuroscience</i> , 2012, 32, 13819-13840.	1.7	1,099
3	An optimized fluorescent probe for visualizing glutamate neurotransmission. <i>Nature Methods</i> , 2013, 10, 162-170.	9.0	827
4	Ultrafast neuronal imaging of dopamine dynamics with designed genetically encoded sensors. <i>Science</i> , 2018, 360, .	6.0	773
5	Functional imaging of hippocampal place cells at cellular resolution during virtual navigation. <i>Nature Neuroscience</i> , 2010, 13, 1433-1440.	7.1	742
6	Genetically encoded calcium indicators for multi-color neural activity imaging and combination with optogenetics. <i>Frontiers in Molecular Neuroscience</i> , 2013, 6, 2.	1.4	629
7	Dissociable dopamine dynamics for learning and motivation. <i>Nature</i> , 2019, 570, 65-70.	13.7	487
8	A Neural Circuit Mechanism for Encoding Aversive Stimuli in the Mesolimbic Dopamine System. <i>Neuron</i> , 2019, 101, 133-151.e7.	3.8	349
9	Activity in motorâ€“sensory projections reveals distributed coding in somatosensation. <i>Nature</i> , 2012, 489, 299-303.	13.7	314
10	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, 6455-6464.	1.6	226
11	In vivo measurement of afferent activity with axon-specific calcium imaging. <i>Nature Neuroscience</i> , 2018, 21, 1272-1280.	7.1	156
12	Selective esteraseâ€“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, 4756-4761.	3.3	148
13	An expanded palette of dopamine sensors for multiplex imaging in vivo. <i>Nature Methods</i> , 2020, 17, 1147-1155.	9.0	134
14	Imaging Neurotransmitter and Neuromodulator Dynamics In Vivo with Genetically Encoded Indicators. <i>Neuron</i> , 2020, 108, 17-32.	3.8	130
15	Dopamine neurons projecting to medial shell of the nucleus accumbens drive heroin reinforcement. <i>ELife</i> , 2018, 7, .	2.8	125
16	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.	2.9	124
17	Monitoring activity in neural circuits with genetically encoded indicators. <i>Frontiers in Molecular Neuroscience</i> , 2014, 7, 97.	1.4	121
18	Reporting neural activity with genetically encoded calcium indicators. <i>Brain Cell Biology</i> , 2008, 36, 69-86.	3.5	120

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19	Directed Evolution of a Selective and Sensitive Serotonin Sensor via Machine Learning. <i>Cell</i> , 2020, 183, 1986-2002.e26.	13.5	104
20	Distinct temporal integration of noradrenaline signaling by astrocytic second messengers during vigilance. <i>Nature Communications</i> , 2020, 11, 471.	5.8	102
21	Cell-type-specific asynchronous modulation of PKA by dopamine in learning. <i>Nature</i> , 2021, 590, 451-456.	13.7	100
22	Dopamine metabolism by a monoamine oxidase mitochondrial shuttle activates the electron transport chain. <i>Nature Neuroscience</i> , 2020, 23, 15-20.	7.1	97
23	Dopamine release in the nucleus accumbens core signals perceived saliency. <i>Current Biology</i> , 2021, 31, 4748-4761.e8.	1.8	94
24	Psychedelic-inspired drug discovery using an engineered biosensor. <i>Cell</i> , 2021, 184, 2779-2792.e18.	13.5	93
25	CDK1 Enhances Mitochondrial Bioenergetics for Radiation-Induced DNA Repair. <i>Cell Reports</i> , 2015, 13, 2056-2063.	2.9	83
26	Imaging Light Responses of Targeted Neuron Populations in the Rodent Retina. <i>Journal of Neuroscience</i> , 2011, 31, 2855-2867.	1.7	80
27	A photoswitchable GPCR-based opsin for presynaptic inhibition. <i>Neuron</i> , 2021, 109, 1791-1809.e11.	3.8	62
28	An ultrasensitive biosensor for high-resolution kinase activity imaging in awake mice. <i>Nature Chemical Biology</i> , 2021, 17, 39-46.	3.9	61
29	Neural activity imaging with genetically encoded calcium indicators. <i>Progress in Brain Research</i> , 2012, 196, 79-94.	0.9	58
30	Temporally and Spatially Distinct Thirst Satiation Signals. <i>Neuron</i> , 2019, 103, 242-249.e4.	3.8	54
31	Imaging Chemical Neurotransmission with Genetically Encoded Fluorescent Sensors. <i>ACS Chemical Neuroscience</i> , 2015, 6, 84-93.	1.7	50
32	Interruption of continuous opioid exposure exacerbates drug-evoked adaptations in the mesolimbic dopamine system. <i>Neuropsychopharmacology</i> , 2020, 45, 1781-1792.	2.8	44
33	Integrated Neurophotonics: Toward Dense Volumetric Interrogation of Brain Circuit Activity at Depth and in Real Time. <i>Neuron</i> , 2020, 108, 66-92.	3.8	40
34	Aberrant Calcium Signaling in Astrocytes Inhibits Neuronal Excitability in a Human Down Syndrome Stem Cell Model. <i>Cell Reports</i> , 2018, 24, 355-365.	2.9	39
35	Bombesin-like peptide recruits disinhibitory cortical circuits and enhances fear memories. <i>Cell</i> , 2021, 184, 5622-5634.e25.	13.5	35
36	Release of endogenous dynorphin opioids in the prefrontal cortex disrupts cognition. <i>Neuropsychopharmacology</i> , 2021, 46, 2330-2339.	2.8	34

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37	Imaging neuromodulators with high spatiotemporal resolution using genetically encoded indicators. <i>Nature Protocols</i> , 2019, 14, 3471-3505.	5.5	33
38	Optical dopamine monitoring with dLight1 reveals mesolimbic phenotypes in a mouse model of neurofibromatosis type1. <i>ELife</i> , 2019, 8, .	2.8	33
39	Fluorescence Imaging of Neural Activity, Neurochemical Dynamics, and Drug-Specific Receptor Conformation with Genetically Encoded Sensors. <i>Annual Review of Neuroscience</i> , 2022, 45, 273-294.	5.0	32
40	Strategies for Genetically Engineering Hypoimmunogenic Universal Pluripotent Stem Cells. <i>IScience</i> , 2020, 23, 101162.	1.9	28
41	Combinatorial Library Screening with Liposomes for Discovery of Membrane Active Peptides. <i>ACS Combinatorial Science</i> , 2017, 19, 299-307.	3.8	25
42	SynQuant: an automatic tool to quantify synapses from microscopy images. <i>Bioinformatics</i> , 2020, 36, 1599-1606.	1.8	24
43	Imaging voltage and brain chemistry with genetically encoded sensors and modulators. <i>Current Opinion in Chemical Biology</i> , 2020, 57, 166-176.	2.8	21
44	The residence of synaptically released dopamine on D2 autoreceptors. <i>Cell Reports</i> , 2021, 36, 109465.	2.9	21
45	Neurophotonic Tools for Microscopic Measurements and Manipulation: Status Report. <i>Neurophotonics</i> , 2022, 9, 013001.	1.7	17
46	Automated Functional Analysis of Astrocytes from Chronic Time-Lapse Calcium Imaging Data. <i>Frontiers in Neuroinformatics</i> , 2017, 11, 48.	1.3	16
47	Nanodelivery of a functional membrane receptor to manipulate cellular phenotype. <i>Scientific Reports</i> , 2018, 8, 3556.	1.6	15
48	Biosensors Show the Pharmacokinetics of S-Ketamine in the Endoplasmic Reticulum. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 499.	1.8	14
49	Measuring brain chemistry using genetically encoded fluorescent sensors. <i>Current Opinion in Biomedical Engineering</i> , 2019, 12, 59-67.	1.8	12
50	Multimodal detection of dopamine by sniffer cells expressing genetically encoded fluorescent sensors. <i>Communications Biology</i> , 2022, 5, .	2.0	10
51	Letting the little light of mind shine: Advances and future directions in neurochemical detection. <i>Neuroscience Research</i> , 2022, 179, 65-78.	1.0	8
52	FASP: A machine learning approach to functional astrocyte phenotyping from time-lapse calcium imaging data. , 2016, , .		4
53	Psychedelic-Inspired Drug Discovery Using an Engineered Biosensor. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
54	Maps of neuronal activity across the mouse brain. <i>Nature Biomedical Engineering</i> , 2019, 3, 335-336.	11.6	0

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55	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.	0.2	0