

Tsai-Wen Chen

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

10,878
citations

361045

20
h-index

752256

20
g-index

28
all docs

28
docs citations

28
times ranked

12996
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrasensitive fluorescent proteins for imaging neuronal activity. <i>Nature</i> , 2013, 499, 295-300.	13.7	5,490
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	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
5	Thy1-GCaMP6 Transgenic Mice for Neuronal Population Imaging In Vivo. <i>PLoS ONE</i> , 2014, 9, e108697.	1.1	506
6	A motor cortex circuit for motor planning and movement. <i>Nature</i> , 2015, 519, 51-56.	13.7	474
7	Bright and photostable chemigenetic indicators for extended in vivo voltage imaging. <i>Science</i> , 2019, 365, 699-704.	6.0	362
8	A Cre-Dependent GCaMP3 Reporter Mouse for Neuronal Imaging <i>In Vivo</i> . <i>Journal of Neuroscience</i> , 2012, 32, 3131-3141.	1.7	341
9	Optimized ratiometric calcium sensors for functional in vivo imaging of neurons and T lymphocytes. <i>Nature Methods</i> , 2014, 11, 175-182.	9.0	319
10	A Map of Anticipatory Activity in Mouse Motor Cortex. <i>Neuron</i> , 2017, 94, 866-879.e4.	3.8	204
11	Multiplexed aberration measurement for deep tissue imaging in vivo. <i>Nature Methods</i> , 2014, 11, 1037-1040.	9.0	125
12	Comprehensive imaging of cortical networks. <i>Current Opinion in Neurobiology</i> , 2015, 32, 115-123.	2.0	109
13	A comparison of neuronal population dynamics measured with calcium imaging and electrophysiology. <i>PLoS Computational Biology</i> , 2020, 16, e1008198.	1.5	102
14	A Neuron-Based Screening Platform for Optimizing Genetically-Encoded Calcium Indicators. <i>PLoS ONE</i> , 2013, 8, e77728.	1.1	66
15	Activity Correlation Imaging: Visualizing Function and Structure of Neuronal Populations. <i>Biophysical Journal</i> , 2009, 96, 3801-3809.	0.2	44
16	Neuronal Representation of Ultraviolet Visual Stimuli in Mouse Primary Visual Cortex. <i>Scientific Reports</i> , 2015, 5, 12597.	1.6	36
17	Odor coding by modules of coherent mitral/tufted cells in the vertebrate olfactory bulb. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 2401-2406.	3.3	31
18	In Situ Background Estimation in Quantitative Fluorescence Imaging. <i>Biophysical Journal</i> , 2006, 90, 2534-2547.	0.2	29

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19	Cell type-specific relationships between spiking and [Ca ²⁺] _i in neurons of the Xenopus tadpole olfactory bulb. <i>Journal of Physiology</i> , 2007, 582, 163-175.	1.3	29
20	Response profiles to amino acid odorants of olfactory glomeruli in larval <i>Xenopus laevis</i> . <i>Journal of Physiology</i> , 2007, 581, 567-579.	1.3	23
21	Flow of Information Underlying a Tactile Decision in Mice. <i>Research and Perspectives in Neurosciences</i> , 2016, , 35-41.	0.4	0
22	A comparison of neuronal population dynamics measured with calcium imaging and electrophysiology. , 2020, 16, e1008198.		0
23	A comparison of neuronal population dynamics measured with calcium imaging and electrophysiology. , 2020, 16, e1008198.		0
24	A comparison of neuronal population dynamics measured with calcium imaging and electrophysiology. , 2020, 16, e1008198.		0
25	A comparison of neuronal population dynamics measured with calcium imaging and electrophysiology. , 2020, 16, e1008198.		0