

# Tsai-Wen Chen

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/12188452/publications.pdf>

Version: 2024-02-01

25  
papers

10,878  
citations

361413

20  
h-index

752698

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.	27.8	5,490
2	Optimization of a GCaMP Calcium Indicator for Neural Activity Imaging. <i>Journal of Neuroscience</i> , 2012, 32, 13819-13840.	3.6	1,099
3	An optimized fluorescent probe for visualizing glutamate neurotransmission. <i>Nature Methods</i> , 2013, 10, 162-170.	19.0	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.	2.9	629
5	Thy1-GCaMP6 Transgenic Mice for Neuronal Population Imaging In Vivo. <i>PLoS ONE</i> , 2014, 9, e108697.	2.5	506
6	A motor cortex circuit for motor planning and movement. <i>Nature</i> , 2015, 519, 51-56.	27.8	474
7	Bright and photostable chemigenetic indicators for extended in vivo voltage imaging. <i>Science</i> , 2019, 365, 699-704.	12.6	362
8	A Cre-Dependent GCaMP3 Reporter Mouse for Neuronal Imaging <i>In Vivo</i> . <i>Journal of Neuroscience</i> , 2012, 32, 3131-3141.	3.6	341
9	Optimized ratiometric calcium sensors for functional in vivo imaging of neurons and T lymphocytes. <i>Nature Methods</i> , 2014, 11, 175-182.	19.0	319
10	A Map of Anticipatory Activity in Mouse Motor Cortex. <i>Neuron</i> , 2017, 94, 866-879.e4.	8.1	204
11	Multiplexed aberration measurement for deep tissue imaging in vivo. <i>Nature Methods</i> , 2014, 11, 1037-1040.	19.0	125
12	Comprehensive imaging of cortical networks. <i>Current Opinion in Neurobiology</i> , 2015, 32, 115-123.	4.2	109
13	A comparison of neuronal population dynamics measured with calcium imaging and electrophysiology. <i>PLoS Computational Biology</i> , 2020, 16, e1008198.	3.2	102
14	A Neuron-Based Screening Platform for Optimizing Genetically-Encoded Calcium Indicators. <i>PLoS ONE</i> , 2013, 8, e77728.	2.5	66
15	Activity Correlation Imaging: Visualizing Function and Structure of Neuronal Populations. <i>Biophysical Journal</i> , 2009, 96, 3801-3809.	0.5	44
16	Neuronal Representation of Ultraviolet Visual Stimuli in Mouse Primary Visual Cortex. <i>Scientific Reports</i> , 2015, 5, 12597.	3.3	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.	7.1	31
18	In Situ Background Estimation in Quantitative Fluorescence Imaging. <i>Biophysical Journal</i> , 2006, 90, 2534-2547.	0.5	29

#	ARTICLE	IF	CITATIONS
19	Cell type-specific relationships between spiking and [Ca <sup>2+</sup> ] <sub>i</sub> in neurons of the Xenopus tadpole olfactory bulb. <i>Journal of Physiology</i> , 2007, 582, 163-175.	2.9	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.	2.9	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