Da-Ting Lin

List of Publications by Year
in descending order

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54 papers	2,970 citations	279798 23 h-index	214800 47 g-index
59 all docs	59 docs citations	59 times ranked	5168 citing authors

#	Article	IF	Citations
1	Learning Compact DNN Models for Behavior Prediction from Neural Activity of Calcium Imaging. Journal of Signal Processing Systems, 2022, 94, 455-472.	2.1	3
2	Detailed mapping of behavior reveals the formation of prelimbic neural ensembles across operant learning. Neuron, 2022, 110, 674-685.e6.	8.1	10
3	Characterization of operant social interaction in rats: effects of access duration, effort, peer familiarity, housing conditions, and choice between social interaction vs. food or remifentanil. Psychopharmacology, 2022, 239, 2093-2108.	3.1	17
4	Striatal direct pathway neurons play leading roles in accelerating rotarod motor skill learning. IScience, 2022, 25, 104245.	4.1	4
5	Aberrant neural activity in prefrontal pyramidal neurons lacking TDP-43 precedes neuron loss. Progress in Neurobiology, 2022, 215, 102297.	5.7	3
6	Circuit Investigation of Social Interaction and Substance Use Disorder Using Miniscopes. Frontiers in Neural Circuits, 2021, 15, 762441.	2.8	3
7	Neural decoding on imbalanced calcium imaging data with a network of support vector machines. Advanced Robotics, 2021, 35, 459-470.	1.8	4
8	Anterograde transneuronal tracing and genetic control with engineered yellow fever vaccine YFV-17D. Nature Methods, 2021, 18, 1542-1551.	19.0	17
9	An open-source capacitive touch sensing device for three chamber social behavior test. MethodsX, 2020, 7, 101024.	1.6	2
10	An open source motorized swivel for in vivo neural and behavioral recordings. MethodsX, 2020, 7, 101167.	1.6	6
11	Real-Time Neuron Detection and Neural Signal Extraction Platform for Miniature Calcium Imaging. Frontiers in Computational Neuroscience, 2020, 14, 43.	2.1	6
12	Distinct Connectivity and Functionality of Aldehyde Dehydrogenase 1a1-Positive Nigrostriatal Dopaminergic Neurons in Motor Learning. Cell Reports, 2019, 28, 1167-1181.e7.	6.4	47
13	A wireless miniScope for deep brain imaging in freely moving mice. Journal of Neuroscience Methods, 2019, 323, 56-60.	2.5	53
14	A Two-Step GRIN Lens Coating for In Vivo Brain Imaging. Neuroscience Bulletin, 2019, 35, 419-424.	2.9	10
15	Circuit Mechanisms of Neurodegenerative Diseases: A New Frontier With Miniature Fluorescence Microscopy. Frontiers in Neuroscience, 2019, 13, 1174.	2.8	22
16	Real-Time Calcium Imaging Based Neural Decoding with a Support Vector Machine. , 2019, , .		5
17	Miniscope GRIN Lens System for Calcium Imaging of Neuronal Activity from Deep Brain Structures in Behaving Animals. Current Protocols in Neuroscience, 2019, 86, e56.	2.6	66
18	An open-source automated surgical instrument for microendoscope implantation. Journal of Neuroscience Methods, 2019, 311, 83-88.	2.5	10

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19	Decoding Brain States Based on Microcircuits. , 2018, , .		7
20	Distinct and Dynamic ON and OFF Neural Ensembles in the Prefrontal Cortex Code Social Exploration. Neuron, 2018, 100, 700-714.e9.	8.1	103
21	Structure-Activity Investigation of a G Protein-Biased Agonist Reveals Molecular Determinants for Biased Signaling of the D2 Dopamine Receptor. Frontiers in Synaptic Neuroscience, 2018, 10, 2.	2.5	14
22	The acute effect of cannabis on plasma, liver and brain ammonia dynamics, a translational study. European Neuropsychopharmacology, 2017, 27, 679-690.	0.7	13
23	BDNF rescues prefrontal dysfunction elicited by pyramidal neuron-specific DTNBP1 deletion in vivo. Journal of Molecular Cell Biology, 2017, 9, 117-131.	3.3	13
24	Cyclophilin D over-expression increases mitochondrial complex III activity and accelerates supercomplex formation. Archives of Biochemistry and Biophysics, 2017, 613, 61-68.	3.0	12
25	CYP3A5 Mediates Effects of Cocaine on Human Neocorticogenesis: Studies using an In Vitro 3D Self-Organized hPSC Model with a Single Cortex-Like Unit. Neuropsychopharmacology, 2017, 42, 774-784.	5.4	68
26	Dynamic micro-circuit analysis for calcium imaging data. , 2017, , .		1
27	Online learning in neural decoding using incremental linear discriminant analysis. , 2017, , .		7
28	Thinned-skulled Cranial Window Preparation (Mice). Bio-protocol, 2017, 7, e2158.	0.4	0
29	Spatially Compact Neural Clusters in the Dorsal Striatum Encode Locomotion Relevant Information. Neuron, 2016, 92, 202-213.	8.1	260
30	Hyperactive somatostatin interneurons contribute to excitotoxicity in neurodegenerative disorders. Nature Neuroscience, 2016, 19, 557-559.	14.8	125
31	Differential vesicular sorting of AMPA and GABA _A receptors. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E922-31.	7.1	58
32	The Topographical Arrangement of Cutoff Spatial Frequencies across Lower and Upper Visual Fields in Mouse V1. Scientific Reports, 2015, 5, 7734.	3.3	15
33	Visualization of NMDA receptorâ€“dependent AMPA receptor synaptic plasticity in vivo. Nature Neuroscience, 2015, 18, 402-407.	14.8	143
34	A Miniature, Fiber-Coupled, Wireless, Deep-Brain Optogenetic Stimulator. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2015, 23, 655-664.	4.9	42
35	Association of novelty-related behaviors and intravenous cocaine self-administration in Diversity Outbred mice. Psychopharmacology, 2015, 232, 1011-1024.	3.1	39
36	Imaging the Insertion of Superecliptic pHluorinâ€Labeled Dopamine D2 Receptor Using Total Internal Reflection Fluorescence Microscopy. Current Protocols in Neuroscience, 2015, 70, 5.31.1-5.31.20.	2.6	4

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37	Identification of Two Functionally Distinct Endosomal Recycling Pathways for Dopamine D₂Receptor. Journal of Neuroscience, 2012, 32, 7178-7190.	3.6	35
38	Imaging Glioma Initiation In Vivo Through a Polished and Reinforced Thin-skull Cranial Window. Journal of Visualized Experiments, 2012, , .	0.3	10
39	Imaging pHluorin-tagged Receptor Insertion to the Plasma Membrane in Primary Cultured Mouse Neurons. Journal of Visualized Experiments, 2012, , .	0.3	9
40	Excess of De Novo Deleterious Mutations in Genes Associated with Glutamatergic Systems in Nonsyndromic Intellectual Disability. American Journal of Human Genetics, 2011, 88, 306-316.	6.2	310
41	Excess of De Novo Deleterious Mutations in Genes Associated with Glutamatergic Systems in Nonsyndromic Intellectual Disability. American Journal of Human Genetics, 2011, 88, 516.	6.2	1
42	GRIP1 and 2 regulate activity-dependent AMPA receptor recycling via exocyst complex interactions. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 19038-19043.	7.1	64
43	Plasma membrane insertion of the AMPA receptor GluA2 subunit is regulated by NSF binding and Q/R editing of the ion pore. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11080-11085.	7.1	76
44	Regulation of AMPA receptor extrasynaptic insertion by 4.1N, phosphorylation and palmitoylation. Nature Neuroscience, 2009, 12, 879-887.	14.8	317
45	Rapid and bi-directional regulation of AMPA receptor phosphorylation and trafficking by JNK. EMBO Journal, 2008, 27, 361-372.	7.8	71
46	Purinergic Receptor-Stimulated IP3-Mediated Ca2+ Release Enhances Neuroprotection by Increasing Astrocyte Mitochondrial Metabolism during Aging. Journal of Neuroscience, 2007, 27, 6510-6520.	3.6	56
47	PICK1 and Phosphorylation of the Glutamate Receptor 2 (GluR2) AMPA Receptor Subunit Regulates GluR2 Recycling after NMDA Receptor-Induced Internalization. Journal of Neuroscience, 2007, 27, 13903-13908.	3.6	150
48	Ca2+ signaling, mitochondria and sensitivity to oxidative stress in aging astrocytes. Neurobiology of Aging, 2007, 28, 99-111.	3.1	65
49	Synapse-specific regulation of AMPA receptor function by PSD-95. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 19535-19540.	7.1	320
50	Multiphoton Laser Scanning Microscopy as a Tool for Xenopus Oocyte Research. Methods in Molecular Biology, 2006, 322, 87-101.	0.9	6
51	Mitochondrial Targeted Cyclophilin D Protects Cells from Cell Death by Peptidyl Prolyl Isomerization. Journal of Biological Chemistry, 2002, 277, 31134-31141.	3.4	162
52	Multi-Photon Laser Scanning Microscopy Using an Acoustic Optical Deflector. Biophysical Journal, 2002, 83, 2292-2299.	0.5	95
53	Practical guide for constructing a pulse compressor used in multiphoton microscopy. , 2001, 4262, 111.		1
54	Dysbindin-1, BDNF, and GABAergic Transmission in Schizophrenia. Frontiers in Psychiatry, 0, 13, .	2.6	4