

Minmin Luo

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

7,480
citations

57719

44
h-index

74108

75
g-index

88
all docs

88
docs citations

88
times ranked

8491
citing authors

#	ARTICLE	IF	CITATIONS
1	Cell type-specific channelrhodopsin-2 transgenic mice for optogenetic dissection of neural circuitry function. <i>Nature Methods</i> , 2011, 8, 745-752.	9.0	605
2	Dorsal Raphe Neurons Signal Reward through 5-HT and Glutamate. <i>Neuron</i> , 2014, 81, 1360-1374.	3.8	392
3	Acute and Long-Term Suppression of Feeding Behavior by POMC Neurons in the Brainstem and Hypothalamus, Respectively. <i>Journal of Neuroscience</i> , 2013, 33, 3624-3632.	1.7	346
4	Encoding Pheromonal Signals in the Accessory Olfactory Bulb of Behaving Mice. <i>Science</i> , 2003, 299, 1196-1201.	6.0	328
5	Serotonin neurons in the dorsal raphe nucleus encode reward signals. <i>Nature Communications</i> , 2016, 7, 10503.	5.8	299
6	Dual functions of mammalian olfactory sensory neurons as odor detectors and mechanical sensors. <i>Nature Neuroscience</i> , 2007, 10, 348-354.	7.1	293
7	A genetically encoded fluorescent acetylcholine indicator for in vitro and in vivo studies. <i>Nature Biotechnology</i> , 2018, 36, 726-737.	9.4	292
8	Habenula Cholinergic Neurons Corelease Glutamate and Acetylcholine and Activate Postsynaptic Neurons via Distinct Transmission Modes. <i>Neuron</i> , 2011, 69, 445-452.	3.8	284
9	Whole-brain mapping of the direct inputs and axonal projections of POMC and AgRP neurons. <i>Frontiers in Neuroanatomy</i> , 2015, 9, 40.	0.9	218
10	Detection of Near-Atmospheric Concentrations of CO ₂ by an Olfactory Subsystem in the Mouse. <i>Science</i> , 2007, 317, 953-957.	6.0	216
11	Single-cell transcriptomes and whole-brain projections of serotonin neurons in the mouse dorsal and median raphe nuclei. <i>ELife</i> , 2019, 8, .	2.8	189
12	Response Correlation Maps of Neurons in the Mammalian Olfactory Bulb. <i>Neuron</i> , 2001, 32, 1165-1179.	3.8	175
13	A Visual Circuit Related to Habenula Underlies the Antidepressive Effects of Light Therapy. <i>Neuron</i> , 2019, 102, 128-142.e8.	3.8	174
14	Odor Information Processing by the Olfactory Bulb Analyzed in Gene-Targeted Mice. <i>Neuron</i> , 2010, 65, 912-926.	3.8	161
15	Hypothalamic Circuits for Predation and Evasion. <i>Neuron</i> , 2018, 97, 911-924.e5.	3.8	160
16	Whole-Brain Mapping of Inputs to Projection Neurons and Cholinergic Interneurons in the Dorsal Striatum. <i>PLoS ONE</i> , 2015, 10, e0123381.	1.1	134
17	Presynaptic Excitation via GABA B Receptors in Habenula Cholinergic Neurons Regulates Fear Memory Expression. <i>Cell</i> , 2016, 166, 716-728.	13.5	132
18	A whole-brain map of long-range inputs to GABAergic interneurons in the mouse medial prefrontal cortex. <i>Nature Neuroscience</i> , 2019, 22, 1357-1370.	7.1	132

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19	Selective Activation of Cholinergic Basal Forebrain Neurons Induces Immediate Sleep-wake Transitions. <i>Current Biology</i> , 2014, 24, 693-698.	1.8	121
20	Optogenetic Activation of Basal Forebrain Cholinergic Neurons Modulates Neuronal Excitability and Sensory Responses in the Main Olfactory Bulb. <i>Journal of Neuroscience</i> , 2012, 32, 10105-10116.	1.7	120
21	A GABAergic, Strongly Inhibitory Projection to a Thalamic Nucleus in the Zebra Finch Song System. <i>Journal of Neuroscience</i> , 1999, 19, 6700-6711.	1.7	113
22	An Avian Basal Ganglia Pathway Essential for Vocal Learning Forms a Closed Topographic Loop. <i>Journal of Neuroscience</i> , 2001, 21, 6836-6845.	1.7	112
23	Precise Circuitry Links Bilaterally Symmetric Olfactory Maps. <i>Neuron</i> , 2008, 58, 613-624.	3.8	108
24	Guanylyl cyclase-D in the olfactory CO ₂ neurons is activated by bicarbonate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 2041-2046.	3.3	108
25	Learning shapes the aversion and reward responses of lateral habenula neurons. <i>ELife</i> , 2017, 6, .	2.8	105
26	Neurochemical phenotypes of the afferent and efferent projections of the mouse medial habenula. <i>Neuroscience</i> , 2009, 161, 827-837.	1.1	104
27	Long-range GABAergic projection in a circuit essential for vocal learning. <i>Journal of Comparative Neurology</i> , 1999, 403, 68-84.	0.9	102
28	Cell-type-specific and projection-specific brain-wide reconstruction of single neurons. <i>Nature Methods</i> , 2018, 15, 1033-1036.	9.0	97
29	Role for the Membrane Receptor Guanylyl Cyclase-C in Attention Deficiency and Hyperactive Behavior. <i>Science</i> , 2011, 333, 1642-1646.	6.0	95
30	A hybridization-chain-reaction-based method for amplifying immunosignals. <i>Nature Methods</i> , 2018, 15, 275-278.	9.0	91
31	Npas1 ⁺ Pallidal Neurons Target Striatal Projection Neurons. <i>Journal of Neuroscience</i> , 2016, 36, 5472-5488.	1.7	88
32	Multi-channel fiber photometry for population neuronal activity recording. <i>Biomedical Optics Express</i> , 2015, 6, 3919.	1.5	87
33	Reward processing by the dorsal raphe nucleus: 5-HT and beyond. <i>Learning and Memory</i> , 2015, 22, 452-460.	0.5	87
34	Habenular CB1 Receptors Control the Expression of Aversive Memories. <i>Neuron</i> , 2015, 88, 306-313.	3.8	81
35	Microscale optoelectronic infrared-to-visible upconversion devices and their use as injectable light sources. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6632-6637.	3.3	81
36	Diverse Patterns of Odor Representation by Neurons in the Anterior Piriform Cortex of Awake Mice. <i>Journal of Neuroscience</i> , 2010, 30, 16662-16672.	1.7	77

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37	Encoding pheromonal signals in the mammalian vomeronasal system. <i>Current Opinion in Neurobiology</i> , 2004, 14, 428-434.	2.0	73
38	Cortical-Like Functional Organization of the Pheromone-Processing Circuits in the Medial Amygdala. <i>Journal of Neurophysiology</i> , 2008, 99, 77-86.	0.9	69
39	A retinoraphe projection regulates serotonergic activity and looming-evoked defensive behaviour. <i>Nature Communications</i> , 2017, 8, 14908.	5.8	68
40	The Raphe Dopamine System Controls the Expression of Incentive Memory. <i>Neuron</i> , 2020, 106, 498-514.e8.	3.8	65
41	Learning and Stress Shape the Reward Response Patterns of Serotonin Neurons. <i>Journal of Neuroscience</i> , 2017, 37, 8863-8875.	1.7	61
42	Do dorsal raphe 5-HT neurons encode "beneficialness"? <i>Neurobiology of Learning and Memory</i> , 2016, 135, 40-49.	1.0	59
43	A Central Catecholaminergic Circuit Controls Blood Glucose Levels during Stress. <i>Neuron</i> , 2017, 95, 138-152.e5.	3.8	59
44	Response dynamics of midbrain dopamine neurons and serotonin neurons to heroin, nicotine, cocaine, and MDMA. <i>Cell Discovery</i> , 2018, 4, 60.	3.1	51
45	Prospective Coding of Dorsal Raphe Reward Signals by the Orbitofrontal Cortex. <i>Journal of Neuroscience</i> , 2015, 35, 2717-2730.	1.7	50
46	Pharmacogenetic activation of midbrain dopaminergic neurons induces hyperactivity. <i>Neuroscience Bulletin</i> , 2013, 29, 517-524.	1.5	44
47	Optogenetic activation of dorsal raphe neurons rescues the autistic-like social deficits in Shank3 knockout mice. <i>Cell Research</i> , 2017, 27, 950-953.	5.7	41
48	Retrograde inhibition by a specific subset of interpeduncular ± 5 nicotinic neurons regulates nicotine preference. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 13012-13017.	3.3	41
49	Control of locomotor speed, arousal, and hippocampal theta rhythms by the nucleus incertus. <i>Nature Communications</i> , 2020, 11, 262.	5.8	40
50	Reward Contributions to Serotonergic Functions. <i>Annual Review of Neuroscience</i> , 2020, 43, 141-162.	5.0	37
51	Colocalized, bidirectional optogenetic modulations in freely behaving mice with a wireless dual-color optoelectronic probe. <i>Nature Communications</i> , 2022, 13, 839.	5.8	31
52	Intrinsic and Synaptic Properties of Neurons in an Avian Thalamic Nucleus During Song Learning. <i>Journal of Neurophysiology</i> , 2002, 88, 1903-1914.	0.9	30
53	Long-term Fiber Photometry for Neuroscience Studies. <i>Neuroscience Bulletin</i> , 2019, 35, 425-433.	1.5	30
54	Wirelessly Operated, Implantable Optoelectronic Probes for Optogenetics in Freely Moving Animals. <i>IEEE Transactions on Electron Devices</i> , 2019, 66, 785-792.	1.6	30

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55	Distinct Anatomical Connectivity Patterns Differentiate Subdivisions of the Nonlemniscal Auditory Thalamus in Mice. <i>Cerebral Cortex</i> , 2019, 29, 2437-2454.	1.6	28
56	Natriuretic peptides block synaptic transmission by activating phosphodiesterase 2A and reducing presynaptic PKA activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 17681-17686.	3.3	27
57	Transcriptomic encoding of sensorimotor transformation in the midbrain. <i>ELife</i> , 2021, 10, .	2.8	27
58	Neural detection of gases—carbon dioxide, oxygen—in vertebrates and invertebrates. <i>Current Opinion in Neurobiology</i> , 2009, 19, 354-361.	2.0	23
59	Electrophysiological analysis of a songbird basal ganglia circuit essential for vocal plasticity. <i>Brain Research Bulletin</i> , 2002, 57, 529-532.	1.4	20
60	The Raphe Dopamine System: Roles in Salience Encoding, Memory Expression, and Addiction. <i>Trends in Neurosciences</i> , 2021, 44, 366-377.	4.2	19
61	The Necklace Olfactory System in Mammals. <i>Journal of Neurogenetics</i> , 2008, 22, 229-238.	0.6	18
62	Response Patterns of GABAergic Neurons in the Anterior Piriform Cortex of Awake Mice. <i>Cerebral Cortex</i> , 2017, 27, bhw175.	1.6	14
63	Quantitative Proteomics of Sleep-Deprived Mouse Brains Reveals Global Changes in Mitochondrial Proteins. <i>PLoS ONE</i> , 2016, 11, e0163500.	1.1	13
64	Long-Range Intracortical Excitation Shapes Olfactory Processing. <i>Neuron</i> , 2011, 72, 1-3.	3.8	12
65	An optical brain-to-brain interface supports rapid information transmission for precise locomotion control. <i>Science China Life Sciences</i> , 2020, 63, 875-885.	2.3	10
66	A neuropsin-based optogenetic tool for precise control of Gq signaling. <i>Science China Life Sciences</i> , 2022, 65, 1271-1284.	2.3	8
67	Whole-Brain Reconstruction of Neurons in the Ventral Pallidum Reveals Diverse Projection Patterns. <i>Frontiers in Neuroanatomy</i> , 2021, 15, 801354.	0.9	7
68	Got milk? A pheromonal message for newborn rabbits. <i>BioEssays</i> , 2004, 26, 6-9.	1.2	6
69	A Neural Circuit Driving Maternal Behaviors. <i>Neuron</i> , 2018, 98, 6-8.	3.8	6
70	Loss of CO2 sensing by the olfactory system of CNGA3 knockout mice. <i>Environmental Epigenetics</i> , 2010, 56, 793-799.	0.9	4
71	Efficient Generation of Mice with Consistent Transgene Expression by FEEST. <i>Scientific Reports</i> , 2015, 5, 16284.	1.6	3
72	Genetically Encoded Neural Activity Indicators. <i>Brain Science Advances</i> , 2018, 4, 1-15.	0.3	2

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73	Gap Junctions Between Striatal D1 Neurons and Cholinergic Interneurons. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 674399.	1.8	2
74	A Hybridization Chain Reaction-based Method for Amplifying Immunosignals. <i>Protocol Exchange</i> , 0, , .	0.3	2
75	KCTD8 and KCTD12 Facilitate Axonal Expression of GABA _B Receptors in Habenula Cholinergic Neurons. <i>Journal of Neuroscience</i> , 2022, 42, 1648-1665.	1.7	1
76	GRIN lens based high speed confocal system for deep brain calcium imaging. , 2017, , .		0
77	The two faces of PVN CRF neurons. <i>Nature Neuroscience</i> , 2019, 22, 508-510.	7.1	0
78	Optical Fiber based Methods for Deep Brain Calcium Signal Measurements in Behaving Mice. , 2016, , .		0