

Lisa Topolnik

List of Publications by Year in descending order

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42
papers

1,853
citations

304743

22
h-index

276875

41
g-index

46
all docs

46
docs citations

46
times ranked

1877
citing authors

#	ARTICLE	IF	CITATIONS
1	Cholinergic Modulation of Dendritic Signaling in Hippocampal GABAergic Inhibitory Interneurons. <i>Neuroscience</i> , 2022, 489, 44-56.	2.3	6
2	Structural analysis of the microglia-interneuron interactions in the CA1 hippocampal area of the APP/PS1 mouse model of Alzheimer's disease. <i>Journal of Comparative Neurology</i> , 2022, 530, 1423-1437.	1.6	4
3	The role of inhibitory circuits in hippocampal memory processing. <i>Nature Reviews Neuroscience</i> , 2022, 23, 476-492.	10.2	35
4	Enhanced motor cortex output and disinhibition in asymptomatic female mice with C9orf72 genetic expansion. <i>Cell Reports</i> , 2022, 40, 111043.	6.4	6
5	Cortical disinhibitory circuits: cell types, connectivity and function. <i>Trends in Neurosciences</i> , 2021, 44, 643-657.	8.6	35
6	Editorial: Spring Hippocampal Research Conference and Beyond. <i>Frontiers in Molecular Neuroscience</i> , 2021, 14, 773308.	2.9	0
7	Sex Differences of Microglia and Synapses in the Hippocampal Dentate Gyrus of Adult Mouse Offspring Exposed to Maternal Immune Activation. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 558181.	3.7	27
8	Alterations in Intrinsic and Synaptic Properties of Hippocampal CA1 VIP Interneurons During Aging. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 554405.	3.7	10
9	Common Principles in Functional Organization of VIP/Calretinin Cell-Driven Disinhibitory Circuits Across Cortical Areas. <i>Frontiers in Neural Circuits</i> , 2020, 14, 32.	2.8	37
10	Synaptic Mechanisms Underlying the Network State-Dependent Recruitment of VIP-Expressing Interneurons in the CA1 Hippocampus. <i>Cerebral Cortex</i> , 2020, 30, 3667-3685.	2.9	36
11	Transcriptomic profile of the subiculum-projecting VIP GABAergic neurons in the mouse CA1 hippocampus. <i>Brain Structure and Function</i> , 2019, 224, 2269-2280.	2.3	25
12	Calcium Dynamics in Dendrites of Hippocampal CA1 Interneurons in Awake Mice. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 98.	3.7	18
13	Calcium extrusion mechanisms in dendrites of mouse hippocampal CA1 inhibitory interneurons. <i>Cell Calcium</i> , 2019, 77, 49-57.	2.4	13
14	Non-linear calcium signalling and synaptic plasticity in interneurons. <i>Current Opinion in Neurobiology</i> , 2019, 54, 98-103.	4.2	24
15	Input-Specific Synaptic Location and Function of the γ -GABA _A Receptor Subunit in the Mouse CA1 Hippocampal Neurons. <i>Journal of Neuroscience</i> , 2019, 39, 788-801.	3.6	54
16	Two-photon Calcium Imaging in Neuronal Dendrites in Brain Slices. <i>Journal of Visualized Experiments</i> , 2018, . .	0.3	4
17	Mechanisms of Supralinear Calcium Integration in Dendrites of Hippocampal CA1 Fast-Spiking Cells. <i>Frontiers in Synaptic Neuroscience</i> , 2018, 10, 47.	2.5	13
18	Connectivity and network state-dependent recruitment of long-range VIP-GABAergic neurons in the mouse hippocampus. <i>Nature Communications</i> , 2018, 9, 5043.	12.8	63

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19	Simple platform for chronic imaging of hippocampal activity during spontaneous behaviour in an awake mouse. <i>Scientific Reports</i> , 2017, 7, 43388.	3.3	17
20	Target-specific alterations in the VIP inhibitory drive to hippocampal GABAergic cells after status epilepticus. <i>Experimental Neurology</i> , 2017, 292, 102-112.	4.1	23
21	Using a Semi-Automated Strategy to Develop Multi-Compartment Models That Predict Biophysical Properties of Interneuron-Specific 3 (IS3) Cells in Hippocampus. <i>ENeuro</i> , 2016, 3, ENEURO.0087-16.2016.	1.9	15
22	Coordination of dendritic inhibition through local disinhibitory circuits. <i>Frontiers in Synaptic Neuroscience</i> , 2015, 7, 5.	2.5	19
23	Dendritic Inhibition Provided by Interneuron-Specific Cells Controls the Firing Rate and Timing of the Hippocampal Feedback Inhibitory Circuitry. <i>Journal of Neuroscience</i> , 2014, 34, 4534-4547.	3.6	114
24	Dendritic Calcium Nonlinearities Switch the Direction of Synaptic Plasticity in Fast-Spiking Interneurons. <i>Journal of Neuroscience</i> , 2014, 34, 3864-3877.	3.6	62
25	Dendritic signaling in inhibitory interneurons: local tuning via group I metabotropic glutamate receptors. <i>Frontiers in Physiology</i> , 2012, 3, 259.	2.8	13
26	Functional compartmentalisation and regulation of postsynaptic Ca ²⁺ transients in inhibitory interneurons. <i>Cell Calcium</i> , 2012, 52, 339-346.	2.4	14
27	Inhibitory control of hippocampal inhibitory neurons. <i>Frontiers in Neuroscience</i> , 2012, 6, 165.	2.8	115
28	Dendritic calcium mechanisms and long-term potentiation in cortical inhibitory interneurons. <i>European Journal of Neuroscience</i> , 2012, 35, 496-506.	2.6	21
29	Cell type-specific and activity-dependent dynamics of action potential-evoked Ca ²⁺ signals in dendrites of hippocampal inhibitory interneurons. <i>Journal of Physiology</i> , 2011, 589, 1957-1977.	2.9	29
30	Age-dependent remodelling of inhibitory synapses onto hippocampal CA1 oriens lacunosum moleculare interneurons. <i>Journal of Physiology</i> , 2011, 589, 4885-4901.	2.9	30
31	Synapse-specific inhibitory control of hippocampal feedback inhibitory circuit. <i>Frontiers in Cellular Neuroscience</i> , 2010, 4, 130.	3.7	64
32	Activity-Dependent Compartmentalized Regulation of Dendritic Ca ²⁺ Signaling in Hippocampal Interneurons. <i>Journal of Neuroscience</i> , 2009, 29, 4658-4663.	3.6	48
33	Forskolin induction of late-LTP and up-regulation of 5â€² TOP mRNAs translation via mTOR, ERK, and PI3K in hippocampal pyramidal cells. <i>Journal of Neurochemistry</i> , 2008, 106, 1160-1174.	3.9	80
34	State-Dependent cAMP Sensitivity of Presynaptic Function Underlies Metaplasticity in a Hippocampal Feedforward Inhibitory Circuit. <i>Neuron</i> , 2008, 60, 980-987.	8.1	63
35	Staufen1 Regulation of Protein Synthesis-Dependent Long-Term Potentiation and Synaptic Function in Hippocampal Pyramidal Cells. <i>Molecular and Cellular Biology</i> , 2008, 28, 2896-2907.	2.3	75
36	Developmental Expression of Ca ²⁺ -Permeable AMPA Receptors Underlies Depolarization-Induced Long-Term Depression at Mossy Fiber-CA3 Pyramid Synapses. <i>Journal of Neuroscience</i> , 2007, 27, 11651-11662.	3.6	91

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37	Compartmentalized Ca ²⁺ Channel Regulation at Divergent Mossy-Fiber Release Sites Underlies Target Cell-Dependent Plasticity. <i>Neuron</i> , 2006, 52, 497-510.	8.1	105
38	mGluR1/5 subtype-specific calcium signalling and induction of long-term potentiation in rat hippocampal oriens/alveus interneurons. <i>Journal of Physiology</i> , 2006, 575, 115-131.	2.9	103
39	Differential Regulation of Metabotropic Glutamate Receptor- and AMPA Receptor-Mediated Dendritic Ca ²⁺ Signals by Presynaptic and Postsynaptic Activity in Hippocampal Interneurons. <i>Journal of Neuroscience</i> , 2005, 25, 990-1001.	3.6	69
40	Hyperexcitability of intact neurons underlies acute development of trauma-related electrographic seizures in cats in vivo. <i>European Journal of Neuroscience</i> , 2003, 18, 486-496.	2.6	70
41	Partial Cortical Deafferentation Promotes Development of Paroxysmal Activity. <i>Cerebral Cortex</i> , 2003, 13, 883-893.	2.9	149
42	Depolarization-Induced Long-Term Depression at Hippocampal Mossy Fiber-CA3 Pyramidal Neuron Synapses. <i>Journal of Neuroscience</i> , 2003, 23, 9786-9795.	3.6	51