

Spencer L Smith

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

2,379
citations

361296
20
h-index

454834
30
g-index

35
all docs

35
docs citations

35
times ranked

3281
citing authors

#	ARTICLE	IF	CITATIONS
1	Dendritic spikes enhance stimulus selectivity in cortical neurons in vivo. <i>Nature</i> , 2013, 503, 115-120.	13.7	362
2	Wide field-of-view, multi-region, two-photon imaging of neuronal activity in the mammalian brain. <i>Nature Biotechnology</i> , 2016, 34, 857-862.	9.4	277
3	Technologies for imaging neural activity in large volumes. <i>Nature Neuroscience</i> , 2016, 19, 1154-1164.	7.1	248
4	Improving data quality in neuronal population recordings. <i>Nature Neuroscience</i> , 2016, 19, 1165-1174.	7.1	210
5	Parallel processing of visual space by neighboring neurons in mouse visual cortex. <i>Nature Neuroscience</i> , 2010, 13, 1144-1149.	7.1	194
6	Experience-dependent binocular competition in the visual cortex begins at eye opening. <i>Nature Neuroscience</i> , 2007, 10, 370-375.	7.1	129
7	Target-Specific Effects of Somatostatin-Expressing Interneurons on Neocortical Visual Processing. <i>Journal of Neuroscience</i> , 2013, 33, 19567-19578.	1.7	110
8	A Preferentially Segregated Recycling Vesicle Pool of Limited Size Supports Neurotransmission in Native Central Synapses. <i>Neuron</i> , 2012, 76, 579-589.	3.8	89
9	Persistent Changes in Spontaneous Firing of Purkinje Neurons Triggered by the Nitric Oxide Signaling Cascade. <i>Journal of Neuroscience</i> , 2003, 23, 367-372.	1.7	78
10	The Beat Goes On: Spontaneous Firing in Mammalian Neuronal Microcircuits. <i>Journal of Neuroscience</i> , 2004, 24, 9215-9219.	1.7	73
11	Synapse-Specific Control of Experience-Dependent Plasticity by Presynaptic NMDA Receptors. <i>Neuron</i> , 2014, 83, 879-893.	3.8	70
12	Stream-dependent development of higher visual cortical areas. <i>Nature Neuroscience</i> , 2017, 20, 200-208.	7.1	64
13	Controlling neural circuits with light. <i>Nature</i> , 2007, 446, 617-619.	13.7	61
14	Maternal Loss of <i>Ube3a</i> Impairs Experience-Driven Dendritic Spine Maintenance in the Developing Visual Cortex. <i>Journal of Neuroscience</i> , 2016, 36, 4888-4894.	1.7	55
15	Diesel2p mesoscope with dual independent scan engines for flexible capture of dynamics in distributed neural circuitry. <i>Nature Communications</i> , 2021, 12, 6639.	5.8	54
16	A touchscreen based global motion perception task for mice. <i>Vision Research</i> , 2016, 127, 74-83.	0.7	48
17	Pattern-dependent, simultaneous plasticity differentially transforms the input-output relationship of a feedforward circuit. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 14901-14906.	3.3	45
18	Ipsilateral Eye Cortical Maps Are Uniquely Sensitive to Binocular Plasticity. <i>Journal of Neurophysiology</i> , 2009, 101, 855-861.	0.9	32

#	ARTICLE	IF	CITATIONS
19	<i>Ube3a</i> loss increases excitability and blunts orientation tuning in the visual cortex of Angelman syndrome model mice. <i>Journal of Neurophysiology</i> , 2017, 118, 634-646.	0.9	27
20	Mice use robust and common strategies to discriminate natural scenes. <i>Scientific Reports</i> , 2018, 8, 1379.	1.6	27
21	Flexible simultaneous mesoscale two-photon imaging of neural activity at high speeds. <i>Nature Communications</i> , 2021, 12, 6638.	5.8	21
22	Neurophotonic Tools for Microscopic Measurements and Manipulation: Status Report. <i>NeuroPhotonics</i> , 2022, 9, 013001.	1.7	17
23	An ultra small array of electrodes for stimulating multiple inputs into a single neuron. <i>Journal of Neuroscience Methods</i> , 2004, 133, 109-114.	1.3	14
24	Genotype- and sex-dependent effects of altered <i>Cntnap2</i> expression on the function of visual cortical areas. <i>Journal of Neurodevelopmental Disorders</i> , 2017, 9, 2.	1.5	10
25	The Refinement of Ipsilateral Eye Retinotopic Maps Is Increased by Removing the Dominant Contralateral Eye in Adult Mice. <i>PLoS ONE</i> , 2010, 5, e9925.	1.1	9
26	Selective representations of texture and motion in mouse higher visual areas. <i>Current Biology</i> , 2022, 32, 2810-2820.e5.	1.8	9
27	Getting it through your thick skull. <i>Nature Neuroscience</i> , 2014, 17, 1018-1019.	7.1	3
28	Dynamic Graph Learning: A Structure-Driven Approach. <i>Mathematics</i> , 2021, 9, 168.	1.1	3
29	The Impact of SST and PV Interneurons on Nonlinear Synaptic Integration in the Neocortex. <i>ENeuro</i> , 2021, 8, ENEURO.0235-21.2021.	0.9	3
30	Deficits in higher visual area representations in a mouse model of Angelman syndrome. <i>Journal of Neurodevelopmental Disorders</i> , 2020, 12, 28.	1.5	2