Spencer L Smith

List of Publications by Year
in descending order

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	Neurophotonic Tools for Microscopic Measurements and Manipulation: Status Report. Neurophotonics, 2022, 9, 013001.	1.7	17
2	Selective representations of texture and motion in mouse higher visual areas. Current Biology, 2022, 32, 2810-2820.e5.	1.8	9
3	Dynamic Graph Learning: A Structure-Driven Approach. Mathematics, 2021, 9, 168.	1.1	3
4	The Impact of SST and PV Interneurons on Nonlinear Synaptic Integration in the Neocortex. ENeuro, 2021, 8, ENEURO.0235-21.2021.	0.9	3
5	Flexible simultaneous mesoscale two-photon imaging of neural activity at high speeds. Nature Communications, 2021, 12, 6638.	5.8	21
6	Diesel2p mesoscope with dual independent scan engines for flexible capture of dynamics in distributed neural circuitry. Nature Communications, 2021, 12, 6639.	5.8	54
7	Deficits in higher visual area representations in a mouse model of Angelman syndrome. Journal of Neurodevelopmental Disorders, 2020, 12, 28.	1.5	2
8	Mice use robust and common strategies to discriminate natural scenes. Scientific Reports, 2018, 8, 1379.	1.6	27
9	Stream-dependent development of higher visual cortical areas. Nature Neuroscience, 2017, 20, 200-208.	7.1	64
10	Ube3a loss increases excitability and blunts orientation tuning in the visual cortex of Angelman syndrome model mice. Journal of Neurophysiology, 2017, 118, 634-646.	0.9	27
11	Genotype- and sex-dependent effects of altered Cntnap2 expression on the function of visual cortical areas. Journal of Neurodevelopmental Disorders, 2017, 9, 2.	1.5	10
12	Maternal Loss ofUbe3aImpairs Experience-Driven Dendritic Spine Maintenance in the Developing Visual Cortex. Journal of Neuroscience, 2016, 36, 4888-4894.	1.7	55
13	A touchscreen based global motion perception task for mice. Vision Research, 2016, 127, 74-83.	0.7	48
14	Technologies for imaging neural activity in large volumes. Nature Neuroscience, 2016, 19, 1154-1164.	7.1	248
15	Improving data quality in neuronal population recordings. Nature Neuroscience, 2016, 19, 1165-1174.	7.1	210
16	Wide field-of-view, multi-region, two-photon imaging of neuronal activity in the mammalian brain. Nature Biotechnology, 2016, 34, 857-862.	9.4	277
17	Getting it through your thick skull. Nature Neuroscience, 2014, 17, 1018-1019.	7.1	3
18	Synapse-Specific Control of Experience-Dependent Plasticity by Presynaptic NMDA Receptors. Neuron, 2014, 83, 879-893.	3.8	70

#	Article	IF	Citations
19	Dendritic spikes enhance stimulus selectivity in cortical neurons in vivo. Nature, 2013, 503, 115-120.	13.7	362
20	Target-Specific Effects of Somatostatin-Expressing Interneurons on Neocortical Visual Processing. Journal of Neuroscience, 2013, 33, 19567-19578.	1.7	110
21	A Preferentially Segregated Recycling Vesicle Pool of Limited Size Supports Neurotransmission in Native Central Synapses. Neuron, 2012, 76, 579-589.	3.8	89
22	Parallel processing of visual space by neighboring neurons in mouse visual cortex. Nature Neuroscience, 2010, 13, 1144-1149.	7.1	194
23	The Refinement of Ipsilateral Eye Retinotopic Maps Is Increased by Removing the Dominant Contralateral Eye in Adult Mice. PLoS ONE, 2010, 5, e9925.	1.1	9
24	Ipsilateral Eye Cortical Maps Are Uniquely Sensitive to Binocular Plasticity. Journal of Neurophysiology, 2009, 101, 855-861.	0.9	32
25	Controlling neural circuits with light. Nature, 2007, 446, 617-619.	13.7	61
26	Experience-dependent binocular competition in the visual cortex begins at eye opening. Nature Neuroscience, 2007, 10, 370-375.	7.1	129
27	Pattern-dependent, simultaneous plasticity differentially transforms the input-output relationship of a feedforward circuit. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 14901-14906.	3.3	45
28	The Beat Goes On: Spontaneous Firing in Mammalian Neuronal Microcircuits. Journal of Neuroscience, 2004, 24, 9215-9219.	1.7	73
29	An ultra small array of electrodes for stimulating multiple inputs into a single neuron. Journal of Neuroscience Methods, 2004, 133, 109-114.	1.3	14
30	Persistent Changes in Spontaneous Firing of Purkinje Neurons Triggered by the Nitric Oxide Signaling Cascade. Journal of Neuroscience, 2003, 23, 367-372.	1.7	78