

Mark L Andermann

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

42
papers

4,859
citations

31
h-index

52
g-index

52
ext. papers

6,192
ext. citations

15.7
avg, IF

5.69
L-index

#	Paper	IF	Citations
42	Network anatomy and in vivo physiology of visual cortical neurons. <i>Nature</i> , 2011 , 471, 177-82	50.4	630
41	Broadly tuned response properties of diverse inhibitory neuron subtypes in mouse visual cortex. <i>Neuron</i> , 2010 , 67, 858-71	13.9	419
40	Coupling of total hemoglobin concentration, oxygenation, and neural activity in rat somatosensory cortex. <i>Neuron</i> , 2003 , 39, 353-9	13.9	310
39	Functional specialization of mouse higher visual cortical areas. <i>Neuron</i> , 2011 , 72, 1025-39	13.9	277
38	Simultaneous imaging of total cerebral hemoglobin concentration, oxygenation, and blood flow during functional activation. <i>Optics Letters</i> , 2003 , 28, 28-30	3	270
37	Toward a Wiring Diagram Understanding of Appetite Control. <i>Neuron</i> , 2017 , 95, 757-778	13.9	240
36	Cortico-cortical projections in mouse visual cortex are functionally target specific. <i>Nature Neuroscience</i> , 2013 , 16, 219-26	25.5	215
35	Removable cranial windows for long-term imaging in awake mice. <i>Nature Protocols</i> , 2014 , 9, 2515-2538	18.8	201
34	Coupling of the cortical hemodynamic response to cortical and thalamic neuronal activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 3822-7	11.5	190
33	Embodied information processing: vibrissa mechanics and texture features shape micromotions in actively sensing rats. <i>Neuron</i> , 2008 , 57, 599-613	13.9	166
32	Chronic cellular imaging of mouse visual cortex during operant behavior and passive viewing. <i>Frontiers in Cellular Neuroscience</i> , 2010 , 4, 3	6.1	162
31	Homeostatic circuits selectively gate food cue responses in insular cortex. <i>Nature</i> , 2017 , 546, 611-616	50.4	149
30	Chronic cellular imaging of entire cortical columns in awake mice using microprisms. <i>Neuron</i> , 2013 , 80, 900-13	13.9	137
29	Vibrissa resonance as a transduction mechanism for tactile encoding. <i>Journal of Neuroscience</i> , 2003 , 23, 6499-509	6.6	137
28	Arcuate hypothalamic AgRP and putative POMC neurons show opposite changes in spiking across multiple timescales. <i>ELife</i> , 2015 , 4,	8.9	137
27	Different Neuronal Activity Patterns Induce Different Gene Expression Programs. <i>Neuron</i> , 2018 , 98, 530-546	54.6	129
26	Neurofibrillary tangle-bearing neurons are functionally integrated in cortical circuits in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 510-4	11.5	125

25	A somatotopic map of vibrissa motion direction within a barrel column. <i>Nature Neuroscience</i> , 2006 , 9, 543-51	25.5	113
24	Neural correlates of vibrissa resonance; band-pass and somatotopic representation of high-frequency stimuli. <i>Neuron</i> , 2004 , 42, 451-63	13.9	102
23	Dynamic GABAergic afferent modulation of AgRP neurons. <i>Nature Neuroscience</i> , 2016 , 19, 1628-1635	25.5	99
22	Control of arousal by the orexin neurons. <i>Current Opinion in Neurobiology</i> , 2013 , 23, 752-9	7.6	85
21	Estimation of Current and Future Physiological States in Insular Cortex. <i>Neuron</i> , 2020 , 105, 1094-1111.e10	13.9	55
20	Imaging neuronal populations in behaving rodents: paradigms for studying neural circuits underlying behavior in the mammalian cortex. <i>Journal of Neuroscience</i> , 2013 , 33, 17631-40	6.6	52
19	A mouse model of higher visual cortical function. <i>Current Opinion in Neurobiology</i> , 2014 , 24, 28-33	7.6	51
18	Hunger-Dependent Enhancement of Food Cue Responses in Mouse Postrhinal Cortex and Lateral Amygdala. <i>Neuron</i> , 2016 , 91, 1154-1169	13.9	51
17	Short-term plasticity as a neural mechanism supporting memory and attentional functions. <i>Brain Research</i> , 2011 , 1422, 66-81	3.7	49
16	Bidirectional Anticipation of Future Osmotic Challenges by Vasopressin Neurons. <i>Neuron</i> , 2017 , 93, 57-65.e3	13.9	47
15	Synaptic plasticity defect following visual deprivation in Alzheimer's disease model transgenic mice. <i>Journal of Neuroscience</i> , 2012 , 32, 8004-11	6.6	40
14	A Fine-Scale Functional Logic to Convergence from Retina to Thalamus. <i>Cell</i> , 2018 , 173, 1343-1355.e24	56.2	36
13	State-specific gating of salient cues by midbrain dopaminergic input to basal amygdala. <i>Nature Neuroscience</i> , 2019 , 22, 1820-1833	25.5	34
12	Intermingled Ensembles in Visual Association Cortex Encode Stimulus Identity or Predicted Outcome. <i>Neuron</i> , 2018 , 100, 900-915.e9	13.9	31
11	Preemptive Stimulation of AgRP Neurons in Fed Mice Enables Conditioned Food Seeking under Threat. <i>Current Biology</i> , 2016 , 26, 2500-2507	6.3	28
10	Inflammation of the Embryonic Choroid Plexus Barrier following Maternal Immune Activation. <i>Developmental Cell</i> , 2020 , 55, 617-628.e6	10.2	20
9	Gating of visual processing by physiological need. <i>Current Opinion in Neurobiology</i> , 2018 , 49, 16-23	7.6	18
8	Tracking Calcium Dynamics and Immune Surveillance at the Choroid Plexus Blood-Cerebrospinal Fluid Interface. <i>Neuron</i> , 2020 , 108, 623-639.e10	13.9	17

7	Retinal Inputs to the Thalamus Are Selectively Gated by Arousal. <i>Current Biology</i> , 2020 , 30, 3923-3934.e963	12
6	Cortical reactivations of recent sensory experiences predict bidirectional network changes during learning. <i>Nature Neuroscience</i> , 2020 , 23, 981-991	25.5 10
5	Hypothalamic dopamine neurons motivate mating through persistent cAMP signalling. <i>Nature</i> , 2021 , 597, 245-249	50.4 6
4	Cellular activity in insular cortex across seconds to hours: Sensations and predictions of bodily states. <i>Neuron</i> , 2021 , 109, 3576-3593	13.9 4
3	Yummy or yucky? Ask your central amygdala. <i>Nature Neuroscience</i> , 2017 , 20, 1321-1322	25.5 2
2	Neuronal basis of optical imaging signals in sensory cortex. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005 , 25, S683-S683	7.3 1
1	History-dependent dopamine release increases cAMP levels in most basal amygdala glutamatergic neurons to control learning.. <i>Cell Reports</i> , 2022 , 38, 110297	10.6 0