

Mark L Andermann

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

6,960
citations

109321

35
h-index

243625

44
g-index

52
all docs

52
docs citations

52
times ranked

7696
citing authors

#	ARTICLE	IF	CITATIONS
1	Network anatomy and in vivo physiology of visual cortical neurons. <i>Nature</i> , 2011, 471, 177-182.	27.8	797
2	Broadly Tuned Response Properties of Diverse Inhibitory Neuron Subtypes in Mouse Visual Cortex. <i>Neuron</i> , 2010, 67, 858-871.	8.1	549
3	Toward a Wiring Diagram Understanding of Appetite Control. <i>Neuron</i> , 2017, 95, 757-778.	8.1	391
4	Functional Specialization of Mouse Higher Visual Cortical Areas. <i>Neuron</i> , 2011, 72, 1025-1039.	8.1	378
5	Coupling of Total Hemoglobin Concentration, Oxygenation, and Neural Activity in Rat Somatosensory Cortex. <i>Neuron</i> , 2003, 39, 353-359.	8.1	360
6	Removable cranial windows for long-term imaging in awake mice. <i>Nature Protocols</i> , 2014, 9, 2515-2538.	12.0	336
7	Simultaneous imaging of total cerebral hemoglobin concentration, oxygenation, and blood flow during functional activation. <i>Optics Letters</i> , 2003, 28, 28.	3.3	320
8	Cortico-cortical projections in mouse visual cortex are functionally target specific. <i>Nature Neuroscience</i> , 2013, 16, 219-226.	14.8	284
9	Different Neuronal Activity Patterns Induce Different Gene Expression Programs. <i>Neuron</i> , 2018, 98, 530-546.e11.	8.1	262
10	Homeostatic circuits selectively gate food cue responses in insular cortex. <i>Nature</i> , 2017, 546, 611-616.	27.8	256
11	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, 3822-3827.	7.1	207
12	Arcuate hypothalamic AgRP and putative POMC neurons show opposite changes in spiking across multiple timescales. <i>ELife</i> , 2015, 4, .	6.0	199
13	Chronic cellular imaging of mouse visual cortex during operant behavior and passive viewing. <i>Frontiers in Cellular Neuroscience</i> , 2010, 4, 3.	3.7	196
14	Chronic Cellular Imaging of Entire Cortical Columns in Awake Mice Using Microprisms. <i>Neuron</i> , 2013, 80, 900-913.	8.1	195
15	Embodied Information Processing: Vibrissa Mechanics and Texture Features Shape Micromotions in Actively Sensing Rats. <i>Neuron</i> , 2008, 57, 599-613.	8.1	185
16	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, 510-514.	7.1	170
17	Dynamic GABAergic afferent modulation of AgRP neurons. <i>Nature Neuroscience</i> , 2016, 19, 1628-1635.	14.8	165
18	Vibrissa Resonance as a Transduction Mechanism for Tactile Encoding. <i>Journal of Neuroscience</i> , 2003, 23, 6499-6509.	3.6	157

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19	A somatotopic map of vibrissa motion direction within a barrel column. <i>Nature Neuroscience</i> , 2006, 9, 543-551.	14.8	149
20	Estimation of Current and Future Physiological States in Insular Cortex. <i>Neuron</i> , 2020, 105, 1094-1111.e10.	8.1	142
21	Neural Correlates of Vibrissa Resonance. <i>Neuron</i> , 2004, 42, 451-463.	8.1	116
22	Control of arousal by the orexin neurons. <i>Current Opinion in Neurobiology</i> , 2013, 23, 752-759.	4.2	107
23	State-specific gating of salient cues by midbrain dopaminergic input to basal amygdala. <i>Nature Neuroscience</i> , 2019, 22, 1820-1833.	14.8	103
24	A Fine-Scale Functional Logic to Convergence from Retina to Thalamus. <i>Cell</i> , 2018, 173, 1343-1355.e24.	28.9	86
25	Hunger-Dependent Enhancement of Food Cue Responses in Mouse Postrhinal Cortex and Lateral Amygdala. <i>Neuron</i> , 2016, 91, 1154-1169.	8.1	79
26	A mouse model of higher visual cortical function. <i>Current Opinion in Neurobiology</i> , 2014, 24, 28-33.	4.2	71
27	Bidirectional Anticipation of Future Osmotic Challenges by Vasopressin Neurons. <i>Neuron</i> , 2017, 93, 57-65.	8.1	63
28	Hypothalamic dopamine neurons motivate mating through persistent cAMP signalling. <i>Nature</i> , 2021, 597, 245-249.	27.8	63
29	Short-term plasticity as a neural mechanism supporting memory and attentional functions. <i>Brain Research</i> , 2011, 1422, 66-81.	2.2	62
30	Imaging Neuronal Populations in Behaving Rodents: Paradigms for Studying Neural Circuits Underlying Behavior in the Mammalian Cortex. <i>Journal of Neuroscience</i> , 2013, 33, 17631-17640.	3.6	58
31	Inflammation of the Embryonic Choroid Plexus Barrier following Maternal Immune Activation. <i>Developmental Cell</i> , 2020, 55, 617-628.e6.	7.0	57
32	Tracking Calcium Dynamics and Immune Surveillance at the Choroid Plexus Blood-Cerebrospinal Fluid Interface. <i>Neuron</i> , 2020, 108, 623-639.e10.	8.1	56
33	Intermingled Ensembles in Visual Association Cortex Encode Stimulus Identity or Predicted Outcome. <i>Neuron</i> , 2018, 100, 900-915.e9.	8.1	53
34	Synaptic Plasticity Defect Following Visual Deprivation in Alzheimer's Disease Model Transgenic Mice. <i>Journal of Neuroscience</i> , 2012, 32, 8004-8011.	3.6	52
35	Preemptive Stimulation of AgRP Neurons in Fed Mice Enables Conditioned Food Seeking under Threat. <i>Current Biology</i> , 2016, 26, 2500-2507.	3.9	47
36	Cellular activity in insular cortex across seconds to hours: Sensations and predictions of bodily states. <i>Neuron</i> , 2021, 109, 3576-3593.	8.1	45

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37	Retinal Inputs to the Thalamus Are Selectively Gated by Arousal. <i>Current Biology</i> , 2020, 30, 3923-3934.e9.	3.9	36
38	Gating of visual processing by physiological need. <i>Current Opinion in Neurobiology</i> , 2018, 49, 16-23.	4.2	33
39	Cortical reactivations of recent sensory experiences predict bidirectional network changes during learning. <i>Nature Neuroscience</i> , 2020, 23, 981-991.	14.8	29
40	History-dependent dopamine release increases cAMP levels in most basal amygdala glutamatergic neurons to control learning. <i>Cell Reports</i> , 2022, 38, 110297.	6.4	18
41	Neural basis for regulation of vasopressin secretion by anticipated disturbances in osmolality. <i>ELife</i> , 2021, 10, .	6.0	10
42	Visual association cortex links cues with conjunctions of reward and locomotor contexts. <i>Current Biology</i> , 2022, 32, 1563-1576.e8.	3.9	9
43	Yummy or yucky? Ask your central amygdala. <i>Nature Neuroscience</i> , 2017, 20, 1321-1322.	14.8	6
44	Neuronal basis of optical imaging signals in sensory cortex. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S683-S683.	4.3	1