

# Marius PachiaŃariu

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

8,274  
citations

535685

17  
h-index

843174

20  
g-index

38  
all docs

38  
docs citations

38  
times ranked

8113  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fully integrated silicon probes for high-density recording of neural activity. <i>Nature</i> , 2017, 551, 232-236.	13.7	1,531
2	Cellpose: a generalist algorithm for cellular segmentation. <i>Nature Methods</i> , 2021, 18, 100-106.	9.0	1,375
3	Spontaneous behaviors drive multidimensional, brainwide activity. <i>Science</i> , 2019, 364, 255.	6.0	1,013
4	Neuropixels 2.0: A miniaturized high-density probe for stable, long-term brain recordings. <i>Science</i> , 2021, 372, .	6.0	467
5	High-dimensional geometry of population responses in visual cortex. <i>Nature</i> , 2019, 571, 361-365.	13.7	370
6	Learning Enhances Sensory and Multiple Non-sensory Representations in Primary Visual Cortex. <i>Neuron</i> , 2015, 86, 1478-1490.	3.8	358
7	Survey of spiking in the mouse visual system reveals functional hierarchy. <i>Nature</i> , 2021, 592, 86-92.	13.7	284
8	Thirst regulates motivated behavior through modulation of brainwide neural population dynamics. <i>Science</i> , 2019, 364, 253.	6.0	256
9	Vision and Locomotion Shape the Interactions between Neuron Types in Mouse Visual Cortex. <i>Neuron</i> , 2018, 98, 602-615.e8.	3.8	204
10	Toroidal topology of population activity in grid cells. <i>Nature</i> , 2022, 602, 123-128.	13.7	152
11	Robustness of Spike Deconvolution for Neuronal Calcium Imaging. <i>Journal of Neuroscience</i> , 2018, 38, 7976-7985.	1.7	143
12	State-Dependent Population Coding in Primary Auditory Cortex. <i>Journal of Neuroscience</i> , 2015, 35, 2058-2073.	1.7	140
13	Community-based benchmarking improves spike rate inference from two-photon calcium imaging data. <i>PLoS Computational Biology</i> , 2018, 14, e1006157.	1.5	118
14	High-precision coding in visual cortex. <i>Cell</i> , 2021, 184, 2767-2778.e15.	13.5	91
15	Arousal Modulates Retinal Output. <i>Neuron</i> , 2020, 107, 487-495.e9.	3.8	90
16	Computational processing of neural recordings from calcium imaging data. <i>Current Opinion in Neurobiology</i> , 2019, 55, 22-31.	2.0	86
17	Inhibitory control of correlated intrinsic variability in cortical networks. <i>ELife</i> , 2016, 5, .	2.8	83
18	Hunger or thirst state uncertainty is resolved by outcome evaluation in medial prefrontal cortex to guide decision-making. <i>Nature Neuroscience</i> , 2021, 24, 907-912.	7.1	28

#	ARTICLE	IF	CITATIONS
19	Neuromatch Academy: Teaching Computational Neuroscience with Global Accessibility. Trends in Cognitive Sciences, 2021, 25, 535-538.	4.0	14
20	Electrode pooling can boost the yield of extracellular recordings with switchable silicon probes. Nature Communications, 2021, 12, 5245.	5.8	4
21	Neuromatch Academy: a 3-week, online summer school in computational neuroscience. The Journal of Open Source Education, 2022, 5, 118.	0.2	0