

Marius Pachitariu

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.

35
papers

3,222
citations

21
h-index

38
g-index

38
ext. papers

5,874
ext. citations

23.5
avg, IF

5.85
L-index

#	Paper	IF	Citations
35	Fully integrated silicon probes for high-density recording of neural activity. <i>Nature</i> , 2017 , 551, 232-236	50.4	849
34	Spontaneous behaviors drive multidimensional, brainwide activity. <i>Science</i> , 2019 , 364, 255	33.3	413
33	Cellpose: a generalist algorithm for cellular segmentation. <i>Nature Methods</i> , 2021 , 18, 100-106	21.6	243
32	Learning Enhances Sensory and Multiple Non-sensory Representations in Primary Visual Cortex. <i>Neuron</i> , 2015 , 86, 1478-90	13.9	213
31	Suite2p: beyond 10,000 neurons with standard two-photon microscopy		196
30	Kilosort: realtime spike-sorting for extracellular electrophysiology with hundreds of channels		165
29	High-dimensional geometry of population responses in visual cortex. <i>Nature</i> , 2019 , 571, 361-365	50.4	152
28	Vision and Locomotion Shape the Interactions between Neuron Types in Mouse Visual Cortex. <i>Neuron</i> , 2018 , 98, 602-615.e8	13.9	142
27	Thirst regulates motivated behavior through modulation of brainwide neural population dynamics. <i>Science</i> , 2019 , 364, 253	33.3	118
26	Neuropixels 2.0: A miniaturized high-density probe for stable, long-term brain recordings. <i>Science</i> , 2021 , 372,	33.3	97
25	State-dependent population coding in primary auditory cortex. <i>Journal of Neuroscience</i> , 2015 , 35, 2058-736		86
24	Robustness of Spike Deconvolution for Neuronal Calcium Imaging. <i>Journal of Neuroscience</i> , 2018 , 38, 7976-7985	6.6	71
23	Community-based benchmarking improves spike rate inference from two-photon calcium imaging data. <i>PLoS Computational Biology</i> , 2018 , 14, e1006157	5	62
22	Survey of spiking in the mouse visual system reveals functional hierarchy. <i>Nature</i> , 2021 , 592, 86-92	50.4	58
21	Inhibitory control of correlated intrinsic variability in cortical networks. <i>ELife</i> , 2016 , 5,	8.9	56
20	Cellpose: a generalist algorithm for cellular segmentation		38
19	Computational processing of neural recordings from calcium imaging data. <i>Current Opinion in Neurobiology</i> , 2019 , 55, 22-31	7.6	34

18	Arousal Modulates Retinal Output. <i>Neuron</i> , 2020 , 107, 487-495.e9	13.9	32
17	A survey of spiking activity reveals a functional hierarchy of mouse corticothalamic visual areas		32
16	Spontaneous behaviors drive multidimensional, brain-wide activity		31
15	High-precision coding in visual cortex. <i>Cell</i> , 2021 , 184, 2767-2778.e15	56.2	24
14	High-dimensional geometry of population responses in visual cortex		20
13	Neuropixels 2.0: A miniaturized high-density probe for stable, long-term brain recordings		16
12	Vision and locomotion shape the interactions between neuron types in mouse visual cortex		12
11	Robustness of spike deconvolution for calcium imaging of neural spiking		12
10	Toroidal topology of population activity in grid cells.. <i>Nature</i> , 2022 ,	50.4	10
9	High precision coding in visual cortex		9
8	Community-based benchmarking improves spike rate inference from two-photon calcium imaging data		8
7	Toroidal topology of population activity in grid cells		8
6	Neuromatch Academy: Teaching Computational Neuroscience with Global Accessibility. <i>Trends in Cognitive Sciences</i> , 2021 , 25, 535-538	14	8
5	Retinal outputs depend on behavioural state		4
4	Electrode pooling: boosting the yield of extracellular recordings with switchable silicon probes		1
3	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	25.5	1
2	Electrode pooling can boost the yield of extracellular recordings with switchable silicon probes. <i>Nature Communications</i> , 2021 , 12, 5245	17.4	0
1	Neuromatch Academy: a 3-week, online summer school in computational neuroscience. <i>The Journal of Open Source Education</i> , 2022 , 5, 118	1.2	

