

Marius Pachitariu

List of Publications by Year in Descending Order

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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	Toroidal topology of population activity in grid cells.. <i>Nature</i> , 2022 ,	50.4	10
34	Neuromatch Academy: a 3-week, online summer school in computational neuroscience. <i>The Journal of Open Source Education</i> , 2022 , 5, 118	1.2	
33	Neuropixels 2.0: A miniaturized high-density probe for stable, long-term brain recordings. <i>Science</i> , 2021 , 372,	33.3	97
32	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
31	High-precision coding in visual cortex. <i>Cell</i> , 2021 , 184, 2767-2778.e15	56.2	24
30	Cellpose: a generalist algorithm for cellular segmentation. <i>Nature Methods</i> , 2021 , 18, 100-106	21.6	243
29	Neuromatch Academy: Teaching Computational Neuroscience with Global Accessibility. <i>Trends in Cognitive Sciences</i> , 2021 , 25, 535-538	14	8
28	Electrode pooling can boost the yield of extracellular recordings with switchable silicon probes. <i>Nature Communications</i> , 2021 , 12, 5245	17.4	0
27	Survey of spiking in the mouse visual system reveals functional hierarchy. <i>Nature</i> , 2021 , 592, 86-92	50.4	58
26	Arousal Modulates Retinal Output. <i>Neuron</i> , 2020 , 107, 487-495.e9	13.9	32
25	Computational processing of neural recordings from calcium imaging data. <i>Current Opinion in Neurobiology</i> , 2019 , 55, 22-31	7.6	34
24	High-dimensional geometry of population responses in visual cortex. <i>Nature</i> , 2019 , 571, 361-365	50.4	152
23	Spontaneous behaviors drive multidimensional, brainwide activity. <i>Science</i> , 2019 , 364, 255	33.3	413
22	Thirst regulates motivated behavior through modulation of brainwide neural population dynamics. <i>Science</i> , 2019 , 364, 253	33.3	118
21	Vision and Locomotion Shape the Interactions between Neuron Types in Mouse Visual Cortex. <i>Neuron</i> , 2018 , 98, 602-615.e8	13.9	142
20	Community-based benchmarking improves spike rate inference from two-photon calcium imaging data. <i>PLoS Computational Biology</i> , 2018 , 14, e1006157	5	62
19	Robustness of Spike Deconvolution for Neuronal Calcium Imaging. <i>Journal of Neuroscience</i> , 2018 , 38, 7976-7985	6.6	71

18	Fully integrated silicon probes for high-density recording of neural activity. <i>Nature</i> , 2017 , 551, 232-236	50.4	849
17	Inhibitory control of correlated intrinsic variability in cortical networks. <i>ELife</i> , 2016 , 5,	8.9	56
16	Learning Enhances Sensory and Multiple Non-sensory Representations in Primary Visual Cortex. <i>Neuron</i> , 2015 , 86, 1478-90	13.9	213
15	State-dependent population coding in primary auditory cortex. <i>Journal of Neuroscience</i> , 2015 , 35, 2058-736	3.6	86
14	Vision and locomotion shape the interactions between neuron types in mouse visual cortex		12
13	Kilosort: realtime spike-sorting for extracellular electrophysiology with hundreds of channels		165
12	Suite2p: beyond 10,000 neurons with standard two-photon microscopy		196
11	Robustness of spike deconvolution for calcium imaging of neural spiking		12
10	Community-based benchmarking improves spike rate inference from two-photon calcium imaging data		8
9	Cellpose: a generalist algorithm for cellular segmentation		38
8	Neuropixels 2.0: A miniaturized high-density probe for stable, long-term brain recordings		16
7	Spontaneous behaviors drive multidimensional, brain-wide activity		31
6	High-dimensional geometry of population responses in visual cortex		20
5	Retinal outputs depend on behavioural state		4
4	High precision coding in visual cortex		9
3	A survey of spiking activity reveals a functional hierarchy of mouse corticothalamic visual areas		32
2	Electrode pooling: boosting the yield of extracellular recordings with switchable silicon probes		1
1	Toroidal topology of population activity in grid cells		8

