Johannes Friedrich

List of Publications by Year
in descending order

15	2,281	759233 12	996975 15
papers	citations	h-index	g-index

23	23	23	2784
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	CaImAn an open source tool for scalable calcium imaging data analysis. ELife, 2019, 8, .	6.0	551
2	Efficient and accurate extraction of in vivo calcium signals from microendoscopic video data. ELife, 2018, 7, .	6.0	489
3	Fast online deconvolution of calcium imaging data. PLoS Computational Biology, 2017, 13, e1005423.	3.2	407
4	Bright and photostable chemigenetic indicators for extended in vivo voltage imaging. Science, 2019, 365, 699-704.	12.6	362
5	Community-based benchmarking improves spike rate inference from two-photon calcium imaging data. PLoS Computational Biology, 2018, 14, e1006157.	3.2	118
6	Goal-Directed Decision Making with Spiking Neurons. Journal of Neuroscience, 2016, 36, 1529-1546.	3.6	62
7	Spatio-Temporal Credit Assignment in Neuronal Population Learning. PLoS Computational Biology, 2011, 7, e1002092.	3.2	46
8	CODE-SPECIFIC LEARNING RULES IMPROVE ACTION SELECTION BY POPULATIONS OF SPIKING NEURONS. International Journal of Neural Systems, 2014, 24, 1450002.	5.2	39
9	Multi-scale approaches for high-speed imaging and analysis of large neural populations. PLoS Computational Biology, 2017, 13, e1005685.	3.2	35
10	Online analysis of microendoscopic 1-photon calcium imaging data streams. PLoS Computational Biology, 2021, 17, e1008565.	3.2	27
11	Dynamics of recurrent neural networks with delayed unreliable synapses: metastable clustering. Journal of Computational Neuroscience, 2009, 27, 65-80.	1.0	26
12	VolPy: Automated and scalable analysis pipelines for voltage imaging datasets. PLoS Computational Biology, 2021, 17, e1008806.	3.2	23
13	Learning Spike-Based Population Codes by Reward and Population Feedback. Neural Computation, 2010, 22, 1698-1717.	2.2	12
14	Human and Machine Learning in Non-Markovian Decision Making. PLoS ONE, 2015, 10, e0123105.	2.5	9
15	Spike-based Decision Learning of Nash Equilibria in Two-Player Games. PLoS Computational Biology, 2012, 8, e1002691.	3.2	5