

# Johannes Friedrich

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3028063/publications.pdf>

Version: 2024-02-01

15  
papers

2,281  
citations

759233

12  
h-index

996975

15  
g-index

23  
all docs

23  
docs citations

23  
times ranked

2784  
citing authors

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