

Rodrigo Perin

List of Publications by Year in descending order

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Version: 2024-02-01

16
papers

3,363
citations

686830

13
h-index

940134

16
g-index

21
all docs

21
docs citations

21
times ranked

4119
citing authors

#	ARTICLE	IF	CITATIONS
1	Reconstruction and Simulation of Neocortical Microcircuitry. <i>Cell</i> , 2015, 163, 456-492.	13.5	1,258
2	A synaptic organizing principle for cortical neuronal groups. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 5419-5424.	3.3	592
3	Ephaptic coupling of cortical neurons. <i>Nature Neuroscience</i> , 2011, 14, 217-223.	7.1	443
4	Cliques of Neurons Bound into Cavities Provide a Missing Link between Structure and Function. <i>Frontiers in Computational Neuroscience</i> , 2017, 11, 48.	1.2	274
5	A Biophysically Detailed Model of Neocortical Local Field Potentials Predicts the Critical Role of Active Membrane Currents. <i>Neuron</i> , 2013, 79, 375-390.	3.8	259
6	Brief Bursts Self-Inhibit and Correlate the Pyramidal Network. <i>PLoS Biology</i> , 2010, 8, e1000473.	2.6	86
7	Frequency-dependent disynaptic inhibition in the pyramidal network: a ubiquitous pathway in the developing rat neocortex. <i>Journal of Physiology</i> , 2009, 587, 5411-5425.	1.3	82
8	Objective Morphological Classification of Neocortical Pyramidal Cells. <i>Cerebral Cortex</i> , 2019, 29, 1719-1735.	1.6	75
9	Computing the size and number of neuronal clusters in local circuits. <i>Frontiers in Neuroanatomy</i> , 2013, 7, 1.	0.9	72
10	Cell type- and activity-dependent extracellular correlates of intracellular spiking. <i>Journal of Neurophysiology</i> , 2015, 114, 608-623.	0.9	70
11	A Computer-assisted Multi-electrode Patch-clamp System. <i>Journal of Visualized Experiments</i> , 2013, , e50630.	0.2	31
12	A calcium-based plasticity model for predicting long-term potentiation and depression in the neocortex. <i>Nature Communications</i> , 2022, 13, .	5.8	30
13	On the Structure of Cortical Microcircuits Inferred from Small Sample Sizes. <i>Journal of Neuroscience</i> , 2017, 37, 8498-8510.	1.7	23
14	Estimating the Readily-Releasable Vesicle Pool Size at Synaptic Connections in the Neocortex. <i>Frontiers in Synaptic Neuroscience</i> , 2019, 11, 29.	1.3	18
15	Phase-sensitive optical neural recording of cerebellum tissue on a flexible interface. <i>Journal of Applied Physics</i> , 2020, 127, 113101.	1.1	13
16	Innate Neural Assemblies for Lego Memory. <i>Frontiers in Neural Circuits</i> , 2011, 5, 6.	1.4	10