

Rodrigo Perin

List of Publications by Year in descending order

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Version: 2024-02-01

16
papers

3,363
citations

687363
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940533
16
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21
all docs

21
docs citations

21
times ranked

4119
citing authors

#	ARTICLE	IF	CITATIONS
1	Reconstruction and Simulation of Neocortical Microcircuitry. Cell, 2015, 163, 456-492.	28.9	1,258
2	A synaptic organizing principle for cortical neuronal groups. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 5419-5424.	7.1	592
3	Ephaptic coupling of cortical neurons. Nature Neuroscience, 2011, 14, 217-223.	14.8	443
4	Cliques of Neurons Bound into Cavities Provide a Missing Link between Structure and Function. Frontiers in Computational Neuroscience, 2017, 11, 48.	2.1	274
5	A Biophysically Detailed Model of Neocortical Local Field Potentials Predicts the Critical Role of Active Membrane Currents. Neuron, 2013, 79, 375-390.	8.1	259
6	Brief Bursts Self-Inhibit and Correlate the Pyramidal Network. PLoS Biology, 2010, 8, e1000473.	5.6	86
7	Frequencyâ€dependent disynaptic inhibition in the pyramidal network: a ubiquitous pathway in the developing rat neocortex. Journal of Physiology, 2009, 587, 5411-5425.	2.9	82
8	Objective Morphological Classification of Neocortical Pyramidal Cells. Cerebral Cortex, 2019, 29, 1719-1735.	2.9	75
9	Computing the size and number of neuronal clusters in local circuits. Frontiers in Neuroanatomy, 2013, 7, 1.	1.7	72
10	Cell type- and activity-dependent extracellular correlates of intracellular spiking. Journal of Neurophysiology, 2015, 114, 608-623.	1.8	70
11	A Computer-assisted Multi-electrode Patch-clamp System. Journal of Visualized Experiments, 2013, , e50630.	0.3	31
12	A calcium-based plasticity model for predicting long-term potentiation and depression in the neocortex. Nature Communications, 2022, 13, .	12.8	30
13	On the Structure of Cortical Microcircuits Inferred from Small Sample Sizes. Journal of Neuroscience, 2017, 37, 8498-8510.	3.6	23
14	Estimating the Readily-Releasable Vesicle Pool Size at Synaptic Connections in the Neocortex. Frontiers in Synaptic Neuroscience, 2019, 11, 29.	2.5	18
15	Phase-sensitive optical neural recording of cerebellum tissue on a flexible interface. Journal of Applied Physics, 2020, 127, 113101.	2.5	13
16	Innate Neural Assemblies for Lego Memory. Frontiers in Neural Circuits, 2011, 5, 6.	2.8	10