

Jaime de la Rocha

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

2,445
citations

759233

12
h-index

713466

21
g-index

29
all docs

29
docs citations

29
times ranked

2256
citing authors

#	ARTICLE	IF	CITATIONS
1	The Asynchronous State in Cortical Circuits. <i>Science</i> , 2010, 327, 587-590.	12.6	955
2	Correlation between neural spike trains increases with firing rate. <i>Nature</i> , 2007, 448, 802-806.	27.8	569
3	Sensory integration dynamics in a hierarchical network explains choice probabilities in cortical area MT. <i>Nature Communications</i> , 2015, 6, 6177.	12.8	145
4	Correlation and Synchrony Transfer in Integrate-and-Fire Neurons: Basic Properties and Consequences for Coding. <i>Physical Review Letters</i> , 2008, 100, 108102.	7.8	120
5	UP-DOWN cortical dynamics reflect state transitions in a bistable network. <i>ELife</i> , 2017, 6, .	6.0	114
6	Response of Spiking Neurons to Correlated Inputs. <i>Physical Review Letters</i> , 2002, 89, 288101.	7.8	80
7	Linking the Response Properties of Cells in Auditory Cortex with Network Architecture: Cotuning versus Lateral Inhibition. <i>Journal of Neuroscience</i> , 2008, 28, 9151-9163.	3.6	79
8	Stimulus-Dependent Correlations and Population Codes. <i>Neural Computation</i> , 2009, 21, 2774-2804.	2.2	75
9	Short-Term Synaptic Depression Causes a Non-Monotonic Response to Correlated Stimuli. <i>Journal of Neuroscience</i> , 2005, 25, 8416-8431.	3.6	65
10	Stochastic transitions into silence cause noise correlations in cortical circuits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 3529-3534.	7.1	64
11	How do neurons work together? Lessons from auditory cortex. <i>Hearing Research</i> , 2011, 271, 37-53.	2.0	51
12	Response outcomes gate the impact of expectations on perceptual decisions. <i>Nature Communications</i> , 2020, 11, 1057.	12.8	31
13	Flexible categorization in perceptual decision making. <i>Nature Communications</i> , 2021, 12, 1283.	12.8	19
14	Cortical state transitions and stimulus response evolve along stiff and sloppy parameter dimensions, respectively. <i>ELife</i> , 2020, 9, .	6.0	12
15	Proactive and reactive accumulation-to-bound processes compete during perceptual decisions. <i>Nature Communications</i> , 2021, 12, 7148.	12.8	12
16	Correlations modulate the non-monotonic response of a neuron with short-term plasticity. <i>Neurocomputing</i> , 2004, 58-60, 313-319.	5.9	9
17	Information transmission by stochastic synapses with short-term depression: neural coding and optimization. <i>Neurocomputing</i> , 2002, 44-46, 85-90.	5.9	8
18	Selective Attention: A Plausible Mechanism Underlying Confirmation Bias. <i>Current Biology</i> , 2018, 28, R1151-R1154.	3.9	6

#	ARTICLE	IF	CITATIONS
19	Thalamocortical transformations of periodic stimuli: the effect of stimulus velocity and synaptic short-term depression in the vibrissa barrel system. <i>Journal of Computational Neuroscience</i> , 2008, 25, 122-140.	1.0	5
20	High-Throughput Task to Study Memory Recall During Spatial Navigation in Rodents. <i>Frontiers in Behavioral Neuroscience</i> , 2020, 14, 64.	2.0	1
21	Scaling of temporal correlations in densely connected networks of LIF neurons. <i>BMC Neuroscience</i> , 2011, 12, .	1.9	0