

Pedro V. Carelli

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

512
citations

840776

11
h-index

752698

20
g-index

30
all docs

30
docs citations

30
times ranked

553
citing authors

#	ARTICLE	IF	CITATIONS
1	Criticality between Cortical States. <i>Physical Review Letters</i> , 2019, 122, 208101.	7.8	159
2	Anticipated synchronization in a biologically plausible model of neuronal motifs. <i>Physical Review E</i> , 2011, 84, 021922.	2.1	55
3	Modeling positive Granger causality and negative phase lag between cortical areas. <i>NeuroImage</i> , 2014, 99, 411-418.	4.2	53
4	Subsampled Directed-Percolation Models Explain Scaling Relations Experimentally Observed in the Brain. <i>Frontiers in Neural Circuits</i> , 2020, 14, 576727.	2.8	37
5	Whole Cell Stochastic Model Reproduces the Irregularities Found in the Membrane Potential of Bursting Neurons. <i>Journal of Neurophysiology</i> , 2005, 94, 1169-1179.	1.8	27
6	Synaptic Correlates of Low-Level Perception in V1. <i>Journal of Neuroscience</i> , 2016, 36, 3925-3942.	3.6	26
7	Self-Organized Near-Zero-Lag Synchronization Induced by Spike-Timing Dependent Plasticity in Cortical Populations. <i>PLoS ONE</i> , 2015, 10, e0140504.	2.5	22
8	Single Synapse Information Coding in Intraburst Spike Patterns of Central Pattern Generator Motor Neurons. <i>Journal of Neuroscience</i> , 2011, 31, 12297-12306.	3.6	19
9	Anticipated synchronization in neuronal circuits unveiled by a phase-response-curve analysis. <i>Physical Review E</i> , 2017, 95, 052410.	2.1	17
10	Inhibitory loop robustly induces anticipated synchronization in neuronal microcircuits. <i>Physical Review E</i> , 2016, 94, 042411.	2.1	13
11	Anticipated and zero-lag synchronization in motifs of delay-coupled systems. <i>Chaos</i> , 2017, 27, 114305.	2.5	12
12	Deterministic chaos in an ytterbium-doped mode-locked fiber laser. <i>Optics Express</i> , 2018, 26, 13686.	3.4	11
13	Exploring the Phase-Locking Mechanisms Yielding Delayed and Anticipated Synchronization in Neuronal Circuits. <i>Frontiers in Systems Neuroscience</i> , 2019, 13, 41.	2.5	11
14	Anticipated synchronization in human EEG data: Unidirectional causality with negative phase lag. <i>Physical Review E</i> , 2020, 102, 032216.	2.1	9
15	A Modeling Approach on Why Simple Central Pattern Generators Are Built of Irregular Neurons. <i>PLoS ONE</i> , 2015, 10, e0120314.	2.5	9
16	Signatures of brain criticality unveiled by maximum entropy analysis across cortical states. <i>Physical Review E</i> , 2020, 102, 012408.	2.1	8
17	Statistical complexity is maximized close to criticality in cortical dynamics. <i>Physical Review E</i> , 2021, 103, 012415.	2.1	8
18	Multiscale Functional Imaging in V1 and Cortical Correlates of Apparent Motion. , 2009, , 73-93.		7

#	ARTICLE	IF	CITATIONS
19	Anticipated synchronization in neuronal motifs. BMC Neuroscience, 2013, 14, .	1.9	4
20	Anticipated synchronization in neuronal network motifs. , 2013, , .		2
21	The interplay between STDP rules and anticipated synchronization in the organization of neuronal networks. BMC Neuroscience, 2013, 14, .	1.9	1
22	Low-cost open hardware system for behavioural experiments simultaneously with electrophysiological recordings. HardwareX, 2020, 8, e00132.	2.2	1
23	The Visual Brain: Computing Through Multiscale Complexity. Research and Perspectives in Neurosciences, 2016, , 43-57.	0.4	1
24	On the basic mechanisms of anticipated synchronization in neuronal circuits. BMC Neuroscience, 2015, 16, .	1.9	0
25	Reconstructing the directionality of coupling between cortical populations with negative phase lag. BMC Neuroscience, 2015, 16, .	1.9	0
26	Behavior and electrophysiological effects on striatum-nigra circuit after high frequency stimulation. Relevance to Parkinson and epilepsy. International Journal of Neuroscience, 2023, 133, 523-531.	1.6	0
27	Inhibitory Feedback Loop Induces Anticipated Synchronization in Neuronal Networks. IEICE Proceeding Series, 2014, 1, 636-639.	0.0	0
28	Feedforward and feedback influences through distinct frequency bands between two spiking-neuron networks. Physical Review E, 2021, 104, 054404.	2.1	0