Pedro V. Carelli

List of Publications by Year
in descending order

28	512	840776 11	752698 20
papers	citations	h-index	g-index

30	30	30	553
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Statistical complexity is maximized close to criticality in cortical dynamics. Physical Review E, 2021, 103, 012415.	2.1	8
3	Feedforward and feedback influences through distinct frequency bands between two spiking-neuron networks. Physical Review E, 2021, 104, 054404.	2.1	0
4	Low-cost open hardware system for behavioural experiments simultaneously with electrophysiological recordings. HardwareX, 2020, 8, e00132.	2.2	1
5	Signatures of brain criticality unveiled by maximum entropy analysis across cortical states. Physical Review E, 2020, 102, 012408.	2.1	8
6	Anticipated synchronization in human EEG data: Unidirectional causality with negative phase lag. Physical Review E, 2020, 102, 032216.	2.1	9
7	Subsampled Directed-Percolation Models Explain Scaling Relations Experimentally Observed in the Brain. Frontiers in Neural Circuits, 2020, 14, 576727.	2.8	37
8	Exploring the Phase-Locking Mechanisms Yielding Delayed and Anticipated Synchronization in Neuronal Circuits. Frontiers in Systems Neuroscience, 2019, 13, 41.	2.5	11
9	Criticality between Cortical States. Physical Review Letters, 2019, 122, 208101.	7.8	159
10	Deterministic chaos in an ytterbium-doped mode-locked fiber laser. Optics Express, 2018, 26, 13686.	3.4	11
11	Anticipated and zero-lag synchronization in motifs of delay-coupled systems. Chaos, 2017, 27, 114305.	2.5	12
12	Anticipated synchronization in neuronal circuits unveiled by a phase-response-curve analysis. Physical Review E, 2017, 95, 052410.	2.1	17
13	Inhibitory loop robustly induces anticipated synchronization in neuronal microcircuits. Physical Review E, 2016, 94, 042411.	2.1	13
14	Synaptic Correlates of Low-Level Perception in V1. Journal of Neuroscience, 2016, 36, 3925-3942.	3.6	26
15	The Visual Brain: Computing Through Multiscale Complexity. Research and Perspectives in Neurosciences, 2016, , 43-57.	0.4	1
16	On the basic mechanisms of anticipated synchronization in neuronal circuits. BMC Neuroscience, 2015, 16, .	1.9	0
17	Reconstructing the directionality of coupling between cortical populations with negative phase lag. BMC Neuroscience, 2015, 16, .	1.9	0
18	Self-Organized Near-Zero-Lag Synchronization Induced by Spike-Timing Dependent Plasticity in Cortical Populations. PLoS ONE, 2015, 10, e0140504.	2.5	22

#	Article	IF	Citations
19	A Modeling Approach on Why Simple Central Pattern Generators Are Built of Irregular Neurons. PLoS ONE, 2015, 10, e0120314.	2.5	9
20	Modeling positive Granger causality and negative phase lag between cortical areas. NeuroImage, 2014, 99, 411-418.	4.2	53
21	Inhibitory Feedback Loop Induces Anticipated Synchronization in Neuronal Networks. IEICE Proceeding Series, 2014, 1, 636-639.	0.0	0
22	The interplay between STDP rules and anticipated synchronization in the organization of neuronal networks. BMC Neuroscience, 2013, 14, .	1.9	1
23	Anticipated synchronization in neuronal motifs. BMC Neuroscience, 2013, 14, .	1.9	4
24	Anticipated synchronization in neuronal network motifs. , 2013, , .		2
25	Anticipated synchronization in a biologically plausible model of neuronal motifs. Physical Review E, 2011, 84, 021922.	2.1	55
26	Single Synapse Information Coding in Intraburst Spike Patterns of Central Pattern Generator Motor Neurons. Journal of Neuroscience, 2011, 31, 12297-12306.	3.6	19
27	Multiscale Functional Imaging in V1 and Cortical Correlates of Apparent Motion. , 2009, , 73-93.		7
28	Whole Cell Stochastic Model Reproduces the Irregularities Found in the Membrane Potential of Bursting Neurons. Journal of Neurophysiology, 2005, 94, 1169-1179.	1.8	27