Ernest Barreto

List of Publications by Year
in descending order

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38	1,832	304743	345221
papers	citations	22 h-index	36 g-index

40	40	40	1373
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synaptic Diversity Suppresses Complex Collective Behavior in Networks of Theta Neurons. Frontiers in Computational Neuroscience, 2020, 14, 44.	2.1	4
2	Itinerant complexity in networks of intrinsically bursting neurons. Chaos, 2020, 30, 061106.	2.5	4
3	Synchronization-induced spike termination in networks of bistable neurons. Neural Networks, 2019, 110, 131-140.	5.9	53
4	Double inverse stochastic resonance with dynamic synapses. Physical Review E, 2017, 95, 012404.	2.1	48
5	Inverse stochastic resonance in networks of spiking neurons. PLoS Computational Biology, 2017, 13, e1005646.	3.2	61
6	Effects of polarization induced by non-weak electric fields on the excitability of elongated neurons with active dendrites. Journal of Computational Neuroscience, 2016, 40, 27-50.	1.0	6
7	Macroscopic complexity from an autonomous network of networks of theta neurons. Frontiers in Computational Neuroscience, 2014, 8, 145.	2.1	22
8	Control of collective network chaos. Chaos, 2014, 24, 023127.	2.5	6
9	Networks of theta neurons with time-varying excitability: Macroscopic chaos, multistability, and final-state uncertainty. Physica D: Nonlinear Phenomena, 2014, 267, 16-26.	2.8	56
10	Complete Classification of the Macroscopic Behavior of a Heterogeneous Network of Theta Neurons. Neural Computation, 2013, 25, 3207-3234.	2.2	127
11	Dynamical structure underlying inverse stochastic resonance and its implications. Physical Review E, 2013, 88, 042712.	2.1	49
12	Controlling Seizure-Like Events by Perturbing Ion Concentration Dynamics with Periodic Stimulation. PLoS ONE, 2013, 8, e73820.	2.5	12
13	Cessation of seizure-like oscillations by periodic stimulation in a neuron model with dynamic ion concentrations. BMC Neuroscience, 2012, 13, .	1.9	0
14	The role of inhibition in oscillatory wave dynamics in the cortex. European Journal of Neuroscience, 2012, 36, 2201-2212.	2.6	13
15	Generating macroscopic chaos in a network of globally coupled phase oscillators. Chaos, 2011, 21, 033127.	2.5	34
16	Ion concentration dynamics as a mechanism for neuronal bursting. Journal of Biological Physics, 2011, 37, 361-373.	1.5	107
17	Synchronized changes to relative neuron populations in postnatal human neocortical development. Cognitive Neurodynamics, 2010, 4, 151-163.	4.0	1
18	Ion concentration homeostasis and the regulation of neuronal firing activity: the role of cation-chloride cotransporters. BMC Neuroscience, 2010, 11, .	1.9	3

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19	The influence of sodium and potassium dynamics on excitability, seizures, and the stability of persistent states: II. Network and glial dynamics. Journal of Computational Neuroscience, 2009, 26, 171-183.	1.0	125
20	The influence of sodium and potassium dynamics on excitability, seizures, and the stability of persistent states: I. Single neuron dynamics. Journal of Computational Neuroscience, 2009, 26, 159-170.	1.0	230
21	Synchronization in networks of networks: The onset of coherent collective behavior in systems of interacting populations of heterogeneous oscillators. Physical Review E, 2008, 77, 036107.	2.1	118
22	Synchronization in interacting populations of heterogeneous oscillators with time-varying coupling. Chaos, 2008, 18, 037114.	2.5	61
23	Towards a Dynamics of Seizure Mechanics. , 2008, , 496-XVIII.		2
24	Interneuron and Pyramidal Cell Interplay During In Vitro Seizure-Like Events. Journal of Neurophysiology, 2006, 95, 3948-3954.	1.8	246
25	A Model of the Effects of Applied Electric Fields on Neuronal Synchronization. Journal of Computational Neuroscience, 2005, 19, 53-70.	1.0	88
26	The geometry of chaos synchronization. Chaos, 2003, 13, 151-164.	2.5	32
27	Topology of Windows in the High-Dimensional Parameter Space of Chaotic Maps. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2003, 13, 2681-2688.	1.7	15
28	Limits to the experimental detection of nonlinear synchrony. Physical Review E, 2002, 65, 046225.	2.1	26
29	The onset of synchronization in systems of globally coupled chaotic and periodic oscillators. Physica D: Nonlinear Phenomena, 2002, 173, 29-51.	2.8	27
30	THE BREAKDOWN OF SYNCHRONIZATION IN SYSTEMS OF NONIDENTICAL CHAOTIC OSCILLATORS: THEORY AND EXPERIMENT. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2001, 11, 2705-2713.	1.7	10
31	THE BREAKDOWN OF SYNCHRONIZATION AND SHADOWING IN COUPLED CHAOTIC SYSTEMS: ANALYSIS VIA THE SUBSYSTEM DECOMPOSITION. , 2001, , .		0
32	From Generalized Synchrony to Topological Decoherence: Emergent Sets in Coupled Chaotic Systems. Physical Review Letters, 2000, 84, 1689-1692.	7.8	28
33	Mechanisms for the Development of Unstable Dimension Variability and the Breakdown of Shadowing in Coupled Chaotic Systems. Physical Review Letters, 2000, 85, 2490-2493.	7.8	41
34	Box-counting dimension without boxes: ComputingD0from average expansion rates. Physical Review E, 1999, 60, 378-385.	2.1	11
35	From High Dimensional Chaos to Stable Periodic Orbits: The Structure of Parameter Space. Physical Review Letters, 1997, 78, 4561-4564.	7.8	90
36	Control of Chaos: Impact Oscillators and Targeting. Solid Mechanics and Its Applications, 1997, , 17-26.	0.2	1

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37	Multiparameter control of chaos. Physical Review E, 1995, 52, 3553-3557.	2.1	24
38	Efficient switching between controlled unstable periodic orbits in higher dimensional chaotic systems. Physical Review E, 1995, 51, 4169-4172.	2.1	32