Epaminondas Rosa Jr

List of Publications by Year
in descending order

40 papers	832 citations	567281 15 h-index

28 g-index (501196)

40 all docs	40 docs citations	40 times ranked	524 citing authors

#	Article	IF	Citations
1	Artificial Intelligence for Biology. Integrative and Comparative Biology, 2022, 61, 2267-2275.	2.0	18
2	Resolving the Rules of Robustness and Resilience in Biology Across Scales. Integrative and Comparative Biology, 2022, 61, 2163-2179.	2.0	7
3	Weak-winner phase synchronization: A curious case of weak interactions. Physical Review Research, 2021, 3, .	3.6	3
4	Analog implementation of a Hodgkin–Huxley model neuron. American Journal of Physics, 2020, 88, 918-923.	0.7	10
5	Temperature effects on neuronal firing rates and tonic-to-bursting transitions. BioSystems, 2019, 180, 1-6.	2.0	13
6	Predicting slow and fast neuronal dynamics with machine learning. Chaos, 2019, 29, 113119.	2.5	9
7	Introduction to Focus Issue: Nonlinear science of living systems: From cellular mechanisms to functions. Chaos, 2018, 28, 106201.	2.5	0
8	Synchronous tonic-to-bursting transitions in a neuronal hub motif. Chaos, 2018, 28, 106315.	2.5	4
9	A critical firing rate associated with tonic-to-bursting transitions in synchronized gap-junction coupled neurons. European Physical Journal: Special Topics, 2017, 226, 1939-1951.	2.6	7
10	Bifurcation transitions in gap-junction-coupled neurons. Physical Review E, 2016, 94, 042301.	2.1	9
11	Dynamics of signal propagation and collision in axons. Physical Review E, 2015, 92, 032707.	2.1	25
12	Phase Oscillatory Network and Visual Pattern Recognition. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 1539-1544.	11.3	30
13	Effects of reciprocal inhibitory coupling in model neurons. BioSystems, 2015, 127, 73-83.	2.0	11
14	On the Role of Intrinsic Neuronal Dynamics for Relay Synchronization. IEICE Proceeding Series, 2014, 1, 364-364.	0.0	0
15	IDENTIFYING PHASE SYNCHRONOUS REGIMES IN NON-COHERENT AND MULTIPLE SCROLL ATTRACTOR SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2013, 23, 1350179.	1.7	4
16	Temperature-dependent stochastic dynamics of the Huber-Braun neuron model. Chaos, 2011, 21, 047510.	2.5	21
17	Phase detection of chaos. Physical Review E, 2011, 83, 016209.	2.1	10
18	On the role of subthreshold currents in the Huber–Braun cold receptor model. Chaos, 2010, 20, 045107.	2.5	20

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19	Detecting phase synchronization between coupled non-phase-coherent oscillators. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 2146-2153.	2.1	17
20	CHARACTERIZATION OF THE RÃ—SSLER SYSTEM IN PARAMETER SPACE. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 965-973.	1.7	25
21	DRIVING PHASE SYNCHRONOUS PLASMA DISCHARGES WITH SUPERIMPOSED SIGNALS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 3513-3518.	1.7	5
22	Experimental observation of synchronous competition in the Chua system. Physical Review E, 2007, 75, 056216.	2.1	2
23	Communication-Based on Topology Preservation of Chaotic Dynamics. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2003, 13, 2551-2560.	1.7	6
24	Experimental Chua-plasma phase synchronization of chaos. Physical Review E, 2003, 68, 025202.	2.1	20
25	Phase synchronization in the perturbed Chua circuit. Physical Review E, 2003, 67, 056212.	2.1	37
26	RECONSTRUCTION OF INFORMATION-BEARING CHAOTIC SIGNALS IN ADDITIVE WHITE GAUSSIAN NOISE: PERFORMANCE ANALYSIS AND EVALUATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2001, 11, 2631-2635.	1.7	4
27	Learning Phase Synchronization from Nonsynchronized Chaotic Regimes. Physical Review Letters, 2001, 88, 014101.	7.8	17
28	PHASE SYNCHRONIZATION OF CHAOS IN A PLASMA DISCHARGE TUBE. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2000, 10, 2551-2563.	1.7	53
29	Communication through chaotic modeling of languages. Physical Review E, 2000, 61, 3590-3600.	2.1	15
30	Exploiting the Natural Redundancy of Chaotic Signals in Communication Systems. Physical Review Letters, 2000, 85, 2629-2632.	7.8	16
31	Experimental Real-Time Phase Synchronization of a Paced Chaotic Plasma Discharge. Physical Review Letters, 2000, 85, 2929-2932.	7.8	123
32	Integrated chaotic communication scheme. Physical Review E, 2000, 62, 4835-4845.	2.1	34
33	COLOR MAP OF LYAPUNOV EXPONENTS OF INVARIANT SETS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1999, 09, 1459-1463.	1.7	7
34	Sporadically Fractal Basin Boundaries of Chaotic Systems. Physical Review Letters, 1999, 82, 3597-3600.	7.8	7
35	Mixed basin boundary structures of chaotic systems. Physical Review E, 1999, 59, 343-352.	2.1	5
36	SIGNAL DROPOUT RECONSTRUCTION IN COMMUNICATION WITH CHAOS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1999, 09, 2291-2293.	1.7	7

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37	Experimental issues in the observation of water drop dynamics. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 248, 353-358.	2.1	6
38	Transition to Phase Synchronization of Chaos. Physical Review Letters, 1998, 80, 1642-1645.	7.8	217
39	The elasticity of ideal polymer chains. Journal of Chemical Physics, 1994, 100, 3233-3246.	3.0	4
40	The static scattering function and optical birefringence of a deformed, ideal polymer chain. Journal of Chemical Physics, 1991, 95, 9248-9257.	3.0	4