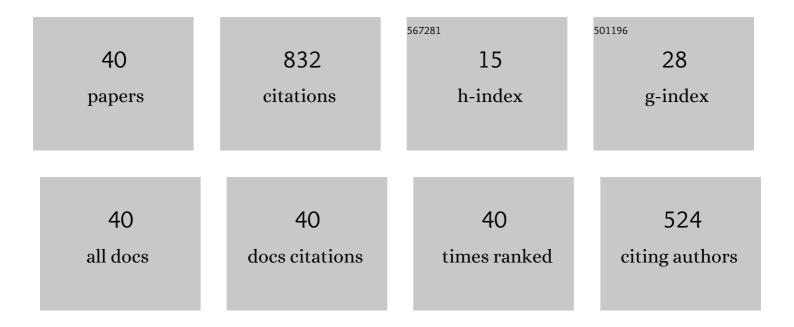
## Epaminondas Rosa Jr

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Transition to Phase Synchronization of Chaos. Physical Review Letters, 1998, 80, 1642-1645.	7.8	217
2	Experimental Real-Time Phase Synchronization of a Paced Chaotic Plasma Discharge. Physical Review Letters, 2000, 85, 2929-2932.	7.8	123
3	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
4	Phase synchronization in the perturbed Chua circuit. Physical Review E, 2003, 67, 056212.	2.1	37
5	Integrated chaotic communication scheme. Physical Review E, 2000, 62, 4835-4845.	2.1	34
6	Phase Oscillatory Network and Visual Pattern Recognition. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 1539-1544.	11.3	30
7	CHARACTERIZATION OF THE RÖSSLER SYSTEM IN PARAMETER SPACE. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 965-973.	1.7	25
8	Dynamics of signal propagation and collision in axons. Physical Review E, 2015, 92, 032707.	2.1	25
9	Temperature-dependent stochastic dynamics of the Huber-Braun neuron model. Chaos, 2011, 21, 047510.	2.5	21
10	Experimental Chua-plasma phase synchronization of chaos. Physical Review E, 2003, 68, 025202.	2.1	20
11	On the role of subthreshold currents in the Huber–Braun cold receptor model. Chaos, 2010, 20, 045107.	2.5	20
12	Artificial Intelligence for Biology. Integrative and Comparative Biology, 2022, 61, 2267-2275.	2.0	18
13	Learning Phase Synchronization from Nonsynchronized Chaotic Regimes. Physical Review Letters, 2001, 88, 014101.	7.8	17
14	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
15	Exploiting the Natural Redundancy of Chaotic Signals in Communication Systems. Physical Review Letters, 2000, 85, 2629-2632.	7.8	16
16	Communication through chaotic modeling of languages. Physical Review E, 2000, 61, 3590-3600.	2.1	15
17	Temperature effects on neuronal firing rates and tonic-to-bursting transitions. BioSystems, 2019, 180, 1-6.	2.0	13
18	Effects of reciprocal inhibitory coupling in model neurons. BioSystems, 2015, 127, 73-83.	2.0	11

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#	Article	IF	CITATIONS
19	Phase detection of chaos. Physical Review E, 2011, 83, 016209.	2.1	10
20	Analog implementation of a Hodgkin–Huxley model neuron. American Journal of Physics, 2020, 88, 918-923.	0.7	10
21	Bifurcation transitions in gap-junction-coupled neurons. Physical Review E, 2016, 94, 042301.	2.1	9
22	Predicting slow and fast neuronal dynamics with machine learning. Chaos, 2019, 29, 113119.	2.5	9
23	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
24	Sporadically Fractal Basin Boundaries of Chaotic Systems. Physical Review Letters, 1999, 82, 3597-3600.	7.8	7
25	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
26	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
27	Resolving the Rules of Robustness and Resilience in Biology Across Scales. Integrative and Comparative Biology, 2022, 61, 2163-2179.	2.0	7
28	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
29	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
30	Mixed basin boundary structures of chaotic systems. Physical Review E, 1999, 59, 343-352.	2.1	5
31	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
32	The static scattering function and optical birefringence of a deformed, ideal polymer chain. Journal of Chemical Physics, 1991, 95, 9248-9257.	3.0	4
33	The elasticity of ideal polymer chains. Journal of Chemical Physics, 1994, 100, 3233-3246.	3.0	4
34	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
35	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
36	Synchronous tonic-to-bursting transitions in a neuronal hub motif. Chaos, 2018, 28, 106315.	2.5	4

#	Article	IF	CITATIONS
37	Weak-winner phase synchronization: A curious case of weak interactions. Physical Review Research, 2021, 3, .	3.6	3
38	Experimental observation of synchronous competition in the Chua system. Physical Review E, 2007, 75, 056216.	2.1	2
39	Introduction to Focus Issue: Nonlinear science of living systems: From cellular mechanisms to functions. Chaos, 2018, 28, 106201.	2.5	0
40	On the Role of Intrinsic Neuronal Dynamics for Relay Synchronization. IEICE Proceeding Series, 2014, 1, 364-364.	0.0	0