Ch G Antonopoulos

List of Publications by Year
in descending order

51	1,629	393982	301761
papers	citations	19 h-index	39 g-index

53	53	53	1084
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A SIR model assumption for the spread of COVID-19 in different communities. Chaos, Solitons and Fractals, 2020, 139, 110057.	2.5	473
2	Geometrical properties of local dynamics in Hamiltonian systems: The Generalized Alignment Index (GALI) method. Physica D: Nonlinear Phenomena, 2007, 231, 30-54.	1.3	148
3	Detecting order and chaos in Hamiltonian systems by the SALI method. Journal of Physics A, 2004, 37, 6269-6284.	1.6	140
4	Chimera-like States in Modular Neural Networks. Scientific Reports, 2016, 6, 19845.	1.6	137
5	How Does the Smaller Alignment Index (SALI) Distinguish Order from Chaos?. Progress of Theoretical Physics Supplement, 2003, 150, 439-443.	0.2	61
6	Detecting chaos, determining the dimensions of tori and predicting slow diffusion in Fermiâ€“Pastaâ€“Ulam lattices by the Generalized Alignment Index method. European Physical Journal: Special Topics, 2008, 165, 5-14.	1.2	57
7	Evidence of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si23.gif" display="inline" overflow="scroll"><mml:mi>q</mml:mi></mml:math>-exponential statistics in Greek seismicity. Physica A: Statistical Mechanics and Its Applications, 2014, 409, 71-77.	1.2	36
8	Spike timing-dependent plasticity induces non-trivial topology in the brain. Neural Networks, 2017, 88, 58-64.	3.3	36
9	PROBING THE LOCAL DYNAMICS OF PERIODIC ORBITS BY THE GENERALIZED ALIGNMENT INDEX (GALI) METHOD. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250218.	0.7	35
10	Stability of simple periodic orbits and chaos in a Fermi-Pasta-Ulam lattice. Physical Review E, 2006, 73, 056206.	0.8	33
11	Do Brain Networks Evolve by Maximizing Their Information Flow Capacity?. PLoS Computational Biology, 2015, 11, e1004372.	1.5	32
12	CHAOTIC DYNAMICS OF N-DEGREE OF FREEDOM HAMILTONIAN SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 1777-1793.	0.7	31
13	Bistable Firing Pattern in a Neural Network Model. Frontiers in Computational Neuroscience, 2019, 13, 19.	1.2	28
14	Detecting resonances in conservative maps using evolutionary algorithms. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 334-341.	0.9	24
15	Successful network inference from time-series data using mutual information rate. Chaos, 2016, 26, 043102.	1.0	24
16	Quasi-stationary chaotic states in multi-dimensional Hamiltonian systems. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 3290-3307.	1.2	23
17	Weak chaos and the â€œmelting transitionâ€•in a confined microplasma system. Physical Review E, 2010, 81, 016211.	0.8	21
18	WEAK CHAOS DETECTION IN THE FERMIâ€“PASTAâ€“ULAM-Î± SYSTEM USING q-GAUSSIAN STATISTICS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 2285-2296.	0.7	21

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19	Opinion formation in multiplex networks with general initial distributions. Scientific Reports, 2018, 8, 2852.	1.6	21
20	Influence of Autapses on Synchronization in Neural Networks With Chemical Synapses. Frontiers in Systems Neuroscience, 2020, 14, 604563.	1.2	21
21	Dynamic tracking with model-based forecasting for the spread of the COVID-19 pandemic. Chaos, Solitons and Fractals, 2020, 139, 110298.	2.5	20
22	Self-sustained activity of low firing rate in balanced networks. Physica A: Statistical Mechanics and Its Applications, 2020, 537, 122671.	1.2	19
23	Complex statistics in Hamiltonian barred galaxy models. Celestial Mechanics and Dynamical Astronomy, 2012, 113, 63-80.	0.5	17
24	Emergence of Mixed Mode Oscillations in Random Networks of Diverse Excitable Neurons: The Role of Neighbors and Electrical Coupling. Frontiers in Computational Neuroscience, 2020, 14, 49.	1.2	17
25	Complex statistics and diffusion in nonlinear disordered particle chains. Chaos, 2014, 24, 024405.	1.0	13
26	EVOLUTIONARY METHODS FOR THE APPROXIMATION OF THE STABILITY DOMAIN AND FREQUENCY OPTIMIZATION OF CONSERVATIVE MAPS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 2249-2264.	0.7	12
27	Dynamic range in the C. elegans brain network. Chaos, 2016, 26, 013102.	1.0	11
28	Dynamical complexity in the C.elegans neural network. European Physical Journal: Special Topics, 2016, 225, 1255-1269.	1.2	10
29	Spatiotemporal characteristics in systems of diffusively coupled excitable slowâ€“fast FitzHughâ€“Rinzel dynamical neurons. Chaos, 2021, 31, 103122.	1.0	10
30	LINEAR AND NONLINEAR ARABESQUES: A STUDY OF CLOSED CHAINS OF NEGATIVE 2-ELEMENT CIRCUITS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2013, 23, 1330033.	0.7	9
31	Analyzing chaos in higher order disordered quartic-sextic Klein-Gordon lattices using q -statistics. Chaos, Solitons and Fractals, 2017, 104, 129-134.	2.5	9
32	Evaluating performance of neural codes in model neural communication networks. Neural Networks, 2019, 109, 90-102.	3.3	9
33	Hyperchaos & labyrinth chaos: Revisiting Thomasâ€“RÃ¶ssler systems. Journal of Theoretical Biology, 2019, 460, 153-159.	0.8	9
34	Production and Transfer of Energy and Information in Hamiltonian Systems. PLoS ONE, 2014, 9, e89585.	1.1	8
35	Short-term and spike-timing-dependent plasticity facilitate the formation of modular neural networks. Communications in Nonlinear Science and Numerical Simulation, 2021, 96, 105689.	1.7	8
36	Labyrinth chaos: Revisiting the elegant, chaotic, and hyperchaotic walks. Chaos, 2020, 30, 113129.	1.0	6

#	Article	IF	Citations
37	CHAOS IN A NEAR-INTEGRABLE HAMILTONIAN LATTICE. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2002, 12, 1743-1754.	0.7	5
38	Dynamical analysis of the infection status in diverse communities due to COVID-19 using a modified SIR model. Nonlinear Dynamics, 2022, 109, 19-32.	2.7	5
39	SMALLER ALIGNMENT INDEX (SALI): DETERMINING THE ORDERED OR CHAOTIC NATURE OF ORBITS IN CONSERVATIVE DYNAMICAL SYSTEMS. , 2003, , .		4
40	Emergence of coherent motion in aggregates of motile coupled maps. Chaos, Solitons and Fractals, 2011, 44, 574-586.	2.5	3
41	Maintaining extensivity in evolutionary multiplex networks. PLoS ONE, 2017, 12, e0175389.	1.1	3
42	Inference of financial networks using the normalised mutual information rate. PLoS ONE, 2018, 13, e0192160.	1.1	3
43	Phase Transitions in Models of Bird Flocking. , 2015, , 383-398.		2
44	Spatiotemporal instabilities and pattern formation in systems of diffusively coupled Izhikevich neurons. Chaos, Solitons and Fractals, 2021, 152, 111375.	2.5	2
45	Coupled symplectic maps as models for subdiffusive processes in disordered Hamiltonian lattices. Applied Numerical Mathematics, 2016, 104, 110-119.	1.2	1
46	Emergence of Chimera-like States in Prefrontal-Cortex Macaque Intracranial Recordings. , 2018, , .		1
47	Detecting Resonances using Evolutionary Algorithms. , 2019, , 443-446.		1
48	A generic model for pandemics in networks of communities and the role of vaccination. Chaos, 2022, 32, 063127.	1.0	1
49	Editorial: Advancing Our Understanding of Structure and Function in the Brain: Developing Novel Approaches for Network Inference and Emergent Phenomena. Frontiers in Physics, 2021, 8, .	1.0	0
50	Noise induces continuous and noncontinuous transitions in neuronal interspike intervals range. , 2020, 3, .		0
51	Controlling the Chimera Form in the Leaky Integrate-and-Fire Model. Advances in Experimental Medicine and Biology, 2021, 1338, 247-258.	0.8	0