

# Ch G Antonopoulos

## List of Publications by Citations

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48  
papers

1,112  
citations

17  
h-index

33  
g-index

53  
ext. papers

1,397  
ext. citations

4  
avg, IF

5.15  
L-index

#	Paper	IF	Citations
48	A SIR model assumption for the spread of COVID-19 in different communities. <i>Chaos, Solitons and Fractals</i> , <b>2020</b> , 139, 110057	9.3	221
47	Geometrical properties of local dynamics in Hamiltonian systems: The Generalized Alignment Index (GALI) method. <i>Physica D: Nonlinear Phenomena</i> , <b>2007</b> , 231, 30-54	3.3	123
46	Detecting order and chaos in Hamiltonian systems by the SALI method. <i>Journal of Physics A</i> , <b>2004</b> , 37, 6269-6284		115
45	Chimera-like States in Modular Neural Networks. <i>Scientific Reports</i> , <b>2016</b> , 6, 19845	4.9	113
44	Detecting chaos, determining the dimensions of tori and predicting slow diffusion in Fermi-Pasta-Ulam lattices by the Generalized Alignment Index method. <i>European Physical Journal: Special Topics</i> , <b>2008</b> , 165, 5-14	2.3	51
43	How Does the Smaller Alignment Index (SALI) Distinguish Order from Chaos?. <i>Progress of Theoretical Physics Supplement</i> , <b>2003</b> , 150, 439-443		50
42	Stability of simple periodic orbits and chaos in a Fermi-Pasta-Ulam lattice. <i>Physical Review E</i> , <b>2006</b> , 73, 056206	2.4	30
41	PROBING THE LOCAL DYNAMICS OF PERIODIC ORBITS BY THE GENERALIZED ALIGNMENT INDEX (GALI) METHOD. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2012</b> , 22, 1250218	2	29
40	CHAOTIC DYNAMICS OF N-DEGREE OF FREEDOM HAMILTONIAN SYSTEMS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2006</b> , 16, 1777-1793	2	29
39	Evidence of q-exponential statistics in Greek seismicity. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2014</b> , 409, 71-77	3.3	27
38	Detecting resonances in conservative maps using evolutionary algorithms. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2009</b> , 373, 334-341	2.3	24
37	Spike timing-dependent plasticity induces non-trivial topology in the brain. <i>Neural Networks</i> , <b>2017</b> , 88, 58-64	9.1	21
36	Quasi-stationary chaotic states in multi-dimensional Hamiltonian systems. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2011</b> , 390, 3290-3307	3.3	21
35	Do Brain Networks Evolve by Maximizing Their Information Flow Capacity?. <i>PLoS Computational Biology</i> , <b>2015</b> , 11, e1004372	5	21
34	Successful network inference from time-series data using mutual information rate. <i>Chaos</i> , <b>2016</b> , 26, 043102	3.02	20
33	Weak chaos and the "melting transition" in a confined microplasma system. <i>Physical Review E</i> , <b>2010</b> , 81, 016211	2.4	19
32	WEAK CHAOS DETECTION IN THE FERMIPASTAULAM-SYSTEM USING q-GAUSSIAN STATISTICS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2011</b> , 21, 2285-2296	2	19

31	Bistable Firing Pattern in a Neural Network Model. <i>Frontiers in Computational Neuroscience</i> , <b>2019</b> , 13, 19	3.5	14
30	Complex statistics in Hamiltonian barred galaxy models. <i>Celestial Mechanics and Dynamical Astronomy</i> , <b>2012</b> , 113, 63-80	1.4	14
29	Opinion formation in multiplex networks with general initial distributions. <i>Scientific Reports</i> , <b>2018</b> , 8, 2852	4.9	13
28	Dynamic tracking with model-based forecasting for the spread of the COVID-19 pandemic. <i>Chaos, Solitons and Fractals</i> , <b>2020</b> , 139, 110298	9.3	12
27	Complex statistics and diffusion in nonlinear disordered particle chains. <i>Chaos</i> , <b>2014</b> , 24, 024405	3.3	11
26	EVOLUTIONARY METHODS FOR THE APPROXIMATION OF THE STABILITY DOMAIN AND FREQUENCY OPTIMIZATION OF CONSERVATIVE MAPS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2008</b> , 18, 2249-2264	2	10
25	Self-sustained activity of low firing rate in balanced networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2020</b> , 537, 122671	3.3	9
24	Influence of Autapses on Synchronization in Neural Networks With Chemical Synapses. <i>Frontiers in Systems Neuroscience</i> , <b>2020</b> , 14, 604563	3.5	9
23	Emergence of Mixed Mode Oscillations in Random Networks of Diverse Excitable Neurons: The Role of Neighbors and Electrical Coupling. <i>Frontiers in Computational Neuroscience</i> , <b>2020</b> , 14, 49	3.5	8
22	LINEAR AND NONLINEAR ARABESQUES: A STUDY OF CLOSED CHAINS OF NEGATIVE 2-ELEMENT CIRCUITS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2013</b> , 23, 1330033	2	8
21	Dynamical complexity in the C.elegans neural network. <i>European Physical Journal: Special Topics</i> , <b>2016</b> , 225, 1255-1269	2.3	8
20	Production and transfer of energy and information in Hamiltonian systems. <i>PLoS ONE</i> , <b>2014</b> , 9, e89585	3.7	7
19	Dynamic range in the C. elegans brain network. <i>Chaos</i> , <b>2016</b> , 26, 013102	3.3	7
18	Evaluating performance of neural codes in model neural communication networks. <i>Neural Networks</i> , <b>2019</b> , 109, 90-102	9.1	6
17	Analyzing chaos in higher order disordered quartic-sextic Klein-Gordon lattices using q -statistics. <i>Chaos, Solitons and Fractals</i> , <b>2017</b> , 104, 129-134	9.3	5
16	CHAOS IN A NEAR-INTEGRABLE HAMILTONIAN LATTICE. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2002</b> , 12, 1743-1754	2	5
15	Hyperchaos & labyrinth chaos: Revisiting Thomas-Rössler systems. <i>Journal of Theoretical Biology</i> , <b>2019</b> , 460, 153-159	2.3	5
14	SMALLER ALIGNMENT INDEX (SALI): DETERMINING THE ORDERED OR CHAOTIC NATURE OF ORBITS IN CONSERVATIVE DYNAMICAL SYSTEMS <b>2003</b> ,		4

13	Short-term and spike-timing-dependent plasticity facilitate the formation of modular neural networks. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2021</b> , 96, 105689	3.7	4
12	Labyrinth chaos: Revisiting the elegant, chaotic, and hyperchaotic walks. <i>Chaos</i> , <b>2020</b> , 30, 113129	3.3	3
11	Maintaining extensivity in evolutionary multiplex networks. <i>PLoS ONE</i> , <b>2017</b> , 12, e0175389	3.7	2
10	Inference of financial networks using the normalised mutual information rate. <i>PLoS ONE</i> , <b>2018</b> , 13, e0192160	3.7	2
9	Coupled symplectic maps as models for subdiffusive processes in disordered Hamiltonian lattices. <i>Applied Numerical Mathematics</i> , <b>2016</b> , 104, 110-119	2.5	1
8	Emergence of Chimera-like States in Prefrontal-Cortex Macaque Intracranial Recordings <b>2018</b> ,		1
7	Phase Transitions in Models of Bird Flocking <b>2015</b> , 383-398		1
6	Emergence of coherent motion in aggregates of motile coupled maps. <i>Chaos, Solitons and Fractals</i> , <b>2011</b> , 44, 574-586	9.3	1
5	Spatiotemporal characteristics in systems of diffusively coupled excitable slow-fast FitzHugh-Rinzel dynamical neurons. <i>Chaos</i> , <b>2021</b> , 31, 103122	3.3	1
4	Detecting Resonances using Evolutionary Algorithms <b>2019</b> , 443-446		1
3	Spatiotemporal instabilities and pattern formation in systems of diffusively coupled Izhikevich neurons. <i>Chaos, Solitons and Fractals</i> , <b>2021</b> , 152, 111375	9.3	1
2	Dynamical analysis of the infection status in diverse communities due to COVID-19 using a modified SIR model.. <i>Nonlinear Dynamics</i> , <b>2022</b> , 1-14	5	0
1	Controlling the Chimera Form in the Leaky Integrate-and-Fire Model.. <i>Advances in Experimental Medicine and Biology</i> , <b>2021</b> , 1338, 247-258	3.6	