Jorge N Duarte

List of Publications by Year
in descending order

32	244	1040056 9	1058476 14
papers	citations	h-index	g-index

33	33	33	289
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Activation of effector immune cells promotes tumor stochastic extinction: A homotopy analysis approach. Applied Mathematics and Computation, 2015, 252, 484-495.	2.2	29
2	Chaos and crises in a model for cooperative hunting: A symbolic dynamics approach. Chaos, 2009, 19, 043102.	2.5	27
3	Avoiding healthy cells extinction in a cancer model. Journal of Theoretical Biology, 2014, 349, 74-81.	1.7	21
4	On chaos, transient chaos and ghosts in single population models with Allee effects. Nonlinear Analysis: Real World Applications, 2012, 13, 1647-1661.	1.7	16
5	Scaling law in saddle-node bifurcations for one-dimensional maps: a complex variable approach. Nonlinear Dynamics, 2012, 67, 541-547.	5.2	15
6	Complex dynamics of defective interfering baculoviruses during serial passage in insect cells. Journal of Biological Physics, 2013, 39, 327-342.	1.5	15
7	Chaos analysis and explicit series solutions to the seasonally forced SIR epidemic model. Journal of Mathematical Biology, 2019, 78, 2235-2258.	1.9	15
8	TOPOLOGICAL COMPLEXITY AND PREDICTABILITY IN THE DYNAMICS OF A TUMOR GROWTH MODEL WITH SHILNIKOV'S CHAOS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2013, 23, 1350124.	1.7	12
9	On the analytical solutions of the Hindmarshâ€“Rose neuronal model. Nonlinear Dynamics, 2015, 82, 1221-1231.	5.2	9
10	On the Dynamical Complexity of a Seasonally Forced Discrete SIR Epidemic Model with a Constant Vaccination Strategy. Complexity, 2018, 2018, 1-11.	1.6	9
11	Measuring complexity in a business cycle model of the Kaldor type. Chaos, Solitons and Fractals, 2009, 42, 2890-2903.	5.1	8
12	Optimal homotopy analysis of a chaotic HIV-1 model incorporating AIDS-related cancer cells. Numerical Algorithms, 2018, 77, 261-288.	1.9	8
13	Rheology of the cytoskeleton as a fractal network. Physical Review E, 2015, 92, 040702.	2.1	7
14	Types of Bifurcations of FitzHughâ€“Nagumo Maps. Nonlinear Dynamics, 2006, 44, 231-242.	5.2	6
15	The influence of coupling on chaotic maps modelling bursting cells. Chaos, Solitons and Fractals, 2006, 28, 1314-1326.	5.1	5
16	Topological invariants in the study of a chaotic food chain system. Chaos, 2008, 18, 023109.	2.5	4
17	Topological entropy and the controlled effect of glucose in the electrical activity of pancreatic <mml:math altimg="si54.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="h. Physica D: Nonlinear Phenomena	2.8	4
18	Analytical solutions of an economic model by the homotopy analysis method. Applied Mathematical Sciences, 0, 10, 2483-2490.	0.1	4

#	Article	IF	Citations
19	The role of noise in the tumor dynamics under chemotherapy treatment. European Physical Journal Plus, 2021, 136, 1.	2.6	4
20	Explicit series solution for a glucose-induced electrical activity model of pancreatic beta-cells. Chaos, Solitons and Fractals, 2015, 76, 1-9.	5.1	3
21	How Complex, Probable, and Predictable is Genetically Driven Red Queen Chaos?. Acta Biotheoretica, 2015, 63, 341-361.	1.5	3
22	A chaotic bursting-spiking transition in a pancreatic beta-cells system: observation of an interior glucose-induced crisis. Mathematical Biosciences and Engineering, 2017, 14, 821-842.	1.9	3
23	Controlling Infectious Diseases: The Decisive Phase Effect on a Seasonal Vaccination Strategy. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, .	1.7	3
24	Topological invariants in forced piecewise-linear FitzHughâ€“Nagumo-like systems. Chaos, Solitons and Fractals, 2005, 23, 1553-1565.	5.1	2
25	MEASURING AND CONTROLLING THE CHAOTIC MOTION OF PROFITS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 3593-3604.	1.7	2
26	Reciprocal inhibitory coupling: Measure and control of chaos on a biophysically motivated model of bursting. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 2734-2746.	3.3	2
27	Quantifying chaos for ecological stoichiometry. Chaos, 2010, 20, 033105.	2.5	2
28	Topological entropy of catalytic sets: Hypercycles revisited. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 795-803.	3.3	2
29	Symbolic dynamics in the study of bursting electrical activity. , 2005, , .		2
30	Computation of the topological entropy in chaotic biophysical bursting models for excitable cells. Discrete Dynamics in Nature and Society, 2006, 2006, 1-18.	0.9	1
31	Chaos in Ecology: The Topological Entropy of a Tritrophic Food Chain Model. Discrete Dynamics in Nature and Society, 2008, 2008, 1-12.	0.9	1
32	Homotopy analysis of explicit solutions in a chronic hepatitis C virus model. Applied Mathematical Sciences, 2021, 15, 15-32.	0.1	0