Jose Danilo Szezech

List of Publications by Year
in descending order

52 papers	609 citations	759233 12 h-index	677142 22 g-index
52 all docs	52 docs citations	52 times ranked	397 citing authors

#	Article	IF	Citations
1	Chimera-like states in a neuronal network model of the cat brain. Chaos, Solitons and Fractals, 2017, 101, 86-91.	5.1	64
2	Transport properties in nontwist area-preserving maps. Chaos, 2009, 19, 043108.	2.5	55
3	Finite-time Lyapunov spectrum for chaotic orbits of non-integrable Hamiltonian systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 335, 394-401.	2.1	45
4	Effective transport barriers in nontwist systems. Physical Review E, 2012, 86, 036206.	2.1	29
5	Recurrence quantification analysis of chimera states. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 2188-2192.	2.1	29
6	Bistable Firing Pattern in a Neural Network Model. Frontiers in Computational Neuroscience, 2019, 13, 19.	2.1	28
7	Spike-burst chimera states in an adaptive exponential integrate-and-fire neuronal network. Chaos, 2019, 29, 043106.	2.5	21
8	Finite-time rotation number: A fast indicator for chaotic dynamical structures. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 452-456.	2.1	20
9	Shearless transport barriers in magnetically confined plasmas. Plasma Physics and Controlled Fusion, 2012, 54, 124035.	2.1	19
10	Riddling: Chimeraâ€™s dilemma. Chaos, 2018, 28, 081105.	2.5	17
11	Synchronization of phase oscillators with coupling mediated by a diffusing substance. Physica A: Statistical Mechanics and Its Applications, 2017, 470, 236-248.	2.6	16
12	Mathematical model of brain tumour growth with drug resistance. Communications in Nonlinear Science and Numerical Simulation, 2021, 103, 106013.	3.3	14
13	Nontwist symplectic maps in tokamaks. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 2021-2030.	3.3	13
14	Dynamical characterization of transport barriers in nontwist Hamiltonian systems. Physical Review E, 2018, 97, 012214.	2.1	13
15	Influence of Delayed Conductance on Neuronal Synchronization. Frontiers in Physiology, 2020, 11, 1053.	2.8	13
16	Effect of two vaccine doses in the SEIR epidemic model using a stochastic cellular automaton. Physica A: Statistical Mechanics and Its Applications, 2022, 597, 127258.	2.6	13
17	Analysis of the influence of external biasing on Texas Helimak turbulence. Physics of Plasmas, 2013, 20, .	1.9	12
18	Basin of attraction for chimera states in a network of RÃ¶ssler oscillators. Chaos, 2020, 30, 083115.	2.5	12

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19	Stochastic resonance in dissipative drift motion. Communications in Nonlinear Science and Numerical Simulation, 2018, 54, 62-69.	3.3	11
20	Mathematical model with autoregressive process for electrocardiogram signals. Communications in Nonlinear Science and Numerical Simulation, 2018, 57, 415-421.	3.3	11
21	Using rotation number to detect sticky orbits in Hamiltonian systems. Chaos, 2019, 29, 043125.	2.5	11
22	Basin entropy behavior in a cyclic model of the rock-paper-scissors type. Europhysics Letters, 2019, 125, 58003.	2.0	11
23	Curryâ€“Yorke route to shearless attractors and coexistence of attractors in dissipative nontwist systems. Chaos, 2021, 31, 023125.	2.5	10
24	Mechanism for stickiness suppression during extreme events in Hamiltonian systems. Physical Review E, 2015, 91, 062903.	2.1	9
25	Fractal structures in the parameter space of nontwist area-preserving maps. Physical Review E, 2019, 100, 052207.	2.1	9
26	Recurrence-based analysis of barrier breakup in the standard nontwist map. Chaos, 2018, 28, 085717.	2.5	8
27	Dynamics of epidemics: Impact of easing restrictions and control of infection spread. Chaos, Solitons and Fractals, 2021, 142, 110431.	5.1	8
28	Control attenuation and temporary immunity in a cellular automata SEIR epidemic model. Chaos, Solitons and Fractals, 2022, 155, 111784.	5.1	8
29	Anomalous transport induced by nonhyperbolicity. Physical Review E, 2012, 86, 016216.	2.1	7
30	Delayed feedback control of phase synchronisation in a neuronal network model. European Physical Journal: Special Topics, 2018, 227, 1151-1160.	2.6	7
31	Recurrence quantification analysis for the identification of burst phase synchronisation. Chaos, 2018, 28, 085701.	2.5	7
32	Bubbling transition to spatial mode excitation in an extended dynamical system. Physica D: Nonlinear Phenomena, 2009, 238, 516-525.	2.8	6
33	Unstable dimension variability structure in the parameter space of coupled HÃ©non maps. Applied Mathematics and Computation, 2016, 286, 23-28.	2.2	6
34	Transport Barriers in Symplectic Maps. Brazilian Journal of Physics, 2021, 51, 899-909.	1.4	6
35	Onset of spatiotemporal chaos in a nonlinear system. Physical Review E, 2007, 75, 067202.	2.1	5
36	Transient chaotic transport in dissipative drift motion. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 1621-1626.	2.1	5

#	Article	IF	Citations
37	Simulation of deterministic compartmental models for infectious diseases dynamics. Revista Brasileira De Ensino De Fisica, 0, 43, .	0.2	5
38	Blowout bifurcation and spatial mode excitation in the bubbling transition to turbulence. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 365-373.	2.6	4
39	Super persistent transient in a masterâ€“slave configuration with Colpitts oscillators. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 405101.	2.1	4
40	Dynamical analysis of turbulence in fusion plasmas and nonlinear waves. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 4690-4699.	3.3	3
41	Numerical simulations of the linear drift memristor model. European Physical Journal Plus, 2019, 134, 1.	2.6	3
42	Ratchet current in nontwist Hamiltonian systems. Chaos, 2020, 30, 093141.	2.5	3
43	Dragon-kings death in nonlinear wave interactions. Physica A: Statistical Mechanics and Its Applications, 2019, 534, 122296.	2.6	2
44	On the dynamical behaviour of a glucose-insulin model. Chaos, Solitons and Fractals, 2022, 155, 111753.	5.1	2
45	Unpredictability in Hamiltonian systems with a hierarchical phase space. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, , 127991.	2.1	2
46	SYNCHRONIZATION OF CHAOS AND THE TRANSITION TO WAVE TURBULENCE. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250234.	1.7	1
47	Tilted-hat mushroom billiards: Web-like hierarchical mixed phase space. Communications in Nonlinear Science and Numerical Simulation, 2020, 91, 105440.	3.3	1
48	Conservative generalized bifurcation diagrams and phase space properties for oval-like billiards. Chaos, Solitons and Fractals, 2022, 155, 111707.	5.1	1
49	Transport barriers in plasmas. Journal of Physics: Conference Series, 2012, 370, 012001.	0.4	0
50	Dynamical Effects in Confined Plasma Turbulence. Brazilian Journal of Physics, 2014, 44, 903-913.	1.4	0
51	Efeito de um termo dissipativo no sistema hamiltoniano de ondas de deriva. Revista Brasileira De Ensino De Fisica, 2015, 37, 2308-1-2308-8.	0.2	0
52	Dynamical Properties for a Tunable Circular to Polygonal Billiard. Brazilian Journal of Physics, 2022, 52, 1.	1.4	0