

Cesar Manchain

List of Publications by Year in descending order

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47
papers

746
citations

586496

16
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651938

25
g-index

48
all docs

48
docs citations

48
times ranked

416
citing authors

#	ARTICLE	IF	CITATIONS
1	Strong Dynamical Trappings Originating Ergodicity Breaking in Coupled Hamiltonian Systems. Brazilian Journal of Physics, 2022, 52, 1.	0.7	0
2	Scrutinizing the heterogeneous spreading of COVID-19 outbreak in large territorial countries. Physical Biology, 2021, 18, 025002.	0.8	16
3	Transient dynamics and multistability in two electrically interacting FitzHugh-Nagumo neurons. Chaos, 2021, 31, 053107.	1.0	13
4	The role of individual neuron ion conductances in the synchronization processes of neuron networks. Neural Networks, 2021, 137, 97-105.	3.3	14
5	Collective transient ratchet transport induced by many elastically interacting particles. Scientific Reports, 2021, 11, 16178.	1.6	3
6	Bistability in the synchronization of identical neurons. Physical Review E, 2021, 104, 024204.	0.8	9
7	How relevant is the decision of containment measures against COVID-19 applied ahead of time?. Chaos, Solitons and Fractals, 2020, 140, 110164.	2.5	19
8	Characterizing the Dynamics of the Watt Governor System Under Harmonic Perturbation and Gaussian Noise. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2030001.	0.7	7
9	Strong correlations between power-law growth of COVID-19 in four continents and the inefficiency of soft quarantine strategies. Chaos, 2020, 30, 041102.	1.0	110
10	Transient Chaos, Hyperchaotic Dynamics, and Transport Properties in a Bailout Embedding Web Map. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2030049.	0.7	1
11	Collapse of hierarchical phase space and mixing rates in Hamiltonian systems. Physica A: Statistical Mechanics and Its Applications, 2019, 530, 121568.	1.2	3
12	Intermittent stickiness synchronization. Physical Review E, 2019, 99, 052208.	0.8	5
13	Tracking multistability in the parameter space of a Chua's circuit model. European Physical Journal B, 2019, 92, 1.	0.6	10
14	Optimal ratchet current for elastically interacting particles. Chaos, 2019, 29, 111101.	1.0	5
15	Exploring conservative islands using correlated and uncorrelated noise. Physical Review E, 2018, 97, 022219.	0.8	7
16	Hierarchical collapse of regular islands via dissipation. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 105101.	0.7	4
17	Exploring the Dynamics of a Third-Order Phase-Locked Loop Model. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1830038.	0.7	5
18	Steering multiattractors to overcome parameter inaccuracy and noise effects. Physical Review E, 2018, 98, .	0.8	6

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19	Optimizing thermally affected ratchet currents using periodic perturbations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 508, 454-460.	1.2	8
20	The effect of temperature on generic stable periodic structures in the parameter space of dissipative relativistic standard map. <i>European Physical Journal B</i> , 2017, 90, 1.	0.6	20
21	Controlling intermediate dynamics in a family of quadratic maps. <i>Chaos</i> , 2017, 27, 103101.	1.0	6
22	Proliferation of stability in phase and parameter spaces of nonlinear systems. <i>Chaos</i> , 2017, 27, 081101.	1.0	20
23	Extensive Numerical Study and Circuitry Implementation of the Watt Governor Model. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2017, 27, 1750175.	0.7	14
24	Anomalous dynamics and the choice of Poincaré recurrence set. <i>Physical Review E</i> , 2016, 94, 052222.	0.8	4
25	Weak dissipative effects on trajectories from the edge of basins of attraction. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 456, 68-74.	1.2	9
26	Quantum-classical transition and quantum activation of ratchet currents in the parameter space. <i>Physical Review E</i> , 2015, 91, 052908.	0.8	22
27	Recurrence-time statistics in non-Hamiltonian volume-preserving maps and flows. <i>Physical Review E</i> , 2015, 92, 022921.	0.8	10
28	Characterizing weak chaos using time series of Lyapunov exponents. <i>Physical Review E</i> , 2015, 91, 062907.	0.8	24
29	Extensive numerical investigations on the ergodic properties of two coupled Pomeau-Manneville maps. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2015, 438, 40-47.	1.2	2
30	Stable structures in parameter space and optimal ratchet transport. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2014, 19, 139-149.	1.7	31
31	Bifurcation structures and transient chaos in a four-dimensional Chua model. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 171-177.	0.9	38
32	Numerical bifurcation analysis of two coupled FitzHugh-Nagumo oscillators. <i>European Physical Journal B</i> , 2014, 87, 1.	0.6	39
33	Characterizing weak chaos in nonintegrable Hamiltonian systems: The fundamental role of stickiness and initial conditions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014, 400, 186-193.	1.2	13
34	Conservative generalized bifurcation diagrams. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013, 377, 789-793.	0.9	26
35	Comment on "Lyapunov statistics and mixing rates for intermittent systems". <i>Physical Review E</i> , 2013, 87, 016901.	0.8	3
36	Temperature Resistant Optimal Ratchet Transport. <i>Physical Review Letters</i> , 2013, 110, 114102.	2.9	31

#	ARTICLE	IF	CITATIONS
37	Characterizing the dynamics of higher dimensional nonintegrable conservative systems. Chaos, 2012, 22, 033137.	1.0	18
38	ESTIMATING HYPERBOLICITY OF CHAOTIC BIDIMENSIONAL MAPS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250217.	0.7	7
39	Chaotic and Arnold stripes in weakly chaotic Hamiltonian systems. Chaos, 2012, 22, 026112.	1.0	9
40	Ratchet Transport and Periodic Structures in Parameter Space. Physical Review Letters, 2011, 106, 234101.	2.9	58
41	Dissipation Effects in the Ratchetlike Fermi Acceleration. Mathematical Problems in Engineering, 2009, 2009, 1-9.	0.6	7
42	Instability statistics and mixing rates. Physical Review E, 2009, 80, 036210.	0.8	33
43	Chaotic motion at the emergence of the time averaged energy decay. Physica D: Nonlinear Phenomena, 2009, 238, 1688-1694.	1.3	14
44	Gauss map and Lyapunov exponents of interacting particles in a billiard. Chaos, Solitons and Fractals, 2009, 39, 2041-2047.	2.5	11
45	Instability of powers of the golden mean. Chaos, Solitons and Fractals, 2008, 35, 246-251.	2.5	0
46	Soft wall effects on interacting particles in billiards. Physical Review E, 2008, 78, 046208.	0.8	16
47	Origin of chaos in soft interactions and signatures of nonergodicity. Physical Review E, 2007, 76, 056203.	0.8	15