

Roberto Artuso

List of Publications by Year in descending order

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52
papers

1,460
citations

430874

18
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315739

38
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all docs

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docs citations

53
times ranked

549
citing authors

#	ARTICLE	IF	CITATIONS
1	Recycling of strange sets: I. Cycle expansions. <i>Nonlinearity</i> , 1990, 3, 325-359.	1.4	374
2	Recycling of strange sets: II. Applications. <i>Nonlinearity</i> , 1990, 3, 361-386.	1.4	226
3	Heat Conductivity and Dynamical Instability. <i>Physical Review Letters</i> , 1999, 82, 1859-1862.	7.8	109
4	Fractal spectrum and anomalous diffusion in the kicked Harper model. <i>Physical Review Letters</i> , 1992, 68, 3826-3829.	7.8	71
5	Phase diagram in the kicked Harper model. <i>Physical Review Letters</i> , 1992, 69, 3302-3305.	7.8	58
6	Diffusive dynamics and periodic orbits of dynamical systems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1991, 160, 528-530.	2.1	49
7	Periodic orbit theory of anomalous diffusion. <i>Physical Review Letters</i> , 1993, 71, 62-64.	7.8	44
8	Phase transitions on strange irrational sets. <i>Physical Review A</i> , 1989, 39, 268-281.	2.5	43
9	Anomalous Transport: A Deterministic Approach. <i>Physical Review Letters</i> , 2003, 90, 244101.	7.8	36
10	Instability statistics and mixing rates. <i>Physical Review E</i> , 2009, 80, 036210.	2.1	33
11	On the decay of correlations in Sinai billiards with infinite horizon. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1996, 219, 212-216.	2.1	30
12	Numerical experiments on billiards. <i>Journal of Statistical Physics</i> , 1996, 83, 145-166.	1.2	27
13	Correlation decay for an intermittent area-preserving map. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1998, 246, 407-411.	2.1	20
14	Correlation decay and return time statistics. <i>Physica D: Nonlinear Phenomena</i> , 1999, 131, 68-77.	2.8	20
15	Spectral properties and anomalous transport in a polygonal billiard. <i>Chaos</i> , 2000, 10, 189-194.	2.5	20
16	Periodic orbit theory of strongly anomalous transport. <i>Journal of Physics A</i> , 2004, 37, 85-103.	1.6	19
17	Anomalous diffusion in classical dynamical systems. <i>Physics Reports</i> , 1997, 290, 37-47.	25.6	18
18	Delocalized and resonant quantum transport in nonlinear generalizations of the kicked rotor model. <i>Physical Review E</i> , 2005, 71, 036220.	2.1	18

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19	Effects of atomic interactions on quantum accelerator modes. <i>Physical Review A</i> , 2007, 76, .	2.5	17
20	Magnetization and Lyapunov exponents on a kagome chain with multi-site exchange interaction. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 374, 4084-4089.	2.1	15
21	Cycle Expansions for Intermittent Maps. <i>Progress of Theoretical Physics Supplement</i> , 2003, 150, 1-21.	0.1	14
22	Directed deterministic classical transport: Symmetry breaking and beyond. <i>Physical Review E</i> , 2007, 75, 066213.	2.1	14
23	Statistics of occupation times and connection to local properties of nonhomogeneous random walks. <i>Physical Review E</i> , 2020, 101, 042103.	2.1	14
24	Sparre-Andersen theorem with spatiotemporal correlations. <i>Physical Review E</i> , 2014, 89, 052111.	2.1	13
25	Dynamical and transport properties in a family of intermittent area-preserving maps. <i>Physical Review E</i> , 2008, 77, 046206.	2.1	12
26	Exploring the Gillis model: a discrete approach to diffusion in logarithmic potentials. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2020, 2020, 113201.	2.3	11
27	Geometric scaling of correlation decay in chaotic billiards. <i>Physical Review E</i> , 1995, 51, R3807-R3810.	2.1	10
28	Nonlinearity effects in the kicked oscillator. <i>Physical Review E</i> , 2002, 66, 017203.	2.1	10
29	Non-homogeneous persistent random walks and $\tilde{\text{L}}\ddot{\text{O}}\text{v}\ddot{\text{y}}\ddot{\text{a}}\text{€}^{\text{L}}\text{Lorentz gas}$. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2018, 2018, 083209.	2.3	10
30	The partition function zeros for a Potts model of helix-coil transition with three-site interactions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 5433-5439.	2.6	9
31	Transport properties and ageing for the averaged $\tilde{\text{L}}\ddot{\text{O}}\text{v}\ddot{\text{y}}\ddot{\text{a}}\text{€}^{\text{L}}\text{Lorentz gas}$. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 025701.	2.1	9
32	Periodic orbit theory of deterministic diffusion. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1994, 205, 412-419.	2.6	8
33	Superstable cycles for antiferromagnetic Q-state Potts and three-site interaction Ising models on recursive lattices. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2014, 19, 3671-3678.	3.3	8
34	Recycling deterministic diffusion. <i>Physica D: Nonlinear Phenomena</i> , 1994, 76, 1-7.	2.8	7
35	Effects of a nonlinear perturbation on dynamical tunneling in cold atoms. <i>Physical Review E</i> , 2003, 68, 036221.	2.1	7
36	ESTIMATING HYPERBOLICITY OF CHAOTIC BIDIMENSIONAL MAPS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2012, 22, 1250217.	1.7	7

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37	A Continuous-Time Random Walk Extension of the Gillis Model. <i>Entropy</i> , 2020, 22, 1431.	2.2	7
38	Break-up of the spiral mean torus in a volume-preserving map. <i>Chaos, Solitons and Fractals</i> , 1992, 2, 181-190.	5.1	6
39	Asymptotic quantum behavior of classically anomalous maps. <i>Physical Review E</i> , 2001, 64, 015204.	2.1	6
40	Multi-dimensional mapping and folding properties for non-classical helix-stabilizing interactions of proteins. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 360, 615-618.	2.1	5
41	Anomalous dynamics and the choice of Poincaré recurrence set. <i>Physical Review E</i> , 2016, 94, 052222.	2.1	4
42	Spinor dynamics of quantum accelerator modes near higher-order resonances. <i>Physical Review A</i> , 2009, 79, .	2.5	3
43	One-dimensional mapping, modulated phases and Lyapunov exponent for the antiferromagnetic -state Potts and multi-site exchange interaction Ising models. <i>Physica D: Nonlinear Phenomena</i> , 2010, 239, 1723-1729.	2.8	3
44	Comment on "Lyapunov statistics and mixing rates for intermittent systems". <i>Physical Review E</i> , 2013, 87, 016901.	2.1	3
45	Collapse of hierarchical phase space and mixing rates in Hamiltonian systems. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 530, 121568.	2.6	3
46	Weak chaos and anomalous transport: a deterministic approach. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2003, 8, 137-148.	3.3	2
47	Anomalous deterministic transport. <i>Chaos</i> , 2005, 15, 015116.	2.5	2
48	Recycling Parrondo games. <i>Journal of Physics A</i> , 2006, 39, 1285-1295.	1.6	2
49	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.	2.6	2
50	The stationary state and the heat equation for a variant of Davies' model of heat conduction. <i>Journal of Statistical Physics</i> , 1985, 38, 1051-1070.	1.2	1
51	From Normal to Anomalous Deterministic Diffusion. , 2003, , 145-170.		1
52	Anomalous Diffusion: Deterministic and Stochastic Perspectives. <i>Lecture Notes in Physics</i> , 2014, , 263-293.	0.7	0