Ugur Tirnakli

List of Publications by Year
in descending order

78	1,511	279798	345221
papers	citations	23 h-index	36 g-index

80	80	80	758
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Central limit behavior of deterministic dynamical systems. Physical Review E, 2007, 75, 040106.	2.1	94
2	The standard map: From Boltzmann-Gibbs statistics to Tsallis statistics. Scientific Reports, 2016, 6, 23644.	3.3	90
3	Closer look at time averages of the logistic map at the edge of chaos. Physical Review E, 2009, 79, 056209.	2.1	81
4	Convergence to the critical attractor of dissipative maps: Log-periodic oscillations, fractality, and nonextensivity. Physical Review E, 2000, 62, 6361-6365.	2.1	76
5	Generalized distribution functions and an alternative approach to generalized Planck radiation law. Physica A: Statistical Mechanics and Its Applications, 1997, 240, 657-664.	2.6	57
6	Predicting COVID-19 Peaks Around the World. Frontiers in Physics, 2020, 8, .	2.1	55
7	Some bounds upon the nonextensivity parameter using the approximate generalized distribution functions. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 245, 62-66.	2.1	52
8	Nonadditive entropy and nonextensive statistical mechanics â€“ Some central concepts and recent applications. Journal of Physics: Conference Series, 2010, 201, 012001.	0.4	49
9	Analysis of return distributions in the coherent noise model. Physical Review E, 2010, 82, 021124.	2.1	47
10	Generalization of the Kolmogorovâ€“Sinai entropy: logistic-like and generalized cosine maps at the chaos threshold. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 289, 51-58.	2.1	39
11	Recurrence Quantification Analysis at work: Quasi-periodicity based interpretation of gait force profiles for patients with Parkinson disease. Scientific Reports, 2018, 8, 9102.	3.3	37
12	Circular-like maps: sensitivity to the initial conditions, multifractality and nonextensivity. European Physical Journal B, 1999, 11, 309-315.	1.5	36
13	Analysis of self-organized criticality in Ehrenfestâ€™s dog-flea model. Physical Review E, 2009, 79, 040103.	2.1	35
14	Nonextensive statistical approach to non-coding human DNA. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 2653-2659.	2.6	33
15	Connectivity-Driven Coherence in Complex Networks. Physical Review Letters, 2013, 110, 234103.	7.8	31
16	Exact and approximate results of non-extensive quantum statistics. European Physical Journal B, 2000, 14, 691-698.	1.5	30
17	Recurrence plot analysis of irregularly sampled data. Physical Review E, 2018, 98, .	2.1	29
18	Generalized quantal distribution functions within factorization approach: some general results for bosons and fermions. Physica A: Statistical Mechanics and Its Applications, 1998, 261, 499-511.	2.6	28

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19	Circular-like maps: sensitivity to the initial conditions, multifractality and nonextensivity. European Physical Journal B, 1999, 11, 309.	1.5	28
20	Probability densities for the sums of iterates of the sine-circle map in the vicinity of the quasiperiodic edge of chaos. Physical Review E, 2010, 82, 046210.	2.1	27
21	Asymmetric unimodal maps at the edge of chaos. Physical Review E, 2002, 65, 036207.	2.1	26
22	Aging in coherent noise models and natural time. Physical Review E, 2004, 70, 056120.	2.1	25
23	Self-organization in dissipative optical lattices. Chaos, 2009, 19, 033113.	2.5	24
24	Two-dimensional maps at the edge of chaos: Numerical results for the Henon map. Physical Review E, 2002, 66, 066212.	2.1	23
25	Asymmetric unimodal maps:â€,â€,Some results fromq-generalized bit cumulants. Physical Review E, 2000, 62, 7857-7860.	2.1	21
26	Tsallis versus Renyi entropic form for systems with q-exponential behaviour: the case of dissipative maps. Physica A: Statistical Mechanics and Its Applications, 2004, 331, 487-496.	2.6	20
27	Generalized Huberman-Rudnick scaling law and robustness of q-Gaussian probability distributions. Europhysics Letters, 2013, 101, 20003.	2.0	20
28	Generalization of the mean-field Ising model within Tsallis thermostatistics. Physica A: Statistical Mechanics and Its Applications, 1997, 238, 285-294.	2.6	18
29	Self organized criticality in a modified Olami-Feder-Christensen model. European Physical Journal B, 2011, 82, 83-89.	1.5	18
30	Skewness and kurtosis analysis for non-Gaussian distributions. Physica A: Statistical Mechanics and Its Applications, 2018, 499, 325-334.	2.6	18
31	Quantal distribution functions in non-extensive statistics and an early universe test revisited. Physica A: Statistical Mechanics and Its Applications, 1999, 268, 225-230.	2.6	17
32	On the way towards a generalized entropy maximization procedure. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 3230-3234.	2.1	17
33	Entropy-based complexity measures for gait data of patients with Parkinson's disease. Chaos, 2016, 26, 023115.	2.5	17
34	Statistical characterization of the standard map. Journal of Statistical Mechanics: Theory and Experiment, 2017, 2017, 063403.	2.3	17
35	Sensitivity function and entropy increase rates for z-logistic map family at the edge of chaos. Physica A: Statistical Mechanics and Its Applications, 2006, 372, 238-242.	2.6	15
36	Return distributions in dog-flea model revisited. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 3382-3386.	2.6	13

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37	Landau diamagnetism within Tsallis thermostatistics and quantum groups. European Physical Journal B, 1998, 2, 101-106.	1.5	12
38	DAMAGE SPREADING IN THE BAKâ€“SNEPPEN MODEL: SENSITIVITY TO THE INITIAL CONDITIONS AND EQUILIBRATION DYNAMICS. International Journal of Modern Physics C, 2003, 14, 805-814.	1.7	12
39	Renormalized entropy for one dimensional discrete maps: periodic and quasi-periodic route to chaos and their robustness. European Physical Journal B, 2013, 86, 1.	1.5	12
40	Epidemiological Model With Anomalous Kinetics: Early Stages of the COVID-19 Pandemic. Frontiers in Physics, 2020, 8, .	2.1	12
41	The effect of nonextensivity on the time development of quantum systems. Zeitschrift FÃ¼r Physik B-Condensed Matter, 1997, 104, 341-345.	1.1	11
42	Statistical characterization of discrete conservative systems: The web map. Physical Review E, 2017, 96, 042158.	2.1	11
43	Complexity of seismicity and nonextensive statistics. Europhysics News, 2005, 36, 206-208.	0.3	10
44	Chaos edges ofz-logistic maps: Connection between the relaxation and sensitivity entropic indices. Physical Review E, 2006, 73, 037201.	2.1	10
45	Dissipative maps at the chaos threshold: numerical results for the single-site map. Physica A: Statistical Mechanics and Its Applications, 2002, 305, 119-123.	2.6	9
46	Critical dynamics of anisotropic Bakâ€“Sneppen model. Physica A: Statistical Mechanics and Its Applications, 2004, 342, 151-157.	2.6	9
47	Restricted random walk model as a new testing ground for the applicability of q-statistics. Europhysics Letters, 2011, 96, 40008.	2.0	9
48	Two-dimensional dissipative maps at chaos threshold: sensitivity to initial conditions and relaxation dynamics. Physica A: Statistical Mechanics and Its Applications, 2004, 340, 227-233.	2.6	8
49	Relationships and scaling laws among correlation, fractality, Lyapunov divergence and -Gaussian distributions. Physica D: Nonlinear Phenomena, 2014, 272, 18-25.	2.8	8
50	Damage spreading in the Bakâ€“Sneppen and ballistic deposition models: critical dynamics and nonextensivity. Physica D: Nonlinear Phenomena, 2004, 193, 329-337.	2.8	7
51	Sensitivity to initial conditions in coherent noise models. European Physical Journal B, 2005, 46, 377-380.	1.5	7
52	Mixing and relaxation dynamics of the HÃ©non map at the edge of chaos. Physica D: Nonlinear Phenomena, 2004, 193, 148-152.	2.8	6
53	Generalized entropic structures and non-generality of Jaynesâ€™ Formalism. Chaos, Solitons and Fractals, 2009, 42, 3027-3034.	5.1	6
54	Comment on â€œUniversal relation between skewness and kurtosis in complex dynamicsâ€• Physical Review E, 2015, 92, 066801.	2.1	6

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55	Noisy coupled logistic maps in the vicinity of chaos threshold. Chaos, 2016, 26, 043114.	2.5	6
56	Thermal conductance of the coupled-rotator chain: Influence of temperature and size. Europhysics Letters, 2017, 117, 60004.	2.0	6
57	Damage spreading in 2-dimensional isotropic and anisotropic Bak-Sneppen models. European Physical Journal B, 2008, 62, 95-99.	1.5	5
58	Earthquakes, model systems and connections to q-statistics. Acta Geophysica, 2012, 60, 535-546.	2.0	5
59	On the relevance ofq-distribution functions: the return time distribution of restricted random walker. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 425004.	2.1	5
60	Limit behaviour and scaling relations of two kinds of noisy logistic map in the vicinity of chaos threshold and their robustness. Physica A: Statistical Mechanics and Its Applications, 2015, 424, 269-282.	2.6	5
61	Second law for transitions between nonequilibrium steady states. Physical Review E, 2013, 87, .	2.1	4
62	Comparison of Standard Statistical Thermodynamics with Generalized Statistical Thermodynamics Results for Ising Chain. Acta Physica Polonica A, 1997, 91, 1135-1042.	0.5	4
63	A generalization of the standard map and its statistical characterization. Scientific Reports, 2022, 12, .	3.3	4
64	Short-time dynamics of isotropic and anisotropic Bakâ€“Sneppen model: extensive simulation results. Physica A: Statistical Mechanics and Its Applications, 2004, 344, 712-717.	2.6	3
65	SELF-ORGANIZATION IN NONADDITIVE SYSTEMS WITH EXTERNAL NOISE. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 4247-4252.	1.7	3
66	Canonical equilibrium distribution derived from Helmholtz potential. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 6386-6389.	2.6	3
67	Unified scaling law in the coherent noise model. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 4543-4548.	2.6	3
68	Dynamical robustness of discrete conservative systems: Harper and generalized standard maps. Journal of Statistical Mechanics: Theory and Experiment, 2020, 2020, 063206.	2.3	3
69	Nonextensive statistical mechanics, superstatistics and beyond: theory and applications in astrophysical and other complex systems. European Physical Journal: Special Topics, 2020, 229, 707-709.	2.6	3
70	Extensive Numerical Results for Integrable Case of Standard Map. Nonlinear Phenomena in Complex Systems, 2020, 23, 149-152.	0.3	3
71	Approaching a large deviation theory for complex systems. Nonlinear Dynamics, 2021, 106, 2537.	5.2	3
72	Entropic extensivity and large deviations in the presence of strong correlations. Physica D: Nonlinear Phenomena, 2022, 431, 133132.	2.8	3

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73	Convergence dynamics of the Bakâ€“Sneppen model: Activity rate and waiting time distribution. Physica A: Statistical Mechanics and Its Applications, 2007, 375, 103-109.	2.6	2
74	Generalized Pesin-Like Identity and Scaling Relations at the Chaos Threshold of the RÃ¶ssler System. Entropy, 2018, 20, 216.	2.2	2
75	Convergence dynamics of 2-dimensional isotropic and anisotropic Bakâ€“Sneppen models. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 5110-5116.	2.6	1
76	AGING IN EARTHQUAKE MODELS. , 2005, , .		0
77	Generalized Distribution Functions and an Alternative Generalization of the Planck Radiation Law. Turkish Journal of Physics, 1997, 21, 178-178.	1.1	0
78	Mean Field Theory For The Ising Model Within Generalized Statistical Thermodynamics (GST). Turkish Journal of Physics, 1996, 20, 75-75.	1.1	0