

Ricardo Lopez-Ruiz

List of Publications by Year in descending order

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67
papers

1,860
citations

516710

16
h-index

265206

42
g-index

71
all docs

71
docs citations

71
times ranked

768
citing authors

#	ARTICLE	IF	CITATIONS
1	A statistical measure of complexity. Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 209, 321-326.	2.1	739
2	Features of the extension of a statistical measure of complexity to continuous systems. Physical Review E, 2002, 66, 011102.	2.1	213
3	Tendency towards maximum complexity in a nonequilibrium isolated system. Physical Review E, 2001, 63, 066116.	2.1	133
4	Statistical complexity and Fisher-Shannon information in the H-atom. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 5283-5286.	2.1	95
5	Shannon information, LMC complexity and Rényi entropies: a straightforward approach. Biophysical Chemistry, 2005, 115, 215-218.	2.8	60
6	A generalized statistical complexity measure: Applications to quantum systems. Journal of Mathematical Physics, 2009, 50, .	1.1	51
7	COMPLEXITY IN SOME PHYSICAL SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2001, 11, 2669-2673.	1.7	34
8	Indirect Allee effect, bistability and chaotic oscillations in a predator-prey discrete model of logistic type. Chaos, Solitons and Fractals, 2005, 24, 85-101.	5.1	34
9	A method to discern complexity in two-dimensional patterns generated by coupled map lattices. Physica A: Statistical Mechanics and Its Applications, 2005, 355, 633-640.	2.6	31
10	Some features of the statistical complexity, Fisher-Shannon information and Bohr-like orbits in the quantum isotropic harmonic oscillator. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 265303.	2.1	30
11	Complex Behavior in a Discrete Coupled Logistic Model for the Symbiotic Interaction of Two Species. Mathematical Biosciences and Engineering, 2004, 1, 307-324.	1.9	28
12	Horseshoe implications. Physical Review E, 1993, 48, 4297-4304.	2.1	26
13	Mode-mode interaction for a CO ₂ laser with imperfect O(2) symmetry. Physical Review A, 1993, 47, 500-509.	2.5	23
14	Alternative evaluation of statistical indicators in atoms: The non-relativistic and relativistic cases. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 2549-2551.	2.1	22
15	A chaotic gas-like model for trading markets. Journal of Computational Science, 2010, 1, 24-32.	2.9	20
16	The limit cycles of Liénard equations in the strongly nonlinear regime. Chaos, Solitons and Fractals, 2000, 11, 747-756.	5.1	16
17	Pareto and Boltzmann-Gibbs behaviors in a deterministic multi-agent system. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 4637-4642.	2.6	16
18	Exponential wealth distribution in a random market. A rigorous explanation. Journal of Mathematical Analysis and Applications, 2012, 386, 195-204.	1.0	15

#	ARTICLE	IF	CITATIONS
19	Dynamics of maps with a global multiplicative coupling. <i>Chaos, Solitons and Fractals</i> , 1991, 1, 511-528.	5.1	14
20	Nonlinear interaction of transverse modes in a CO ₂ laser. <i>Physical Review A</i> , 1994, 49, 4916-4921.	2.5	14
21	COMPLEX PATTERNS ON THE PLANE: DIFFERENT TYPES OF BASIN FRACTALIZATION IN A TWO-DIMENSIONAL MAPPING. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2003, 13, 287-310.	1.7	14
22	A geometrical derivation of the Boltzmann factor. <i>American Journal of Physics</i> , 2008, 76, 780-781.	0.7	14
23	Calculation of statistical entropic measures in a model of solids. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 2288-2291.	2.1	14
24	A model of characteristic earthquakes and its implications for regional seismicity. <i>Terra Nova</i> , 2004, 16, 116-120.	2.1	11
25	A model of coupled maps for economic dynamics. <i>European Physical Journal: Special Topics</i> , 2007, 143, 241-243.	2.6	11
26	Complexity Invariance by Replication in the Quantum Square Well. <i>Open Systems and Information Dynamics</i> , 2009, 16, 423-427.	1.2	10
27	The homotopy analysis method and the Li ² -Bernard equation. <i>International Journal of Computer Mathematics</i> , 2011, 88, 121-134.	1.8	10
28	Statistical measures and magic numbers in metal clusters. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 1674-1676.	2.1	9
29	Derivation of the Maxwellian distribution from the microcanonical ensemble. <i>American Journal of Physics</i> , 2007, 75, 752-753.	0.7	8
30	Awaking and sleeping of a complex network. <i>Neural Networks</i> , 2007, 20, 102-108.	5.9	8
31	Transition from Pareto to Boltzmann-Gibbs behavior in a deterministic economic model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009, 388, 3521-3526.	2.6	8
32	Periodic and chaotic events in a discrete model of logistic type for the competitive interaction of two species. <i>Chaos, Solitons and Fractals</i> , 2009, 41, 334-347.	5.1	8
33	Evidence of Magic Numbers in Nuclei by Statistical Indicators. <i>Open Systems and Information Dynamics</i> , 2010, 17, 279-286.	1.2	8
34	Exponential wealth distribution : a new approach from functional iteration theory. <i>ESAIM: Proceedings and Surveys</i> , 2012, 36, 189-196.	0.4	8
35	Statistical measures and the Klein tunneling in single-layer graphene. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 1005-1009.	2.1	8
36	Formulas for the Amplitude of the van der Pol Limit Cycle through the Homotopy Analysis Method. <i>Scholarly Research Exchange</i> , 2009, 2009, 1-7.	0.2	8

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37	Transition between two oscillation modes. <i>Physical Review E</i> , 1997, 55, R3820-R3823.	2.1	7
38	Equilibrium distributions and relaxation times in gaslike economic models: An analytical derivation. <i>Physical Review E</i> , 2011, 83, 036108.	2.1	7
39	A new model for ideal gases. Decay to the Maxwellian distribution. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012, 391, 2600-2607.	2.6	7
40	Symmetry induced oscillations in four-dimensional models deriving from the van der Pol equation. <i>Chaos, Solitons and Fractals</i> , 2004, 21, 55-61.	5.1	6
41	Extremum complexity distribution of a monodimensional ideal gas out of equilibrium. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 382, 523-530.	2.6	6
42	Equiprobability, Entropy, Gamma Distributions and Other Geometrical Questions in Multi-Agent Systems. <i>Entropy</i> , 2009, 11, 959-971.	2.2	6
43	Statistical Complexity and Fisher-Shannon Information: Applications. , 2011, , 65-127.		6
44	TRANSITION FROM EXPONENTIAL TO POWER LAW INCOME DISTRIBUTIONS IN A CHAOTIC MARKET. <i>International Journal of Modern Physics C</i> , 2011, 22, 21-33.	1.7	5
45	Study of a quantum scattering process by means of entropic measures. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013, 377, 2556-2560.	2.1	5
46	Detecting synchronization in spatially extended discrete systems by complexity measurements. <i>Discrete Dynamics in Nature and Society</i> , 2005, 2005, 337-342.	0.9	4
47	Approximating the amplitude and form of limit cycles in the weakly nonlinear regime of Li ⁺ systems. <i>Chaos, Solitons and Fractals</i> , 2007, 34, 1307-1317.	5.1	4
48	DYNAMICS OF TWO LOGISTIC MAPS WITH A MULTIPLICATIVE COUPLING. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1992, 02, 421-425.	1.7	3
49	Registering seconds with a conic clock. <i>Chaos, Solitons and Fractals</i> , 2005, 23, 67-72.	5.1	3
50	DIRECTED RANDOM MARKETS: CONNECTIVITY DETERMINES MONEY. <i>International Journal of Modern Physics C</i> , 2013, 24, 1250088.	1.7	3
51	Order in binary sequences and the routes to chaos. <i>Chaos, Solitons and Fractals</i> , 2006, 27, 1316-1320.	5.1	2
52	Symmetry pattern transition in cellular automata with complex behavior. <i>Chaos, Solitons and Fractals</i> , 2008, 37, 638-642.	5.1	2
53	Modelling user's activity in a real-world complex network. <i>International Journal of Computer Mathematics</i> , 2008, 85, 1287-1298.	1.8	2
54	Extremum complexity in the monodimensional ideal gas: The piecewise uniform density distribution approximation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009, 388, 4364-4378.	2.6	2

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55	Statistical magnitudes and the chiral tunneling in bilayer graphene: Influence of evanescent waves. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 1122-1126.	2.1	2
56	Statistical Complexity. Applications in Electronic Systems. Journal of Theoretical and Computational Science, 2015, 02, .	0.1	2
57	A Binary approach to the Lorenz model. Chaos, Solitons and Fractals, 1997, 8, 1-6.	5.1	1
58	Economic Models with Chaotic Money Exchange. Lecture Notes in Computer Science, 2009, , 43-52.	1.3	1
59	Logistic Models for Symbiosis, Predator-Prey, and Competition. , 2008, , 838-847.		1
60	Registering seconds with a conic clock. Chaos, Solitons and Fractals, 2004, 23, 67-67.	5.1	0
61	Indirect Allee effect, bistability and chaotic oscillations in a predator-prey discrete model of logistic type. Chaos, Solitons and Fractals, 2005, 24, 85-101.	5.1	0
62	Geometrical Derivation of Equilibrium Distributions in Some Stochastic Systems. , 2012, , .		0
63	A Nonlinear Map for the Decay to Equilibrium of Ideal Gases. Springer Proceedings in Mathematics and Statistics, 2014, , 133-140.	0.2	0
64	Complexity and Stochastic Synchronization in Coupled Map Lattices and Cellular Automata. , 0, , .		0
65	Heisenberg uncertainty relation and statistical measures in the square well. Communications in Numerical Analysis, 0, 2012, 1-7.	0.1	0
66	Complex Systems with Trivial Dynamics. Springer Proceedings in Complexity, 2013, , 57-65.	0.3	0
67	Random Market Models with an H-Theorem. Springer Proceedings in Mathematics and Statistics, 2015, , 215-226.	0.2	0