Andrea Rapisarda

List of Publications by Year
in descending order

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136	4,446	147801 31	118850 62
papers	citations	h-index	g-index

141	141	141	2635
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Error and attack tolerance of complex networks. Physica A: Statistical Mechanics and Its Applications, 2004, 340, 388-394.	2.6	382
2	Efficiency of scale-free networks: error and attack tolerance. Physica A: Statistical Mechanics and Its Applications, 2003, 320, 622-642.	2.6	379
3	Non-Gaussian equilibrium in a long-range Hamiltonian system. Physical Review E, 2001, 64, 056134.	2.1	286
4	Detecting complex network modularity by dynamical clustering. Physical Review E, 2007, 75, 045102.	2.1	194
5	Superdiffusion and Out-of-Equilibrium Chaotic Dynamics with Many Degrees of Freedoms. Physical Review Letters, 1999, 83, 2104-2107.	7.8	160
6	Lyapunov Instability and Finite Size Effects in a System with Long-Range Forces. Physical Review Letters, 1998, 80, 692-695.	7.8	154
7	VECTOR OPINION DYNAMICS IN A BOUNDED CONFIDENCE CONSENSUS MODEL. International Journal of Modern Physics C, 2005, 16, 1535-1551.	1.7	143
8	Power-Law Time Distribution of Large Earthquakes. Physical Review Letters, 2003, 90, 188501.	7.8	125
9	Analysis of self-organized criticality in the Olami-Feder-Christensen model and in real earthquakes. Physical Review E, 2007, 75, 055101.	2.1	124
10	The rate of entropy increase at the edge of chaos. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 273, 97-103.	2.1	121
11	CHANGING OPINIONS IN A CHANGING WORLD: A NEW PERSPECTIVE IN SOCIOPHYSICS. International Journal of Modern Physics C, 2005, 16, 515-531.	1.7	99
12	Fingerprints of nonextensive thermodynamics in a long-range Hamiltonian system. Physica A: Statistical Mechanics and Its Applications, 2002, 305, 129-136.	2.6	94
13	Nonergodicity and central-limit behavior for long-range Hamiltonians. Europhysics Letters, 2007, 80, 26002.	2.0	79
14	Compromise and synchronization in opinion dynamics. European Physical Journal B, 2006, 50, 169-176.	1.5	75
15	The Peter principle revisited: A computational study. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 467-472.	2.6	62
16	Chimera: a project of a 4Ï€ detector for heavy ion reactions studies at intermediate energy. Nuclear Physics A, 1995, 583, 461-464.	1.5	61
17	Chaos and statistical mechanics in the Hamiltonian mean field model. Physica D: Nonlinear Phenomena, 1999, 131, 38-54.	2.8	61
18	TALENT VERSUS LUCK: THE ROLE OF RANDOMNESS IN SUCCESS AND FAILURE. International Journal of Modeling, Simulation, and Scientific Computing, 2018, 21, 1850014.	1.4	60

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19	Are Random Trading Strategies More Successful than Technical Ones?. PLoS ONE, 2013, 8, e68344.	2.5	52
20	Physics with the Chimera detector at LNS in Catania: the REVERSE experiment. Nuclear Physics A, 2001, 681, 331-338.	1.5	50
21	A novel methodology for epidemic risk assessment of COVID-19 outbreak. Scientific Reports, 2021, 11, 5304.	3.3	50
22	Opinion dynamics and synchronization in a network of scientific collaborations. Physica A: Statistical Mechanics and Its Applications, 2006, 372, 316-325.	2.6	48
23	Modelling stakeholder participation in transport planning. Case Studies on Transport Policy, 2016, 4, 230-238.	2.5	47
24	Universal Behavior of Lyapunov Exponents in Unstable Systems. Physical Review Letters, 1995, 75, 3434-3437.	7.8	46
25	A closer look at the indications of q-generalized Central Limit Theorem behavior in quasi-stationary states of the HMF model. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 3121-3128.	2.6	46
26	Multi-agent simulation for planning and designing new shared mobility services. Research in Transportation Economics, 2019, 73, 34-44.	4.1	46
27	Metastable states, anomalous distributions and correlations in the HMF model. Physica D: Nonlinear Phenomena, 2004, 193, 315-328.	2.8	43
28	Nonextensive thermodynamics and glassy behaviour. Europhysics News, 2005, 36, 202-206.	0.3	40
29	Central limit behavior in the Kuramoto model at the â€œedge of chaosâ€• Physica A: Statistical Mechanics and Its Applications, 2009, 388, 4818-4826.	2.6	39
30	On multivariate generalizations of the q-central limit theorem consistent with nonextensive statistical mechanics. AIP Conference Proceedings, 2007, , .	0.4	34
31	Accidental politicians: How randomly selected legislators can improve parliament efficiency. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 3944-3954.	2.6	34
32	Reducing financial avalanches by random investments. Physical Review E, 2013, 88, 062814.	2.1	33
33	Agent-Based Simulation of Pedestrian Behaviour in Closed Spaces: A Museum Case Study. Jasss, 2014, 17, .	1.8	32
34	Chaotic dynamics and superdiffusion in a Hamiltonian system with many degrees of freedom. Physica A: Statistical Mechanics and Its Applications, 2000, 280, 81-86.	2.6	31
35	Glassy phase in the Hamiltonian mean-field model. Physical Review E, 2004, 69, 056113.	2.1	30
36	The Beneficial Role of Random Strategies in Social and Financial Systems. Journal of Statistical Physics, 2013, 151, 607-622.	1.2	30

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37	Modeling financial markets by self-organized criticality. Physical Review E, 2015, 92, 042814.	2.1	30
38	The Hamiltonian Mean Field Model: From Dynamics to Statistical Mechanics and Back. Lecture Notes in Physics, 2002, , 458-487.	0.7	28
39	Coexistence of regular and chaotic scattering in heavy-ion collisions. Physical Review Letters, 1991, 66, 2581-2584.	7.8	27
40	Olami-Feder-Christensen model on different networks. European Physical Journal B, 2006, 50, 243-247.	1.5	27
41	Dynamics and thermodynamics of a model with long-range interactions. Continuum Mechanics and Thermodynamics, 2004, 16, 245-255.	2.2	26
42	Efficient promotion strategies in hierarchical organizations. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 3496-3511.	2.6	26
43	Dynamics of fragment formation in the nuclear spinodal region. Physical Review C, 1995, 51, 198-211.	2.9	24
44	New universal aspects of diffusion in strongly chaotic systems. Journal of Physics A, 1997, 30, L803-L813.	1.6	24
45	Time evolution of thermodynamic entropy for conservative and dissipative chaotic maps. Chaos, Solitons and Fractals, 2002, 13, 471-478.	5.1	23
46	Glassy dynamics in the HMF model. Physica A: Statistical Mechanics and Its Applications, 2004, 340, 187-195.	2.6	23
47	Finding shared decisions in stakeholder networks: An agent-based approach. Physica A: Statistical Mechanics and Its Applications, 2017, 466, 277-287.	2.6	23
48	Metastability in the Hamiltonian mean field model and Kuramoto model. Physica A: Statistical Mechanics and Its Applications, 2006, 365, 184-189.	2.6	22
49	Noise, synchrony, and correlations at the edge of chaos. Physical Review E, 2013, 87, 022910.	2.1	22
50	Non-linear mean field dynamics in the nuclear spinodal zone. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 321, 307-311.	4.1	21
51	Prompt electrons driving ion acceleration and formation of a two-temperature plasma in nanosecond laser-ablation domain. Europhysics Letters, 2012, 100, 45003.	2.0	21
52	Chaotic scattering in heavyâ€ion reactions. Chaos, 1993, 3, 691-706.	2.5	20
53	On the non-Boltzmannian nature of quasi-stationary states in long-range interacting systems. Physica A: Statistical Mechanics and Its Applications, 2007, 381, 143-147.	2.6	20
54	Micro and macro benefits of random investments in financial markets. Contemporary Physics, 2014, 55, 318-334.	1.8	20

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55	Simulating Opinion Dynamics on Stakeholdersâ€™ Networks through Agent-based Modeling for Collective Transport Decisions. Procedia Computer Science, 2015, 52, 884-889.	2.0	20
56	Exploring the role of interdisciplinarity in physics: Success, talent and luck. PLoS ONE, 2019, 14, e0218793.	2.5	20
57	Phase transitions and chaos in long-range models of coupled oscillators. Europhysics Letters, 2009, 85, 10007.	2.0	19
58	Taxi vs. demand responsive shared transport systems: An agent-based simulation approach. Transport Policy, 2021, 103, 116-126.	6.6	19
59	Environmental Atmospheric Turbulence at Florence Airport. AIP Conference Proceedings, 2004, , .	0.4	18
60	Nonextensive statistical mechanics and central limit theorems Iâ€”Convolution of independent random variables and q-product. AIP Conference Proceedings, 2007, , .	0.4	18
61	Sub-barrier transfer reactions of 32S + 64Ni. Nuclear Physics A, 1993, 559, 443-460.	1.5	17
62	Chaoticity in vibrating nuclear billiards. Physical Review C, 1995, 52, 2475-2479.	2.9	17
63	Comment on â€œPower-Law Time Distribution of Large Earthquakesâ€• Physical Review Letters, 2004, 92, 129801; author reply 129802.	7.8	17
64	Dynamical anomalies and the role of initial conditions in the HMF model. Physica A: Statistical Mechanics and Its Applications, 2004, 338, 60-67.	2.6	17
65	Detection of Fake News on COVID-19 on Web Search Engines. Frontiers in Physics, 2021, 9, .	2.1	17
66	Multi agent simulation of pedestrian behavior in closed spatial environments. , 2009, , .		15
67	Informative Contagion Dynamics in a Multilayer Network Model of Financial Markets. Italian Economic Journal, 2017, 3, 343-366.	1.8	15
68	Multiparticle transfer and frictional forces in heavy ion collisions. Nuclear Physics A, 1987, 472, 333-357.	1.5	14
69	Chaos in the Thermodynamic Limit. Progress of Theoretical Physics Supplement, 2000, 139, 204-213.	0.1	14
70	The impact of real time information on transport network routing through intelligent agent-based simulation. , 2009, , .		14
71	Order book, financial markets, and self-organized criticality. Chaos, Solitons and Fractals, 2016, 88, 196-208.	5.1	14
72	Nonextensivity: From Low-Dimensional Maps to Hamiltonian Systems. Lecture Notes in Physics, 2002, , 140-162.	0.7	14

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73	Dynamical quasi-stationary states in a system with long-range forces. Chaos, Solitons and Fractals, 2002, 13, 401-406.	5.1	13
74	Nonextensive statistical mechanics and central limit theorems Iiâ€"Convolution of q-independent random variables. AIP Conference Proceedings, 2007, , .	0.4	13
75	A generalised model for asymptotically-scale-free geographical networks. Journal of Statistical Mechanics: Theory and Experiment, 2020, 2020, 043404.	2.3	13
76	One-body dissipation and chaotic dynamics in a classical simulation of a nuclear gas. Physical Review C, 1998, 58, 2821-2830.	2.9	12
77	Acoustic emissions in compression of building materials: q-statistics enables the anticipation of the breakdown point. European Physical Journal: Special Topics, 2020, 229, 841-849.	2.6	12
78	Return Migration After Brain Drain: A Simulation Approach. Jasss, 2013, 16, .	1.8	12
79	Microscopic theory of multiparticle transfer and of fusion in the reaction 40Ca+40Ca. Nuclear Physics A, 1988, 490, 471-484.	1.5	11
80	A fractal approach to the temporal distribution of microseismicity at the low eastern flank of Mt. Etna during 1989â€"1994. Physics of the Earth and Planetary Interiors, 1998, 109, 115-127.	1.9	11
81	MULTIFRACTAL ANALYSIS OF MOUNT St. HELENS SEISMICITY AS A TOOL FOR IDENTIFYING ERUPTIVE ACTIVITY. Fractals, 2006, 14, 179-186.	3.7	11
82	Chaos in heavy-ion dynamics at low energy. Nuclear Physics A, 1992, 545, 467-478.	1.5	10
83	Chaos vs linear instability in the Vlasov equation: A fractal analysis characterization. Physical Review C, 1996, 53, 2556-2559.	2.9	10
84	Microscopic dynamics of a phase transition: equilibrium vs out-of-equilibrium regime. Nuclear Physics A, 2001, 681, 406-413.	1.5	10
85	Comment on â€œErgodicity and central-limit theorem in systems with long-range interactionsâ€•by Figueiredo A. et al.. Europhysics Letters, 2009, 85, 60006.	2.0	8
86	Basic randomness of nature and ether-drift experiments. Chaos, Solitons and Fractals, 2011, 44, 1089-1099.	5.1	8
87	The vacuum as a form of turbulent fluid: Motivations, experiments, implications. Physica A: Statistical Mechanics and Its Applications, 2014, 394, 61-73.	2.6	8
88	Effective spin-glass Hamiltonian for the anomalous dynamics of the HMF model. Physica A: Statistical Mechanics and Its Applications, 2006, 370, 573-584.	2.6	7
89	Glassy Dynamics and Nonextensive Effects in the HMF Model: The Importance of Initial Conditions. Progress of Theoretical Physics Supplement, 2006, 162, 18-28.	0.1	7
90	Inequalities, chance and success in sport competitions: Simulations vs empirical data. Physica A: Statistical Mechanics and Its Applications, 2020, 557, 124899.	2.6	7

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91	Cosmic Background Radiation and â€œether-driftâ€•experiments. Europhysics Letters, 2016, 113, 19001.	2.0	6
92	A New Agent-Based Methodology for the Seismic Vulnerability Assessment of Urban Areas. ISPRS International Journal of Geo-Information, 2019, 8, 274.	2.9	6
93	Quantum statistics in Network Geometry with Fractional Flavor. Journal of Statistical Mechanics: Theory and Experiment, 2019, 2019, 103403.	2.3	6
94	THE ORIGINS OF EXTREME WEALTH INEQUALITY IN THE TALENT VERSUS LUCK MODEL. International Journal of Modeling, Simulation, and Scientific Computing, 2020, 23, 2050004.	1.4	6
95	COMPLEX SYSTEMS: ANALYSIS AND MODELS OF REAL-WORLD NETWORKS. , 2003, , .		5
96	Megaet al.Reply:. Physical Review Letters, 2004, 92, .	7.8	5
97	APPLICATION OF SUPERSTATISTICS TO ATMOSPHERIC TURBULENCE. , 2005, , .		5
98	A Monte Carlo investigation of the Hamiltonian mean field model. Physica A: Statistical Mechanics and Its Applications, 2005, 349, 143-154.	2.6	5
99	Communities recognition in the Chesapeake Bay ecosystem by dynamical clustering algorithms based on different oscillators systems. European Physical Journal B, 2008, 65, 395-402.	1.5	5
100	Numerical Analysis of Honeycomb Labyrinth Seals: Cell Geometry and Fin Tip Thickness Impact on the Discharge Coefficient. , 2015, , .		5
101	A multilayer approach for price dynamics in financial markets. European Physical Journal: Special Topics, 2017, 226, 477-488.	2.6	5
102	Testing Demand Responsive Shared Transport Services via Agent-Based Simulations. AIRO Springer Series, 2018, , 313-320.	0.6	5
103	THE OLAMI-FEDER-CHRISTENSEN MODEL ON A SMALL-WORLD TOPOLOGY. , 2005, , .		5
104	Quantum analog of classical chaos in heavy-ion collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 279, 10-15.	4.1	4
105	Beyond liear response theory in multifragmentation. Nuclear Physics A, 1995, 583, 343-346.	1.5	4
106	Generalized entropy and temperature in nuclear multifragmentation. Physical Review C, 1998, 58, 2238-2248.	2.9	4
107	Non-Poisson distribution of the time distances between two consecutive clusters of earthquakes. Physica A: Statistical Mechanics and Its Applications, 2004, 338, 201-205.	2.6	4
108	Revisiting disorder and Tsallis statistics. Science, 2003, 300, 249-51.	12.6	4

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109	Transition from quasielastic to damped processes in theNi32reaction. Physical Review C, 1989, 39, 2462-2464.	2.9	3
110	Angular momentum transfer and energy loss in the 32S + 60,64Ni peripheral reactions at 160.5 MeV. Nuclear Physics A, 1990, 515, 525-540.	1.5	3
111	Fluctuating excitation functions in heavy-ion collisions as evidence of â€œquantum chaosâ€• Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 284, 205-209.	4.1	3
112	Revealing intermittency in nuclear multifragmentation with 4Ï€ detectors. Physical Review C, 1993, 48, 2520-2523.	2.9	3
113	Detection of invisible and crucial events: from seismic fluctuations to the war against terrorism. Chaos, Solitons and Fractals, 2004, 20, 77-85.	5.1	3
114	Modules identification by a Dynamical Clustering algorithm based on chaotic Rol̀ssler oscillators. AIP Conference Proceedings, 2007, , .	0.4	3
115	Anomalous diffusion and quasistationarity in the HMF model. AIP Conference Proceedings, 2007, , .	0.4	3
116	Modeling surveys effects in political competitions. Physica A: Statistical Mechanics and Its Applications, 2018, 503, 714-726.	2.6	3
117	Nonadditive Entropies and Complex Systems. Entropy, 2019, 21, 538.	2.2	3
118	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
119	METASTABILITY AND ANOMALOUS BEHAVIOR IN THE HMF MODEL: CONNECTIONS TO NONEXTENSIVE THERMODYNAMICS AND GLASSY DYNAMICS. , 2005, , .		3
120	Investigating Fake and Reliable News Sources Using Complex Networks Analysis. Frontiers in Physics, 0, 10, .	2.1	3
121	Transfer energy loss probability distributions in heavy ion collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 241, 308-312.	4.1	2
122	Self-Organized Criticality and earthquakes. AIP Conference Proceedings, 2007, , .	0.4	2
123	Remarks on the Condorcet's paradox. AIP Conference Proceedings, 2007, , .	0.4	2
124	Selective altruism in collective games. Physica A: Statistical Mechanics and Its Applications, 2014, 410, 496-512.	2.6	2
125	Why lot? How sortition could help representative democracy. Physica A: Statistical Mechanics and Its Applications, 2021, 565, 125430.	2.6	2
126	On the role of chance in fencing tournaments: An agent-based approach. PLoS ONE, 2022, 17, e0267541.	2.5	2

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127	Theory of transfer reactions in peripheral heavy-ion collisions. Physical Review C, 1990, 41, 995-998.	2.9	1
128	Numerical and Experimental Analysis of Labyrinth Seals with Rhomboidal Cells. Applied Sciences (Switzerland), 2021, 11, 1371.	2.5	1
129	Perfect Information vs Random Investigation: Safety Guidelines for a Consumer in the Jungle of Product Differentiation. PLoS ONE, 2016, 11, e0146389.	2.5	1
130	A multilayer model of order book dynamics. Journal of Network Theory in Finance, 2016, 2, 37-52.	0.7	1
131	Exploring the Role of Talent and Luck in Getting Success. Acta Physica Polonica B, Proceedings Supplement, 2019, 12, 17.	0.1	1
132	Nonergodicity and central limit behavior for systems with long-range interactions. Proceedings of SPIE, 2007, , .	0.8	1
133	Chaotic scattering in heavy-ion collisions. AIP Conference Proceedings, 1992, , .	0.4	0
134	Transfer reactions below the Coulomb barrier. Nuclear Physics A, 1993, 553, 731-734.	1.5	0
135	Transfer and inelastic channels around the Coulomb barrier. , 1988, , 149-154.		0
136	Deterministic chaos in heavy-ion reactions. , 1995, , 251-262.		0