

Luca Peliti

List of Publications by Year in descending order

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92
papers

5,778
citations

101543

36
h-index

71685

76
g-index

95
all docs

95
docs citations

95
times ranked

2719
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy flow, partial equilibration, and effective temperatures in systems with slow dynamics. Physical Review E, 1997, 55, 3898-3914.	2.1	709
2	Field-theory renormalization and critical dynamics above T_c : Helium, antiferromagnets, and liquid-gas systems. Physical Review B, 1978, 18, 353-376.	3.2	521
3	Effects of Thermal Fluctuations on Systems with Small Surface Tension. Physical Review Letters, 1985, 54, 1690-1693.	7.8	494
4	Asymmetric pumping of particles. Physical Review Letters, 1994, 72, 2652-2655.	7.8	408
5	Direct Evaluation of Large-Deviation Functions. Physical Review Letters, 2006, 96, 120603.	7.8	250
6	Why is the DNA Denaturation Transition First Order?. Physical Review Letters, 2000, 85, 4988-4991.	7.8	235
7	Asymptotic behavior of the "true" self-avoiding walk. Physical Review B, 1983, 27, 1635-1645.	3.2	222
8	Title is missing!. Journal of Physics A, 1986, 19, L429-L432.	1.6	207
9	Renormalisation of fluctuation effects in the A+A to A reaction. Journal of Physics A, 1986, 19, L365-L367.	1.6	184
10	Measuring Equilibrium Properties in Aging Systems. Physical Review Letters, 1998, 81, 1758-1761.	7.8	184
11	Fluctuation-induced long-range forces in liquid crystals. Physical Review Letters, 1991, 66, 1481-1484.	7.8	131
12	Evolution in a flat fitness landscape. Bulletin of Mathematical Biology, 1991, 53, 355-382.	1.9	118
13	Theoretical predictions for critical exponents at the λ -point of bose liquids. Lettere Al Nuovo Cimento Rivista Internazionale Della Societ� Italiana Di Fisica, 1971, 2, 878-880.	0.4	115
14	Work and heat probability distribution of an optically driven Brownian particle: Theory and experiments. Physical Review E, 2007, 76, 050101.	2.1	108
15	Title is missing!. Journal of Statistical Physics, 1999, 97, 459-488.	1.2	98
16	Error threshold in simple landscapes. Journal of Physics A, 1997, 30, 4481-4487.	1.6	79
17	Deviations from Dynamic Scaling in Helium and Antiferromagnets. Physical Review Letters, 1977, 38, 505-508.	7.8	75
18	Crumpling and Buckling Transitions in Polymerized Membranes. Physical Review Letters, 1988, 61, 2949-2952.	7.8	73

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19	Glassy behaviour in disordered systems with nonrelaxational dynamics. <i>Physical Review Letters</i> , 1997, 78, 350-353.	7.8	68
20	Work-probability distribution in systems driven out of equilibrium. <i>Physical Review E</i> , 2005, 72, 046114.	2.1	65
21	Effective-Area Elasticity and Tension of Micromanipulated Membranes. <i>Physical Review Letters</i> , 2001, 86, 4970-4973.	7.8	64
22	Renormalisation of the 'true' self-avoiding walk. <i>Journal of Physics A</i> , 1983, 16, L147-L151.	1.6	59
23	Calculation of critical indices. <i>Lettere Al Nuovo Cimento Rivista Internazionale Della Societ� Italiana Di Fisica</i> , 1971, 2, 627-628.	0.4	58
24	Aging in lattice-gas models with constrained dynamics. <i>Europhysics Letters</i> , 1997, 39, 365-370.	2.0	57
25	Opinion dynamics in a three-choice system. <i>European Physical Journal B</i> , 2005, 45, 569-575.	1.5	57
26	Fluctuation relations for a driven Brownian particle. <i>Physical Review E</i> , 2006, 74, 026106.	2.1	56
27	The Rate of Beneficial Mutations Surfing on the Wave of a Range Expansion. <i>PLoS Computational Biology</i> , 2012, 8, e1002447.	3.2	55
28	Random walks with memory. <i>Rivista Del Nuovo Cimento</i> , 1987, 10, 1-33.	5.7	49
29	Efficiency of molecular machines with continuous phase space. <i>Europhysics Letters</i> , 2012, 97, 60005.	2.0	44
30	Work distribution and path integrals in general mean-field systems. <i>Europhysics Letters</i> , 2005, 70, 740-746.	2.0	43
31	Evolution in a flat fitness landscape. <i>Bulletin of Mathematical Biology</i> , 1991, 53, 355-382.	1.9	42
32	Strong adsorption in critical binary mixtures. <i>Journal of Physics C: Solid State Physics</i> , 1983, 16, 2635-2640.	1.5	41
33	Geographic speciation in the Derrida-Higgs model of species formation. <i>Journal of Physics A</i> , 1994, 27, 7079-7086.	1.6	39
34	Quasispecies evolution in general mean-field landscapes. <i>Europhysics Letters</i> , 2002, 57, 745-751.	2.0	38
35	Entropy production in quantum Brownian motion. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2013, 2013, P04005.	2.3	37
36	On dangerous irrelevant operators. <i>Annals of Physics</i> , 1982, 140, 207-231.	2.8	36

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37	A minimal stochastic model for influenza evolution. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2005, 2005, P07008-P07008.	2.3	36
38	On the workâ€“Hamiltonian connection in manipulated systems. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2008, 2008, P05002.	2.3	36
39	Detachment of molecular motors under tangential loading. <i>Europhysics Letters</i> , 2001, 56, 603-609.	2.0	34
40	An evolutionary version of the random energy model. <i>Journal of Physics A</i> , 1993, 26, L1195-L1199.	1.6	33
41	Intermittency as multifractality in history space. <i>Journal of Physics A</i> , 1986, 19, L991-L996.	1.6	32
42	Work probability distribution in single-molecule experiments. <i>Europhysics Letters</i> , 2005, 69, 643-649.	2.0	32
43	Thermodynamics of accuracy in kinetic proofreading: dissipation and efficiency trade-offs. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2015, 2015, P06001.	2.3	32
44	Magnetisation profile in the presence of a surface magnetic field. <i>Journal of Physics C: Solid State Physics</i> , 1982, 15, L403-L407.	1.5	29
45	A statistical model of an evolving population with sexual reproduction. <i>Journal of Physics A</i> , 1991, 24, L705-L709.	1.6	28
46	Cross-over behavior of the nonlinear ϕ^4 -model with quadratically broken symmetry. <i>Annals of Physics</i> , 1978, 116, 1-34.	2.8	26
47	Critical dynamics near dimension two for time-dependent Ginzburg-Landau models. <i>Physical Review B</i> , 1977, 15, 4313-4317.	3.2	24
48	Comment on â€œFailure of the Work-Hamiltonian Connection for Free-Energy Calculationsâ€“. <i>Physical Review Letters</i> , 2008, 101, 098903; author reply 098904.	7.8	24
49	The distribution function of entropy flow in stochastic systems. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2007, 2007, L02001-L02001.	2.3	23
50	A simple system with two temperatures. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1999, 261, 94-97.	2.1	21
51	Selection Dynamics in Transient Compartmentalization. <i>Physical Review Letters</i> , 2018, 120, 158101.	7.8	21
52	Denaturation and unzipping of DNA: statistical mechanics of interacting loops. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 306, 39-50.	2.6	16
53	Effective field approach to the Ising film in a transverse field. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999, 262, 505-517.	2.6	15
54	Heat Release by Controlled Continuous-Time Markov Jump Processes. <i>Journal of Statistical Physics</i> , 2013, 150, 181-203.	1.2	15

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55	Possible observation of surface and special transitions in mixtures. <i>Physical Review B</i> , 1984, 29, 1253-1257.	3.2	14
56	Membrane stress tensor in the presence of lipid density and composition inhomogeneities. <i>European Physical Journal E</i> , 2011, 34, 53.	1.6	14
57	Flory Approach to the Enhancement Factor in Polymer Statistics. <i>Physical Review Letters</i> , 1985, 55, 1479-1481.	7.8	13
58	Evaluation of free energy landscapes from manipulation experiments. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2006, 2006, P03005-P03005.	2.3	13
59	Renormalisation of the long-range 'true' self-avoiding walk. <i>Journal of Physics A</i> , 1985, 18, L709-L712.	1.6	10
60	Dynamics of particles and manifolds in random force fields. <i>Europhysics Letters</i> , 1997, 39, 111-116.	2.0	9
61	Work and heat probability distributions in out-of-equilibrium systems. <i>Comptes Rendus Physique</i> , 2007, 8, 556-566.	0.9	9
62	The generality of transient compartmentalization and its associated error thresholds. <i>Journal of Theoretical Biology</i> , 2020, 487, 110110.	1.7	9
63	Critical indices for the spherical model from conformal covariant self consistency conditions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1972, 41, 331-332.	2.1	8
64	Harmonic properties of hard-sphere crystals: a one-dimensional study. <i>Journal of Physics A</i> , 1993, 26, 4819-4825.	1.6	8
65	Amorphization and anisotropy effects on a ferromagnetic bilayer system. <i>Physica B: Condensed Matter</i> , 1999, 269, 34-42.	2.7	8
66	Migdal-Kadanoff approach to superfluid film formation near a wall in ^3He - ^4He mixtures. <i>Journal of Physics A</i> , 1985, 18, L543-L547.	1.6	7
67	Modeling microevolution in a changing environment: the evolving quasispecies and the diluted champion process. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2011, 2011, P08022.	2.3	7
68	Population size effects in evolutionary dynamics on neutral networks and toy landscapes. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2007, 2007, P05011-P05011.	2.3	6
69	Survival of Self-Replicating Molecules under Transient Compartmentalization with Natural Selection. <i>Life</i> , 2019, 9, 78.	2.4	6
70	Universal and nonuniversal properties of a lattice gas model with kinetic constraints. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2000, 269, 154-157.	2.1	5
71	Evolutionary games and quasispecies. <i>Europhysics Letters</i> , 2003, 62, 446-451.	2.0	5
72	Work distribution in manipulated single biomolecules. <i>Physical Biology</i> , 2009, 6, 025011.	1.8	5

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73	Comment on "Theory for the bending anisotropy of lipid membranes and tubule formation", Physical Review E, 2000, 63, 013901.	2.1	4
74	Studies in Composing Hydrogen Atom Wavefunctions. Leonardo, 2015, 48, 158-166.	0.3	4
75	A spin-glass model of chemical evolution. Physica A: Statistical Mechanics and Its Applications, 1990, 168, 619-625.	2.6	3
76	Paired defects of nematic surfactant bilayers. Physical Review E, 1998, 58, R6919-R6922.	2.1	3
77	Einstein's Approach to Statistical Mechanics: The 1902-04 Papers. Journal of Statistical Physics, 2017, 167, 1020-1038.	1.2	3
78	Fractal dimensions and $1/f$ noise. Lettere Al Nuovo Cimento Rivista Internazionale Della Societ� Italiana Di Fisica, 1983, 36, 471-474.	0.4	2
79	On the possible non-universality of critical behaviour in micellar solutions. Journal of Physics A, 1987, 20, 1289-1292.	1.6	1
80	A COMPARTMENTAL MODEL OF ENDOSYMBIOSIS. Journal of Biological Systems, 1995, 03, 867-888.	1.4	1
81	Comment on "Evolutionary dynamics of RNA-like replicator systems: A bioinformatic approach to the origin of life" by Nobuto Takeuchi and Paulien Hogeweg. Physics of Life Reviews, 2012, 9, 268-269.	2.8	1
82	PROBABLY/POSSIBLY?, 2017, , .		1
83	JSP Special Issue on Statistical Theory of Biological Evolution. Journal of Statistical Physics, 2018, 172, 1-2.	1.2	1
84	Learning and Organization of Memory for Evolving Patterns. Physical Review X, 2022, 12, .	8.9	1
85	Feasibility of model ecosystems. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1986, 7, 98-104.	0.4	0
86	Ajdari, Prost, and Peliti reply. Physical Review Letters, 1992, 69, 861-861.	7.8	0
87	Towards a statistical mechanics of biological evolution?. Physics World, 1994, 7, 24-25.	0.0	0
88	On the equipartition of kinetic energy in an ideal gas mixture. European Journal of Physics, 2007, 28, 249-254.	0.6	0
89	JSP Special Issue on Information Processing in Living Systems. Journal of Statistical Physics, 2016, 162, 1085-1087.	1.2	0
90	A review of: Massimo Cencini, Andrea Puglisi, Davide Vergni, Angelo Vulpiani: A Random Walk in Physics: Beyond Black Holes and Time-Travels. Journal of Statistical Physics, 2021, 185, 1.	1.2	0

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91	Polymers in a Random Environment and Molecular Quasi-Species. NATO ASI Series Series B: Physics, 1994, , 129-132.	0.2	0
92	Elementary derivation of the expressions of momentum and energy in special relativity. Revista Brasileira De Ensino De Fisica, 2016, 38, .	0.2	0