

Luca Peliti

List of Publications by Year in descending order

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92
papers

5,778
citations

116194

36
h-index

81351

76
g-index

95
all docs

95
docs citations

95
times ranked

3108
citing authors

#	ARTICLE	IF	CITATIONS
1	Learning and Organization of Memory for Evolving Patterns. <i>Physical Review X</i> , 2022, 12, .	2.8	1
2	A review of: Massimo Cencini, Andrea Puglisi, Davide Vergni, Angelo Vulpiani: A Random Walk in Physics: Beyond Black Holes and Time-Travels. <i>Journal of Statistical Physics</i> , 2021, 185, 1.	0.5	0
3	The generality of transient compartmentalization and its associated error thresholds. <i>Journal of Theoretical Biology</i> , 2020, 487, 110110.	0.8	9
4	Survival of Self-Replicating Molecules under Transient Compartmentalization with Natural Selection. <i>Life</i> , 2019, 9, 78.	1.1	6
5	Selection Dynamics in Transient Compartmentalization. <i>Physical Review Letters</i> , 2018, 120, 158101.	2.9	21
6	JSP Special Issue on Statistical Theory of Biological Evolution. <i>Journal of Statistical Physics</i> , 2018, 172, 1-2.	0.5	1
7	Einstein's Approach to Statistical Mechanics: The 1902-04 Papers. <i>Journal of Statistical Physics</i> , 2017, 167, 1020-1038.	0.5	3
8	PROBABLY/POSSIBLY?, 2017, , .		1
9	JSP Special Issue on Information Processing in Living Systems. <i>Journal of Statistical Physics</i> , 2016, 162, 1085-1087.	0.5	0
10	Elementary derivation of the expressions of momentum and energy in special relativity. <i>Revista Brasileira De Ensino De Fisica</i> , 2016, 38, .	0.2	0
11	Thermodynamics of accuracy in kinetic proofreading: dissipation and efficiency trade-offs. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2015, 2015, P06001.	0.9	32
12	Studies in Composing Hydrogen Atom Wavefunctions. <i>Leonardo</i> , 2015, 48, 158-166.	0.2	4
13	Heat Release by Controlled Continuous-Time Markov Jump Processes. <i>Journal of Statistical Physics</i> , 2013, 150, 181-203.	0.5	15
14	Entropy production in quantum Brownian motion. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2013, 2013, P04005.	0.9	37
15	The Rate of Beneficial Mutations Surfing on the Wave of a Range Expansion. <i>PLoS Computational Biology</i> , 2012, 8, e1002447.	1.5	55
16	Efficiency of molecular machines with continuous phase space. <i>Europhysics Letters</i> , 2012, 97, 60005.	0.7	44
17	Comment on "Evolutionary dynamics of RNA-like replicator systems: A bioinformatic approach to the origin of life" by Nobuto Takeuchi and Paulien Hogeweg. <i>Physics of Life Reviews</i> , 2012, 9, 268-269.	1.5	1
18	Membrane stress tensor in the presence of lipid density and composition inhomogeneities. <i>European Physical Journal E</i> , 2011, 34, 53.	0.7	14

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19	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.	0.9	7
20	Work distribution in manipulated single biomolecules. <i>Physical Biology</i> , 2009, 6, 025011.	0.8	5
21	Comment on "Failure of the Work-Hamiltonian Connection for Free-Energy Calculations"; <i>Physical Review Letters</i> , 2008, 101, 098903; author reply 098904.	2.9	24
22	On the work-Hamiltonian connection in manipulated systems. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2008, 2008, P05002.	0.9	36
23	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.	0.9	6
24	Work and heat probability distribution of an optically driven Brownian particle: Theory and experiments. <i>Physical Review E</i> , 2007, 76, 050101.	0.8	108
25	The distribution function of entropy flow in stochastic systems. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2007, 2007, L02001-L02001.	0.9	23
26	On the equipartition of kinetic energy in an ideal gas mixture. <i>European Journal of Physics</i> , 2007, 28, 249-254.	0.3	0
27	Work and heat probability distributions in out-of-equilibrium systems. <i>Comptes Rendus Physique</i> , 2007, 8, 556-566.	0.3	9
28	Evaluation of free energy landscapes from manipulation experiments. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2006, 2006, P03005-P03005.	0.9	13
29	Direct Evaluation of Large-Deviation Functions. <i>Physical Review Letters</i> , 2006, 96, 120603.	2.9	250
30	Fluctuation relations for a driven Brownian particle. <i>Physical Review E</i> , 2006, 74, 026106.	0.8	56
31	Opinion dynamics in a three-choice system. <i>European Physical Journal B</i> , 2005, 45, 569-575.	0.6	57
32	Work distribution and path integrals in general mean-field systems. <i>Europhysics Letters</i> , 2005, 70, 740-746.	0.7	43
33	A minimal stochastic model for influenza evolution. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2005, 2005, P07008-P07008.	0.9	36
34	Work probability distribution in single-molecule experiments. <i>Europhysics Letters</i> , 2005, 69, 643-649.	0.7	32
35	Work-probability distribution in systems driven out of equilibrium. <i>Physical Review E</i> , 2005, 72, 046114.	0.8	65
36	Evolutionary games and quasispecies. <i>Europhysics Letters</i> , 2003, 62, 446-451.	0.7	5

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37	Quasispecies evolution in general mean-field landscapes. Europhysics Letters, 2002, 57, 745-751.	0.7	38
38	Denaturation and unzipping of DNA: statistical mechanics of interacting loops. Physica A: Statistical Mechanics and Its Applications, 2002, 306, 39-50.	1.2	16
39	Detachment of molecular motors under tangential loading. Europhysics Letters, 2001, 56, 603-609.	0.7	34
40	Effective-Area Elasticity and Tension of Micromanipulated Membranes. Physical Review Letters, 2001, 86, 4970-4973.	2.9	64
41	Universal and nonuniversal properties of a lattice gas model with kinetic constraints. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 269, 154-157.	0.9	5
42	Comment on "Theory for the bending anisotropy of lipid membranes and tubule formation". Physical Review E, 2000, 63, 013901.	0.8	4
43	Why is the DNA Denaturation Transition First Order?. Physical Review Letters, 2000, 85, 4988-4991.	2.9	235
44	Amorphization and anisotropy effects on a ferromagnetic bilayer system. Physica B: Condensed Matter, 1999, 269, 34-42.	1.3	8
45	A simple system with two temperatures. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 261, 94-97.	0.9	21
46	Effective field approach to the Ising film in a transverse field. Physica A: Statistical Mechanics and Its Applications, 1999, 262, 505-517.	1.2	15
47	Title is missing!. Journal of Statistical Physics, 1999, 97, 459-488.	0.5	98
48	Measuring Equilibrium Properties in Aging Systems. Physical Review Letters, 1998, 81, 1758-1761.	2.9	184
49	Paired defects of nematic surfactant bilayers. Physical Review E, 1998, 58, R6919-R6922.	0.8	3
50	Dynamics of particles and manifolds in random force fields. Europhysics Letters, 1997, 39, 111-116.	0.7	9
51	Aging in lattice-gas models with constrained dynamics. Europhysics Letters, 1997, 39, 365-370.	0.7	57
52	Error threshold in simple landscapes. Journal of Physics A, 1997, 30, 4481-4487.	1.6	79
53	Classy behaviour in disordered systems with nonrelaxational dynamics. Physical Review Letters, 1997, 78, 350-353.	2.9	68
54	Energy flow, partial equilibration, and effective temperatures in systems with slow dynamics. Physical Review E, 1997, 55, 3898-3914.	0.8	709

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55	A COMPARTMENTAL MODEL OF ENDOSYMBIOSIS. Journal of Biological Systems, 1995, 03, 867-888.	0.5	1
56	Geographic speciation in the Derrida-Higgs model of species formation. Journal of Physics A, 1994, 27, 7079-7086.	1.6	39
57	Asymmetric pumping of particles. Physical Review Letters, 1994, 72, 2652-2655.	2.9	408
58	Towards a statistical mechanics of biological evolution?. Physics World, 1994, 7, 24-25.	0.0	0
59	Polymers in a Random Environment and Molecular Quasi-Species. NATO ASI Series Series B: Physics, 1994, , 129-132.	0.2	0
60	An evolutionary version of the random energy model. Journal of Physics A, 1993, 26, L1195-L1199.	1.6	33
61	Harmonic properties of hard-sphere crystals: a one-dimensional study. Journal of Physics A, 1993, 26, 4819-4825.	1.6	8
62	Ajdari, Prost, and Peliti reply. Physical Review Letters, 1992, 69, 861-861.	2.9	0
63	Evolution in a flat fitness landscape. Bulletin of Mathematical Biology, 1991, 53, 355-382.	0.9	118
64	Evolution in a flat fitness landscape. Bulletin of Mathematical Biology, 1991, 53, 355-382.	0.9	42
65	A statistical model of an evolving population with sexual reproduction. Journal of Physics A, 1991, 24, L705-L709.	1.6	28
66	Fluctuation-induced long-range forces in liquid crystals. Physical Review Letters, 1991, 66, 1481-1484.	2.9	131
67	A spin-glass model of chemical evolution. Physica A: Statistical Mechanics and Its Applications, 1990, 168, 619-625.	1.2	3
68	Crumpling and Buckling Transitions in Polymerized Membranes. Physical Review Letters, 1988, 61, 2949-2952.	2.9	73
69	On the possible non-universality of critical behaviour in micellar solutions. Journal of Physics A, 1987, 20, 1289-1292.	1.6	1
70	Random walks with memory. Rivista Del Nuovo Cimento, 1987, 10, 1-33.	2.0	49
71	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
72	Renormalisation of fluctuation effects in the A+A to A reaction. Journal of Physics A, 1986, 19, L365-L367.	1.6	184

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73	Intermittency as multifractality in history space. Journal of Physics A, 1986, 19, L991-L996.	1.6	32
74	Title is missing!. Journal of Physics A, 1986, 19, L429-L432.	1.6	207
75	Renormalisation of the long-range 'true' self-avoiding walk. Journal of Physics A, 1985, 18, L709-L712.	1.6	10
76	Migdal-Kadanoff approach to superfluid film formation near a wall in ^3He - ^4He mixtures. Journal of Physics A, 1985, 18, L543-L547.	1.6	7
77	Flory Approach to the Enhancement Factor in Polymer Statistics. Physical Review Letters, 1985, 55, 1479-1481.	2.9	13
78	Effects of Thermal Fluctuations on Systems with Small Surface Tension. Physical Review Letters, 1985, 54, 1690-1693.	2.9	494
79	Possible observation of surface and special transitions in mixtures. Physical Review B, 1984, 29, 1253-1257.	1.1	14
80	Fractal dimensions and $1/f$ noise. Lettere Al Nuovo Cimento Rivista Internazionale Della Societ� Italiana Di Fisica, 1983, 36, 471-474.	0.4	2
81	Asymptotic behavior of the "true" self-avoiding walk. Physical Review B, 1983, 27, 1635-1645.	1.1	222
82	Strong adsorption in critical binary mixtures. Journal of Physics C: Solid State Physics, 1983, 16, 2635-2640.	1.5	41
83	Renormalisation of the 'true' self-avoiding walk. Journal of Physics A, 1983, 16, L147-L151.	1.6	59
84	Magnetisation profile in the presence of a surface magnetic field. Journal of Physics C: Solid State Physics, 1982, 15, L403-L407.	1.5	29
85	On dangerous irrelevant operators. Annals of Physics, 1982, 140, 207-231.	1.0	36
86	Field-theory renormalization and critical dynamics above T_c : Helium, antiferromagnets, and liquid-gas systems. Physical Review B, 1978, 18, 353-376.	1.1	521
87	Cross-over behavior of the nonlinear \bar{f} -model with quadratically broken symmetry. Annals of Physics, 1978, 116, 1-34.	1.0	26
88	Critical dynamics near dimension two for time-dependent Ginzburg-Landau models. Physical Review B, 1977, 15, 4313-4317.	1.1	24
89	Deviations from Dynamic Scaling in Helium and Antiferromagnets. Physical Review Letters, 1977, 38, 505-508.	2.9	75
90	Critical indices for the spherical model from conformal covariant self consistency conditions. Physics Letters, Section A: General, Atomic and Solid State Physics, 1972, 41, 331-332.	0.9	8

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91	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
92	Calculation of critical indices. Lettere Al Nuovo Cimento Rivista Internazionale Della Societ� Italiana Di Fisica, 1971, 2, 627-628.	0.4	58