

Jean-Marc Luck

List of Publications by Year in descending order

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52
papers

2,540
citations

279798

23
h-index

197818

49
g-index

52
all docs

52
docs citations

52
times ranked

1335
citing authors

#	ARTICLE	IF	CITATIONS
1	The electrical conductivity of binary disordered systems, percolation clusters, fractals and related models. <i>Advances in Physics</i> , 1990, 39, 191-309.	14.4	653
2	Frequency Dependence of Viscoelastic Properties of Branched Polymers near Gelation Threshold. <i>Europhysics Letters</i> , 1987, 3, 297-301.	2.0	201
3	Phonon spectra in one-dimensional quasicrystals. <i>Journal of Statistical Physics</i> , 1986, 42, 289-310.	1.2	156
4	A Classification of Critical Phenomena on Quasi-Crystals and Other Aperiodic Structures. <i>Europhysics Letters</i> , 1993, 24, 359-364.	2.0	133
5	Nonequilibrium critical dynamics of ferromagnetic spin systems. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 1589-1599.	1.8	120
6	Critical behavior of the aperiodic quantum Ising chain in a transverse magnetic field. <i>Journal of Statistical Physics</i> , 1993, 72, 417-458.	1.2	105
7	Full angular profile of the coherent polarization opposition effect. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2000, 17, 888.	1.5	103
8	Oscillatory critical amplitudes in hierarchical models. <i>Communications in Mathematical Physics</i> , 1984, 94, 115-132.	2.2	99
9	Aging, Phase Ordering, and Conformal Invariance. <i>Physical Review Letters</i> , 2001, 87, 265701.	7.8	92
10	Scaling properties of a structure intermediate between quasiperiodic and random. <i>Journal of Statistical Physics</i> , 1988, 51, 1033-1075.	1.2	78
11	Corrections to finite-size-scaling laws and convergence of transfer-matrix methods. <i>Physical Review B</i> , 1985, 31, 3069-3083.	3.2	72
12	Magnetic phase structure on the Penrose lattice. <i>Journal of Statistical Physics</i> , 1986, 45, 777-800.	1.2	63
13	On the response of a two-level quantum system to a class of time-dependent quasiperiodic perturbations. <i>Journal of Statistical Physics</i> , 1988, 53, 551-564.	1.2	61
14	Quasiperiodicity and randomness in tilings of the plane. <i>Journal of Statistical Physics</i> , 1989, 55, 1-28.	1.2	55
15	Diffusion on a random lattice: Weak-disorder expansion in arbitrary dimension. <i>Physical Review B</i> , 1983, 28, 7183-7190.	3.2	52
16	A Structure Intermediate Between Quasi-Periodic and Random. <i>Europhysics Letters</i> , 1987, 4, 639-643.	2.0	50
17	Heterogeneities in granular materials. <i>Physics Today</i> , 2009, 62, 40-45.	0.3	50
18	A Soluble Quasi-Crystalline Magnetic Model: The XY Quantum Spin Chain. <i>Europhysics Letters</i> , 1986, 2, 257-266.	2.0	45

#	ARTICLE	IF	CITATIONS
19	Nonequilibrium dynamics of urn models. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 1601-1615.	1.8	44
20	Survival of Classical and Quantum Particles in the Presence of Traps. <i>Journal of Statistical Physics</i> , 2014, 154, 1430-1460.	1.2	38
21	Singular behavior of the density of states and the Lyapunov coefficient in binary random harmonic chains. <i>Journal of Statistical Physics</i> , 1985, 41, 745-771.	1.2	27
22	The Lyapunov Exponent of Products of Random $2\tilde{A}-2$ Matrices Close to the Identity. <i>Journal of Statistical Physics</i> , 2013, 150, 13-65.	1.2	26
23	Lifshitz tails and long-time decay in random systems with arbitrary disorder. <i>Journal of Statistical Physics</i> , 1988, 52, 1-22.	1.2	24
24	Fluctuation effects in metapopulation models: Percolation and pandemic threshold. <i>Journal of Theoretical Biology</i> , 2010, 267, 554-564.	1.7	20
25	Singularities in Spectra of Disordered Systems: An Instanton Approach for Arbitrary Dimension and Randomness. <i>Europhysics Letters</i> , 1989, 9, 407-413.	2.0	16
26	Characterising the nonequilibrium stationary states of Ornstein-Uhlenbeck processes. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2019, 52, 035002.	2.1	16
27	Fractal atomic surfaces of self-similar quasiperiodic tilings of the plane. <i>Journal De Physique</i> , I, 1993, 3, 1921-1939.	1.2	15
28	Lifshitz singularities in random harmonic chains: Periodic amplitudes near the band edge and near special frequencies. <i>Journal of Statistical Physics</i> , 1987, 48, 393-424.	1.2	11
29	Inverse participation ratios in the XXZ spin chain. <i>Physical Review B</i> , 2016, 94, .	3.2	11
30	Dynamical diversity and metastability in a hindered granular column near jamming. <i>European Physical Journal B</i> , 2007, 57, 429-451.	1.5	10
31	An investigation of equilibration in small quantum systems: the example of a particle in a 1D random potential. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2016, 49, 115303.	2.1	10
32	Special frequencies and Lifshitz singularities in binary random harmonic chains. <i>Journal of Statistical Physics</i> , 1986, 45, 395-417.	1.2	9
33	Lifshitz singularities in the total and the wavenumber-dependent spectral density of random harmonic chains. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1987, 145, 161-189.	2.6	9
34	Dielectric behaviour of composite media. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1989, 157, 204-209.	2.6	7
35	GLASSY STATES IN A SHAKEN SANDBOX. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2001, 04, 429-439.	1.4	7
36	Magnetization of two coupled rings. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009, 42, 175301.	2.1	6

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37	Finite-Time Fluctuations in the Degree Statistics of Growing Networks. Journal of Statistical Physics, 2009, 137, 1117-1146.	1.2	6
38	The effects of grain shape and frustration in a granular column near jamming. European Physical Journal B, 2010, 77, 505-521.	1.5	6
39	Scaling laws for weakly disordered 1D flat bands. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 205301.	2.1	5
40	Spectral Properties of Zero Temperature Dynamics in a Model of a Compacting Granular Column. Journal of Statistical Physics, 2012, 146, 924-954.	1.2	4
41	On the coexistence of competing languages. European Physical Journal B, 2020, 93, 1.	1.5	4
42	On sequences of records generated by planar random walks. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 325003.	2.1	4
43	Competition and cooperation: aspects of dynamics in sandpiles. Journal of Physics Condensed Matter, 2005, 17, S2657-S2687.	1.8	3
44	Quantum centipedes: collective dynamics of interacting quantum walkers. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 335303.	2.1	3
45	Record Statistics of Integrated Random Walks and the Random Acceleration Process. Journal of Statistical Physics, 2022, 186, 1.	1.2	3
46	Equilibration properties of small quantum systems: further examples. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 355301.	2.1	2
47	Parrondo games as disordered systems. European Physical Journal B, 2019, 92, 1.	1.5	2
48	Synaptic Metaplasticity Underlies Tetanic Potentiation in Lymnaea: A Novel Paradigm. PLoS ONE, 2013, 8, e78056.	2.5	2
49	Glassy States in a Shaken Sandbox. , 2003, , 141-151.		1
50	An investigation of PT -symmetry breaking in tight-binding chains. Journal of Statistical Mechanics: Theory and Experiment, 2022, 2022, 013302.	2.3	1
51	Generic phase coexistence in the totally asymmetric kinetic Ising model. Journal of Statistical Mechanics: Theory and Experiment, 2017, 2017, 073208.	2.3	0
52	HEARINGS AND MISHEARINGS: DECRYPTING THE SPOKEN WORD. International Journal of Modeling, Simulation, and Scientific Computing, 2020, 23, 2050008.	1.4	0