Pedro L Garrido

List of Publications by Year
in descending order

83 papers	1,852 citations	318942 23 h-index	312153 41 g-index
88 all docs	88 docs citations	88 times ranked	832 citing authors

#	Article	IF	Citations
1	Simulations of Transport in Hard Particle Systems. Journal of Statistical Physics, 2020, 180, 474-533.	0.5	3
2	Quantum systems in and out of equilibrium. European Physical Journal: Special Topics, 2018, 227, 201-202.	1.2	0
3	Diffusion equations from kinetic models with non-conserved momentum. Nonlinearity, 2018, 31, 5441-5462.	0.6	3
4	A violation of universality in anomalous Fourierâ€™s law. Scientific Reports, 2016, 6, 38823.	1.6	31
5	Scaling laws and bulk-boundary decoupling in heat flow. Physical Review E, 2015, 91, 032116.	0.8	5
6	Thermodynamics of Currents in Nonequilibrium Diffusive Systems: Theory and Simulation. Journal of Statistical Physics, 2014, 154, 214-264.	0.5	73
7	Rigid motions: Action-angles, relative cohomology and polynomials with roots on the unit circle. Journal of Mathematical Physics, 2013, 54, 032901.	0.5	4
8	Dynamical phase transition for current statistics in a simple driven diffusive system. Physical Review E, 2013, 87, .	0.8	71
9	Large deviations of the current in a two-dimensional diffusive system. , 2011, , .		6
10	Paradoxical reflection in quantum mechanics. American Journal of Physics, 2011, 79, 1218-1231.	0.3	18
11	Universality in equilibrium and away from it: A personal perspective. , 2011, , .		1
12	Spontaneous Symmetry Breaking at the Fluctuating Level. Physical Review Letters, 2011, 107, 180601.	2.9	98
13	Symmetries in fluctuations far from equilibrium. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7704-7709.	3.3	82
14	Large fluctuations of the macroscopic current in diffusive systems: A numerical test of the additivity principle. Physical Review E, 2010, 81, 041102.	0.8	38
15	Pendulum, elliptic functions, and relative cohomology classes. Journal of Mathematical Physics, 2010, 51, 032901.	0.5	5
16	Boundary-induced heterogeneous absorbing states. , 2009, , .		2
17	Test of the Additivity Principle for Current Fluctuations in a Model of Heat Conduction. Physical Review Letters, 2009, 102, 250601.	2.9	68
18	Simulation of large deviation functions using population dynamics. , 2009, , .		21

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19	Current fluctuations and statistics during a large deviation event in an exactly solvable transport model. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P02032.	0.9	48
20	Demagnetization via Nucleation of the Nonequilibrium Metastable Phase in a Model of Disorder. Journal of Statistical Physics, 2008, 133, 29-58.	0.5	7
21	On the similarities and differences between lattice and offâ€“lattice models of driven fluids. European Physical Journal: Special Topics, 2007, 143, 269-272.	1.2	1
22	Boundary Dissipation in a Driven Hard Disk System. Journal of Statistical Physics, 2007, 126, 1201-1207.	0.5	12
23	Lattice Versus Lennard-Jones Models with a Net Particle Flow. , 2007, , 53-62.		1
24	Stochastic resonance and scale invariance in nonequilibrium metastable states. European Physical Journal B, 2006, 49, 103-108.	0.6	0
25	Understanding scale invariance in a minimal model of complex relaxation phenomena. Journal of Statistical Mechanics: Theory and Experiment, 2006, 2006, P02004-P02004.	0.9	2
26	Nonequilibrium anisotropic phases, nucleation, and critical behavior in a driven Lennard-Jones fluid. Physical Review B, 2006, 73, .	1.1	3
27	Metastability, nucleation, and noise-enhanced stabilization out of equilibrium. Physical Review E, 2006, 74, 050101.	0.8	33
28	Effects of static and dynamic disorder on the performance of neural automata. Biophysical Chemistry, 2005, 115, 285-288.	1.5	7
29	Lennard-Jones and lattice models of driven fluids. Physical Review E, 2005, 72, 026103.	0.8	7
30	Reentrant behavior of the spinodal curve in a nonequilibrium ferromagnet. Physical Review E, 2004, 70, 021101.	0.8	8
31	Analysis of the interface in a nonequilibrium two-temperature Ising model. Physical Review B, 2004, 70, .	1.1	9
32	Switching between memories in neural automata with synaptic noise. Neurocomputing, 2004, 58-60, 67-71.	3.5	14
33	Influence of topology on the performance of a neural network. Neurocomputing, 2004, 58-60, 229-234.	3.5	67
34	Boltzmann Entropy for Dense Fluids Not in Local Equilibrium. Physical Review Letters, 2004, 92, 050602.	2.9	32
35	Kinetics of phase separation in the driven lattice gas:â€ƒSelf-similar pattern growth under anisotropic nonequilibrium conditions. Physical Review B, 2003, 67, .	1.1	13
36	Garrido and Hurtado Reply:. Physical Review Letters, 2002, 88, .	2.9	18

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37	Simple One-Dimensional Model of Heat Conduction which Obeys Fourierâ€™s Law. Physical Review Letters, 2001, 86, 5486-5489.	2.9	111
38	Entropic contributions in Langevin equations for anisotropic driven systems. Physica A: Statistical Mechanics and Its Applications, 2001, 296, 364-374.	1.2	11
39	Is the Particle Current a Relevant Feature in Driven Lattice Gases?. Physical Review Letters, 2001, 87, 195702.	2.9	29
40	Critical properties of nonequilibrium anisotropic lattice gases. Physica A: Statistical Mechanics and Its Applications, 2000, 279, 143-150.	1.2	1
41	Bulk dynamics for interfacial growth models. Physical Review E, 2000, 62, 4747-4751.	0.8	3
42	Universality classes of driven lattice gases. Physical Review E, 2000, 61, R4683-R4686.	0.8	24
43	On the effect of synaptic fluctuations during retrieval processes in neural network models. Computer Physics Communications, 1999, 121-122, 98-102.	3.0	0
44	Driven lattice gases: new perspectives. Computer Physics Communications, 1999, 121-122, 321-323.	3.0	0
45	Neural Networks in Which Synaptic Patterns Fluctuate with Time. Journal of Statistical Physics, 1999, 94, 837-858.	0.5	6
46	Continuum Field Model of Driven Lattice Gases. Journal of Statistical Physics, 1999, 96, 303-324.	0.5	10
47	Nonequilibrium neural network with competing dynamics. Physica A: Statistical Mechanics and Its Applications, 1998, 253, 57-65.	1.2	1
48	Modeling ionic diffusion in magnetic systems. Physical Review B, 1998, 58, 11488-11492.	1.1	14
49	Langevin equation for driven diffusive systems. Physical Review E, 1998, 57, 752-755.	0.8	24
50	Mesoscopic description of the annealed Ising model, and multiplicative noise. Physical Review E, 1998, 58, 6828-6831.	0.8	14
51	Effect of Correlated Fluctuations of Synapses in the Performance of Neural Networks. Physical Review Letters, 1998, 81, 2827-2830.	2.9	10
52	Neural networks with fast time-variation of synapses. Journal of Physics A, 1997, 30, 7801-7816.	1.6	19
53	Kolmogorovâ€“Sinai Entropy, Lyapunov Exponents, and Mean Free Time in Billiard Systems. Journal of Statistical Physics, 1997, 88, 807-824.	0.5	17
54	Chaotic principle: An experimental test. Physica D: Nonlinear Phenomena, 1997, 105, 226-252.	1.3	88

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55	Phase transitions in driven lattice gases. Physical Review E, 1996, 53, 6038-6047.	0.8	22
56	Continuum Description for Nonequilibrium Competing Dynamic Models. Physical Review Letters, 1995, 75, 1875-1878.	2.9	6
57	Non-equilibrium layered lattice gases. Journal of Physics A, 1995, 28, 4669-4678.	1.6	4
58	A test for two Fokker-Planck modellings of a master equation. Journal of Physics A, 1995, 28, 2637-2646.	1.6	2
59	Relaxation to Equilibrium in Non-Conservative Lattice Systems. Europhysics Letters, 1994, 26, 407-412.	0.7	0
60	Monte Carlo study of a kinetic lattice model with random diffusion of disorder. Physical Review E, 1994, 49, 2041-2048.	0.8	8
61	Fokker-Planck equation for nonequilibrium competing dynamic models. Physical Review E, 1994, 50, 2458-2466.	0.8	9
62	Kinetic lattice models of disorder. Journal of Statistical Physics, 1994, 74, 663-686.	0.5	13
63	Billiards correlation functions. Journal of Statistical Physics, 1994, 76, 549-585.	0.5	45
64	Magnetic system under a fluctuating field. Phase Transitions, 1993, 42, 141-148.	0.6	0
65	On the influence of microscopic dynamics in non-equilibrium stationary states: a mean field example. Journal of Physics A, 1993, 26, 3909-3919.	1.6	2
66	Nonequilibrium impure lattice systems. Journal of Physics A, 1992, 25, 1453-1471.	1.6	15
67	Lattice gas near two dimensions. Physics Letters, Section A: General, Atomic and Solid State Physics, 1992, 172, 29-33.	0.9	2
68	Phase transitions in a probabilistic cellular automaton: Growth kinetics and critical properties. Journal of Statistical Physics, 1992, 68, 497-514.	0.5	20
69	Fast-ionic-conductor behavior of driven lattice-gas models. Phase Transitions, 1991, 29, 129-156.	0.6	7
70	Long-Range Correlations in Stationary Nonequilibrium Systems with Conservative Anisotropic Dynamics. Europhysics Letters, 1991, 14, 507-513.	0.7	51
71	A Nonequilibrium Version of the Spin-Glass Problem. Europhysics Letters, 1991, 15, 375-380.	0.7	19
72	Nonequilibrium steady states and phase transitions in driven diffusive systems. Annals of Physics, 1990, 199, 366-411.	1.0	23

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73	Stationary distributions for systems with competing creation-annihilation dynamics. Journal of Physics A, 1990, 23, 3809-3823.	1.6	14
74	Long-range correlations for conservative dynamics. Physical Review A, 1990, 42, 1954-1968.	1.0	173
75	Effective Hamiltonian description of nonequilibrium spin systems. Physical Review Letters, 1989, 62, 1929-1932.	2.9	62
76	Nonequilibrium Ising models with competing, reaction-diffusion dynamics. Physical Review A, 1989, 40, 5802-5814.	1.0	17
77	One-dimensional mixtures of hard points with stochastic boundary conditions. Journal of Physics A, 1989, 22, 1355-1369.	1.6	2
78	Critical and finite-size-scaling behaviours of short-range order parameters. Journal of Physics Condensed Matter, 1989, 1, 8147-8154.	0.7	5
79	Integral equations for dense fluids: A priori controllable approximations. Journal of Chemical Physics, 1987, 87, 4042-4047.	1.2	0
80	Nonequilibrium phase diagram of Ising model with competing dynamics. Physical Review Letters, 1987, 59, 1934-1937.	2.9	69
81	Exactly soluble Ising models with anisotropic interactions and arbitrary external magnetic field. Journal of Physics A, 1987, 20, 1829-1838.	1.6	3
82	Stationary nonequilibrium states in the Ising model with locally competing temperatures. Journal of Statistical Physics, 1987, 49, 551-568.	0.5	54
83	Ising models with anisotropic interactions: Stationary nonequilibrium states with a nonuniform temperature profile. Physica A: Statistical Mechanics and Its Applications, 1987, 144, 585-603.	1.2	10