

# Pedro L Garrido

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80  
papers

1,677  
citations

22  
h-index

38  
g-index

87  
ext. papers

1,733  
ext. citations

3.2  
avg, IF

4.56  
L-index

#	Paper	IF	Citations
80	Simulations of Transport in Hard Particle Systems. <i>Journal of Statistical Physics</i> , <b>2020</b> , 180, 474-533	1.5	0
79	Diffusion equations from kinetic models with non-conserved momentum. <i>Nonlinearity</i> , <b>2018</b> , 31, 5441-5462	4.2	2
78	A violation of universality in anomalous Fourier law. <i>Scientific Reports</i> , <b>2016</b> , 6, 38823	4.9	25
77	Non-equilibrium Statistical Mechanics of Turbulence. <i>Understanding Complex Systems</i> , <b>2016</b> , 59-70	0.4	1
76	Scaling laws and bulk-boundary decoupling in heat flow. <i>Physical Review E</i> , <b>2015</b> , 91, 032116	2.4	4
75	Thermodynamics of Currents in Nonequilibrium Diffusive Systems: Theory and Simulation. <i>Journal of Statistical Physics</i> , <b>2014</b> , 154, 214-264	1.5	70
74	Rigid motions: Action-angles, relative cohomology and polynomials with roots on the unit circle. <i>Journal of Mathematical Physics</i> , <b>2013</b> , 54, 032901	1.2	4
73	Dynamical phase transition for current statistics in a simple driven diffusive system. <i>Physical Review E</i> , <b>2013</b> , 87,	2.4	61
72	Large deviations of the current in a two-dimensional diffusive system <b>2011</b> ,		6
71	Paradoxical reflection in quantum mechanics. <i>American Journal of Physics</i> , <b>2011</b> , 79, 1218-1231	0.7	18
70	Spontaneous symmetry breaking at the fluctuating level. <i>Physical Review Letters</i> , <b>2011</b> , 107, 180601	7.4	85
69	Symmetries in fluctuations far from equilibrium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 7704-9	11.5	73
68	Large fluctuations of the macroscopic current in diffusive systems: a numerical test of the additivity principle. <i>Physical Review E</i> , <b>2010</b> , 81, 041102	2.4	37
67	Pendulum, elliptic functions, and relative cohomology classes. <i>Journal of Mathematical Physics</i> , <b>2010</b> , 51, 032901	1.2	5
66	Test of the additivity principle for current fluctuations in a model of heat conduction. <i>Physical Review Letters</i> , <b>2009</b> , 102, 250601	7.4	64
65	Simulation of large deviation functions using population dynamics <b>2009</b> ,		19
64	Current fluctuations and statistics during a large deviation event in an exactly solvable transport model. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2009</b> , 2009, P02032	1.9	45

63	Boundary-induced heterogeneous absorbing states <b>2009</b> ,		2
62	Demagnetization via Nucleation of the Nonequilibrium Metastable Phase in a Model of Disorder. <i>Journal of Statistical Physics</i> , <b>2008</b> , 133, 29-58	1.5	6
61	On the similarities and differences between lattice and off-lattice models of driven fluids. <i>European Physical Journal: Special Topics</i> , <b>2007</b> , 143, 269-272	2.3	1
60	Boundary Dissipation in a Driven Hard Disk System. <i>Journal of Statistical Physics</i> , <b>2007</b> , 126, 1201-1207	1.5	12
59	Lattice Versus Lennard-Jones Models with a Net Particle Flow <b>2007</b> , 53-62		1
58	Understanding scale invariance in a minimal model of complex relaxation phenomena. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2006</b> , 2006, P02004-P02004	1.9	2
57	Nonequilibrium anisotropic phases, nucleation, and critical behavior in a driven Lennard-Jones fluid. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	3
56	Metastability, nucleation, and noise-enhanced stabilization out of equilibrium. <i>Physical Review E</i> , <b>2006</b> , 74, 050101	2.4	31
55	Stochastic resonance and scale invariance in nonequilibrium metastable states. <i>European Physical Journal B</i> , <b>2006</b> , 49, 103-108	1.2	
54	Effects of static and dynamic disorder on the performance of neural automata. <i>Biophysical Chemistry</i> , <b>2005</b> , 115, 285-8	3.5	5
53	Lennard-Jones and lattice models of driven fluids. <i>Physical Review E</i> , <b>2005</b> , 72, 026103	2.4	7
52	Reentrant behavior of the spinodal curve in a nonequilibrium ferromagnet. <i>Physical Review E</i> , <b>2004</b> , 70, 021101	2.4	8
51	Analysis of the interface in a nonequilibrium two-temperature Ising model. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	9
50	Switching between memories in neural automata with synaptic noise. <i>Neurocomputing</i> , <b>2004</b> , 58-60, 67-75	5.4	10
49	Influence of topology on the performance of a neural network. <i>Neurocomputing</i> , <b>2004</b> , 58-60, 229-234	5.4	53
48	Boltzmann entropy for dense fluids not in local equilibrium. <i>Physical Review Letters</i> , <b>2004</b> , 92, 050602	7.4	26
47	Kinetics of phase separation in the driven lattice gas: Self-similar pattern growth under anisotropic nonequilibrium conditions. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	12
46	Garrido and Hurtado Reply:. <i>Physical Review Letters</i> , <b>2002</b> , 88,	7.4	18

45	Entropic contributions in Langevin equations for anisotropic driven systems. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2001</b> , 296, 364-374	3-3	10
44	Is the particle current a relevant feature in driven lattice gases?. <i>Physical Review Letters</i> , <b>2001</b> , 87, 19570-4	7-4	26
43	Simple one-dimensional model of heat conduction which obeys Fourier's law. <i>Physical Review Letters</i> , <b>2001</b> , 86, 5486-9	7-4	99
42	Critical properties of nonequilibrium anisotropic lattice gases. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2000</b> , 279, 143-150	3-3	1
41	Bulk dynamics for interfacial growth models. <i>Physical Review E</i> , <b>2000</b> , 62, 4747-51	2-4	3
40	Universality classes of driven lattice gases. <i>Physical Review E</i> , <b>2000</b> , 61, R4683-6	2-4	23
39	Neural Networks in Which Synaptic Patterns Fluctuate with Time. <i>Journal of Statistical Physics</i> , <b>1999</b> , 94, 837-858	1-5	4
38	Continuum Field Model of Driven Lattice Gases. <i>Journal of Statistical Physics</i> , <b>1999</b> , 96, 303-324	1-5	9
37	Nonequilibrium neural network with competing dynamics. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>1998</b> , 253, 57-65	3-3	1
36	Modeling ionic diffusion in magnetic systems. <i>Physical Review B</i> , <b>1998</b> , 58, 11488-11492	3-3	14
35	Langevin equation for driven diffusive systems. <i>Physical Review E</i> , <b>1998</b> , 57, 752-755	2-4	20
34	Mesoscopic description of the annealed Ising model, and multiplicative noise. <i>Physical Review E</i> , <b>1998</b> , 58, 6828-6831	2-4	14
33	Effect of Correlated Fluctuations of Synapses in the Performance of Neural Networks. <i>Physical Review Letters</i> , <b>1998</b> , 81, 2827-2830	7-4	6
32	Neural networks with fast time-variation of synapses. <i>Journal of Physics A</i> , <b>1997</b> , 30, 7801-7816		16
31	Kolmogorov-Sinai Entropy, Lyapunov Exponents, and Mean Free Time in Billiard Systems. <i>Journal of Statistical Physics</i> , <b>1997</b> , 88, 807-824	1-5	15
30	Chaotic principle: An experimental test. <i>Physica D: Nonlinear Phenomena</i> , <b>1997</b> , 105, 226-252	3-3	77
29	Phase transitions in driven lattice gases. <i>Physical Review E</i> , <b>1996</b> , 53, 6038-6047	2-4	17
28	Continuum Description for Nonequilibrium Competing Dynamic Models. <i>Physical Review Letters</i> , <b>1995</b> , 75, 1875-1878	7-4	5

27	Non-equilibrium layered lattice gases. <i>Journal of Physics A</i> , <b>1995</b> , 28, 4669-4678		2
26	A test for two Fokker-Planck modellings of a master equation. <i>Journal of Physics A</i> , <b>1995</b> , 28, 2637-2646		2
25	Relaxation to Equilibrium in Non-Conservative Lattice Systems. <i>Europhysics Letters</i> , <b>1994</b> , 26, 407-412	1.6	
24	Monte Carlo study of a kinetic lattice model with random diffusion of disorder. <i>Physical Review E</i> , <b>1994</b> , 49, 2041-2048	2.4	7
23	Fokker-Planck equation for nonequilibrium competing dynamic models. <i>Physical Review E</i> , <b>1994</b> , 50, 2458-2466	2.4	6
22	Kinetic lattice models of disorder. <i>Journal of Statistical Physics</i> , <b>1994</b> , 74, 663-686	1.5	12
21	Billiards correlation functions. <i>Journal of Statistical Physics</i> , <b>1994</b> , 76, 549-585	1.5	42
20	Magnetic system under a fluctuating field. <i>Phase Transitions</i> , <b>1993</b> , 42, 141-148	1.3	
19	On the influence of microscopic dynamics in non-equilibrium stationary states: a mean field example. <i>Journal of Physics A</i> , <b>1993</b> , 26, 3909-3919		2
18	Nonequilibrium impure lattice systems. <i>Journal of Physics A</i> , <b>1992</b> , 25, 1453-1471		15
17	Lattice gas near two dimensions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1992</b> , 172, 29-33	2.3	1
16	Phase transitions in a probabilistic cellular automaton: Growth kinetics and critical properties. <i>Journal of Statistical Physics</i> , <b>1992</b> , 68, 497-514	1.5	20
15	Long-Range Correlations in Stationary Nonequilibrium Systems with Conservative Anisotropic Dynamics. <i>Europhysics Letters</i> , <b>1991</b> , 14, 507-513	1.6	49
14	A Nonequilibrium Version of the Spin-Glass Problem. <i>Europhysics Letters</i> , <b>1991</b> , 15, 375-380	1.6	18
13	Fast-ionic-conductor behavior of driven lattice-gas models. <i>Phase Transitions</i> , <b>1991</b> , 29, 129-156	1.3	7
12	Nonequilibrium steady states and phase transitions in driven diffusive systems. <i>Annals of Physics</i> , <b>1990</b> , 199, 366-411	2.5	23
11	Stationary distributions for systems with competing creation-annihilation dynamics. <i>Journal of Physics A</i> , <b>1990</b> , 23, 3809-3823		14
10	Long-range correlations for conservative dynamics. <i>Physical Review A</i> , <b>1990</b> , 42, 1954-1968	2.6	155

- 9 Effective Hamiltonian description of nonequilibrium spin systems. *Physical Review Letters*, **1989**, 62, 1929-1932
- 8 Nonequilibrium Ising models with competing, reaction-diffusion dynamics. *Physical Review A*, **1989**, 40, 5802-5814 2.6 17
- 7 One-dimensional mixtures of hard points with stochastic boundary conditions. *Journal of Physics A*, **1989**, 22, 1355-1369 2
- 6 Critical and finite-size-scaling behaviours of short-range order parameters. *Journal of Physics Condensed Matter*, **1989**, 1, 8147-8154 1.8 4
- 5 Integral equations for dense fluids: A priori controllable approximations. *Journal of Chemical Physics*, **1987**, 87, 4042-4047 3.9
- 4 Nonequilibrium phase diagram of Ising model with competing dynamics. *Physical Review Letters*, **1987**, 59, 1934-1937 7.4 67
- 3 Exactly soluble Ising models with anisotropic interactions and arbitrary external magnetic field. *Journal of Physics A*, **1987**, 20, 1829-1838 2
- 2 Stationary nonequilibrium states in the Ising model with locally competing temperatures. *Journal of Statistical Physics*, **1987**, 49, 551-568 1.5 54
- 1 Ising models with anisotropic interactions: Stationary nonequilibrium states with a nonuniform temperature profile. *Physica A: Statistical Mechanics and Its Applications*, **1987**, 144, 585-603 3.3 10