

Pablo Hurtado

List of Publications by Year in descending order

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59
papers

1,622
citations

377584

21
h-index

325983

40
g-index

62
all docs

62
docs citations

62
times ranked

1130
citing authors

#	ARTICLE	IF	CITATIONS
1	Active interaction switching controls the dynamic heterogeneity of soft colloidal dispersions. <i>Soft Matter</i> , 2022, 18, 397-411.	1.2	12
2	Coupled activity-current fluctuations in open quantum systems under strong symmetries. <i>New Journal of Physics</i> , 2021, 23, 073044.	1.2	4
3	Simulations of Transport in Hard Particle Systems. <i>Journal of Statistical Physics</i> , 2020, 180, 474-533.	0.5	3
4	Building Continuous Time Crystals from Rare Events. <i>Physical Review Letters</i> , 2020, 125, 160601.	2.9	21
5	The kinetic exclusion process: a tale of two fields. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2019, 2019, 103203.	0.9	9
6	Sampling rare events across dynamical phase transitions. <i>Chaos</i> , 2019, 29, 083106.	1.0	24
7	Infinite family of universal profiles for heat current statistics in Fourier's law. <i>Physical Review E</i> , 2019, 99, 022134.	0.8	2
8	Dynamical criticality in open systems: Nonperturbative physics, microscopic origin, and direct observation. <i>Physical Review E</i> , 2018, 98, .	0.8	11
9	Harnessing symmetry to control quantum transport. <i>Advances in Physics</i> , 2018, 67, 1-67.	35.9	32
10	Quantum systems in and out of equilibrium. <i>European Physical Journal: Special Topics</i> , 2018, 227, 201-202.	1.2	0
11	Structure of the optimal path to a fluctuation. <i>Physical Review E</i> , 2017, 95, 032119.	0.8	12
12	Order and Symmetry Breaking in the Fluctuations of Driven Systems. <i>Physical Review Letters</i> , 2017, 119, 090602.	2.9	27
13	Statistics of the dissipated energy in driven diffusive systems. <i>European Physical Journal E</i> , 2016, 39, 35.	0.7	11
14	Weak additivity principle for current statistics in d dimensions. <i>Physical Review E</i> , 2016, 93, 040103.	0.8	13
15	A violation of universality in anomalous Fourier's law. <i>Scientific Reports</i> , 2016, 6, 38823.	1.6	31
16	Probing local equilibrium in nonequilibrium fluids. <i>Physical Review E</i> , 2015, 92, 022117.	0.8	6
17	Relaxation dynamics in a transient network fluid with competing gel and glass phases. <i>Journal of Chemical Physics</i> , 2015, 142, 174503.	1.2	20
18	Scaling laws and bulk-boundary decoupling in heat flow. <i>Physical Review E</i> , 2015, 91, 032116.	0.8	5

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19	Thermodynamics of Currents in Nonequilibrium Diffusive Systems: Theory and Simulation. Journal of Statistical Physics, 2014, 154, 214-264.	0.5	73
20	Symmetry and the thermodynamics of currents in open quantum systems. Physical Review B, 2014, 90, .	1.1	51
21	Typical and rare fluctuations in nonlinear driven diffusive systems with dissipation. Physical Review E, 2013, 88, 022110.	0.8	32
22	Dynamical phase transition for current statistics in a simple driven diffusive system. Physical Review E, 2013, 87, .	0.8	71
23	Nonlinear driven diffusive systems with dissipation: Fluctuating hydrodynamics. Physical Review E, 2012, 86, 031134.	0.8	37
24	Compact waves in microscopic nonlinear diffusion. Physical Review E, 2012, 85, 060103.	0.8	12
25	Large Fluctuations in Driven Dissipative Media. Physical Review Letters, 2011, 107, 140601.	2.9	47
26	Large deviations of the current in a two-dimensional diffusive system. , 2011, , .		6
27	Spontaneous Symmetry Breaking at the Fluctuating Level. Physical Review Letters, 2011, 107, 180601.	2.9	98
28	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
29	Large deviations of the current in a two-dimensional diffusive system. AIP Conference Proceedings, 2011, , .	0.3	0
30	When gel and glass meet: A mechanism for multistep relaxation. Physical Review E, 2010, 81, 040502.	0.8	28
31	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
32	Test of the Additivity Principle for Current Fluctuations in a Model of Heat Conduction. Physical Review Letters, 2009, 102, 250601.	2.9	68
33	Simulation of large deviation functions using population dynamics. , 2009, , .		21
34	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
35	Static and dynamic properties of a reversible gel. , 2009, , .		6
36	Demagnetization via Nucleation of the Nonequilibrium Metastable Phase in a Model of Disorder. Journal of Statistical Physics, 2008, 133, 29-58.	0.5	7

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37	Network synchronization: optimal and pessimal scale-free topologies. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 224008.	0.7	14
38	Heterogeneous Diffusion in a Reversible Gel. Physical Review Letters, 2007, 98, 135503.	2.9	80
39	Stochastic resonance and scale invariance in nonequilibrium metastable states. European Physical Journal B, 2006, 49, 103-108.	0.6	0
40	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
41	Breakdown of Hydrodynamics in a Simple One-Dimensional Fluid. Physical Review Letters, 2006, 96, 010601.	2.9	27
42	Metastability, nucleation, and noise-enhanced stabilization out of equilibrium. Physical Review E, 2006, 74, 050101.	0.8	33
43	Simplest piston problem. II. Inelastic collisions. Physical Review E, 2006, 73, 016137.	0.8	8
44	Simplest piston problem. I. Elastic collisions. Physical Review E, 2006, 73, 016136.	0.8	9
45	Synchronization in Network Structures: Entangled Topology as Optimal Architecture for Network Design. Lecture Notes in Computer Science, 2006, , 1075-1082.	1.0	2
46	Nonequilibrium behavior of a one-dimensional fluid: the problem of strong shock waves. AIP Conference Proceedings, 2005, , .	0.3	0
47	Strong shock waves and nonequilibrium response in a one-dimensional gas: A Boltzmann equation approach. Physical Review E, 2005, 72, 041101.	0.8	6
48	Entangled Networks, Synchronization, and Optimal Network Topology. Physical Review Letters, 2005, 95, 188701.	2.9	295
49	Reentrant behavior of the spinodal curve in a nonequilibrium ferromagnet. Physical Review E, 2004, 70, 021101.	0.8	8
50	Analysis of the interface in a nonequilibrium two-temperature Ising model. Physical Review B, 2004, 70, .	1.1	9
51	Kinetics of phase separation in the driven lattice gas: Self-similar pattern growth under anisotropic nonequilibrium conditions. Physical Review B, 2003, 67, .	1.1	13
52	Coarsening under Anisotropic Conditions in a Lattice Gas Model. AIP Conference Proceedings, 2003, , .	0.3	0
53	Metastability and Avalanches in a Nonequilibrium Ferromagnetic System. AIP Conference Proceedings, 2003, , .	0.3	0
54	Garrido and Hurtado Reply:. Physical Review Letters, 2002, 89, .	2.9	9

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55	Garrido and Hurtado Reply:. Physical Review Letters, 2002, 88, .	2.9	18
56	Growth and scaling in anisotropic spinodal decomposition. Europhysics Letters, 2002, 59, 14-20.	0.7	8
57	Modeling nonequilibrium phase transitions and critical behavior in complex systems. Computer Physics Communications, 2002, 147, 115-119.	3.0	1
58	Simple One-Dimensional Model of Heat Conduction which Obeys Fourier's Law. Physical Review Letters, 2001, 86, 5486-5489.	2.9	111
59	Systems with superabsorbing states. Physical Review E, 2000, 62, 4633-4641.	0.8	1