

# Alberto Imparato

## List of Publications by Year in descending order

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Version: 2024-02-01

69  
papers

1,922  
citations

196777

29  
h-index

312153

41  
g-index

70  
all docs

70  
docs citations

70  
times ranked

1492  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum batteries at the verge of a phase transition. <i>New Journal of Physics</i> , 2022, 24, 015003.	1.2	12
2	Quantum fluctuation theorem for dissipative processes. <i>Physical Review Research</i> , 2022, 4, .	1.3	3
3	Quantum thermodynamically consistent local master equations. <i>Physical Review Research</i> , 2021, 3, .	1.3	38
4	Charging assisted by thermalization. <i>Physical Review Research</i> , 2020, 2, .	1.3	34
5	Quantum current in dissipative systems. <i>New Journal of Physics</i> , 2019, 21, 052001.	1.2	23
6	Out-of-Equilibrium Clock Model at the Verge of Criticality. <i>Physical Review Letters</i> , 2019, 123, 070601.	2.9	14
7	Quantum duets working as autonomous thermal motors. <i>Physical Review E</i> , 2019, 100, 042138.	0.8	4
8	Efficiency fluctuations in steady-state machines. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2019, 52, 045003.	0.7	12
9	Autonomous quantum rotator. <i>Europhysics Letters</i> , 2018, 122, 10006.	0.7	17
10	Exact firing time statistics of neurons driven by discrete inhibitory noise. <i>Scientific Reports</i> , 2017, 7, 1577.	1.6	12
11	A minimal model of an autonomous thermal motor. <i>Europhysics Letters</i> , 2017, 119, 50007.	0.7	27
12	Theoretical description of effective heat transfer between two viscously coupled beads. <i>Physical Review E</i> , 2016, 94, 052148.	0.8	13
13	Non-Boltzmann stationary distributions and nonequilibrium relations in active baths. <i>Physical Review E</i> , 2016, 94, 062150.	0.8	61
14	The role of coupling on the statistical properties of the energy fluxes between stochastic systems at different temperatures. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2016, 2016, 054002.	0.9	10
15	Stationary and Transient Fluctuation Theorems for Effective Heat Fluxes between Hydrodynamically Coupled Particles in Optical Traps. <i>Physical Review Letters</i> , 2016, 116, 068301.	2.9	39
16	Stochastic thermodynamics in many-particle systems. <i>New Journal of Physics</i> , 2015, 17, 125004.	1.2	20
17	Heat transport in harmonic oscillator systems with thermal baths: application to optomechanical arrays. <i>New Journal of Physics</i> , 2015, 17, 055013.	1.2	39
18	Thermal transport in out-of-equilibrium quantum harmonic chains. <i>Physical Review E</i> , 2015, 91, 042116.	0.8	32

#	ARTICLE	IF	CITATIONS
19	Pushing the limit: investigation of hydrodynamic forces on a trapped particle kicked by a laser pulse. Optics Express, 2015, 23, 13141.	1.7	3
20	Sisyphus effect in pulse-coupled excitatory neural networks with spike-timing-dependent plasticity. Physical Review E, 2014, 89, 062701.	0.8	8
21	Energy transfer in molecular devices. Physical Review E, 2014, 90, 062712.	0.8	3
22	Efficiency at maximum power of motor traffic on networks. Physical Review E, 2014, 89, 062118.	0.8	11
23	Exact fluctuation theorem without ensemble quantities. Physical Review E, 2014, 89, 052119.	0.8	34
24	Heat fluctuations and fluctuation theorems in the case of multiple reservoirs. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P11011.	0.9	17
25	Entropy-generated power and its efficiency. Physical Review E, 2013, 88, 042115.	0.8	6
26	Single-Molecule Folding Mechanism of an EF-Hand Neuronal Calcium Sensor. Structure, 2013, 21, 1812-1821.	1.6	27
27	Heat Flux and Entropy Produced by Thermal Fluctuations. Physical Review Letters, 2013, 110, 180601.	2.9	125
28	Emergence of Slow Collective Oscillations in Neural Networks with Spike-Timing Dependent Plasticity. Physical Review Letters, 2013, 110, 208101.	2.9	35
29	Maximum power operation of interacting molecular motors. Physical Review E, 2013, 88, 012114.	0.8	18
30	Statistical properties of the energy exchanged between two heat baths coupled by thermal fluctuations. Journal of Statistical Mechanics: Theory and Experiment, 2013, 2013, P12014.	0.9	51
31	Efficiency of molecular machines with continuous phase space. Europhysics Letters, 2012, 97, 60005.	0.7	44
32	Motion analysis of optically trapped particles and cells using 2D Fourier analysis. Optics Express, 2012, 20, 1953.	1.7	1
33	Efficiency at Maximum Power of Interacting Molecular Machines. Physical Review Letters, 2012, 109, 190602.	2.9	63
34	Heat flow in chains driven by thermal noise. Journal of Statistical Mechanics: Theory and Experiment, 2012, 2012, P04005.	0.9	35
35	A Highly Compliant Protein Native State with a Spontaneous-like Mechanical Unfolding Pathway. Journal of the American Chemical Society, 2012, 134, 17068-17075.	6.6	29
36	Influence of rotational force fields on the determination of the work done on a driven Brownian particle. Journal of Optics (United Kingdom), 2011, 13, 044006.	1.0	4

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37	Mechanical Stress Affects Glucagon Fibrillation Kinetics and Fibril Structure. <i>Langmuir</i> , 2011, 27, 12539-12549.	1.6	27
38	A bound particle coupled to two thermostats. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2011, 2011, P05015.	0.9	37
39	Direction-dependent mechanical unfolding and green fluorescent protein as a force sensor. <i>Physical Review E</i> , 2011, 84, 021918.	0.8	14
40	Discrete breathers in a realistic coarse-grained model of proteins. <i>Physical Biology</i> , 2011, 8, 046008.	0.8	15
41	On the surface tension of fluctuating quasi-spherical vesicles. <i>European Physical Journal E</i> , 2010, 31, 333-342.	0.7	15
42	Out-of-Equilibrium versus Dynamical and Thermodynamical Transitions for a Model Protein. <i>Progress of Theoretical Physics Supplement</i> , 2010, 184, 339-350.	0.2	2
43	Unfolding times for proteins in a force clamp. <i>Physical Review E</i> , 2010, 81, 010902.	0.8	16
44	Current Fluctuations in Systems with Diffusive Dynamics, in and out of Equilibrium. <i>Progress of Theoretical Physics Supplement</i> , 2010, 184, 276-289.	0.2	33
45	Pathways of mechanical unfolding of FnlIII10: Low force intermediates. <i>Journal of Chemical Physics</i> , 2010, 133, 065101.	1.2	14
46	Equilibriumlike fluctuations in some boundary-driven open diffusive systems. <i>Physical Review E</i> , 2009, 80, 011131.	0.8	31
47	Equilibrium Properties and Force-Driven Unfolding Pathways of RNA Molecules. <i>Physical Review Letters</i> , 2009, 103, 188102.	2.9	14
48	Work distribution in manipulated single biomolecules. <i>Physical Biology</i> , 2009, 6, 025011.	0.8	5
49	Heat distribution function for motion in a general potential at low temperature. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009, 42, 475004.	0.7	17
50	Changing the Mechanical Unfolding Pathway of FnlIII10 by Tuning the Pulling Strength. <i>Biophysical Journal</i> , 2009, 96, 429-441.	0.2	42
51	Free-energy landscape of mechanically unfolded model proteins: Extended Jarzinsky versus inherent structure reconstruction. <i>Physical Review E</i> , 2008, 78, 031907.	0.8	11
52	Probability density functions of work and heat near the stochastic resonance of a colloidal particle. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2008, 2008, P10017.	0.9	39
53	Reconstructing the free-energy landscape of a polyprotein by single-molecule experiments. <i>Europhysics Letters</i> , 2008, 82, 58006.	0.7	39
54	Mechanical Unfolding and Refolding Pathways of Ubiquitin. <i>Physical Review Letters</i> , 2008, 100, 158104.	2.9	38

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55	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
56	Reconstructing the Free-Energy Landscape of a Mechanically Unfolded Model Protein. <i>Physical Review Letters</i> , 2007, 99, 168101.	2.9	25
57	Ising-Like Model for Protein Mechanical Unfolding. <i>Physical Review Letters</i> , 2007, 98, 148102.	2.9	62
58	Protein mechanical unfolding: A model with binary variables. <i>Journal of Chemical Physics</i> , 2007, 127, 145105.	1.2	22
59	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
60	Work and heat probability distributions in out-of-equilibrium systems. <i>Comptes Rendus Physique</i> , 2007, 8, 556-566.	0.3	9
61	Evaluation of free energy landscapes from manipulation experiments. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2006, 2006, P03005-P03005.	0.9	13
62	Surface tension in bilayer membranes with fixed projected area. <i>Journal of Chemical Physics</i> , 2006, 124, 154714.	1.2	42
63	Fluctuation relations for a driven Brownian particle. <i>Physical Review E</i> , 2006, 74, 026106.	0.8	56
64	Shape fluctuations and elastic properties of two-component bilayer membranes. <i>Europhysics Letters</i> , 2005, 69, 650-656.	0.7	49
65	Work distribution and path integrals in general mean-field systems. <i>Europhysics Letters</i> , 2005, 70, 740-746.	0.7	43
66	Work probability distribution in single-molecule experiments. <i>Europhysics Letters</i> , 2005, 69, 643-649.	0.7	32
67	Work-probability distribution in systems driven out of equilibrium. <i>Physical Review E</i> , 2005, 72, 046114.	0.8	65
68	Kinetic barriers in RNA unzipping. <i>European Physical Journal B</i> , 2004, 39, 357-363.	0.6	10
69	Lateral and transverse diffusion in two-component bilayer membranes. <i>European Physical Journal E</i> , 2003, 11, 21-28.	0.7	30