

Michele Campisi

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.

68

papers

2,856

citations

24

h-index

53

g-index

73

ext. papers

3,402

ext. citations

4.1

avg, IF

5.86

L-index

#	Paper	IF	Citations
68	Spontaneous Fluctuation-Symmetry Breaking and the Landauer Principle. <i>Journal of Statistical Physics</i> , 2022 , 186, 1	1.5	1
67	The Canonical Ensemble. <i>SpringerBriefs in Physics</i> , 2021 , 45-55	0.6	
66	Minimal Mechanical Model of Thermodynamics. <i>SpringerBriefs in Physics</i> , 2021 , 13-25	0.6	
65	The TP Ensemble. <i>SpringerBriefs in Physics</i> , 2021 , 57-65	0.6	
64	Photonic Heat Rectification in a System of Coupled Qubits. <i>Physical Review Applied</i> , 2021 , 15,	4.3	6
63	Improved bound on entropy production in a quantum annealer. <i>Physical Review E</i> , 2021 , 104, L022102	2.4	3
62	Experimental Verification of Fluctuation Relations with a Quantum Computer. <i>PRX Quantum</i> , 2021 , 2,	6.1	4
61	Charging a quantum battery via nonequilibrium heat current. <i>Physical Review E</i> , 2020 , 102, 062133	2.4	5
60	Thermodynamics of a quantum annealer. <i>Quantum Science and Technology</i> , 2020 , 5, 035013	5.5	12
59	Quantum resources for energy storage. <i>EPJ Web of Conferences</i> , 2020 , 230, 00003	0.3	2
58	Nonadiabatic single-qubit quantum Otto engine. <i>Physical Review B</i> , 2020 , 101,	3.3	16
57	Quantum supercapacitors. <i>Physical Review B</i> , 2019 , 100,	3.3	13
56	Extractable Work, the Role of Correlations, and Asymptotic Freedom in Quantum Batteries. <i>Physical Review Letters</i> , 2019 , 122, 047702	7.4	79
55	Maximal energy extraction via quantum measurement. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2019 , 2019, 094003	1.9	5
54	Out of equilibrium thermodynamics of quantum harmonic chains. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2019 , 2019, 104014	1.9	3
53	Quantum Measurement Cooling. <i>Physical Review Letters</i> , 2019 , 122, 070603	7.4	47
52	High-Power Collective Charging of a Solid-State Quantum Battery. <i>Physical Review Letters</i> , 2018 , 120, 117702	7.4	110

51	Stiffness of probability distributions of work and Jarzynski relation for non-Gibbsian initial states. <i>Physical Review E</i> , 2018 , 98, 012123	2.4	9
50	Comment on "Experimental Verification of a Jarzynski-Related Information-Theoretic Equality by a Single Trapped Ion". <i>Physical Review Letters</i> , 2018 , 121, 088901	7.4	1
49	Nonequilibrium quantum-heat statistics under stochastic projective measurements. <i>Physical Review E</i> , 2018 , 98,	2.4	17
48	Feedback-controlled heat transport in quantum devices: theory and solid-state experimental proposal. <i>New Journal of Physics</i> , 2017 , 19, 053027	2.9	18
47	Thermodynamics of quantum information scrambling. <i>Physical Review E</i> , 2017 , 95, 062127	2.4	48
46	Coupled qubits as a quantum heat switch. <i>Quantum Science and Technology</i> , 2017 , 2, 044007	5.5	22
45	Dissipation, correlation and lags in heat engines. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2016 , 49, 345002	2	19
44	Eigenstate thermalization hypothesis and quantum Jarzynski relation for pure initial states. <i>Physical Review E</i> , 2016 , 94, 012125	2.4	14
43	Self-Oscillating Josephson Quantum Heat Engine. <i>Physical Review Applied</i> , 2016 , 6,	4.3	35
42	The power of a critical heat engine. <i>Nature Communications</i> , 2016 , 7, 11895	17.4	157
41	Increase of quantum volume entropy in presence of degenerate eigenenergies. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2016 , 49, 405002	2	
40	Nonequilibrium fluctuations in quantum heat engines: theory, example, and possible solid state experiments. <i>New Journal of Physics</i> , 2015 , 17, 035012	2.9	124
39	Construction of microcanonical entropy on thermodynamic pillars. <i>Physical Review E</i> , 2015 , 91, 052147	2.4	42
38	Work statistics, irreversible heat and correlations build-up in joining two spin chains. <i>Physica Scripta</i> , 2015 , T165, 014023	2.6	11
37	Quantum fluctuation theorems and generalized measurements during the force protocol. <i>Physical Review E</i> , 2014 , 89, 032114	2.4	41
36	Fluctuation relation for quantum heat engines and refrigerators. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014 , 47, 245001	2	46
35	Assessing the Nonequilibrium Thermodynamics in a Quenched Quantum Many-Body System via Single Projective Measurements. <i>Physical Review X</i> , 2014 , 4,	9.1	55
34	Geometric quantum pumping in the presence of dissipation. <i>Physical Review B</i> , 2014 , 90,	3.3	7

33	Quantum Hertz entropy increase in a quenched spin chain. <i>European Physical Journal B</i> , 2013 , 86, 1	1.2	13
32	Thermostated Hamiltonian dynamics with log oscillators. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 12829-35	3.4	12
31	Employing circuit QED to measure non-equilibrium work fluctuations. <i>New Journal of Physics</i> , 2013 , 15, 105028	2.9	44
30	Quantum fluctuation relations for ensembles of wave functions. <i>New Journal of Physics</i> , 2013 , 15, 115008	2.9	13
29	Campisi et al. reply. <i>Physical Review Letters</i> , 2013 , 110, 028902	7.4	3
28	Geometric magnetism in open quantum systems. <i>Physical Review A</i> , 2012 , 86,	2.6	21
27	Logarithmic oscillators: ideal Hamiltonian thermostats. <i>Physical Review Letters</i> , 2012 , 108, 250601	7.4	20
26	On the origin of power laws in equilibrium. <i>Europhysics Letters</i> , 2012 , 99, 60004	1.6	9
25	Fluctuation, Dissipation and the Arrow of Time. <i>Entropy</i> , 2011 , 13, 2024-2035	2.8	21
24	Quantum Bochkov-Kuzovlev work fluctuation theorems. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011 , 369, 291-306	3	34
23	Colloquium: Quantum fluctuation relations: Foundations and applications. <i>Reviews of Modern Physics</i> , 2011 , 83, 771-791	40.5	802
22	Nonequilibrium work statistics of an Aharonov-Bohm flux. <i>Physical Review E</i> , 2011 , 84, 011138	2.4	16
21	Influence of measurements on the statistics of work performed on a quantum system. <i>Physical Review E</i> , 2011 , 83, 041114	2.4	57
20	Fluctuation theorems for continuously monitored quantum fluxes. <i>Physical Review Letters</i> , 2010 , 105, 140601	7.4	94
19	Derivation of the Boltzmann principle. <i>American Journal of Physics</i> , 2010 , 78, 608-615	0.7	34
18	Thermodynamic anomalies in open quantum systems: Strong coupling effects in the isotropic XY model. <i>Chemical Physics</i> , 2010 , 375, 187-194	2.3	25
17	Finite bath fluctuation theorem. <i>Physical Review E</i> , 2009 , 80, 031145	2.4	33
16	Fluctuation theorems in driven open quantum systems. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009 , 2009, P02025	1.9	101

15	A soft-lithographed chaotic electrokinetic micromixer for efficient chemical reactions in lab-on-chips. <i>Journal of Micro-Nano Mechatronics</i> , 2009 , 5, 69-76		22
14	Fluctuation theorem for arbitrary open quantum systems. <i>Physical Review Letters</i> , 2009 , 102, 210401	7.4	236
13	Thermodynamics and fluctuation theorems for a strongly coupled open quantum system: an exactly solvable case. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009 , 42, 392002	2	34
12	Increase of Boltzmann entropy in a quantum forced harmonic oscillator. <i>Physical Review E</i> , 2008 , 78, 051123	12.3	19
11	Complementary expressions for the entropy-from-work theorem. <i>Physical Review E</i> , 2008 , 78, 012102	2.4	8
10	Statistical mechanical proof of the second law of thermodynamics based on volume entropy. <i>Studies in History and Philosophy of Science Part B - Studies in History and Philosophy of Modern Physics</i> , 2008 , 39, 181-194	1	21
9	Thermodynamics with generalized ensembles: The class of dual orthodes. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007 , 385, 501-517	3.3	14
8	Tsallis ensemble as an exact orthode. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007 , 362, 11-15	2.3	11
7	On the limiting cases of nonextensive thermostatistics. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007 , 366, 335-338	2.3	10
6	Complex Ohmic conductance of electrolytes in rectangular microchannels. <i>Journal of Chemical Physics</i> , 2006 , 124, 144710	3.9	2
5	On the mechanical foundations of thermodynamics: The generalized Helmholtz theorem. <i>Studies in History and Philosophy of Science Part B - Studies in History and Philosophy of Modern Physics</i> , 2005 , 36, 275-290	1	42
4	ac electroosmosis in rectangular microchannels. <i>Journal of Chemical Physics</i> , 2005 , 123, 204724	3.9	16
3	A micro flow-meter for closed-loop management of biological samples. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2005 , 2005, 5062-5		1
2	Dynamic versus thermodynamic approach to non-canonical equilibrium. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002 , 305, 89-98	3.3	3
1	Experimental test of fluctuation relations for driven open quantum systems with an NV center. <i>New Journal of Physics</i> ,	2.9	2