

# MartÃ- Perarnau-Llobet

## List of Publications by Year in descending order

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45  
papers

2,014  
citations

304743

22  
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315739

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g-index

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all docs

45  
docs citations

45  
times ranked

1155  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental Verification of the Work Fluctuation-Dissipation Relation for Information-to-Work Conversion. <i>Physical Review Letters</i> , 2022, 128, 040602.	7.8	12
2	Geometric Optimization of Nonequilibrium Adiabatic Thermal Machines and Implementation in a Qubit System. <i>PRX Quantum</i> , 2022, 3, .	9.2	18
3	Fundamental Limits in Bayesian Thermometry and Attainability via Adaptive Strategies. <i>Physical Review Letters</i> , 2022, 128, 130502.	7.8	14
4	Bayesian quantum thermometry based on thermodynamic length. <i>Physical Review A</i> , 2022, 105, .	2.5	9
5	Joint statistics of work and entropy production along quantum trajectories. <i>Physical Review E</i> , 2021, 103, 052138.	2.1	12
6	Thermodynamic Uncertainty Relation in Slowly Driven Quantum Heat Engines. <i>Physical Review Letters</i> , 2021, 126, 210603.	7.8	54
7	Optimal Quantum Thermometry with Coarse-Grained Measurements. <i>PRX Quantum</i> , 2021, 2, .	9.2	22
8	Contributions from populations and coherences in non-equilibrium entropy production. <i>New Journal of Physics</i> , 2021, 23, 063027.	2.9	9
9	Quantum Speed-Up in Collisional Battery Charging. <i>Physical Review Letters</i> , 2021, 127, 100601.	7.8	37
10	Geometric Optimisation of Quantum Thermodynamic Processes. <i>Entropy</i> , 2020, 22, 1076.	2.2	53
11	Speed-Ups to Isothermality: Enhanced Quantum Thermal Machines through Control of the System-Bath Coupling. <i>Physical Review X</i> , 2020, 10, .	8.9	36
12	Minimizing Backaction through Entangled Measurements. <i>Physical Review Letters</i> , 2020, 125, 210401.	7.8	12
13	Optimal Cycles for Low-Dissipation Heat Engines. <i>Physical Review Letters</i> , 2020, 124, 110606.	7.8	89
14	Multimode Fock states with large photon number: effective descriptions and applications in quantum metrology. <i>Quantum Science and Technology</i> , 2020, 5, 025003.	5.8	14
15	Quantum work statistics close to equilibrium. <i>Physical Review Research</i> , 2020, 2, .	3.6	44
16	Collective operations can extremely reduce work fluctuations. <i>New Journal of Physics</i> , 2019, 21, 083023.	2.9	19
17	Experimentally reducing the quantum measurement back action in work distributions by a collective measurement. <i>Science Advances</i> , 2019, 5, eaav4944.	10.3	15
18	Work Fluctuations in Slow Processes: Quantum Signatures and Optimal Control. <i>Physical Review Letters</i> , 2019, 123, 230603.	7.8	67

#	ARTICLE	IF	CITATIONS
19	Strong Coupling Corrections in Quantum Thermodynamics. <i>Physical Review Letters</i> , 2018, 120, 120602.	7.8	84
20	Adding dynamical generators in quantum master equations. <i>Physical Review A</i> , 2018, 97, .	2.5	41
21	Fluctuating Work in Coherent Quantum Systems: Proposals and Limitations. <i>Fundamental Theories of Physics</i> , 2018, , 275-300.	0.3	9
22	No-Go Theorem for the Characterization of Work Fluctuations in Coherent Quantum Systems. <i>Physical Review Letters</i> , 2017, 118, 070601.	7.8	126
23	Dynamics of quantum measurements employing two Curie-Weiss apparatuses. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160386.	3.4	0
24	Quantum Thermal Machine as a Thermometer. <i>Physical Review Letters</i> , 2017, 119, 090603.	7.8	78
25	Simultaneous measurement of two noncommuting quantum variables: Solution of a dynamical model. <i>Physical Review A</i> , 2017, 95, .	2.5	17
26	Enhancement of low-temperature thermometry by strong coupling. <i>Physical Review A</i> , 2017, 96, .	2.5	64
27	Markovian master equations for quantum thermal machines: local versus global approach. <i>New Journal of Physics</i> , 2017, 19, 123037.	2.9	187
28	Energetics of correlations in interacting systems. <i>Physical Review E</i> , 2016, 93, 042135.	2.1	26
29	Autonomous quantum refrigerator in a circuit QED architecture based on a Josephson junction. <i>Physical Review B</i> , 2016, 94, .	3.2	95
30	Work and entropy production in generalised Gibbs ensembles. <i>New Journal of Physics</i> , 2016, 18, 123035.	2.9	33
31	Most energetic passive states. <i>Physical Review E</i> , 2015, 92, 042147.	2.1	38
32	Locality of temperature in spin chains. <i>New Journal of Physics</i> , 2015, 17, 085007.	2.9	20
33	Extractable Work from Correlations. <i>Physical Review X</i> , 2015, 5, .	8.9	143
34	Thermodynamics of creating correlations: Limitations and optimal protocols. <i>Physical Review E</i> , 2015, 91, 032118.	2.1	48
35	Thermodynamic cost of creating correlations. <i>New Journal of Physics</i> , 2015, 17, 065008.	2.9	68
36	Lectures on dynamical models for quantum measurements. <i>International Journal of Modern Physics B</i> , 2014, 28, 1430014.	2.0	3

#	ARTICLE	IF	CITATIONS
37	Lectures on Dynamical Models for Quantum Measurements. , 2014, , 307-347.		2
38	Entanglement Generation is Not Necessary for Optimal Work Extraction. Physical Review Letters, 2013, 111, 240401.	7.8	191
39	Differential Evolution for Many-Particle Adaptive Quantum Metrology. Physical Review Letters, 2013, 110, 220501.	7.8	53
40	Entropy vector formalism and the structure of multidimensional entanglement in multipartite systems. Physical Review A, 2013, 88, .	2.5	52
41	Imperfect Thermalizations Allow for Optimal Thermodynamic Processes. Quantum - the Open Journal for Quantum Science, 0, 3, 153.	0.0	19
42	Thermodynamic length in open quantum systems. Quantum - the Open Journal for Quantum Science, 0, 3, 197.	0.0	68
43	Quantum signatures in fluctuation theorems. , 0, 3, 13.		2
44	Optimal Heat-Bath Algorithmic Cooling. , 0, 3, 25.		0
45	Thermodynamics and optimal protocols of multidimensional quadratic Brownian systems. Journal of Physics Communications, 0, , .	1.2	11