

MartÃ- Perarnau-Llobet

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4625518/publications.pdf>

Version: 2024-02-01

45
papers

2,014
citations

304743

22
h-index

315739

38
g-index

45
all docs

45
docs citations

45
times ranked

1155
citing authors

#	ARTICLE	IF	CITATIONS
1	Entanglement Generation is Not Necessary for Optimal Work Extraction. <i>Physical Review Letters</i> , 2013, 111, 240401.	7.8	191
2	Markovian master equations for quantum thermal machines: local versus global approach. <i>New Journal of Physics</i> , 2017, 19, 123037.	2.9	187
3	Extractable Work from Correlations. <i>Physical Review X</i> , 2015, 5, .	8.9	143
4	No-Go Theorem for the Characterization of Work Fluctuations in Coherent Quantum Systems. <i>Physical Review Letters</i> , 2017, 118, 070601.	7.8	126
5	Autonomous quantum refrigerator in a circuit QED architecture based on a Josephson junction. <i>Physical Review B</i> , 2016, 94, .	3.2	95
6	Optimal Cycles for Low-Dissipation Heat Engines. <i>Physical Review Letters</i> , 2020, 124, 110606.	7.8	89
7	Strong Coupling Corrections in Quantum Thermodynamics. <i>Physical Review Letters</i> , 2018, 120, 120602.	7.8	84
8	Quantum Thermal Machine as a Thermometer. <i>Physical Review Letters</i> , 2017, 119, 090603.	7.8	78
9	Thermodynamic cost of creating correlations. <i>New Journal of Physics</i> , 2015, 17, 065008.	2.9	68
10	Thermodynamic length in open quantum systems. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 3, 197.	0.0	68
11	Work Fluctuations in Slow Processes: Quantum Signatures and Optimal Control. <i>Physical Review Letters</i> , 2019, 123, 230603.	7.8	67
12	Enhancement of low-temperature thermometry by strong coupling. <i>Physical Review A</i> , 2017, 96, .	2.5	64
13	Thermodynamic Uncertainty Relation in Slowly Driven Quantum Heat Engines. <i>Physical Review Letters</i> , 2021, 126, 210603.	7.8	54
14	Differential Evolution for Many-Particle Adaptive Quantum Metrology. <i>Physical Review Letters</i> , 2013, 110, 220501.	7.8	53
15	Geometric Optimisation of Quantum Thermodynamic Processes. <i>Entropy</i> , 2020, 22, 1076.	2.2	53
16	Entropy vector formalism and the structure of multidimensional entanglement in multipartite systems. <i>Physical Review A</i> , 2013, 88, .	2.5	52
17	Thermodynamics of creating correlations: Limitations and optimal protocols. <i>Physical Review E</i> , 2015, 91, 032118.	2.1	48
18	Quantum work statistics close to equilibrium. <i>Physical Review Research</i> , 2020, 2, .	3.6	44

#	ARTICLE	IF	CITATIONS
19	Adding dynamical generators in quantum master equations. <i>Physical Review A</i> , 2018, 97, .	2.5	41
20	Most energetic passive states. <i>Physical Review E</i> , 2015, 92, 042147.	2.1	38
21	Quantum Speed-Up in Collisional Battery Charging. <i>Physical Review Letters</i> , 2021, 127, 100601.	7.8	37
22	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
23	Work and entropy production in generalised Gibbs ensembles. <i>New Journal of Physics</i> , 2016, 18, 123035.	2.9	33
24	Energetics of correlations in interacting systems. <i>Physical Review E</i> , 2016, 93, 042135.	2.1	26
25	Optimal Quantum Thermometry with Coarse-Grained Measurements. <i>PRX Quantum</i> , 2021, 2, .	9.2	22
26	Locality of temperature in spin chains. <i>New Journal of Physics</i> , 2015, 17, 085007.	2.9	20
27	Collective operations can extremely reduce work fluctuations. <i>New Journal of Physics</i> , 2019, 21, 083023.	2.9	19
28	Imperfect Thermalizations Allow for Optimal Thermodynamic Processes. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 3, 153.	0.0	19
29	Geometric Optimization of Nonequilibrium Adiabatic Thermal Machines and Implementation in a Qubit System. <i>PRX Quantum</i> , 2022, 3, .	9.2	18
30	Simultaneous measurement of two noncommuting quantum variables: Solution of a dynamical model. <i>Physical Review A</i> , 2017, 95, .	2.5	17
31	Experimentally reducing the quantum measurement back action in work distributions by a collective measurement. <i>Science Advances</i> , 2019, 5, eaav4944.	10.3	15
32	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
33	Fundamental Limits in Bayesian Thermometry and Attainability via Adaptive Strategies. <i>Physical Review Letters</i> , 2022, 128, 130502.	7.8	14
34	Minimizing Backaction through Entangled Measurements. <i>Physical Review Letters</i> , 2020, 125, 210401.	7.8	12
35	Joint statistics of work and entropy production along quantum trajectories. <i>Physical Review E</i> , 2021, 103, 052138.	2.1	12
36	Experimental Verification of the Work Fluctuation-Dissipation Relation for Information-to-Work Conversion. <i>Physical Review Letters</i> , 2022, 128, 040602.	7.8	12

#	ARTICLE	IF	CITATIONS
37	Thermodynamics and optimal protocols of multidimensional quadratic Brownian systems. Journal of Physics Communications, 0, , .	1.2	11
38	Contributions from populations and coherences in non-equilibrium entropy production. New Journal of Physics, 2021, 23, 063027.	2.9	9
39	Fluctuating Work in Coherent Quantum Systems: Proposals and Limitations. Fundamental Theories of Physics, 2018, , 275-300.	0.3	9
40	Bayesian quantum thermometry based on thermodynamic length. Physical Review A, 2022, 105, .	2.5	9
41	Lectures on dynamical models for quantum measurements. International Journal of Modern Physics B, 2014, 28, 1430014.	2.0	3
42	Lectures on Dynamical Models for Quantum Measurements. , 2014, , 307-347.		2
43	Quantum signatures in fluctuation theorems. , 0, 3, 13.		2
44	Dynamics of quantum measurements employing two Curie-Weiss apparatuses. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160386.	3.4	0
45	Optimal Heat-Bath Algorithmic Cooling. , 0, 3, 25.		0