

[List of Publications](#) [[arXiv](#)] [[Google Scholar](#)]

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- [19] K. V. Hovhannisyanyan, F. Barra, and A. Imparato, “Charging by thermalization”, [arXiv:2001.07696 \[quant-ph\]](#).
- [18] K. V. Hovhannisyanyan and A. Imparato, “Quantum current in dissipative systems”, [New J. Phys.](#) **21**, 052001 (2019).
- [17] K. V. Hovhannisyanyan and L. A. Correa, “Measuring the temperature of cold many-body quantum systems”, [Phys. Rev. B](#) **98**, 045101 (2018).
- [16] A. Pozas-Kerstjens, E. G. Brown, and K. V. Hovhannisyanyan, “A quantum Otto engine with finite heat baths: energy, correlations, and degradation”, [New J. Phys.](#) **20**, 043034 (2018).
- [15] M. Perarnau-Llobet, E. Bäumer, K. V. Hovhannisyanyan, M. Huber, and A. Acín, “No-Go Theorem for the Characterization of Work Fluctuations in Coherent Quantum Systems”, [Phys. Rev. Lett.](#) **118**, 070601 (2017).
- [14] L. A. Correa, M. Perarnau-Llobet, K. V. Hovhannisyanyan, S. Hernández-Santana, M. Mehboudi, and A. Sanpera, “Enhancement of low-temperature thermometry by strong coupling”, [Phys. Rev. A](#) **96**, 062103 (2017).
- [13] M. Perarnau-Llobet, K. V. Hovhannisyanyan, M. Huber, P. Skrzypczyk, N. Brunner, and A. Acín, “Extractable Work from Correlations”, [Phys. Rev. X](#) **5**, 041011 (2015).
- [12] M. Perarnau-Llobet, K. V. Hovhannisyanyan, M. Huber, P. Skrzypczyk, J. Tura, and A. Acín, “Most energetic passive states”, [Phys. Rev. E](#) **92**, 042147 (2015).
- [11] S. Hernández-Santana, A. Riera, K. V. Hovhannisyanyan, M. Perarnau-Llobet, L. Tagliacozzo, and A. Acín, “Locality of temperature in spin chains”, [New J. Phys.](#) **17**, 085007 (2015).
- [10] D. E. Bruschi, M. Perarnau-Llobet, N. Friis, K. V. Hovhannisyanyan, and M. Huber, “Thermodynamics of creating correlations: Limitations and optimal protocols”, [Phys. Rev. E](#) **91**, 032118 (2015).
- [9] M. Huber, M. Perarnau-Llobet, K. V. Hovhannisyanyan, P. Skrzypczyk, C. Klöckl, N. Brunner, and A. Acín, “Thermodynamic cost of creating correlations”, [New J. Phys.](#) **17**, 065008 (2015).
- [8] K. V. Hovhannisyanyan, M. Perarnau-Llobet, M. Huber, and A. Acín, “Entanglement Generation is Not Necessary for Optimal Work Extraction”, [Phys. Rev. Lett.](#) **111**, 240401 (2013).
- [7] A. E. Allahverdyan, K. V. Hovhannisyanyan, A. V. Melkikh, and S. G. Gevorkyan, “Carnot Cycle at Finite Power: Attainability of Maximal Efficiency”, [Phys. Rev. Lett.](#) **111**, 050601 (2013).
- [6] A. E. Allahverdyan, K. V. Hovhannisyanyan, and G. Mahler, “Comment on “Cooling by Heating: Refrigeration Powered by Photons””, [Phys. Rev. Lett.](#) **109**, 248903 (2012).
- [5] A. E. Allahverdyan, K. V. Hovhannisyanyan, D. Janzing, and G. Mahler, “Thermodynamic limits of dynamic cooling”, [Phys. Rev. E](#) **84**, 041109 (2011).
- [4] A. E. Allahverdyan and K. V. Hovhannisyanyan, “Work extraction from microcanonical bath”, [EPL](#) **95**, 60004 (2011).
- [3] K. V. Hovhannisyanyan and A. E. Allahverdyan, “Thermodynamics of enhanced heat transfer: a model study”, [J. Stat. Mech.](#) **2010**, P06010 (2010).
- [2] A. E. Allahverdyan, K. V. Hovhannisyanyan, and G. Mahler, “Optimal refrigerator”, [Phys. Rev. E](#) **81**, 051129 (2010).
- [1] A. E. Allahverdyan and K. V. Hovhannisyanyan, “Transferring elements of a density matrix”, [Phys. Rev. A](#) **81**, 012312 (2010).