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Collana	Springer Theses
Disciplina	536.7
Soggetti	Thermodynamics Quantum theory Optomechanics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Thermodynamics of Open Quantum Systems -- Average Thermodynamics of Hybrid Optomechanical Systems -- Stochastic Thermodynamics of Hybrid Optomechanical Systems -- Optomechanical Energy Conversion -- Coherent Quantum Engine -- Conclusion -- Appendix.
Sommario/riassunto	This thesis demonstrates the potential of two platforms to explore experimentally the emerging field of quantum thermodynamics that has remained mostly theoretical so far. It proposes methods to define and measure work in the quantum regime. The most important part of the thesis focuses on hybrid optomechanical devices, evidencing that they are proper candidates to measure directly the fluctuations of work and the corresponding fluctuation theorem. Such devices could also give rise to the observation of mechanical lasing and cooling, based on mechanisms similar to a heat engine. The final part of the thesis studies how quantum coherence can improve work extraction in superconducting circuits. All the proposals greatly clarify the concept of work since they are based on measurable quantities in state of the art devices.

2. Record Nr.	UNISALENTO991004299137207536
Titolo	Chiamateci compagni : cronache della Rifondazione comunista / a cura di Ritanna Armeni e Vichi De Marchi
ISBN	8826700265
Descrizione fisica	116 p. ; 21 cm
Altri autori (Persone)	Armeni, Ritanna De Marchi, Vichi
Disciplina	324.245075
Soggetti	Partito della Rifondazione comunista Italia
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