Special Issue

New Trends on Quantum Batteries and Energetics in the Quantum Regime, 2nd Edition

Message from the Guest Editor

In the realm of quantum batteries, a variety of theoretical models have been proposed to characterize systems that harness uniquely quantum properties to surpass classical limits in energy storage, charging power, and work extraction. These studies mark a significant change of paradigm in the approach to energy storage and transfer, moving beyond the electrochemical principles of the 18th and 19th centuries. Despite notable progress, much of the potential in this field remains largely unexplored. This Special Issue aims to present new theoretical and experimental advancement on quantum batteries. By bringing together these recent innovations, we hope to establish a shared foundation that will support and inspire future developments in the field of quantum energy manipulation.

Guest Editor

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