

Neuromorphic computing approaches become increasingly important as we address future needs for efficiently processing massive amounts of data. The unique attributes ...

Quantum materials as a platform for energy conversion and storage The scientific mission of the Nanochemistry Department at the Max Planck Institute for Solid ...

Lithographically fabricated micrometre-scale superconducting circuits exhibit behaviour analogues to natural quantum entities, such as atom, ions and photons. Large-scale ...

Let's face it - traditional energy storage is about as exciting as watching paint dry. Enter large-capacity quantum energy storage chips, the rock stars of the energy world. These ...

Information to energy The importance of quantum technologies and their impact on scientific research and society are growing at an impressive pace. As the 20th century technology has ...

forded through the science of quantum information. Now there is a deep connection between information and energy, and so one may envisage adopting these quantum advantages in an ...

Quantum confinement enhances the energy of a particle, which depends on excitonic processes and can dramatically change the optical properties of a QDs. Magnetic ...

Advancing electrocatalysis for sustainable energy applications requires an insightful understanding of quantum-level phenomena that govern the catalyst functionality. This ...

In this work, we utilize a multimode approach to characterizing energy losses in superconducting quantum circuits, with the goals of predicting device performance and ...

Antiferromagnetic spintronics is an emerging field that leverages the unique properties of antiferromagnets to create ultra-compact and energy-efficient ...

Researchers demonstrate optical weights for in-memory photonic computing using magneto-optic memory cells comprising Ce:YIG on silicon micro-ring resonators. Non ...

How does a quantum chip work? The quantum chip is mounted on the bottom and is controlled via microwave signals sent through superconducting wires. The full promise of intermittent ...

This Review summarizes and discusses developments on the use of spintronic devices for energy-efficient

data storage and logic applications, and energy harvesting based ...

One way to reduce energy consumption in artificial neurons and other approaches to brain-inspired computing is to exploit the pronounced non-linear properties of ...

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