
Superconducting supercapacitor energy storage

Superconducting flux memory devices fabricated with nanoscale junctions and high-inductance materials can maintain high-speed access performance while significantly ...

For such a highly homogeneous field superconducting magnet design, an appropriate optimization strategy is essential to guarantee the magnetic field homogeneity in ...

This marks the inaugural demonstration of a superconducting in-memory computing architecture through memristor coupling, offering a promising hardware platform for ...

This paper reports the research status of UHF superconducting magnets in China from different perspectives, including design options, technical features, experimental ...

SUPPORTS OPEN ACCESS Superconductor Science and Technology is a truly multidisciplinary journal providing an essential forum for members of the superconductivity research community.

The degree to which the superconducting state is disrupted depends on the density of broken Cooper pairs, as this determines the reduction in the local superconducting ...

In this work we review the recent advances on superconducting phenomena in junctions formed by superconductors and unconventional magnets (UM). Conventional ...

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