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# Superconducting energy storage device structure

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

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

Superconducting thin films with high kinetic inductance are key to produce high-impedance circuits with low losses, a very relevant feature required in high-coherence ...

Superconducting materials hold great potential in high field magnetic applications compared to traditional conductive materials. At present, practical superconducting materials include low ...

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

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

4. Superconducting temperature and search for room-temperature superconductivity 4.1. Upper limit to  $T_c$  We now discuss the implications of the upper bound of ...

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