

Superconducting energy storage and flywheel energy storage





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[Superconducting phenomena in systems with ...](#)

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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[Progress of ultra-high-field superconducting magnets in China](#)

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

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[Nanoscale NbN/TaN/NbN Josephson junctions for ...](#)

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



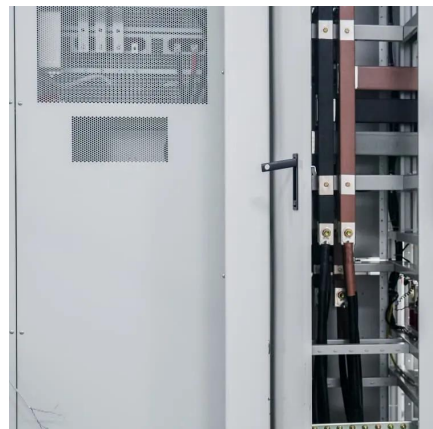
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[Review of the Research Status of Practical Superconducting ...](#)

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

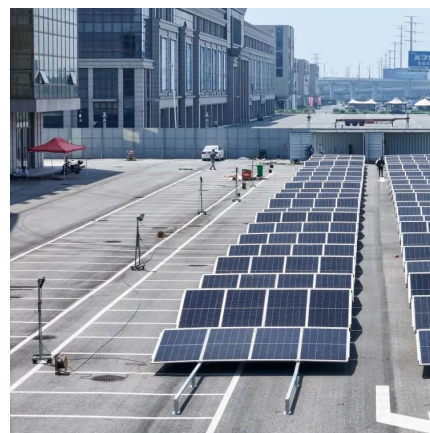
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[Superconducting in-memory computing architecture ...](#)

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

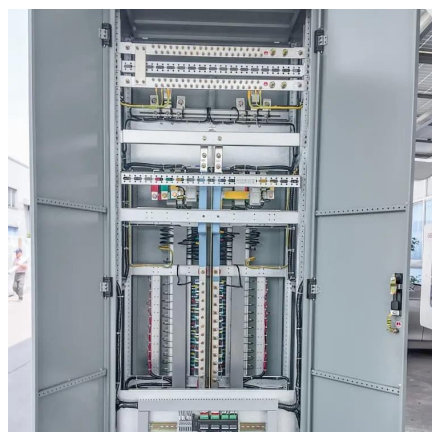
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[Superconducting nitridized-aluminum thin films](#)

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 ...

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[Waveguide integrated superconducting nanowire single ...](#)

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 ...

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[Upper bounds on the highest phonon frequency and ...](#)

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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