

MAGNETOCALORIC ENERGY CONVERSION%0A

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The magnetocaloric energy conversion represents an alternative to compressor based refrigerators and heat pumps. It is a serious alternative to power generation with low enthalpy heat sources. This green technology offers an opportunity to use environmentally friendly solid refrigerants and the potentially high energy efficiency follows the trends of future energy conversion devices. This book

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[Magnetic refrigeration - Wikipedia](#)

Magnetic refrigeration is a cooling technology based on the magnetocaloric effect. This technique can be used to attain extremely low temperatures, as well as the ranges used in common refrigerators.

[Electrocaloric vs. magnetocaloric energy conversion ...](#)

Since the electrocaloric and magnetocaloric effects of currently known materials are, in general, too modest to be used directly in a real device, a heat-regeneration process

must be applied in order to increase the temperature span of the device.

[Magnetocaloric Measurements: From Energy Efficient ...](#)

energy efficiency of temperature control systems, the magnetocaloric effect can be used to gain fundamental insight into the characteristics of magnetic phase transitions. This article will discuss magnetometry measurements of relevant magnetocaloric materials and the resultant

[Magnetocaloric Refrigerator/Freezer | Department of Energy](#)

The refrigerator will be designed to use the magnetocaloric (MCE) effect rather than a conventional vapor compression cycle and thus reduce greenhouse gas emissions by eliminating the use of high-global-warming-potential refrigerants. Refrigeration technologies based on MCE are fluorocarbon-free and offer potential energy savings of 20%–30% over conventional vapor compression systems.

[The Thermodynamics of Magnetocaloric Energy Conversion ...](#)

Abstract. Magnetocaloric energy conversion is a technology based on the exploitation of the magnetocaloric effect (MCE). The MCE is a physical phenomenon that occurs in magnetic materials under the influence of a varying magnetic field.

[Integration of a magnetocaloric heat pump in an energy ...](#)

Room temperature magnetocaloric cooling is more environmental friendly but not yet more energy efficient than the state-of-the-art vapor compression technology. In this paper, we provide one more

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The magnetocaloric energy conversion represents an alternative to compressor-based refrigerators and heat pumps. It is a serious alternative to power generation with low enthalpy heat sources. This green technology offers an opportunity to use environmentally friendly solid refrigerants, and the potentially high energy efficiency follows the trends of future energy conversion devices. This

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Provides the latest research on magnetocaloric energy conversion Introduces potential solutions to engineering problems in magnetocalorics and to alternative technologies of solid state energy conversion Facilitates

the understanding, design and construction of future magnetocaloric energy