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## **Review Of Magnetocaloric Effect In**

The magnetocaloric effect. The magnetocaloric effect (MCE, from magnet and calorie) is a magneto-thermodynamic phenomenon in which a temperature change of a suitable

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material is caused by exposing the material to a changing magnetic field. This is also known by low temperature physicists as adiabatic demagnetization. In that part of the refrigeration process, a decrease in the strength of an ...

## **Magnetic refrigeration - Wikipedia**

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Physical Review 74, 479-488. ...

Refrigeration can be based on the Peltier effect but also on the magnetocaloric effect. For a century it has been known that as an external magnetic field is applied to a magnetic material under adiabatic conditions the initial temperature of the material may change due to the magnetocaloric effect.

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## **Peltier Effect - an overview | ScienceDirect Topics**

MnCoGe-based compounds have been increasingly studied due to their possible large magnetocaloric effect correlated to the magnetostructural coupling. In this research, a comprehensive study of structure, magnetic phase transition,



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magnetocaloric effect and thermomechanical properties for  $\text{MnCoGe}_{1-x}\text{Six}$  is reported. Room temperature X-ray diffraction indicates that the  $\text{MnCoGe}_{1-x}\text{Six}$  ( $x = 0, 0 \dots$

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Magnetocaloric effect (MCE) analysis software . Offered in a free beta trial version, this software package allows Lake Shore 7300/7400 Series VSM users to more easily analyze candidate materials for magnetocaloric effect (MCE) behavior by calculating the magnetic entropy change and refrigerant capacity of the materials.

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**Software | Lake Shore Cryotronics,  
Inc.**

Competing magnetic interactions and magnetoresistance anomalies in cubic intermetallic compounds, Gd<sub>4</sub>RhAl and Tb<sub>4</sub>RhAl, and enhanced magnetocaloric effect for the Tb case Ram Kumar, Kartik K. Iyer, P. L. Paulose, and E. V.

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Sampathkumaran Phys. Rev. Materials 5,  
054407 (2021) - Published 14 May 2021  
Show Abstract

## **Physical Review Materials - Volume 5 Issue 5**

Magnetostriction (cf. electrostriction) is a property of magnetic materials that causes them to change their shape or

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dimensions during the process of magnetization. The variation of materials' magnetization due to the applied magnetic field changes the magnetostrictive strain until reaching its saturation value,  $\lambda$ . The effect was first identified in 1842 by James Joule when observing a sample ...

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## **Magnetostriction - Wikipedia**

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apply to the journal pertain.

## **Materials Letters | ScienceDirect.com by Elsevier**

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Journal - Elsevier**



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This highly acclaimed journal publishes peer-reviewed original papers, conference proceedings and invited review articles examining all aspects of the science and technology of superconductivity, including new materials, new mechanisms, basic and technological properties, new phenomena, and small- and large-scale

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## **Journal of Superconductivity and Novel Magnetism | Home**

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Rare-earth element, any member of the group of chemical elements consisting of three elements in Group 3 (scandium [Sc], yttrium [Y], and lanthanum [La]) and the first extended row of elements below the main body of the periodic table (cerium [Ce] through lutetium [Lu]). The elements cerium through lutetium are called the lanthanides, but

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many scientists also, though incorrectly, call those ...

## **rare-earth element | Uses, Properties, & Facts | Britannica**

Rare-earth element - Rare-earth element  
- Processing ores: All rare-earth ores contain less than 10 percent REO and must be upgraded to about 60 percent

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in order to be processed further. They are first ground to a powder and then separated from the other materials in the ore body by various standard processes that include magnetic and/or electrostatic separation and flotation.

**Rare-earth element - Processing  
ores | Britannica**

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The minimum achievable temperature (at zero field) in the PPMS is readily extended down to 100 mK with the ADR. Using the PPMS magnet to leverage the magnetocaloric effect in paramagnetic salt cools samples to 100 mK, and electrical transport properties can be measured as the temperature drifts back up to the nominal PPMS base.

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## **Quantum Design North America - Products - Physical ...**

In article number 2009692, Yongfeng Liu, Hongge Pan, and co-workers report a LLZTO composite with a unique amorphous dual coating: LiBO<sub>2</sub> as the inner layer and LiBH<sub>4</sub> as the outer layer. The LiBO<sub>2</sub> inner layer prevents further



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reaction between LiBH<sub>4</sub> and LLZTO and stabilizes the LiBH<sub>4</sub> outer layer. The LiBH<sub>4</sub> outer layer plays a key role in filling the gap while cold pressing the composite ...

## **Advanced Functional Materials: Vol 31, No 15**

In this study we focus on the large

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anomalous Hall effect resulting from such interplay. ... magnetocrystalline anisotropy, and magnetocaloric effect in the ... to the peer review of this work ...

## **Gate-tunable room-temperature ferromagnetism in two ...**

A comprehensive study on features for atomic potential energy surfaces can be

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found in the review of Bartó et al. 100.  
Important points mentioned in their work  
are: (i) the performance of the ...

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