



Magnetocaloric Effect: Theory, Materials and Applications

Guest Editor:

Prof. Dr. Joan-Josep Suñol

Composite Campus- Materials
and Thermodynamics labs,
University of Girona, 17003
Girona, Spain

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Message from the Guest Editor

Dear Colleagues,

The magnetocaloric effect (MCE) is due to the temperature change provoked by the application of a magnetic field. In this special chapter, the articles should improve:

1. theoretical scientific knowledge (thermodynamics, magnetism)
2. simulation studies (ab initio, Montecarlo)
3. materials with high functional properties
4. applications studies and development/simulation of specific devices (actuators, sensors, energy). As an example, magnetic refrigeration technology has brought an eco-friendly alternative to the conventional gas compression (CGC) technique.

This special issue is open to new ideas and approaches, as well to review articles.

Dr. Joan-Josep Suñol Martinez

Guest Editor





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Editor-in-Chief

**Prof. Dr. Carlos J. Gómez
García**

Department of Inorganic
Chemistry, Faculty of Chemistry,
University of Valencia, C/Dr.
Moliner 50, 46100 Burjasot, Spain

Message from the Editor-in-Chief

Magnetochemistry constitutes a multidisciplinary field where chemists and physicists not only study magnetic properties but also design and synthesize chemical compounds with desired magnetic properties. *Magnetochemistry* is inviting contributions in any field related with this area, such as theoretical models, crystal engineering, molecular magnetism, SMM, SIM, SCM, SCO, magnetic nanostructures, magnetic MOFs, magnetic recording, qubits, magneto-caloric materials, etc. Our goal is to share your contribution in a timely fashion and in a manner that will be valued by the scientific community.

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Magnetochemistry Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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