



Magnetocaloric Effect: Theory, Materials and Applications

Guest Editor:

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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

