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Thermodynamics and Phase Transitions in Magnetic Materials

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Message from the Guest Editors

Several interesting and useful phenomena take place around magnetic phase transitions. For example, magnetic shape memory due to magnetostructural coupling in martensites may be exploited in sensors and actuators, large entropy and temperature changes in magnetocaloric materials may be used for heat pumping and power conversion, permanent magnets and superconductors are extensively utilized in several applications, from generators to laboratory devices to MRIs, etc.

In this issue, we would specially like to address the thermodynamic description of magnetic phase transitions which give rise to a variety of phenomena. Additionally, within the scope of this Special Issue are the design of novel thermomagnetic cycles and simulation of materials functional properties for, e.g., magnetic refrigeration.

Deadline for manuscript submissions:
closed (25 August 2021)

mdpi.com/si/53070

Special Issue

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Message from the Editor-in-Chief

The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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