Special Issue

Thermodynamics and Phase Transitions in Magnetic Materials

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.

Guest Editors

Prof. Dr. Luana Caron

Dr. Francesco Cugini

Dr. Xuefei Miao

Deadline for manuscript submissions

closed (25 August 2021)

Entropy

an Open Access Journal by MDPI

Impact Factor 2.0
CiteScore 5.2
Indexed in PubMed

mdpi.com/si/53070

Entropy
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
entropy@mdpi.com

mdpi.com/journal/entropy

Entropy

an Open Access Journal by MDPI

Impact Factor 2.0
CiteScore 5.2
Indexed in PubMed

mdpi.com/journal/entropy

About the Journal

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.

Entropy is an online open access journal providing an advanced forum for the development and/or application of entropic and information-theoretic studies in a wide variety of applications. *Entropy* is inviting innovative and insightful contributions. Please consider *Entropy* as an exceptional home for your manuscript.

Editor-in-Chief

Prof. Dr. Kevin H. Knuth
Department of Physics, University at Albany, 1400 Washington Avenue, Albany, NY 12222, USA

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, PubMed, PMC, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Physics, Multidisciplinary) / CiteScore - Q1 (Mathematical Physics)

MDPI