



Modern Magnetic Systems: Theory and Experiment in Concert

Guest Editor:

Dr. Karol Szałowski

University of Lodz, Faculty of
Physics and Applied Informatics,
Department of Solid State
Physics, PL90-236 Łódź, Poland

Deadline for manuscript
submissions:

closed (31 December 2021)

Message from the Guest Editor

Dear Colleagues,

Technological development relies on novel magnetic materials, the design and characterization of which constitutes a highly challenging task for the contemporary magnetochemistry community and condensed matter scientists. The aim of this Special Issue is to collect works deepening our knowledge on modern magnetic materials. The scope of this issue includes but is not limited to the following theoretical and experimental topics: the theory of modern magnetic systems; contemporary models useful for their description, understanding, and prediction of the properties; relevant computational methods in the field of magnetism; and experimental approaches and techniques for characterization of modern magnetic materials. Papers focused on either theoretical or experimental results are welcome, whereas studies combining both approaches would be especially valuable.

Keywords

- Theory of magnetic systems
- Thermodynamics of magnets
- Models of magnetism
- Experimental methods in magnetism
- Molecular magnetism
- Single-molecule magnets
- Metal–organic frameworks
- Magnetic nanostructures

