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Magnetic Materials and Superconductors: Topics and Advances

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Magnetism and superconductivity are among the most studied phenomena in the theory of correlated electronic systems and simultaneously are the basis for numerous important materials of modern technology.

More recently, topologically non-trivial and low-dimensional magnets with interesting symmetry properties and possible applications in nanoscale spintronics devices, as well as high-temperature superconductors based on both conventional and unconventional coupling mechanisms, have been attracting a lot of attention.

The goal of the present Special Issue is to highlight recent advances in research on magnetic and superconducting materials, that are interesting from the fundamental and practical points of view. Both original research and review articles are invited.



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Special Issue



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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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