



materials



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Multifunctional Magnetic Materials: Design, Synthesis, and Physical Studies

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Deadline for manuscript submissions:

closed (20 September 2023)

Message from the Guest Editors

Magnetic materials of potential technological interest are at the center of this research topic. Magnetic nanomaterials have intrigued the scientific community for many years because of their unique and promising properties in almost every field of science and technology. Modern technology is largely equipped with magnetic materials, and with the advancement of nanotechnology, research in the field of magnetism has reached new heights.

We are seeking papers on multifunctional magnetic materials to address phenomena such as the relationship between macroscopic and microscopic properties of functional and size-controlled magnetic materials, starting at the nanoscale level; the correlation between macroscopic physical properties and the microscopic electronic structure of mixed oxides, quantum and collective phenomena at low temperatures on magnets with different size scales; as well as the thermal, magnetic and optical properties of molecular magnets and intermetallics with high magneto-caloric effect. The issue will include studies on a great variety of magnetic materials, as well as the magnetism of systems at different size scales.



mdpi.com/si/159252

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Message from the Editor-in-Chief

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