



Synthesis and Characterization of Functional Nanomagnetic Materials

Guest Editor:

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Message from the Guest Editor

The functionalization of nanoscale materials (thin films, rods, wires, particles, etc.) using several approaches, including doping, composites, microstructural controls, etc., has opened a way to modulate their properties for applicability in the desired applications. In particular, the modulated magnetic properties and structural flexibility of functional nanomaterials promote their vast chemical, physical, and biological applications.

This Special Issue will allow researchers working in different fields related to the synthesis and characterization of functional nanomagnetic materials to submit manuscripts, in the form of review papers, full articles, and short communications.

In particular, the topics of interest include but are not limited to:

- Synthesis of functionalized 0D, 1D, and 2D nanoscale magnetic materials;
- Structural and morphological characterization of functional nanomagnetic materials;
- Physical and chemical properties of functional nanomagnetic materials;
- Application of functional nanomagnetic materials in various fields;
- Prospects of functional nanomagnetic materials;
- Process-dependent properties of functional nanomagnetic materials.





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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

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