



Magnetic Materials and Thin Films

Guest Editor:

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submissions:

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Message from the Guest Editor

We would like to invite you to submit your work to this Special Issue on "Magnetic Materials and Thin Films". Magnetic materials have dominated a significant part of condensed matter research efforts around the world for several decades. Traditionally, materials hosting 3d orbitals have governed the most attention. Recently, materials with 4d and 5d transition metal ions have started to gain tremendous scientific interest, since exotic quantum phenomena induced by chemical doping or external pressure are theoretically predicted. This opens up a new avenue for possible applicability. Therefore, thin film growth of magnetic materials and studies of fundamental properties, for example, magnetocrystalline anisotropy, are very important for future spintronic applications.

The aim of this Special Issue is to present the latest experimental and theoretical developments in the field of magnetic material and thin films. In particular, the topics of interest include but are not limited to:

- Magnetic materials;
- Thin films and interfaces;
- Magnetic anisotropy;
- Magnetoelectric coupling.





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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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