Special Issue

Recent Advances in Nanomagnetism

Message from the Guest Editor

Nanomagnetism covers a broad range of research in magnetism and magnetic properties of low-dimensional systems, including both experimental methods in sample fabrication and characterization, as well as theoretical modeling and simulations. Size limitations in one, two, and three dimensions have led to a number of technologically important developments, having an extensive range of applications in sensors and activators, notably in the magnetic recording industry and spintronic devices and more recently in biomedical applications. Traditionally patterned nanostructures have been planar arrays of nanomagnets, though recent trends have shown how this can be extended to three-dimensional structures where more complex magnetic configurations are possible and give rise to unprecedented magnetic properties. This Special Issue aims at publishing a collection of research contributions in all aspects of nanomagnetism. **Keywords**

- Nanomagnetism
- Thin-films and magnetic multilayers
- Nanoparticles and core–shell structures
- Magnetic nanostructures
- Skyrmions
- Superparamagnetism
- Artificial spin–ice structures
- Spintronics
- Magnetization dynamics in nanostructures

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Message from the Editor-in-Chief

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