

Special Issue

Advances in Molecular Magnetic Materials

Message from the Guest Editor

Molecular magnetism is a young, interdisciplinary, and intensively developed research area. This Special Issue will cover recent progress and novel trends in the field of molecular magnetism. Its aim is to collect several high-quality papers (full papers, communications or reviews) presenting the advances in synthesis, physicochemical characterization, as well as applications of magnetic molecular materials. In particular, the topics of interest include but are not limited to:

- Novel functionalities of molecular magnets: photomagnetism, magnetization-induced second-harmonic generation, humidity-sensitive magnetism;
- Spin switching molecular compounds: spin-crossover (SCO);
- Slow relaxation in molecular materials: single-molecule magnets (SMM) and single-chain magnets (SCM);
- Synthesis and characterization of molecular materials of reduced dimensionality: thin films and nanoparticles;
- Design and properties of molecule-based magnetic coolers;
- Molecular nanomagnets for future applications: molecular spintronics, quantum information processing and information technologies.

Guest Editor

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Deadline for manuscript submissions

closed (15 December 2020)



Materials

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Impact Factor 3.2
CiteScore 6.4
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About the Journal

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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