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Stimuli-Responsive Magnetic Molecular Materials

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Deadline for manuscript submissions:

closed (30 June 2021)

Message from the Guest Editors

Dear colleagues,

This Special Issue aims to provide a valuable forum where scientists in different fields will be able to share their most recent novel findings on the control and manipulation of physically and practically important properties of molecule-based materials.

Topics to be covered include but are not limited to:

- Molecule-based magnets: magnetoelectric effect, electric field control of spin states and magnetic exchange coupling in molecule-based magnetic materials, mixed valence systems, etc., in spin communication;
- Temperature- and pressure-induced spin-crossover (SCO) phenomenon, valent tautomerism, lightinduced excited spin state trapping (LIESST);
- Light-responsive magnetic molecules: single-molecule magnets, single-chain magnets, and chiral magnets, optical switching at molecular level and photoinduced charge transfer;
- Photoswitching, photomagnetic effect, photomagnetic chromophores, photoinduced charge transfer, light-induced changes in spin state and structure;
- Applications of stimuli-responsive magnetic molecular materials in molecular electronics, spintronics, and quantum computing;
- Stimuli-responsive magnetic particles in biomedical applications.

