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Multiferroic Materials 2021

Guest Editor:

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Deadline for manuscript submissions:
closed (31 December 2021)

Message from the Guest Editor

Dear Colleagues,

In recent years, research in multiferroic materials has resulted in significant advances and applications by elucidating the fundamental underpinnings of coupling using analytical, computational, and experimental approaches. Multiferroic materials may exhibit intrinsic or extrinsic coupling between strain, electrical, and magnetic energies due to complex interactions between different ferroic-order parameters. Nonetheless, new advances continue to be reported in the synthesis, characterization, modeling, optimization, and reliability of multiferroic materials and devices based on these materials.

This Special Issue of *Magnetochemistry*, entitled "Multiferroic Materials 2021", seeks to attract a trans-disciplinary readership by covering the recent progress in:

- multiscale modeling and simulation;
- multiscale fabrication and characterization;
- synthesis of novel intrinsic and composite materials;
- novel sensing, actuation, and communication devices;
- new coupling mechanisms, including electric, magnetic, mechanical, optical, and thermal;
- in situ, multi-field characterization;
- coupling and switching dynamics.

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Editor-in-Chief

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Message from the Editor-in-Chief

Magnetochemistry constitutes a multidisciplinary field where chemists and physicists not only study magnetic properties but also design and synthesize chemical compounds with desired magnetic properties. *Magnetochemistry* is inviting contributions in any field related with this area, such as theoretical models, crystal engineering, molecular magnetism, SMM, SIM, SCM, SCO, magnetic nanostructures, magnetic MOFs, magnetic recording, qubits, magneto-caloric materials, etc. Our goal is to share your contribution in a timely fashion and in a manner that will be valued by the scientific community.

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