Special Issue

Magnetoelectric Composites and Sensing Applications

Message from the Guest Editor

This Special Issue aims to bring together the latest research results and cutting-edge advances in the design, preparation, characterization, and sensing applications of magnetoelectric composites. The focus is on multi-scale structure modulation, interfacial coupling mechanisms, performance optimization strategies, and their innovative applications in high-sensitivity, low-power, miniaturized, and multifunctional integrated sensors. We welcome original research papers, reviews, and manuscripts presenting forward-looking perspectives on topics including, but not limited to, the following directions:

- Design of new magneto-electric composite materials;
- Magneto-electric coupling mechanism and performance optimization;
- Innovative application scenario expansion;
- Flexible/stretchable magnetoelectric material;
- Biocompatible magneto-electric composites;
- High-sensitivity magnetic sensors;
- Multi-physical field-coupled sensors (magneticelectrical-force-thermal).

Guest Editor

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About the Journal

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.

Editor-in-Chief

Prof. Dr. Carlos J. Gómez García

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