Special Issue

Multiferroic Materials 2021

Message from the Guest Editor

In recent years, research in multiferroic materials has resulted in significant advances and translational 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 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; and
- coupling and switching dynamics.

Guest Editor

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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