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## Advances in Magnetoelectric Multiferroic Materials and Heterostructures: Properties, Techniques and Devices

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### Message from the Guest Editor

The aim here stems from memory applications via multijunction information processing and sensors to quantum mechanically coupled states for quantum information technology. In this context, generally speaking about magnetoelectric and multiferroic materials, magneto-electric coupling can be intrinsically in and also mediated via boundaries in heterostructures, utilizing, for example, magneto-strictive, piezoelectric, and ferroelectric/-magnetic materials. This Special Issue aims at providing comprehensive insight into state-of-the-art as well as topical research within areas such as regarding the fabrication and experimental characterization of those systems, the theoretical understanding of the coupling mechanism at the atomic level, feasibility studies, and device demonstration. Additionally, aspects of the fundamental polarization and spin interaction processes in pure magnetic or ferroelectric materials when related to the coupling mechanism may be discussed.



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## Message from the Editor-in-Chief

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