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Advanced Electroceramics for Energy Conversion, Storage and Harvesting

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Message from the Guest Editors

Advanced electroceramics have attracted a large amount of attention due to their unique and diverse functional properties.

The concept of "processing-structure-property" has played a dominant role in the optimization of functional performance for advanced electroceramics. The crystal structure of inorganic materials can be modified through the appropriate chemical dopants, intrinsically influencing electrical or mechanical performance. Meanwhile, advanced processing techniques with precise control involved during fabrication of electroceramic materials and devices are equally important to deliver a promising performance.

This Special Issue aims to cover all the relevant aspects of advanced electroceramics for piezoelectric, ferroelectric, energy storage, energy harvesting, microwave, ionic conductor, and thermoelectric materials. Additionally,, advanced processing techniques, for example, cold sintering, spark plasma sintering and tape casting, coupled with advanced structural characterizations, for example, synchrotron x-ray diffraction and transmission electron microscopy, will also be covered.











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Message from the Editor-in-Chief

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