

Special Issue

Advanced Electroceramics for Energy Conversion, Storage and Harvesting

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.

Guest Editors

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Deadline for manuscript submissions

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About the Journal

Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

Editor-in-Chief

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