

## Special Issue

# Research Progress of Perovskite Ferroelectric Materials

### Message from the Guest Editors

Ferroelectrics exhibit spontaneous polarization that can be switched with an applied electric field. Polarization switching in ferroelectrics is associated with a hysteresis, which is often observed in non-centrosymmetric crystals. Perovskite  $ABO_3$  type ferroelectrics are technologically robust ferroelectric materials, whose ferroelectric properties are controlled systematically by a suitable substitution of the cations (acceptor and/or donor dopant) on the *A*-site and/or *B*-site in order to innovate materials with improved ferroelectric properties, resulting from strengthening the domain wall mobility and the enhancement of electronic properties. This Special Issue seeks to highlight the role of perovskite (in bulk and in thin films) on crucial ferroelectric properties and to showcase cutting-edge work and applications involving different ferroelectric ordering (ferroelectric, anti-ferroelectric, relaxor ferroelectric etc.).

### 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.

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