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# Advances in Relaxor Ferroelectric Single Crystals, Ceramics and Their Applications

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## Message from the Guest Editors

Relaxor ferroelectric crystals and ceramics attract a great deal of attention in high-performance materials and related devices applications. Massive piezoelectricity is realized by introducing local heterogeneity, engineered domain structure, nanopolar region, ceramic texture, and other methods. All these advances stimulate enhancement in various applications based on relaxor ferroelectric crystals and ceramics, including ultrasonic motors, piezoelectric actuators, energy harvesting, medical sensing, etc. In this Special Issue, the current state of this exciting research field will be presented, covering a wide range of topics, including but not limited to:

- Novel relaxor ferroelectric materials: crystals, ceramics, thin films, and composites;
- Piezoelectric devices: actuators, sensors, transducers, energy harvesters, millirobots, ultrasonic motors, gyrators, transformers;
- Piezoelectric device modelling, design, fabrication, and application;
- New concepts and architectures for piezoelectric and magnetoelectric devices.

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## Editor-in-Chief

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## 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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