Special Issue

Ferroelectric Materials for Energy Harvesting

Message from the Guest Editors

Ferroelectricity refers to a spontaneous polarization, induced by an asymmetric crystal structure, that occurs below the Curie temperature and can be switched using an external electric field. Ferroelectric materials have been studied with increasing intensity over the last few decades. They exhibit a wide spectrum of outstanding properties, including pyroelectricity, ferroelectric photovoltaicity, high nonlinear optical activity, ferroelasticity, and direct and inverse piezoelectricity. Due to this unique combination of different properties, ferroelectrics are attractive for many applications, including energy scavenging. Energy harvesting using ferroelectric materials is an interesting trend that may solve the problem of powering personal electronic devices without batteries. We invite researchers, experimentalists, and theoreticians to contribute to this Special Issue. We encourage the submission of papers that present recent achievements in the fabrication and characterization of different types of energy-scavenging devices.

Guest Editors

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Deadline for manuscript submissions

closed (30 June 2021)

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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.

Editor-in-Chief

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