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Advanced Electronic Ceramics

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closed (30 April 2023)

Message from the Guest Editors

This Special Issue focuses on advances in the field of electronic ceramics. Electronic ceramic materials exhibit a variety of physical properties, namely, dielectric, piezoelectric, ferroelectric, mutliferroic, magnetoelectric, caloric, electrooptic, photovoltaic, magnetic, superconducting, semiconducting, and others. Electronic ceramics can be used in sensors, transducers, actuators, micropumps, energy harvesting devices, energy storage devices, refrigeration devices, and others. In this Special Issue, original and review papers on electronic ceramic materials are very welcome. Some topics are suggested below, although others will be considered:

- Ceramic processing and sintering technologies;
- Ceramic thick and thin films, nano-objects;
- Multilayers and composites;
- Structural, microstructural, electrical and magnetic properties of ceramics;
- Properties of ceramic materials at the nano- and atomic level;
- Functional properties of electronic ceramics; theory, modelling and advanced functional characterization;
- Mechanical and thermal properties of electronic ceramics;
- Active and passive electronic ceramic elements;
- Applications of electronic ceramic materials.

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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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