Special Issue

Ceramic Materials: Structural, Mechanical and Dielectric Properties

Message from the Guest Editors

Recent advances in materials science have enabled the development of high-performance functional materials with diverse applications in electronics (including semiconductors), energy storage, sensors, and communication systems. This Special Issue aims to gather cutting-edge research focused on the design, synthesis (via solid-state or solution-based methods), characterization (XRD, SEM, TGA, Raman, XPS), and applications of advanced dielectric and multifunctional materials. Topics of interest include, but are not limited to, dielectric ceramics, complex oxides, composites, ferroelectric materials, and systems exhibiting non-Debye relaxation behavior. Special emphasis will be placed on studies that highlight the relationships between composition, structure, and properties; the enhancement of material stability and performance; and the use of innovative processing techniques. Contributions based on experimental, theoretical, or computational approaches are welcome, as are studies exploring emerging applications such as 5G technologies, capacitive energy storage, microwave devices, and flexible electronics.

Guest Editors

Dr. Karim Chourti

Department of Chemistry, Laboratory of Molecular Chemistry, Materials and Environment (LCM2E)-The Multidisciplinary Faculty of Nador, University Mohammed Premier, P.B. 300, Selouane, Nador 62700, Morocco

Dr. Ilyas Jalafi

Department of Chemistry, Laboratory of Molecular Chemistry, Materials and Environment (LCM2E)-The Multidisciplinary Faculty of Nador, University Mohammed Premier, P.B. 300, Selouane, Nador 62700, Morocco

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Crystals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
crystals@mdpi.com

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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

Prof. Dr. Alessandra Toncelli
Department of Physics, University of Pisa, 56126 Pisa, PI, Italy

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