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Synthesis, Processing and Characterization of Micro- and Nanostructured Functional Materials for Advanced Applications

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Message from the Guest Editors

Over the last several decades, materials have been critical to the growth, prosperity, security, and quality of life of humans. Since the dawn of time, novel materials have been among the greatest achievements of every age. They have paved the way for new technologies in the fields of civil, chemical, construction, nuclear, aeronautical, agricultural, mechanical, biomedical, and electrical engineering that make use of functional materials such as biomaterials, packaging materials, and flexible electronics. Specifically, advanced materials in which the composition, structure, and surface are functionalized to confer specific, application-oriented properties.

This Special Issue collection will cover some of the latest developments in the synthesis, processing, and characterization of nanostructured functional materials for advanced applications. It will correlate the structure and properties for realistic applications. Ceramics, composites, electronic and optoelectronic materials, amorphous materials, crystalline materials, thin films, and nanostructured materials are examples of such materials.

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Special Issue



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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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