

Special Issue

Sustainable Approach in Synthetic Ceramic Materials

Message from the Guest Editors

Ceramics represent some of the earliest and most environmentally durable materials for engineering. Crystalline ceramics include the traditional silicates and the many oxide and non-oxide compounds that are widely used in both traditional and advanced technologies. A sustainable approach could regard either the raw materials or the processes. First of all, secondary raw materials and other natural and industrial by-products, currently disposed of as waste, can be viewed as a green opportunity in the synthesis of ceramics in order to move towards an industry with a circular economy. Several chemical and thermal methods can be adopted to prepare ceramics (particles or monoliths) by starting from the conventional solid-state process, precipitation, hydrolysis, pyrolysis, hydrothermal methods, or the sol-gel technique. An attractive goal is a green and environmentally friendly approach to the design of the synthesis process. This Special Issue invites original research contributions and reviews dealing with the synthesis, production, and characterization of ceramic materials based on sustainable raw materials and/or processes.

Guest Editors

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About the Journal

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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