

## Special Issue

# Advanced Carbon Nanotube Materials

### Message from the Guest Editors

Carbon nanotubes (CNTs) have become one of the most extensively studied nanomaterials due to their exceptional mechanical, electrical, thermal, and optical properties. Crucial factors such as high aspect ratio, crystallinity, and chirality largely determine their performance in advanced technologies. CNTs can exhibit outstanding charge mobility, thermal conductivity, and mechanical strength—properties that are essential for high-performance applications in energy, electronics, and photonics. This Special Issue aims to highlight recent advances in the synthesis and structural control of CNTs, particularly regarding their integration into energy-related applications. Controlled growth conditions, purification techniques, and post-synthesis treatments enable significant optimization of their structural and functional properties, thus broadening their technological potential. We welcome original research articles, reviews, and communications that address experimental, theoretical, or computational investigations. Contributions focusing on structure–property relationships, innovative processing methods, and application-oriented strategies are especially encouraged.

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### Guest Editors

Dr. José García-Merino

Dr. Praveen Barmavatu

Dr. Jan Macutkevici

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### Deadline for manuscript submissions

15 December 2025



## Crystals

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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.

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### Editor-in-Chief

Prof. Dr. Alessandra Toncelli

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