

Special Issue

Synthesis, Properties and Applications of Carbon Nanotubes

Message from the Guest Editor

Carbon nanotubes are a modern material, with the earliest reports dating back to 1991. They can be prepared using a range of technologies, and the source of carbon may be graphite, carbon monoxide or various hydrocarbons, or some condensed aromates. CNT synthesis faces at least two difficulties. The first problem is the optimization of the conditions of the technology. The second task is the optimum selection of a catalyst. Co-catalysts, too, play an interesting role in the synthesis of CNTs. Catalytically active metals from sources such as minerals and mining wastes are also being explored as alternatives to synthetic catalysts used in the production of carbon nanotubes.

This Special Issue of *Crystals*, on the topic "Synthesis, Properties and Applications of Carbon Nanotubes", aims to summarize the progress achieved in these fields over the past five years. Not only is the progress being made in the use of CNT-based nanocomposites interesting, so too is the progress in our understanding of the morphology and diversity of shapes and structures of carbon nanotubes, depending on the substrate material that supports the catalytically active metal.

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Deadline for manuscript submissions

20 October 2026



Crystals

an Open Access Journal
by MDPI

Impact Factor 2.4
CiteScore 5.0



mdpi.com/si/262603

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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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