# Special Issue

# Recent Advances and Technological Breakthroughs in SWCNTs, MWCNTs, and Mixed Systems

## Message from the Guest Editor

Carbon nanotubes (CNTs) are unique carbon nanomaterials with a hollow tubular structure formed from rolled graphene sheets, which can be classified into single-walled CNTs (SWCNTs) and multi-walled CNTs (MWCNTs). Since their discovery, CNTs have attracted significant attention owing to their remarkable physical, chemical, and electronic properties. These unique characteristics, along with those of CNT-based composites, have enabled their integration into a vast range of technological fields, including electronics, biomedicine, energy storage and conversion, chemical processing, environmental remediation, and catalysis. This Special Issue aims to highlight the latest advances in CNT research, with a particular focus on synthesis methods, characterization approaches, and technological applications of SWCNTs, MWCNTs, and hybrid CNT systems. For this Special Issue, original research articles and reviews are welcome for submission.

## Guest Editor

Dr. Olívia Salomé G. P. Soares

Laboratory of Separation and Reaction Engineering—Laboratory of Catalysis and Materials (LSRE-LCM), Department of Chemical Engineering, Faculty of Engineering, University of Porto, 4200-465 Porto, Portugal

## Deadline for manuscript submissions

20 December 2026

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/252495

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

mdpi.com/journal/nanomaterials

MDPI

# Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/journal/nanomaterials

# About the Journal

## Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

## Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones
School of Geography, Earth and Environmental Science, University of Birmingham, Birmingham B15 2TT, UK

## Author Benefits

**Open Access:**

free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:**

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPlus / SciFinder, Inspec, and other databases.

**Journal Rank:**

JCR - Q2 (Physics, Applied) / CiteScore - Q1 (General Chemical Engineering )

MDPI