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Current State-of-the-Art of SWCNT, MWCNT, and Mixed CNT

Guest Editor:

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Deadline for manuscript submissions:
closed (30 December 2023)

Message from the Guest Editor

Dear Colleagues,

Carbon nanotubes (CNTs) are sp2 nanocarbon materials consisting of rolled-up sheets of single-layer carbon atoms (graphene) and can be classified into single-walled CNTs (SWCNTs) and multi-walled CNTs (MWCNTs). Since their discovery, CNTs have attracted significant research interest due to their outstanding physical, chemical, and electronic properties. The exceptional properties of CNTs and of their composites have allowed their use in a wide range of technological applications, such as electronics, biomedical, energy, chemical, and environmental technologies and catalytic applications.

This Special Issue aims to present recent advances in research regarding synthesis procedures, characterization techniques, and utilization in technological applications of SWCNT, MWCNT, and mixed CNT. For this Special Issue, original research articles and reviews are welcome.

Dr. Olívia S. G. P. Soares
Guest Editor

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Editor-in-Chief

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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.

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