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Functionalized Carbon Nanotubes

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Surface functionalization of carbon nanotubes (CNTs) has proven to be an effective route to improve dispersion and chemical interaction with the matrix, consequently improving the interfacial adhesion and thermophysical, mechanical and electrical properties. The grafting of chemical groups onto CNTs promotes the hierarchical assembly and could introduce new features. The availability of specific functionalization routes enables the use of CNTs in thermal management materials, membranes, sensors, electrodes and energy management.

In this Special Issue, original research papers, as well as reviews, are welcome. The goal is to gather contributions on various aspects related to processing, analyses, industrial applications and modeling approaches. I hope that this Special Issue will provide the scientific community with a thorough overview of the current research on carbon nanotubes and their composites.

Dr. Alfonso Martone

Guest Editor



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Special Issue