



Applications of Carbon Nanotubes

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Message from the Guest Editor

Carbon nanotubes (CNTs) are rolled up sheets of one-atom-thick carbon, also known as graphene, and can therefore be either single walled or multi-walled. Depending on what angle the graphene sheet is rolled at, as well as the diameter of the nanotube, which may also be metallic or semi-conducting in nature. The chemical bonding of the carbon atoms in nanotubes is stronger than that found in diamond, and provides CNTs with immense strength. They also possess excellent electrical and heat conducting properties which have made them the focus of research throughout the worldwide scientific community for the past 25 years. With the amazing properties they display they have found applications in many areas of science and technology including, for example, materials science, energy production and storage, nanotechnology, microscopy, drug delivery and microelectronics. This Special Issue is aimed at presenting the very latest developments in the applications of CNTs by leading research groups in the field. These invited contributions aim to give a state-of-the-art description of the crucial role that CNTs play in improving research and making a host of new and exciting devices possible.





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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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