Special Issue

Advanced Applications of Carbon Nanotubes

Message from the Guest Editor

The assortment of remarkable mechanical, electrical, and optical properties of carbon nanotubes (CNTs) puts them in the center of interest for various industrial applications. The focus of this Issue, however, will be on one of the most interesting fields of application of CNTs, which is nanomedicine. Because of their unique structure, often reffered to as a rolled graphene sheet, CNTs offer a versatile platform for the construction of a wide range of functional composites. For example, their inner cavity may be filled with a range of materials suitable for drug delivery, radiotherapy, or bioimedical imaging, while their outer walls may be functionalized with biologically and biotechnologically relevant molecules, such as proteins, targeting antibodies, contrast agents, or other moieties providing specific functionalities. During the last years, many in-vivo and in-vitro studies have shown remarkeble biocompatibility and non-toxicity for functional CNTs created for biomedical applications, the two most important considerations to have in mind while designing such nanocomposites.

Guest Editor

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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