

Special Issue

The Biomedical Applications of Graphene and Graphene-Related Materials

Message from the Guest Editors

A great deal of attention has been paid to the pharmaceutical and biomedical applications of graphene oxide and graphene quantum dots. The use of such materials facilitates the development of drug formulations by mixing solutions of graphene quantum dots and drugs, and can be used to improve the dissolution of low-molecular-weight hydrophobic drugs. Due to the ease of formulating pharmaceutical products by a simple process of mixing drugs with these substances, as well as their favorable biocompatibility and the possibility of numerous applications, they can be used in medicine and pharmacy to control drug release, the dissolution of insoluble drugs, and the controlled release of drugs and large biological molecules. Graphene-based nanostructures and nanohybrids have attracted increasing attention in recent years due to their two-dimensional structures, high surface areas, and good biocompatibility. One of the most exciting application areas of graphene and graphene oxide is in the biomedical engineering field. This Special Issue is expected to gather contributions from corresponding works on new methods, new structures, new materials, and new bio-applications.

Guest Editors

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Editor-in-Chief

Prof. Dr. Amélia Pilar Rauter

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