

Special Issue

Carbon Nanomaterials in Pharmaceutical Sciences: Exploring Antibacterial, Antiviral, and Anticancer Properties

Message from the Guest Editor

Carbon nanomaterials comprise a novel class of materials with unique properties that can provide information about the health of certain cells, tissues, and organs: they accumulate in the target tissue/organ, perform desired and controlled treatments, inform us about the course of treatment, and are finally eliminated from the body without side effects. Multifaceted treatments for infectious diseases or cancer using one or more carbon nanomaterials can provide a platform for personalized medicine.

Almost 40 years have passed since the discovery of the first carbon nanomaterial. In the meantime, novel carbon nanomaterials such as carbon nanotubes, nanodiamonds, graphene, and carbon quantum dots have been produced. Although carbon nanomaterials have numerous advantages over existing drugs in the treatment of diseases, their application is still at a very low level. The main obstacles to their widespread application are their price, efficiency, and toxicity. Therefore, it is very important to study the biomedical applications of carbon nanomaterials, as well as the mechanisms of direct/indirect interaction between carbon nanomaterials and simple and complex cells and tissues.

Guest Editor

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