Special Issue

Graphene and Graphene Oxide in Biomedical Application

Message from the Guest Editor

Graphene-based nanostructures and nanohybrids have attracted more and more attention in recent years due to their two-dimensional structures, high surface areas, good biocompatibility, low mass density, and unique electrical property. One of the most exciting applications of graphene and graphene oxide is in the biomedical engineering field. For example, graphene and graphene oxide have been used as very good platforms for the binding of biomacromolecules and various nanoparticles for the electrical, optical, and spectral biosensing of DNA, proteins, and viruses; the modification of graphene or graphene oxide with biopolymers have been utilized for cell cultures, tissue repair and regeneration, as well as controlled drug delivery; even the conjugation of graphene or graphene oxide with quantum dots has been further applied for the cellular targeting and imaging. Keywords: grapheme, graphene oxide, nanoparticle, nanohybrids, materials synthesis, nanocomposites, biosensors, biomineralization, tissue engineering, cell culture, cellular bioimaging, drug delivery

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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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