Special Issue

Functionalized Graphene Derivatives: Structure, Properties and Biological Applications

Message from the Guest Editors

In recent years, we have witnessed a burst in the production and usage in biomedicine of nanomaterials in general and of graphene in particular. Graphene and graphene oxide are very suitable in biosystems: in fact, they show low cytotoxicity and chemical properties that allow the binding of active biomolecules and could therefore favor their intracellular delivery. Progresses in nanotechnology have allowed production of different forms of graphene that now represent a family, each member of which possesses different characteristics and properties. Unfortunately, this massive interest and production is not accompanied by a deep study of its biological effects, so that there is still much to discover and understand regarding many aspects of this nanomaterial. This Special Issue will focus on new aspects of graphene, such as functionalization, toxicity studies, and applications in biology and medicine. We invite authors to submit innovative research papers or reviews toward better understanding the effects of graphene nanoparticles in biosystems. Particular attention will be dedicated to the antimicrobial and antiviral properties of graphene.

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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