Special Issue

Graphene and Graphene Oxide as Nanomaterials for Biomedical Application

Message from the Guest Editors

Graphene and graphene-oxide-based nanomaterials have attracted broad research interest because of their unique physiochemical properties. Both experiments and computational modeling has engaged in exploring the use of these 2D allotropic structures in various medicinal and biological fields. The biomedical applications of graphene and its composites, including in small molecular drug delivery, biosensors, bioimaging, etc., have been extensively studied in the last ten years. Moreover, the nanotoxicology of graphene and its derivatives is also of interest due to its promising applications for the biofunctionalization of protein, in anticancer therapy, and as an antimicrobial agent for bone and teeth implantation. The biocompatibility of newly synthesized nanomaterials allows their substantial use in medicine and biology. Therefore, we invite you to submit manuscripts to this Special Issue on the aforementioned topics. Full papers, communications, and reviews are all welcome.

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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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