Special Issue

Nanomaterials for Biomedical Applications

Message from the Guest Editors

The use of nanomaterials in the biomedical field presents many revolutionary opportunities in the fight against all kinds of cancer, cardiac and neurodegenerative disorders, infection and other diseases. The nanoparticle platforms that have been extensively explored for biomedical applications are predominantly either purely inorganic or organic materials. Hybrid nanoparticles are composed of both inorganic and organic components that can not only retain the beneficial features of both inorganic and organic nanomaterials, but also possess unique advantages over the other two types. Hybrid nanoparticles have been proposed for the targeted release of diagnostic agents and drugs, and even as stimuli responsive nanocarriers to enhance therapy selectivity. The combination of these materials with current efforts to identify genes, proteins and metabolites implicated in human disease and use system biology approaches to develop new prognostic tools and more targeted therapies for patients, will dramatically impact healthcare in the coming years. This Special Issue focuses on the use of organic/inorganic or hybrid nanomaterials for biomedical applications.

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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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