Special Issue

Nanostructured Materials for Biomedical Applications

Message from the Guest Editors

Nanomaterials experience intensive development by rational design directed towards exploitation in cutting-edge clinical applications relevant to prosthetic, therapeutic, and diagnostic modalities. In vitro and in vivo behavior of nanostructured metals, polymers, ceramics, composites, macromolecules, and self-assembling or stimuli-responsive nanomaterials are considered. The fascinating developments include biomedical applications like target drug delivery, hyperthermia, dentistry, immune-engineering, tissue regeneration or replacement, biomedical diagnosis, monitoring, and treatment. Nanostructured materials for special medical needs face new challenges with compatibility, bioactivity, bio-nano interfacial properties, and nanotoxicity. The Special Issue "Nanostructured Materials for Biomedical Applications" highlights recent developments, opportunities, and challenges in nanostructured materials and nanotechnologies used in diverse biomedical applications. And it aims to collect some interesting papers in this field about processing, physicochemical and biological characterization, and the challenges of nanoscale systems in biomedical application.

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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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