



Nanostructured Materials for Biomedical Applications

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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

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