

Special Issue

Design of Multifunctional Nanomaterials for Diagnostic and Therapy: The Transition Pathway from Conventional to Personalized Medicine

Message from the Guest Editors

Since nanotechnology holds great potential for providing tailor-made nanomaterials functionalized with specific ligands, by incorporating therapeutic, diagnostic, as well as targeting, molecules into one single nanosystem, it would be possible to design all-in-one theranostic agents for personalized medicine. The theranostic approach focuses on patient-centered care, by combining pharmacotherapy in a predictable release manner in tandem with diagnosis, which is appreciated at multi-level medical care with special consideration in oncology, wherein nanostructures in the form of liposomes, dendrimers, polymeric nanoparticles, metallic nanoparticles, quantum dots and carbon nanotubes play a very important role. The aim of this Special Issue is to present original research and review papers comprising the newest findings concerning different nanoparticulate entities. We welcome articles related to all aspects of the synthesis, characterization and in vitro or in vivo applications of such innovative functional nanomaterials in drug release, bioimaging, therapeutics, and theranostics.

Guest Editors

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