Special Issue

Inorganic Nanoparticles for Targeted Therapy: Fabrication, Physical Properties, Biomedical Applications and Fate

Message from the Guest Editor

Inorganic nanoparticles, such as those made of iron oxide, gold, silver, cobalt ferrite, copper sulphide, as well as quantum dots, and fullerenes (namely carbon nanotubes), exhibit distinct magnetic, optical, and/or electrical properties. These properties can be tuned (as nanoparticles characteristics, such as size, shape, structure, composition, domains interactions and surface modifications can directly affect nanoparticles physical properties) and could even be amplified in composite materials (e.g., core-shell and hierarchically assembled nanostructures).

This Special Issue will focus on inorganic nanoparticles with prospective therapeutic functionalities, and will address the recent progress in nanoparticles synthesis, physicochemical properties and use in targeted therapy. In addition, nanoparticles interactions between their inner and outer components (including the neighboring environment) will be considered, in view of the fact that all these issues should be considered and harnessed in order to create the next generation biomedical devices.

Guest Editor

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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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