

Special Issue

Nanoparticles and Nanomaterials for Medicine and Biology

Message from the Guest Editor

A rapid development of nanotechnology causes increased exposure of humans and the natural environment to the potentially adverse effect of. Despite increasing studies indicating benefits from the use of nanomaterials in daily life, relatively little is known about the risk for human health. Due to the size and mobility of nanoparticles, they may overcome barriers in the body, and accumulate in the brain or other organs, leading probably to their damage. Nanoparticles have been reported to induce oxidative stress, DNA damage, inflammation, and many other adverse effects which are known to be crucial for the development of lifestyle diseases. This Special Issue focuses on the use of organic/inorganic nanomaterials for health care applications (diagnosis and treatment) and also on the in vitro and in vivo interactions of nanomaterials with biological systems from biological macromolecules through to cells, tissues, and up to the whole organism. It is my pleasure to invite you to submit manuscripts for this Special Issue.

Guest Editor

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About the Journal

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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