Special Issue

Photosensitive Nanomaterials for Biomedical Applications

Message from the Guest Editor

Current developments in the field of photosensitive nanostructured materials have a profound impact on many areas of biomedical applications. Some of the key issues concern the synthesis of photochemical active compounds and materials, and their characteristics, compatibility, toxicity, and bioactivity. The most fascinating advances in photomedicine and nanotechnology can be found in diagnosis and therapy, involving the direct use of nanomaterials and light in biological systems. Research into next-generation smart photosensitizers both in homogeneous and heterogeneous systems has gained prominence in recent years. The use of photosensitizers associated with different types of nanoscale delivery vehicles in particular has received strong interest within the field of the photodynamic therapy (PDT) and photodynamic inactivation of microorganisms (PDI). This Special Issue aims to present innovative, high-quality original research articles as well as review articles on the synthesis, structure, physicochemical properties, and biological activity of photochemically active nanomaterials for biomedical applications.

Guest Editor

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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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