Special Issue

Functional Nanomaterials for Current and Prospective Medical Applications

Message from the Guest Editor

Dear Colleagues In recent years, nanomaterials have become increasingly important in the field of medicine. Their possible applications are numerous and include all aspects of diagnosis (biosensors, contrasts, etc.) and therapy (surgical materials, tissue engineering, drug delivery, PDT, gene delivery, etc.). Often enough, functionalization is necessary to adjust the properties of the nanomaterial to the needs of the application, whether it is covalent binding of biologically active moieties, or physical or chemical modifications allowing to provide material with the required polarity, surface charge, shape, or nanostructure. This Special Issue is dedicated to advances in the field of nanomaterials (nanoparticles and nanocapsules, vesicles, including liposomes, and other nanostructured materials) functionalized in order to tailor their properties with the prospect of the medical application, even if their potential has not yet been fully tested in biological experiments. Studies on all types of nanomaterials (organic, inorganic, hybrid) are welcomed in the form of full papers, communications, and reviews.

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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