Special Issue

The Eco-Friendly Synthesis, Characterization, and Biological Application of Nanoparticles

Message from the Guest Editor

Nanomaterials have a variety of remarkable physical and chemical characteristics because of their extraordinary nano-size and high surface-to-volume ratio, nanoparticles are of significant interest. Nanoparticles have many different uses and highly promising applications in a variety of industries, including health care, food, agriculture, and the environment. Nanomaterials are commonly synthesized via chemical and physical processes that typically include the use of hazardous chemicals and high-energy and are also expensive. In an effort to reduce the environmental impact of these synthetic processes, there has been a significant increase in scientific interest in the eco-friendly synthesis of nanomaterials in recent years, where biological resources such as plants, animals, and microbes are used as efficient reducing and stabilizing agents for nanoparticle synthesis. We invite all researchers to submit their findings related to metal- and metal-oxide-based nanomaterials for biological applications.

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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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