Special Issue

Nanoparticles and Nanotechnology: From the Synthesis to Application

Message from the Guest Editor

One of the routes to developing a multifunctional engineering system seems to be “evolutionary nanotechnology”. Among the nanomaterials (□ ~100 nm) that have been fabricated for various applications are carbon, carbon nanotube, metallic, and ceramic particles, which are particularly desirable in the environmental, biomedical, and construction sectors. Such components allow us to enhance the physicochemical, biological (comparable to the real components of human bone), and mechanical parameters in relation to bulk ones. As a result, structures prepared in the form of nanocomposites can be widely used in different fields, including electronics, energy storage, sensing, catalysis, and biology. Hence, many research groups around the world are focused on the development and investigation of novel substances or materials with a broad spectrum of applications. Therefore, I would like to invite all researchers interested in the field of nanomaterials to consider publishing a paper in this Special Issue. We hope that your studies will result in the preparation of high-quality original research articles.

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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