Special Issue

Novel Nanoparticles and Nanomaterials: From Design to Applications

Message from the Guest Editor

In recent years, nanoparticles have received increasing attention due to their unique physical and chemical properties. Currently some of the most common nanoparticles are the metal oxide, metal or polymeric ones. Nanostructured materials and nanoparticles available applications include catalysis, sensors, environmental remediation, medicine, varistors, solar cells, rubber, concrete, foods, cosmetics and personal care products to name just few. These applications have already changed our lives to the point that intelligent design of new nanostructured materials is the key to engineering new products and create new technologies. This special issue of *Materials* will try to cover recent advances in synthesis, design, processing and application of nanoparticles and nanomaterials. We welcome the submission of full papers, communications, and reviews. Potential topics include, but are not limited to:

- Nanomaterials in medicine (biomedical devices, drug delivery, imaging etc.)
- Nanomaterial-based cleaning technologies (photocatalysis, membranes, adsorption etc.)
- Nanomaterials in sensing systems
- High energy batteries and advanced electronics

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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