Special Issue

Advanced Functional Nanomaterials and Their Applications

Message from the Guest Editors

This Special Issue is a timely approach to survey recent progress in area of functional nanomaterials and their applications. The articles presented in this Special Issue will cover various topics, ranging from materials preparation, engineering, functionalization, and their various applications, such as sensors (chemical, biological, gas, and so on), environmental remediation, biological labeling, fuel cell, electrocatalysis, catalysis, photocatalysis, electronic devices, bio-applications of nanomaterials, and so on. Certainly, the coverage is not complete, but it is our intension that this Special Issue will offer a unique glimpse of what has been achieved and what remains to be explored in functional nanomaterials. The special issue will cover the following topics (but not limited to):

- Synthesis and characterizations of functional nanomaterials
- Sensors (bio, chemical, gas, optical, etc.)
- Photocatalysis,
- Catalysis
- Environmental remediation
- Electronic devices
- Energy devices
- Bio applications of functional nanomaterials
- Theoretical studies, etc.

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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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