Special Issue

Synthesis, Characterization and Applications of Sustainable Advanced Nanomaterials

Message from the Guest Editor

With the rapid development of nanotechnology, nanomaterials have recently attracted the attention of the scientific community due to their unique structural, morphological, optical, electrical, thermal and magnetic characteristics. These enhanced properties are caused by their high surface to volume ratio that is due to their size falling in the 1–100 nm range. Nanomaterials can be metallic based nanoparticles (ferrites, chromates, aluminates, bismutates and others) or carbon oxides (carbon nanotubes, graphenes, graphenes oxides and others). The tailoring of the shape, size and size distribution of nanoparticles, as well as the properties of hybrid nanoparticles is achieved though different synthesis routes by modifying parameters such as pH, concentration of reactants, dopants or stirring speed.

This Special Issue aims to cover a wide array of subjects from dealing with the synthesis, characterization and applications of nanomaterials. It will cover the state-of-the-art of advanced nanoparticles in a large range of disciplines (chemistry, pharmacy, nanomedicine, food science, cosmetics, agriculture, catalysis and environmental science).

Guest Editor

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Message from the Editorial Board

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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