Special Issue

Metal and Metal Oxide Nanoparticles-Based Materials for Medical and Catalytic Applications

Message from the Guest Editors

Nanostructures formed from both metal and metal oxide nanoparticles are especially interesting from a practical point of view. It was proved that core–shell metal–metal oxide nanoparticles can be characterized by physiochemical properties which are not observed in the case of homogeneous nanoobjects of the same size and morphology. Many interactions appearing between metal and metal oxide nanoparticles in the formed composites or layered materials can induce special properties such as increased strength or amplified chemical resistance and biological activity. This Special Issue aims to present the latest results of research on the development of new metal and metal oxide nanoparticle-based materials. Key research topics include, but are not limited to, the following: production, characterization, properties and application of novel metal and metal oxide nanoparticle-based materials. We encourage you to share the results of your work with the readers of *Materials*. We look forward to receiving original high-quality research papers, communications and review publications.

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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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