Special Issue

Advantages and Perspectives of ZnO Nanostructured Materials

Message from the Guest Editors

The Special Issue, “ZnO Nanostructured Materials: Advantages and Perspectives”, will address advances in the growth, characterization, and applications of ZnO in the form of nanoparticles, nanowires, or any other kind of nanostructure. Recent developments in the study of ZnO have shown that nanostructures can be used in a very wide range of applications—from optoelectronic devices to photocatalysts or as antibacterials. In this sense, scalable growth methods, characterization aspects, and studies on application performance are key factors to the development and use of this material in common life. Original papers are solicited on all types of growth techniques and technological applications of ZnO nanostructures and its combination with other nanomaterials to form hybrid structures. Of particular interest are recent developments in low-cost growth techniques, doping methods, characterization of properties, and environmental applications of ZnO nanostructures. Articles and reviews dealing with applications and prospects in a green and circular economy, including photocatalysis, gas sensing, as antibacterial, and in optoelectronics, are very welcome.

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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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