Special Issue

Microscopy and Microanalysis in Nanostructured Materials

Message from the Guest Editor

The chemical composition, structure, morphology, and particle size of functional nanostructured materials are key to their future technological application. With this in mind, it is necessary to develop new and different synthesis methods that ensure the compositional and morphological homogeneity of the obtained nanomaterials. The characterization techniques allow structural and microstructural characterizations, as well as the study of their physical properties. All of this contributes to the establishment of the structural–microstructural–property relationships, which allows us to understand their technological applications.

A detailed structural characterization must be performed in order to understand the mechanisms that control the functional behavior of these nanostructured materials at an atomic level, using the information obtained from advanced microscopy techniques, which allows the simultaneous acquisition of structural and compositional data at an atomic scale for the development of more effective devices. Full papers, communications, and reviews are all welcome.

Guest Editor

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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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