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

Prof. Dr. Julio Ramírez-Castellanos
Department of Inorganic Chemistry, Complutense University of Madrid, Madrid, Spain

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Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Maryam Tabrizian
1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

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