Special Issue

Synthesis, Characterization and Multipurpose Applications of Advanced Micro and Nanomaterials Used in Life and Materials Science

Message from the Guest Editors

The interdisciplinary field of materials science has tremendously advanced over the years, with a key turning point marked by the downscaling of bulk materials to micro and nanomaterials. This great advance has allowed for the discovery of novel materials with structures and properties that are highly different than those of their bulk counterparts. Moreover, a plethora of advanced and multipurpose applications were brought to the scientific and industrial attention, which have considerably revolutionized the world as we currently know. In this context, the field of micro and nanomaterials is facing a constant expansion, with novel synthesis routes and characterization methods constantly being developed. Thus, the aim of this Special Issue on “Synthesis, Characterization and Multipurpose Applications of Advanced Micro and Nanomaterials Used in Life and Materials Science” is to collect the most recent and comprehensive manuscripts on the topic of micro and nanomaterials, with a special emphasis on the most advanced synthesis and characterization methods and their associated applications.

Guest Editors

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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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