Special Issue

Mesoporous Silica and Their Applications

Message from the Guest Editors

Ordered and non-ordered mesoporous silicas have been considered fascinating materials for many technological applications due to their porous structure and morphological features. The possibility of a controlled chemical modification with functional moieties (organic molecules, enzymes, organometallic compounds, metallic nanoparticles, etc.) has opened new routes to facing the challenges of the new millennium. Research towards green synthetic methodologies to produce functional mesoporous silicas is highly desirable to match contemporary economic and environmental sustainability issues. This Special Issue of *Materials* is aimed at providing an overview on the many aspects of mesoporous silicas, including smart design, advanced and green synthetic approaches, physicochemical characterization, computational modeling, and structure–properties correlations, in different type of applications: Heterogeneous catalysis and biocatalysis, nanomedicine, bioremediation, etc.

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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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