Special Issue

Aerogels: Synthesis, Characterization and Application

Message from the Guest Editor

The Special Issue will focus on the specific development of aerogels and aerogel based composites for advanced applications. Due to the outstanding combination of properties an awesome variety of applications using aerogels and aerogel based composites is possible. Applications requiring materials for thermal super insulation, light weight construction, electrochemical topics, acoustic damping, adsorption agents, medical issues, as well as cosmetics and personal care products to mention some are under development. All of them are dealing with special combinations of properties which are meanly defined by the open porous nanostructured network and the great variety of chemical origin of the aerogels. The idea of the special issue is to collect the knowledge of the correlation between the necessities of taking care on chemical precursors and reaction conditions during synthesis and suitable drying methods as well as further functionalization to meet the required combination of properties. In this context we would like to invite you to contribute to this special issue.

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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