Special Issue

Structure-Processing-Property Study of Aerogel Composites

Message from the Guest Editors

The Special Issue, “Structure-Processing-Property Study of Aerogel Composites” will encompass the current understanding of structure–processing–property relationships as well as the recent advances in the synthesis, characterization and applications of the different types of composite aerogels. These highly porous materials combine outstanding properties such as low density, ultra-low thermal conductivity, great sorption capacity and high surface area. Multifunctionality can be obtained when small amounts of different fillers are dispersed in the aerogels. Therefore, interesting new properties such as fire resistance, electrical conductivity or magnetic properties can be imparted. Moreover, the relatively low mechanical properties and structural integrity of aerogels are commonly enhanced with the incorporation of reinforcements. Original research papers are solicited on recent developments in aerogel processing, characterization, structure and resulting properties. Articles and reviews dealing with new aerogel applications are also welcome.

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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.

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