Special Issue

Applications of Silica and Silica-Based Composites

Message from the Guest Editors

This Special Issue is intended to present studies on the preparation and characterization of controlled functionalized porous materials with tailored properties that can be used in different applications. The functionalization of porous silica materials has been used to tune their physical and chemical properties for different applications, such as drug carriers, gas storage materials, water pollutants adsorbents, or asphalt modifiers. The topics of interest include, but are not limited to: the preparation of functionalized porous materials via co-condensation or post-grafting methods; the structural and morphological characterization of these materials with tailored properties; functionalized silica materials for hydrogen, methane, or carbon dioxide storage; functionalized porous silica materials as drug carriers; functionalized mesoporous silica materials used for the removal of dyes, heavy metals, or other pollutants from wastewater; and functionalized silica materials used as an asphalt modifier.

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Message from the Editorial Board

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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