Special Issue

Silica and Silica-based Materials for Biotechnology, Polymer Composites and Environmental Protection

Message from the Guest Editors

Although in recent years silica and silica-based materials has become one of the most frequently used materials in a various branches of science and industry, their use in biotechnology still is an very intensively expanding fields in materials chemistry. This is due to the extraordinary stability and mechanical resistance of the silica, its neutral character for most of the molecules as well as surface properties, such as well-defined surface area and the presence of numerous of hydroxyl moieties. These properties make silica extremely interesting for biotechnological application including, among others, adsorption of hazardous pollutants, catalysis, enzyme immobilization, drug delivery systems and development of novel, eco-friendly solutions. This Special Issue welcomes articles concerning synthesis, characterization and application of silica and silica-based materials in various areas of biotechnology.

Keywords
- silica
- biomaterials
- silica-based materials
- silica for biotechnology
- polymer composites
- environmental protection

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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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