



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

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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

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