Special Issue

Preparation, Characterization and Application of Silica-Based Membranes

Message from the Guest Editor

The guest editor warmly invites you to submit your original work or review article to this Special Issue "Preparation, Characterization and Application of Silica-based Membranes". This Special Issue is devoted to the state-of-the-art and future developments in the field of amorphous silica membranes and silica-organic hybrid membranes. The topics include, but are not limited to, preparation techniques, microstructure control, membranes module, characterization, transport phenomena, hydrogen separation, novel separation such as mutual separation of lower hydrocarbons, and application to membrane reactors. **Keywords**

- Amorphous silica
- Gas separation
- Membrane reactor
- Catalytic membrane
- Sol-gel
- CVD
- Molecular sieve
- Pore size control
- Separation mechanism

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Message from the Editor-in-Chief

You are cordially invited to contribute a research article or a comprehensive review for consideration and publication in *Membranes* (ISSN 2077-0375). *Membranes* is an international, peer-reviewed open accessjournal of membrane technology published monthly online by MDPI. The journal covers the broad aspects of the science and technology of both biological and non-biological membranes, including membrane dynamics and the preparation and characterization of membranes and their applications in water, environment, energy, and food industries. Articles contributing to better understanding of transport processes in all types of membranes are also welcome. The scientific community and the general public have unlimited and free access to the content as soon as it is published. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

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