



Preparation, Characterization and Application of Silica-Based Membranes

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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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