



## Polymer Films/Membranes: Structure, Properties, and Applications

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### Message from the Guest Editors

Membrane technology has been widely applied for water, energy, and environment-related processes, due to its relatively low energy consumption and mild operation conditions. Polymer films and membranes have an important role to play in various membrane separation technologies. Polymer membranes have advantages such as light weight, high process flexibility, and low capital cost, and they have been extensively used for water purification, desalination, gas separation, and energy generation and storage.

This special issue focuses on Polymer Films/Membranes. In particular, the topic of interest includes but is not limited to:

- The design and synthesis of polymer films and membranes;
- New characterization techniques of polymer films and membranes;
- The structure and property relationship of polymer membranes;
- Application of polymer membranes for water purification, desalination, gas separation, energy generation, and storage, etc.





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## Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

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