Special Issue

New Polymer Electrolyte Membranes for Fuel Cells

Message from the Guest Editors

This Special Issue focuses on the latest advancements in the field of polymer electrolyte membranes for fuel cells, highlighting their crucial role in the development of sustainable energy technologies. This issue will cover a broad range of topics related to the design, synthesis, and structure–property relationships of various types of polymer membranes, including proton exchange membranes (PEMs), anion exchange membranes (AEMs), and high-temperature proton exchange membranes (HT-PEMs). Contributions to this Special Issue will provide insights into the latest innovations in polymer electrolyte membranes, explore new synthetic strategies, and discuss their applications in next-generation fuel cells. By bringing together leading research in this area, this Special Issue aims to advance our understanding of the relationship between membrane properties and fuel cell performance, driving the field toward more efficient and commercially viable energy solutions. The topics of interest include but are not limited to the following:

- proton exchange membrane;
- anion exchange membrane;
- high-temperature proton exchange membrane;
- fuel cell

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